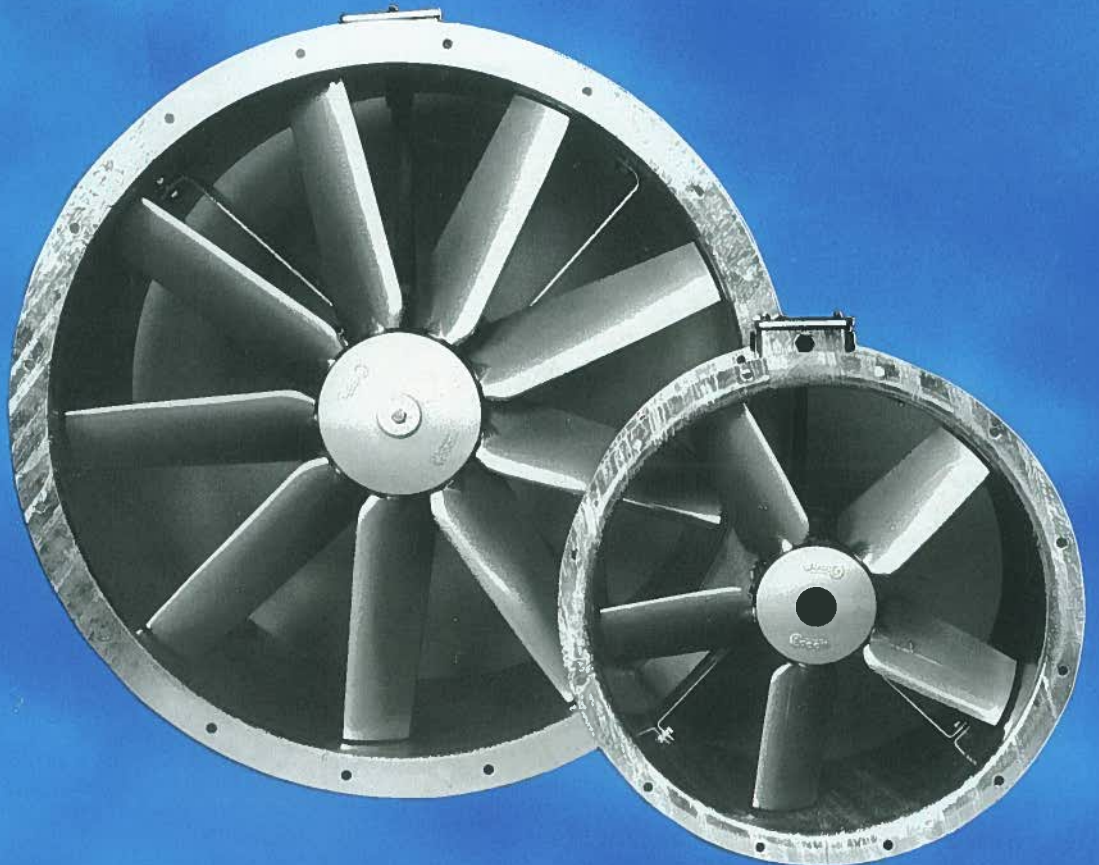


JM Aerofoil 50 Hz

Performance and Specification Details
Long & Short Cased Axial Fans
For Ducted Applications



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JM AEROFOIL - INTRODUCTION

Air movement technology is a world of specialised knowledge and one in which Woods Air Movement Limited are not just the specialists but the acknowledged leaders. Woods extensive knowledge of designs and applications extends back over 90 years of experience as one of the world's largest manufacturers of fans and air moving equipment.

Based in Colchester, in the U.K., Woods have extensive laboratories that constantly develop new concepts and product ranges, enabling the company to maintain its market leadership. In addition Woods have three sales centres in the U.K. together with subsidiary companies in Italy, Germany, Finland, France, Singapore and the U.S.A. plus, a network of fully trained local staff in 70 different countries with intimate knowledge of local needs.

In fact Woods products are marketed and installed in over 100 countries, with applications ranging from the world's largest engineering projects to the smallest poultry houses.

Whatever the product size or cost it is Woods policy to provide the highest quality at competitive prices, all backed by dedicated staff, fully trained to provide customer satisfaction.

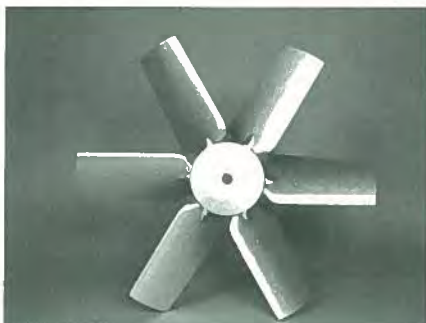
Woods Air Movement Limited is a BS EN ISO 9001:94 Registered Company.

In line with the Company's strict adherence to the highest quality assurance standards, regular quality audits occur ensuring that the Woods JM Aerofoil consistently meet the catalogue specifications, now independently endorsed by the Air Movement and Control Association International (AMCA).



All Aluminium Precision Die-Cast Impeller

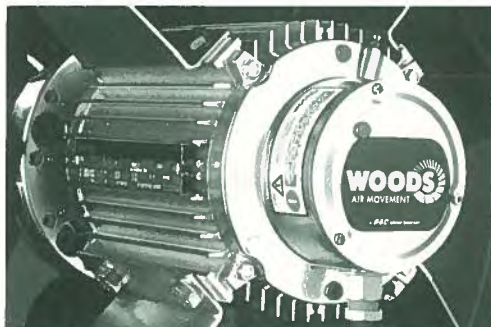
A unique high efficiency aerofoil section blade within a purposely smoothed hub and clamp-plate for adjustable pitch angle flexibility. The Woods impellers are all precision die-cast to offer thin aerofoil sections for low generation of noise levels. Every cast aluminium component is X-rayed using Real Time Radiography inspection prior to assembly. This feature can provide evidence of casting quality against product liability legislation if specified.



"T" Slot /Pad Mounted Fan Motors

All Woods JM range of fans incorporate an electrical power drive specifically designed to optimise fan performance, and minimise the obstruction to airflow.

Totally enclosed, pad mounted design to designation IP55, Class F insulation as standard. Directly coupled to the fan impeller to minimise drive losses. Overheat protection is included on single phase machines and available on others.



Testing

Performance data has been obtained in accordance with the internationally recognised standard - ISO5801:1997 installation category D (AMCA approved) for aerodynamic performance and BS 848 Part 2 (1985) for acoustic performance.



Fixings

All fixings are protected with an organically based zinc coating to provide excellent corrosion resistance.



Arms

Mounting arms are specially designed to offer minimal resistance to airflow. These arms are carefully spaced away from the impeller to minimise noise generation.

The arms also improve the cooling of the motor, hence increasing motor performance and life. All arms are hot dipped galvanised after manufacture for maximum resistance to corrosion.



Casings

Available in either a long cased form complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled flanges, fully welded seams and hot-dipped galvanised after manufacture for excellent durability.



SPECIFICATION

Motors

Constructed from aluminium up to frame size D160, cast iron above as standard with special "T" slot or pad mounted fixings.

Suitable for horizontal through to vertical shaft operation.

Supplied IP55, with removable drain plugs.

Bearings lubricated with wide temperature range grease, sealed for life.

Continuous operating range -40° C to +50° C, minimum starting temperature -20°C (for other operating temperatures please enquire).

Insulation class F as standard.

2 speed operation by Delta/Star (Δ/λ) reconnection available on most three phase motor up to frame size F22.

Integral pre-wired capacitor on most single phase fans.

Ratings comply with BS5000 Part 99 and IEC 34-1.

Two speed motors available

Pole Change (PC) or Dahlander

Two speeds can be obtained by reconnecting a single winding via six winding terminals to give two separate pole numbers.

Dual Wound

This type of motor has two separate individual windings of the requisite poles to give the speeds required.

Electrical Supply

220-240 V 50 Hz single phase (1 ϕ)

380-420 V 50 Hz three phase (3 ϕ)

(60 Hz variants and other voltages are available on request).

Speed control can be provided by Woods Air Movement's range of electronic and auto-transformer type speed controllers. Speed control details are based on the adoption of the more usual and technically superior three-wire circuit. Refer to Colchester if two wire control is required. The single phase controller rating may be less than the full load current, as only the "U" phase voltage is varied.

Many of the regulatable, three phase motors may be offered for 2 speed applications by Delta/Star (Δ/λ) reconnection.

Impellers

JM Aerofoil impellers have a unique aerodynamic section blade to optimise the efficiency of

performance and minimise the generation of noise. The thin sections obtained by precision die cast manufacturing techniques help promote these particular features whilst also allowing a lighter weight assembly to be produced.

Precision die cast aluminium hub and clamp-plate, with equally spaced, fully adjustable, high pressure die cast aerofoil section blades.

All rotating aluminium components are X-ray examined prior to machining to assure quality. Balanced to BS6861 Part 1 1987 (ISO 1940-1986) Grade G6.3. Corrosion resistant and suitable for continuous outside use from -40°C to +50°C, (for other operating temperatures please enquire).

Non-overloading

JM Aerofoil fans have a non-overloading characteristic; the peak power input occurs within the range of normal operating pressures and is always exceeded by the motor rating.

Ancillaries

Motor and Impeller side guards to comply with BS848 Pt 5., and draft ISO standard.

Choice of auto-transformer or electronic speed controllers.

2 speed switch for Delta/Star (Δ/λ) reconnection, Silencers.

Mounting Feet for both horizontal or vertical operation.

Matching Flanges, Flexible Connectors.

Air Operated Dampers for horizontal or vertical up operation. Bellmouth inlets. Vibration Isolators. Control gear complete with BMS contacts available on request.

Finish

Fan casings, motor mounting arms, mounting feet, matching flanges and guards are all hot dipped galvanised after manufacture, (in accordance with BS EN ISO 1461:1999).

Motors, aluminium self finish, or painted to motor manufacturers specification.

SPECIFICATION

Reversal of Airflow

Woods Air Movement has developed the JM Aerofoil to give the optimum aerodynamic and acoustic performance. To optimise the performance Woods Air Movement used the latest design software to establish the blade shape and in particular the aerodynamic blade sections. The results of laboratory testing demonstrated world class aerodynamic and acoustic performance that is AMCA approved.

As part of our commitment to fan engineering and total quality Woods Air Movement have established the operational limits of the impellers in all circumstances. Under laboratory conditions Woods Air Movement have tested JM impellers when run forwards, and in reverse. By measuring the stresses on the impellers under these conditions, and relating these stresses to the properties of the alloys used for impeller construction, it is possible to determine the maximum speed of the impeller for reliable life long operation.

A further factor that must be considered in assessing the life of the impeller is the quality of the casting. Extensive testing of the alloys we use has established relationships between life, operational stresses, and casting quality. Therefore to further ensure reliable operation of our impellers all alloy impeller castings are assessed using x-ray against rigorous acceptance criteria.

Since the stresses experienced in the reverse mode are generally higher than those in forward operation some impeller configurations are not suitable for applications that require continuous or regular reverse operation. Where this is the case we have highlighted the fact on each relevant performance chart within this catalogue. If these fans are required to be operated in reverse in other than cases of emergency, then each instance should be referred to Colchester for qualification or re-selection of impeller type.

All other impeller configurations can be safely operated in reverse. Reversal is obtained by interchanging electrical connections.

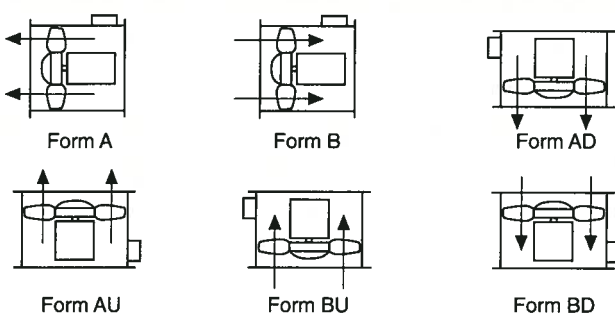
Forms of Running

The direction of airflow through the fan and the fan mounting position are defined as the "Form of running".

On each chart is shown the standard Form(s) of running for that particular fan, when mounted horizontally. For vertical operation add suffix "U" for airflow up, or suffix "D" for airflow down.

The standard Form of running offered will be Form B. When an alternative is available: see chart information, please request when the fan is ordered. Form of running is especially relevant when weatherproofed motors are required.

Arrows indicating correct rotation and direction of airflow are incorporated in the duct nameplate.



Test Methods

Testing

The air and sound performance data has been measured by the latest version of British and International Standards:-

ISO 5801:1997 method for testing air performance (dual numbered BS848 Pt1 1997). BS848 Pt 2 1985, method of noise testing.

It is essential, when comparing fan performances, that the same installation category and test standards are used at all times.

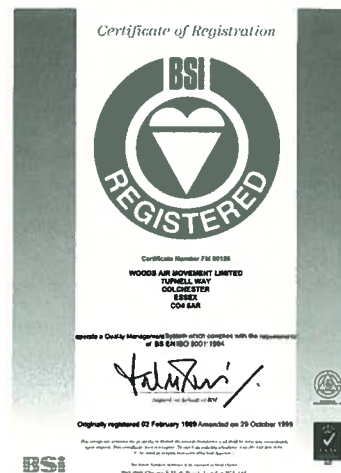
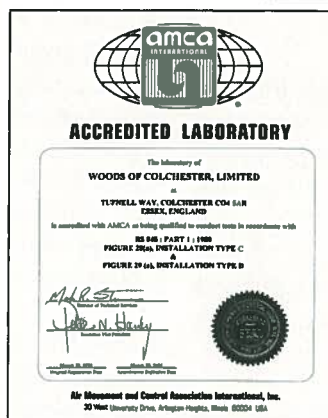
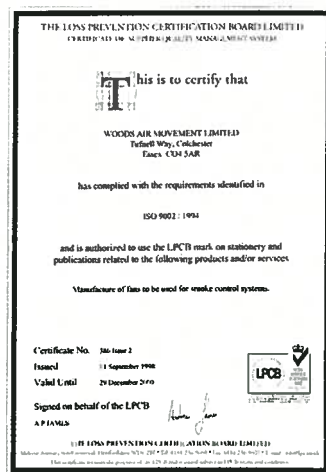
Acoustic Data

The sound levels quoted are based on tests carried out under the Woods certified laboratory conditions. Using the spectrum corrections stated on each performance chart, an unweighted sound power spectrum can be obtained for the fan.

Motor Ratings

The motor ratings, starting, full load currents and speeds refer to the maximum output of the motor. When the impeller does not require the full output, the power and current will be less than the maximum quoted.

QUALITY SYSTEMS



Woods Air Movement Limited certifies that the JM Aerofoil shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Quality Systems

Woods Air Movement Limited is committed to Quality Assurance. Registration to BS EN ISO 9001.94, means that Woods design is quality assured as well as the manufacture.

Our commitment to Quality Assurance doesn't stop with the hardware. The performance data comes from standard tests carried out in Woods own laboratory which is British Standard and AMCA accredited. Those fans which are AMCA licensed for aerodynamic performance are identified by the AMCA Seal on the appropriate characteristic curve(s).

A JM Aerofoil can be bought with the confidence as with all Woods products, that it will achieve the published performance data and match the assured quality. All the Woods JM Aerofoils are fitted with IP55 motors as standard, and come with a 2 year ex works warranty.

All fans as detailed in this publication can be supplied for a one off emergency operation at temperatures up to 200°C for 2 hours (H.T. Category 200/2). This facility is independently certified by the Loss Prevention Certification Board (LPCB), Certificate number 386a Issue 2. Certain fans can be supplied for a one off emergency operation at temperatures up to 400°C for 2 hours (H.T. Category 400/2 LPCB approved) Please refer to Publication JM/HT for details.

HOW TO SPECIFY

Specifying The Fan

Having chosen the fan most suitable for your individual application.

Please specify as follows:-

1. The fan shall be manufactured by Woods Air Movement Limited model type JM Aerofoil , long or short cased (L or S-type).
2. Motors, squirrel cage type, insulated to class F, bearings lubricated with wide temperature grease, keyed shaft. To comply with BS5000 Pt 99 and IEC 34-1. Weatherproof to IP55. (Overheat protection provided on most single phase motors).
3. Impellers, precision die cast aluminium hub and clamp-plate, with equally spaced, fully adjustable precision die cast Aerofoil section blades. All rotating aluminium components to be X-ray examined prior to machining to assure quality of castings.
4. Casings, either a long cased form complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled flanges, fully welded seams and hot-dipped galvanised after manufacture for excellent durability.
5. Mounting Arms, manufactured from mild steel hot dipped galvanised after manufacture.
6. Performance shall be independantly approved by AMCA, and established in accordance with ISO5801:1997 installation category D, method of testing air performance and BS848 Pt 2 1985 method of noise testing.
7. Ancillaries as required.

Ordering The Fan

After identifying the best fan for your application please order as follows:-

1. Fan type: JM Aerofoil Long cased (L-type), or Short Cased (S-type) Form A or Form B.
2. Fan Code:
eg: 63JM/20/8/6/24
where: 63 denotes the Fan impeller diameter in centimetres.
JM denotes Fan Type.
/20 denotes impeller hub diameter in centimetres.
/8 denotes a nominal 8 pole speed.
/6 denotes the number of blades.
/24 denotes the Pitch Angle for the required duty.
3. Quantity required.
4. Duty required at standard air and temperature e.g. 1.60 m³/s @ 50 Pa.
5. Motor. eg: CT5
6. Electrical Supply:
220-240 V / 50 Hz / 1 ϕ
380-420 V / 50 Hz / 3 ϕ
7. Ancillary items required.

Mounting Feet.
Impeller and Motor Side Guards.
Silencers with or without pod.
Speed Controller (electronic or auto-transformer) or 2 speed switch type MDS3.10.
Air Operated Dampers.
Matching Flanges
Bellmouth Inlets.
Flexible Connectors.
Vibration Isolators.

GUIDE TO FAN SELECTION SELECTION EXAMPLE - TOTAL PRESSURE

There are two principle methods of expressing the pressure requirements, namely, P_F (Total) and P_{SF} (Static) pressure. The two types of pressure are related:

$$P_F = P_{SF} + P_{dF}$$

P_F = Fan Total pressure
 P_{SF} = Fan Static pressure
 P_{dF} = Fan Dynamic pressure

The international convention considers fan performance in terms of total pressure, but there is also established practice relating to the use of static pressure. For this reason Woods' selection charts are laid out on a total pressure major scale and include a secondary grid for static pressure. The facility to display fan performance in terms of static pressure is necessary in order to avoid total pressure fan selections being made based on static pressure system requirements.

The guide selections are made for either total or static pressures of 100Pa. The resulting selections are quite different and highlight the consequences of selecting static pressure from charts that only display performance in terms of total pressure.

Procedure - Total Pressure (P_F)

1. Guide to Chart Numbers of Possible Selections

The charts are arranged in order of fan diameter, starting at 315 mm, up to 1600 mm diameter, and in order of fan speed for each diameter, 3,5,6,9 & 12 bladed fan impellers as available.

NOTE: The chart numbers lead to a variety of fan sizes, impeller configurations and speeds. The fan selected from the alternatives available will depend on the most critical factor for the particular application - Volume Flow and Pressure required, Size, Power Consumption, Sound Level or First Cost.

2. Required Duty

Establish the volume flow and total pressure required of an individual fan at Standard Air (1.2 kg/m³).

3. Selection on Individual Fan Charts

The data provided on each performance chart is specifically for ducted - Type D (ducted) installations for both long or short cased (S-type) fans. Providing reasonable Type D conditions are maintained in installation of the fans, no additional factors to volume flow or pressure need be incorporated for a suitable selection to be made.

Plot the duty on the selected fan charts to establish blade angle, sound level, absorbed power, motor size and rating, for the particular arrangement.

① Duty Point Required - @ Standard Air (1.2 kg/m³). 0.55 m³/s @ 100 Pa **total** pressure.

② Volume Flow = 0.55 m³/s

③ Fan Total Pressure = 100 Pa

④ Overall inlet Sound Power Level = 72 L_w (Interpolated from surrounding levels).

⑤ Pitch Angle required to achieve Duty Point = 28°

⑥ Corrections to overall Sound Power level for 28° Pitch Angle.
(Operating Point is **Below** shaded area):-

Sound Power Level	Frequency Hz							
	63	125	250	500	1K	2K	4K	8K
Inlet	65	67	64	65	60	54	51	45 L _w
Outlet	67	70	65	65	60	54	52	46 L _w

⑦ Absorbed Power @ Duty Point @ 28° Pitch Angle = 0.09 kW.

Suitable Motor for fixed speed application, 3 phase supply, from motor schedules = BT4

Motor Data:

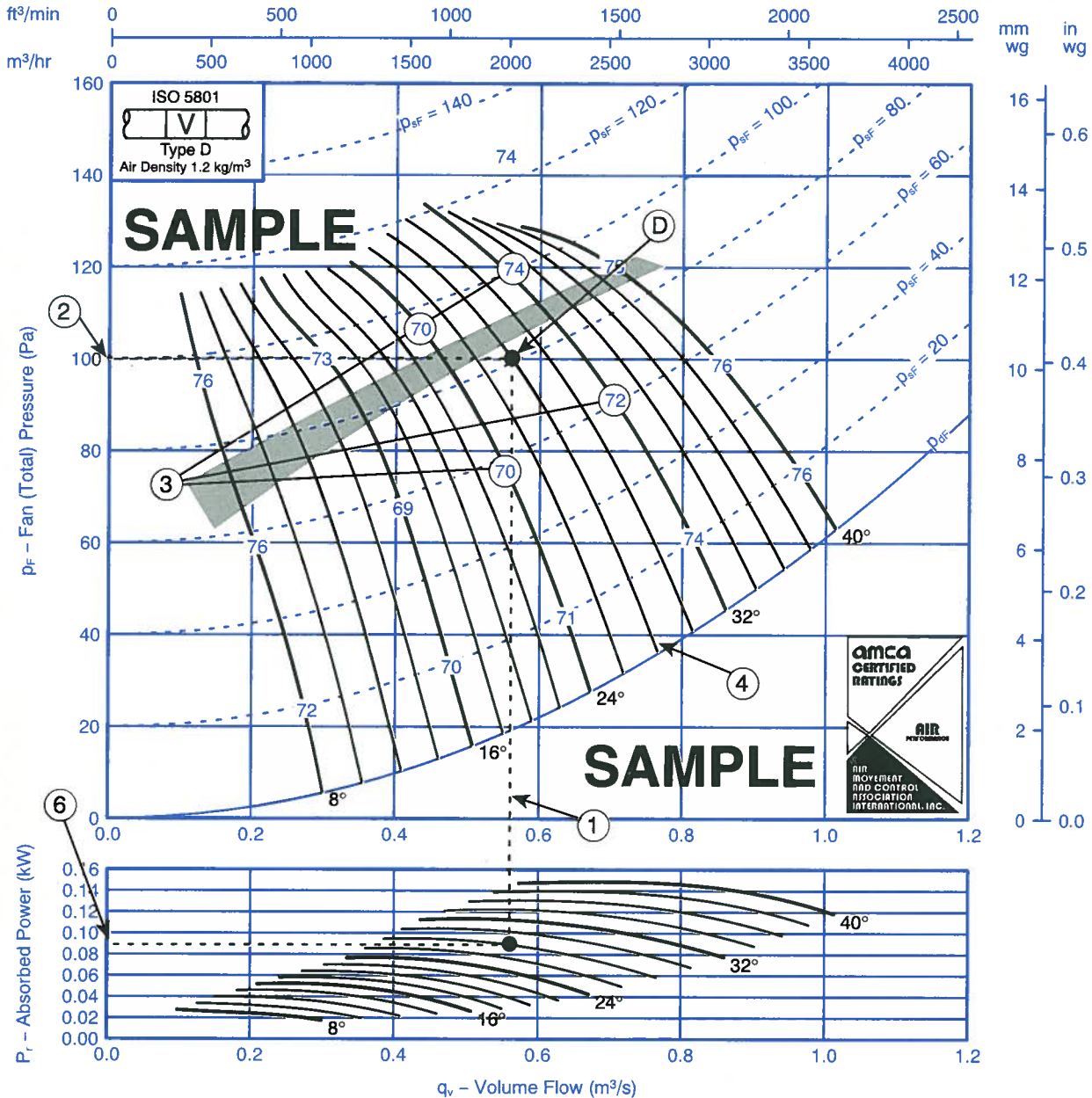
Motor Rating (kW) = 0.15
 Full Load (A) = 0.5
 Starting Current (A) = 2.0

Speed Regulatable Versions

If a speed regulatable version is required, (or Delta/Star (Δ/Λ) reconnect on 3 phase versions) the duty volume flow required should be multiplied by 1.05 prior to fan selection being made.

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-7	-5	-5	-13	-20	-27	-35	8	-6	-5	-4	-5	-13	-20	-27	-35
	-14	-10	-7	-3	-10	-16	-22	-31		-12	-8	-7	-3	-9	-16	-20	-29
16	-12	-6	-6	-5	-13	-15	-21	-27	16	-10	-3	-6	-5	-12	-14	-21	-27
	-10	-6	-7	-6	-9	-12	-17	-24		-9	-3	-6	-6	-9	-12	-17	-24
24 - 40	-5	-6	-7	-8	-14	-18	-23	-28	24 - 40	-3	-5	-7	-7	-13	-17	-21	-26
	-7	-5	-8	-7	-12	-16	-21	-27		-5	-2	-7	-7	-12	-16	-20	-26

There are two principle methods of expressing the pressure requirements, namely, P_F (Total) and P_{SF} (Static) pressure. The two types of pressure are related:

$$P_F = P_{SF} + P_{dF}$$

P_F = Fan Total pressure
 P_{SF} = Fan Static pressure
 P_{dF} = Fan Dynamic pressure

The international convention considers fan performance in terms of total pressure, but there is also established practice relating to the use of static pressure. For this reason Woods' selection charts are laid out on a total pressure major scale and include a secondary grid for static pressure. The facility to display fan performance in terms of static pressure is necessary in order to avoid total pressure fan selections being made based on static pressure system requirements.

The guide selections are made for either total or static pressures of 100Pa. The resulting selections are quite different and highlight the consequences of selecting static pressure from charts that only display performance in terms of total pressure.

Procedure - Static Pressure (P_{SF})

1. Guide to Chart Numbers of Possible Selections

The charts are arranged in order of fan diameter, starting at 315 mm, up to 1600 mm diameter, and in order of fan speed for each diameter, 3,5,6,9 & 12 bladed fan impellers as available.

NOTE: The chart numbers lead to a variety of fan sizes, impeller configurations and speeds. The fan selected from the alternatives available will depend on the most critical factor for the particular application - Volume Flow and Pressure required, Size, Power Consumption, Sound Level or First Cost.

2. Required Duty

Establish the volume flow and static pressure required of an individual fan at Standard Air (1.2 kg/m³).

3. Selection on Individual Fan Charts

The data provided on each performance chart is specifically for ducted - Type D (ducted) installations for both long or short cased (S-type) fans. Providing reasonable Type D conditions are maintained in installation of the fans, no additional factors to volume flow or pressure need be incorporated for a suitable selection to be made.

Plot the duty on the selected fan charts to establish blade angle, sound level, absorbed power, motor size and rating, for the particular arrangement.

D. Duty Point Required - @ Standard Air (1.2 kg/m³). 0.55 m³/s @ 100 Pa **static** pressure.

1. Volume Flow = 0.55 m³/s

2. Fan Static Pressure = 100 Pa

3. Overall inlet Sound Power Level = 74 L_W

4. Pitch Angle required to achieve Duty Point = 32°

5. Corrections to overall Sound Power level for 32° Pitch Angle.

(Operating Point is **above** shaded area):-

Sound Power Level	Frequency Hz							
	63	125	250	500	1K	2K	4K	8K
Inlet	69	68	67	66	60	56	51	46 L _W
Outlet	71	69	67	67	61	57	53	48 L _W

6. Absorbed Power @ Duty Point @ 32° Pitch Angle = 0.11 kW.

Suitable Motor for fixed speed application, 3 phase supply, from motor schedules = BT4

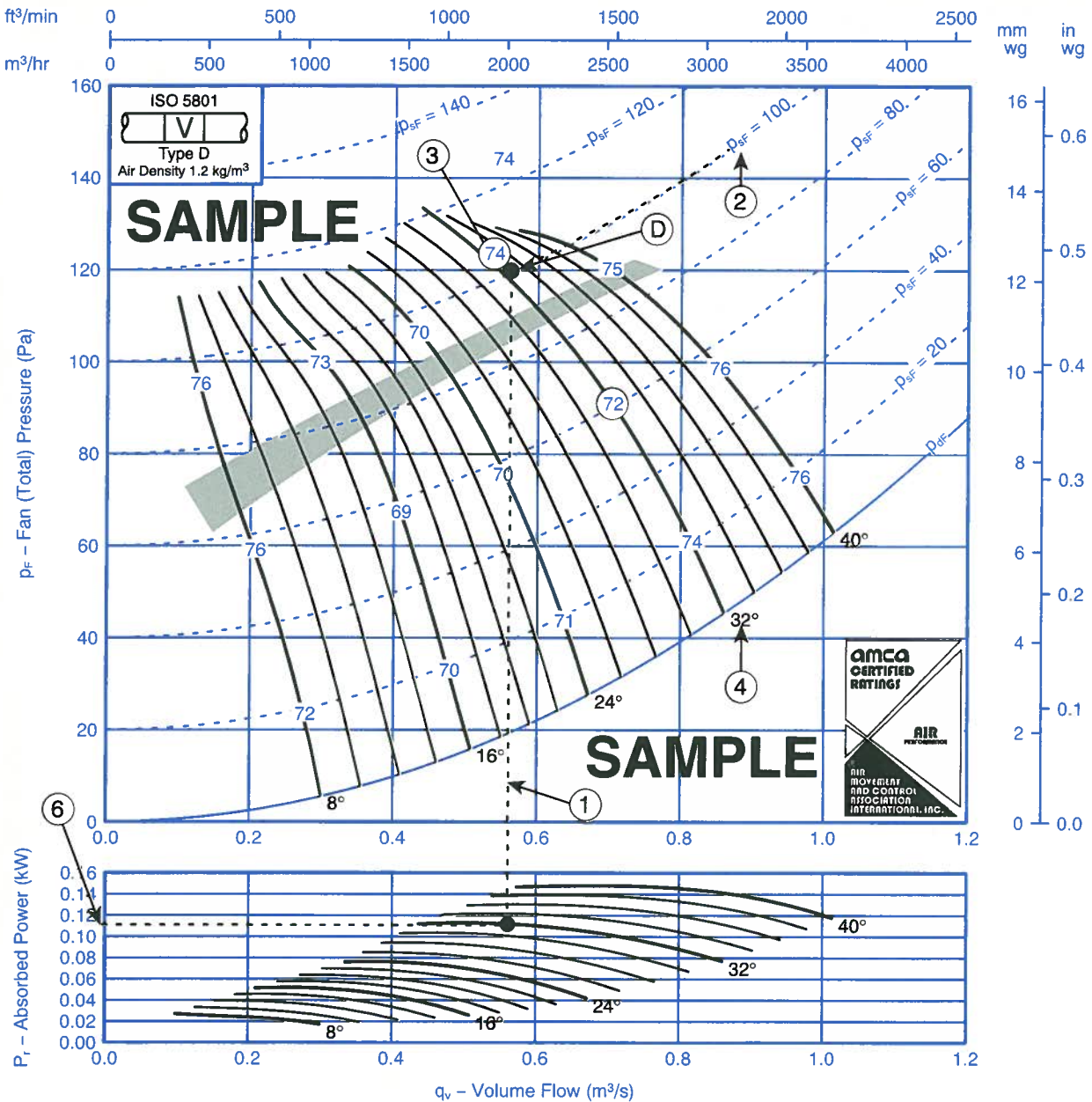
Motor Data:

Motor Rating (kW)	=	0.15
Full Load (A)	=	0.5
Starting Current (A)	=	2.0

Speed Regulatable Versions

If a speed regulatable version is required, (or Delta/Star (Δ/Λ) reconnect on 3 phase versions) the duty volume flow required should be multiplied by 1.05 prior to fan selection being made.

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only
Performance shown is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-7	-5	-5	-13	-20	-27	-35	8	-6	-5	-4	-5	-13	-20	-27	-35
	-14	-10	-7	-3	-10	-16	-22	-31		-12	-8	-7	-3	-9	-16	-20	-29
16	-12	-6	-6	-5	-13	-15	-21	-27	16	-10	-3	-6	-5	-12	-14	-21	-27
	-10	-6	-7	-6	-9	-12	-17	-24		-9	-3	-6	-6	-9	-12	-17	-24
24 - 40	-5	-6	-7	-8	-14	-18	-23	-28	24 - 40	-3	-5	-7	-7	-13	-17	-21	-26
	-7	-5	-8	-7	-12	-16	-21	-27		-5	-2	-7	-7	-12	-16	-20	-26

Motor Frame Size Schedules

220-240 V / 50 Hz / 1 ϕ

Code	Speed rev/min	Pitch Angle Range (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Capacitor μ f	Speed Regulation Details		
										Pitch Angle Range (°)	Speed Controller	
											Electronic	Auto- Transformer
31JM/16/6/5/...	900	16-40	BT5	0.04	0.5	0.7	44	0.91	2	22-40	ME1.1	MT1.1
		22-40	BT5	0.04	0.5	0.7	44	0.91	2			
31JM/16/4/5/...	1420	12-36	BT5	0.07	0.6	1.8	60	0.92	4	24-38	ME1.1	MT1.1
		24-38	BT5	0.07	0.6	1.8	60	0.92	4			
31JM/16/2/5/...	2840	8-14	BT5	0.2	1.5	4	63	0.95	10			
		18-20	BT5	0.3	2.1	5	64	0.95	15			
		26-32	BT9	0.5	3.3	9	68	0.98	20			
		36-40	CT5	0.75	4.9	8.5	71	0.93	20			
35JM/16/6/5/...	900	12-40	BT5	0.04	0.5	0.7	44	0.91	2	12-40	ME1.1	MT1.1
35JM/16/4/5/...	1420	8-22	BT5	0.07	0.6	1.8	60	0.92	4	16-24	ME1.1	MT1.1
		16-24	BT5	0.07	0.6	1.8	60	0.92	4			
		28-40	BT4	0.13	1	2	58	0.95	6			
35JM/16/2/5/...	2840	10-12	BT5	0.3	2.1	5	64	0.95	15			
		16-20	BT9	0.5	3.3	9	68	0.98	20			
		24-28	CT5	0.75	4.9	8.5	71	0.93	20			
		32-34	CT5	1	5.9	11.5	74	0.99	30			
		36-40	CT9	1.4	8.3	27	74	0.99	50			
40JM/16/6/5/...	900	8-28	BT5	0.04	0.5	0.7	44	0.91	2	8-28	ME1.1	MT1.1
		32-40	BT5	0.09	0.8	1.6	50	0.95	5			
40JM/16/4/5/...	1420	10-12	BT5	0.07	0.6	1.8	60	0.92	4	10-12	ME1.1	MT1.1
		18-24	BT4	0.13	1	2	58	0.95	6			
		26-28	BT5	0.16	1.2	2.7	62	0.95	5			
		30-36	BT5	0.23	1.6	2.7	64	0.95	8			
		34-40	BT9	0.25	1.7	3.8	66	0.97	10			
40JM/16/2/5/...	2840	10-10	BT9	0.5	3.3	9	68	0.98	20			
		14-16	CT5	0.75	4.9	8.5	71	0.93	20			
		20-22	CT5	1	5.9	11.5	74	0.99	30			
		24-28	CT9	1.4	8.3	27	74	0.99	50			
45JM/16/6/5/...	900	18-24	BT4	0.06	0.6	1	46	0.95	4	18-24	ME1.1	MT1.1
		22-34	BT5	0.09	0.8	1.6	50	0.95	5			
		36-40	BT9	0.12	1.1	2.2	54	0.92	8			
45JM/16/4/5/...	1420	10-14	BT4	0.13	1	2	58	0.95	6	10-14	ME1.1	MT1.1
		18-18	BT5	0.16	1.2	2.7	62	0.95	5			
		22-22	BT5	0.2	1.5	2.7	62	0.95	8			
		24-26	BT9	0.25	1.7	3.8	66	0.97	10			
		24-30	BT9	0.3	2.1	5.3	65	0.95	10			
		36-40	CT5	0.45	2.9	7	68	0.99	15			
45JM/16/2/5/...	2840	8-10	CT5	0.75	4.9	8.5	71	0.93	20			
		12-14	CT5	1	5.9	11.5	74	0.99	30			
		16-18	CT9	1.4	8.3	27	74	0.99	50			
45JM/20/6/3/...	900	8-24	BT5	0.04	0.5	0.7	44	0.91	2	8-24	ME1.1	MT1.1
		24-34	BT4	0.06	0.6	1	46	0.95	4			
		28-36	BT5	0.09	0.8	1.6	50	0.95	5			
45JM/20/4/3/...	1420	10-12	BT5	0.07	0.6	1.8	60	0.92	4	10-12	ME1.1	MT1.1
		16-22	BT4	0.13	1	2	58	0.95	6			
		24-26	BT5	0.16	1.2	2.7	62	0.95	5			
		30-30	BT5	0.2	1.5	2.7	62	0.95	8			
		32-36	BT9	0.25	1.7	3.8	66	0.97	10			
45JM/20/2/3/...	2910	10-10	BT9	0.5	3.3	9	68	0.98	20			
		14-16	CT5	0.75	4.9	8.5	71	0.93	20			
		18-20	CT5	1	5.9	11.5	74	0.99	30			
		22-24	CT9	1.4	8.3	27	74	0.99	50			

Although motors are rated 220/240 V electrical supply capacitors should be rated μ f x 450 V AC

Motor Frame Size Schedules

220-240 V / 50 Hz / 1 ϕ

Code	Speed rev/min	Pitch Angle Range (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Capacitor μ f	Speed Regulation Details		
										Pitch Angle Range (°)	Speed Controller	
											Electronic	Auto- Transformer
45JM/20/6/6/...	900	16-24	BT4	0.06	0.6	1	46	0.95	4	16-24	ME1.1	MT1.1
		22-32	BT5	0.09	0.8	1.6	50	0.95	5	22-32	ME1.1	MT1.1
		34-40	BT9	0.12	1.1	2.2	54	0.92	8	34-40	ME1.3	MT1.5
45JM/20/4/6/...	1420	10-12	BT4	0.13	1	2	58	0.95	6	10-12	ME1.1	MT1.1
		16-16	BT5	0.16	1.2	2.7	62	0.95	5	16-16	ME1.3	MT1.5
		22-28	BT9	0.3	2.1	5.3	65	0.95	10	22-28	ME1.3	MT1.5
		34-40	CT5	0.45	2.9	7	68	0.99	15	34-40	ME1.3	MT1.5
45JM/20/2/6/...	2910	12-12	CT5	1	5.9	11.5	74	0.99	30			
		14-16	CT9	1.4	8.3	27	74	0.99	50			
50JM/16/6/5/...	915	16-22	BT5	0.09	0.8	1.6	50	0.95	5	16-22	ME1.1	MT1.1
		24-28	BT9	0.12	1.1	2.2	54	0.92	8	24-28	ME1.3	MT1.5
		30-32	BT9	0.14	1.2	2.8	54	0.92	8	30-32	ME1.3	MT1.5
		36-40	CT5	0.19	1.8	3	48	0.96	8	36-40	ME1.3	MT1.5
50JM/16/4/5/...	1420	14-14	BT5	0.2	1.5	2.7	62	0.95	8	14-14	ME1.3	MT1.5
		16-20	BT9	0.3	2.1	5.3	65	0.95	10	16-20	ME1.3	MT1.5
		26-28	CT5	0.45	2.9	7	68	0.99	15	26-28	ME1.3	MT1.5
		32-34	CT5	0.55	3.7	9.5	65	0.99	25	32-34	ME1.6	MT1.5
		38-40	CT9	0.68	4.2	11	76	0.96	25	38-40	ME1.6	MT1.5
50JM/20/6/3/...	915	18-24	BT4	0.06	0.6	1	46	0.95	4	18-24	ME1.1	MT1.1
		22-32	BT5	0.09	0.8	1.6	50	0.95	5	22-32	ME1.1	MT1.1
		34-36	BT9	0.12	1.1	2.2	54	0.92	8	34-36	ME1.3	MT1.5
50JM/20/4/3/...	1420	12-14	BT4	0.13	1	2	58	0.95	6	12-14	ME1.1	MT1.1
		16-18	BT5	0.16	1.2	2.7	62	0.95	5	16-18	ME1.3	MT1.5
		24-30	BT9	0.3	2.1	5.3	65	0.95	10	24-30	ME1.3	MT1.5
		34-36	CT5	0.45	2.9	7	68	0.99	15	34-36	ME1.3	MT1.5
50JM/20/2/3/...	2910	12-12	CT5	1	5.9	11.5	74	0.99	30			
		14-16	CT9	1.4	8.3	27	74	0.99	50			
50JM/20/6/6/...	915	10-14	BT4	0.06	0.6	1	46	0.95	4	10-14	ME1.1	MT1.1
		14-22	BT5	0.09	0.8	1.6	50	0.95	5	14-22	ME1.1	MT1.1
		24-26	BT9	0.12	1.1	2.2	54	0.92	8	24-26	ME1.3	MT1.5
		28-30	BT9	0.14	1.2	2.8	54	0.92	8	28-30	ME1.3	MT1.5
		34-40	CT5	0.19	1.8	3	48	0.96	8	34-40	ME1.3	MT1.5
50JM/20/4/6/...	1420	14-16	BT9	0.25	1.7	3.8	66	0.97	10	14-16	ME1.3	MT1.5
		16-20	BT9	0.3	2.1	5.3	65	0.95	10	16-20	ME1.3	MT1.5
		24-26	CT5	0.45	2.9	7	68	0.99	15	24-26	ME1.3	MT1.5
		30-32	CT5	0.55	3.7	9.5	65	0.99	25	30-32	ME1.6	MT1.5
		36-38	CT9	0.68	4.2	11	76	0.96	25	36-38	ME1.6	MT1.5
		38-40	CT9	0.97	6.2	19	72	0.95	40	38-40	ME1.12	MT1.8
56JM/16/6/5/...	900	8-14	BT5	0.09	0.8	1.6	50	0.95	5	8-14	ME1.1	MT1.1
		20-22	BT9	0.14	1.2	2.8	54	0.92	8	20-22	ME1.3	MT1.5
		24-28	CT5	0.19	1.8	3	48	0.96	8	24-28	ME1.3	MT1.5
		32-34	CT5	0.24	2.1	4	51	0.98	12	32-34	ME1.3	MT1.5
		38-40	CT5	0.3	2.4	4	56	0.98	15	38-40	ME1.3	MT1.5
56JM/16/4/5/...	1420	10-12	BT9	0.3	2.1	5.3	65	0.95	10	10-12	ME1.3	MT1.5
		16-18	CT5	0.45	2.9	7	68	0.99	15	16-18	ME1.3	MT1.5
		22-22	CT5	0.55	3.7	9.5	65	0.99	25	22-22	ME1.6	MT1.5
		24-26	CT9	0.7	5	15	64	0.96	40	24-26	ME1.6	MT1.8
		28-32	CT9	0.97	6.2	19	72	0.95	40	28-32	ME1.12	MT1.8
		36-38	CT9	1.1	7.2	23	70	0.95	50	36-38	N/A	MT1.12
56JM/20/6/3/...	900	12-16	BT4	0.06	0.6	1	46	0.95	4	12-16	ME1.1	MT1.1
		16-22	BT5	0.09	0.8	1.6	50	0.95	5	16-22	ME1.1	MT1.1
		24-28	BT9	0.12	1.1	2.2	54	0.92	8	24-28	ME1.3	MT1.5
		30-30	BT9	0.14	1.2	2.8	54	0.92	8	30-30	ME1.3	MT1.5
		34-36	CT5	0.19	1.8	3	48	0.96	8	34-36	ME1.3	MT1.5

Although motors are rated 220/240 V electrical supply capacitors should be rated μ f x 450 V AC

Motor Frame Size Schedules

220-240 V / 50 Hz / 1 ϕ

Code	Speed rev/min	Pitch Angle Range (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Capacitor μ f	Speed Regulation Details		
										Pitch Angle Range (°)	Speed Controller	
											Electronic	Auto- Transformer
56JM/20/4/3/...	1420	14-14	BT5	0.2	1.5	2.7	62	0.95	8	14-14	ME1.3	MT1.5
		16-20	BT9	0.3	2.1	5.3	65	0.95	10	16-20	ME1.3	MT1.5
		26-28	CT5	0.45	2.9	7	68	0.99	15	26-28	ME1.3	MT1.5
		30-32	CT5	0.55	3.7	9.5	65	0.99	25	30-32	ME1.6	MT1.5
		34-36	CT9	0.68	4.2	11	76	0.96	25	34-36	ME1.6	MT1.5
56JM/20/2/3/...	2910	14-18	F2225	2.7	14	50	84	0.98	90			
56JM/20/6/6/...	900	8-12	BT5	0.09	0.8	1.6	50	0.95	5	8-12	ME1.1	MT1.1
		16-18	BT9	0.12	1.1	2.2	54	0.92	8	16-18	ME1.3	MT1.5
		20-20	BT9	0.14	1.2	2.8	54	0.92	8	20-20	ME1.3	MT1.5
		24-26	CT5	0.19	1.8	3	48	0.96	8	24-26	ME1.3	MT1.5
		30-32	CT5	0.24	2.1	4	51	0.98	12	30-32	ME1.3	MT1.5
56JM/20/4/6/...	1420	36-38	CT5	0.3	2.4	4	56	0.98	15	36-38	ME1.3	MT1.5
		10-10	BT9	0.3	2.1	5.3	65	0.95	10	10-10	ME1.3	MT1.5
		16-18	CT5	0.45	2.9	7	68	0.99	15	16-18	ME1.3	MT1.5
		20-20	CT5	0.55	3.7	9.5	65	0.99	25	20-20	ME1.6	MT1.5
		22-26	CT9	0.7	5	15	64	0.96	40	22-26	ME1.6	MT1.8
63JM/20/6/3/...	900	26-30	CT9	0.97	6.2	19	72	0.95	40	26-30	ME1.12	MT1.8
		34-36	CT9	1.1	7.2	23	70	0.95	50	34-36	N/A	MT1.12
		8-10	BT5	0.09	0.8	1.6	50	0.95	5	8-10	ME1.1	MT1.1
		12-14	BT9	0.12	1.1	2.2	54	0.92	8	12-14	ME1.3	MT1.5
		16-16	BT9	0.14	1.2	2.8	54	0.92	8	16-16	ME1.3	MT1.5
63JM/20/4/3/...	1420	20-22	CT5	0.19	1.8	3	48	0.96	8	20-22	ME1.3	MT1.5
		26-26	CT5	0.24	2.1	4	51	0.98	12	26-26	ME1.3	MT1.5
		30-32	CT5	0.3	2.4	4	56	0.98	15	30-32	ME1.3	MT1.5
		14-14	CT5	0.45	2.9	7	68	0.99	15	14-14	ME1.3	MT1.5
		20-20	CT9	0.68	4.2	11	76	0.96	25	20-20	ME1.6	MT1.5
63JM/20/6/6/...	900	20-22	CT9	0.7	5	15	64	0.96	40	20-22	ME1.6	MT1.8
		22-26	CT9	0.97	6.2	19	72	0.95	40	22-26	ME1.12	MT1.8
		28-30	CT9	1.1	7.2	23	70	0.95	50	28-30	N/A	MT1.12
		12-14	CT5	0.19	1.8	3	48	0.96	8	12-14	ME1.3	MT1.5
		18-18	CT5	0.24	2.1	4	51	0.98	12	18-18	ME1.3	MT1.5
63JM/20/4/6/...	1420	22-22	CT5	0.3	2.4	4	56	0.98	15	22-22	ME1.3	MT1.5
		28-30	CT9	0.43	3.3	7.5	59	0.96	15	28-30	ME1.6	MT1.5
		34-34	CT9	0.52	4	9.2	59	0.95	20	34-34	ME1.6	MT1.8
		12-12	CT9	0.7	5	15	64	0.96	40	12-12	ME1.6	MT1.8
		14-16	CT9	0.97	6.2	19	72	0.95	40	14-16	ME1.12	MT1.8
71JM/20/6/3/...	900	20-22	CT9	1.1	7.2	23	70	0.95	50	20-22	N/A	MT1.12
		12-12	CT5	0.19	1.8	3	48	0.96	8	12-12	ME1.3	MT1.5
		16-18	CT5	0.24	2.1	4	51	0.98	12	16-18	ME1.3	MT1.5
		20-22	CT5	0.3	2.4	4	56	0.98	15	20-22	ME1.3	MT1.5
		26-28	CT9	0.43	3.3	7.5	59	0.96	15	26-28	ME1.6	MT1.5
71JM/20/4/3/...	1440	32-32	CT9	0.52	4	9.2	59	0.95	20	32-32	ME1.6	MT1.8
		12-12	CT9	0.7	5	15	64	0.96	40	12-12	ME1.6	MT1.8
		14-16	CT9	0.97	6.2	19	72	0.95	40	14-16	ME1.12	MT1.8
		20-20	CT9	1.1	7.2	23	70	0.95	50	20-20	N/A	MT1.12
		12-12	CT5	0.3	2.4	4	56	0.98	15	12-12	ME1.3	MT1.5
71JM/20/6/6/...	900	18-18	CT9	0.43	3.3	7.5	59	0.96	15	18-18	ME1.6	MT1.5
		22-22	CT9	0.52	4	9.2	59	0.95	20	22-22	ME1.6	MT1.8
		14-14	CT5	0.3	2.4	4	56	0.98	15	14-14	ME1.3	MT1.5
80JM/20/6/3/...	935	18-20	CT9	0.43	3.3	7.5	59	0.96	15	18-20	ME1.6	MT1.5

Although motors are rated 220/240 V electrical supply capacitors should be rated μ f x 450 V AC

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
31JM/16/6/5/...	900	40	BT4	0.06	0.3	0.8	46	0.6	NR at this angle		
31JM/16/4/5/...	1420	40	BT4	0.13	0.5	1.8	58	0.7	34-40	ME3.2D	MT3.0.5
31JM/16/2/5/...	2840	24	BT5	0.35	0.9	3.6	66	0.85			
		36	BT9	0.58	1.4	6	71	0.85			
		40	CT5	0.95	2	9.5	75	0.9			
35JM/16/6/5/...	900	40	BT4	0.06	0.3	0.8	46	0.6	28-40	ME3.2D	MT3.0.5
35JM/16/4/5/...	1420	40	BT4	0.13	0.5	1.8	58	0.7	22-40	ME3.2D	MT3.0.5
35JM/16/2/5/...	2840	14	BT5	0.35	0.9	3.6	66	0.85			
		22	BT9	0.58	1.4	6	71	0.85			
		34	CT5	0.95	2	9.5	75	0.9			
		40	CT9	1.7	3.5	20	78	0.9			
40JM/16/6/5/...	900	38	BT4	0.06	0.3	0.8	46	0.6	18-38	ME3.2D	MT3.0.5
		40	BT5	0.09	0.5	1.2	50	0.58	36-40	ME3.2D	MT3.0.5
40JM/16/4/5/...	1420	24	BT4	0.13	0.5	1.8	58	0.7	14-24	ME3.2D	MT3.0.5
		34	BT5	0.2	0.7	2.4	62	0.7	26-34	ME3.2D	MT3.1
		40	BT9	0.3	0.9	4.6	65	0.75	36-40	ME3.2D	MT3.1
40JM/16/2/5/...	2840	12	BT9	0.58	1.4	6	71	0.85			
		20	CT5	0.95	2	9.5	75	0.9			
		32	CT9	1.7	3.5	20	78	0.9			
45JM/16/6/5/...	900	24	BT4	0.06	0.3	0.8	46	0.6	10-24	ME3.2D	MT3.0.5
		28	BT4	0.08	0.4	1	50	0.6	26-34	ME3.2D	MT3.0.5
		34	BT5	0.09	0.5	1.2	50	0.58			
		38	BT5	0.12	0.5	1.2	54	0.7			
		40	BT9	0.14	0.6	1.8	54	0.66	36-40	ME3.2D	MT3.1
45JM/16/4/5/...	1420	14	BT4	0.13	0.5	1.8	58	0.7	8-14	ME3.2D	MT3.0.5
		22	BT5	0.2	0.7	2.4	62	0.7	16-22	ME3.2D	MT3.1
		30	BT9	0.3	0.9	4.6	65	0.75	24-30	ME3.2D	MT3.1
		36	BT9	0.39	1.1	4.6	67	0.75	40-40	ME3.2D	MT3.2
		40	CT5	0.58	1.7	6.5	67	0.74			
45JM/16/2/5/...	2840	12	CT5	0.95	2	9.5	75	0.9			
		20	CT9	1.7	3.5	20	78	0.9			
45JM/20/6/3/...	900	34	BT4	0.06	0.3	0.8	46	0.6	16-34	ME3.2D	MT3.0.5
		36	BT5	0.09	0.5	1.2	50	0.58	32-36	ME3.2D	MT3.0.5
45JM/20/4/3/...	1420	22	BT4	0.13	0.5	1.8	58	0.7	12-22	ME3.2D	MT3.0.5
		30	BT5	0.2	0.7	2.4	62	0.7	22-30	ME3.2D	MT3.1
		36	BT9	0.3	0.9	4.6	65	0.75	32-36	ME3.2D	MT3.1
45JM/20/2/3/...	2910	12	BT9	0.58	1.4	6	71	0.85			
		18	CT5	0.95	2	9.5	75	0.9			
		28	CT9	1.7	3.5	20	78	0.9			
		36	F2225	3.8	7.1	44	84	0.92			
45JM/20/6/6/...	900	24	BT4	0.06	0.3	0.8	46	0.6	10-24	ME3.2D	MT3.0.5
		32	BT5	0.09	0.5	1.2	50	0.58	26-32	ME3.2D	MT3.0.5
		36	BT5	0.12	0.5	1.2	54	0.7	34-40	ME3.2D	MT3.1
		40	BT9	0.14	0.6	1.8	54	0.66			

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
45JM/20/4/6/...	1420	12	BT4	0.13	0.5	1.8	58	0.7	8-12	ME3.2D	MT3.0.5
		20	BT5	0.2	0.7	2.4	62	0.7	14-20	ME3.2D	MT3.1
		28	BT9	0.3	0.9	4.6	65	0.75	22-28	ME3.2D	MT3.1
		34	BT9	0.39	1.1	4.6	67	0.75			
		40	CT5	0.58	1.7	6.5	67	0.74	38-40	ME3.2D	MT3.2
45JM/20/2/6/...	2910	12	CT5	0.95	2	9.5	75	0.9			
		20	CT9	1.7	3.5	20	78	0.9			
		34	F2225	3.8	7.1	44	84	0.92			
		40	F2229	6.2	11	90	86	0.92			
50JM/16/6/5/...	915	16	BT4	0.06	0.3	0.8	46	0.6	8-16	ME3.2D	MT3.0.5
		22	BT5	0.09	0.5	1.2	50	0.58	18-22	ME3.2D	MT3.0.5
		26	BT5	0.12	0.5	1.2	54	0.7			
		32	BT9	0.14	0.6	1.8	54	0.66	24-32	ME3.2D	MT3.1
		36	BT9	0.19	0.7	1.8	59	0.66			
		40	CT5	0.22	0.8	2.5	55	0.7	36-40	ME3.2D	MT3.1
50JM/16/4/5/...	1420	14	BT5	0.2	0.7	2.4	62	0.7	10-14	ME3.2D	MT3.1
		20	BT9	0.3	0.9	4.6	65	0.75	16-20	ME3.2D	MT3.1
		24	BT9	0.39	1.1	4.6	67	0.75			
		34	CT5	0.58	1.7	6.5	67	0.74	28-34	ME3.2D	MT3.2
		38	CT5	0.71	1.9	6.5	71	0.75			
		40	CT9	0.9	2.3	9	72	0.78	36-40	ME3.2D	MT3.2
50JM/20/6/3/...	915	24	BT4	0.06	0.3	0.8	46	0.6	10-24	ME3.2D	MT3.0.5
		32	BT5	0.09	0.5	1.2	50	0.58	26-32	ME3.2D	MT3.0.5
		36	BT9	0.14	0.6	1.8	54	0.66	34-36	ME3.2D	MT3.1
50JM/20/4/3/...	1420	14	BT4	0.13	0.5	1.8	58	0.7	8-14	ME3.2D	MT3.0.5
		22	BT5	0.2	0.7	2.4	62	0.7	16-22	ME3.2D	MT3.1
		30	BT9	0.3	0.9	4.6	65	0.75	24-30	ME3.2D	MT3.1
		36	CT5	0.58	1.7	6.5	67	0.74	36-36	ME3.2D	MT3.2
50JM/20/2/3/...	2910	12	CT5	0.95	2	9.5	75	0.9			
		20	CT9	1.7	3.5	20	78	0.9			
		34	F2225	3.8	7.1	44	84	0.92			
		36	F2229	6.2	11	90	86	0.92			
50JM/20/6/6/...	915	14	BT4	0.06	0.3	0.8	46	0.6	8-14	ME3.2D	MT3.0.5
		22	BT5	0.09	0.5	1.2	50	0.58	18-22	ME3.2D	MT3.0.5
		30	BT9	0.14	0.6	1.8	54	0.66	24-30	ME3.2D	MT3.1
		34	BT9	0.19	0.7	1.8	59	0.66			
		40	CT5	0.22	0.8	2.5	55	0.7	34-40	ME3.2D	MT3.1
50JM/20/4/6/...	1420	12	BT5	0.2	0.7	2.4	62	0.7	10-12	ME3.2D	MT3.1
		20	BT9	0.3	0.9	4.6	65	0.75	16-20	ME3.2D	MT3.1
		24	BT9	0.39	1.1	4.6	67	0.75			
		32	CT5	0.58	1.7	6.5	67	0.74	26-32	ME3.2D	MT3.2
		36	CT5	0.71	1.9	6.5	71	0.75			
		40	CT9	0.9	2.3	9	72	0.78	34-40	ME3.2D	MT3.2
50JM/20/2/6/...	2910	12	CT9	1.7	3.5	20	78	0.9			
		24	F2225	3.8	7.1	44	84	0.92			
		34	F2229	6.2	11	90	86	0.92			
56JM/16/8/5/...	680	24	BT5	0.065	0.5	0.8	34	0.57	20-24	ME3.5S	MT3.0.5
		32	BT9	0.09	0.5	0.9	42	0.57	26-32	ME3.2D	MT3.1
		40	CT5	0.13	0.7	1.5	47	0.6	34-40	ME3.2D	MT3.1

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
56JM/16/6/5/...	900	10	BT4	0.08	0.4	1	50	0.6	10-14 16-22 24-32 34-40	ME3.2D	MT3.0.5 MT3.1 MT3.1 MT3.2
		14	BT5	0.09	0.5	1.2	50	0.58			
		22	BT9	0.14	0.6	1.8	54	0.66			
		32	CT5	0.22	0.8	2.5	55	0.7			
		40	CT5	0.3	1.1	3.3	56	0.7			
56JM/16/4/5/...	1420	12	BT9	0.3	0.9	4.6	65	0.75	10-12 18-24	ME3.2D	MT3.1 MT3.2
		24	CT5	0.58	1.7	6.5	67	0.74			
		26	CT5	0.71	1.9	6.5	71	0.75	26-32 34-40	ME3.2D	MT3.2 MT3.2 N/A
		32	CT9	0.9	2.3	9	72	0.78			
		40	CT9	1.15	3	14	71	0.78			
56JM/20/6/3/...	900	16	BT4	0.06	0.3	0.8	46	0.6	8-16 18-22 24-30	ME3.2D	MT3.0.5 MT3.0.5 MT3.1
		22	BT5	0.09	0.5	1.2	50	0.58			
		30	BT9	0.14	0.6	1.8	54	0.66			
		34	BT9	0.19	0.7	1.8	59	0.66	34-36	ME3.2D	MT3.1
		36	CT5	0.22	0.8	2.5	55	0.7			
56JM/20/4/3/...	1420	14	BT5	0.2	0.7	2.4	62	0.7	10-14 16-20	ME3.2D	MT3.1 MT3.1
		20	BT9	0.3	0.9	4.6	65	0.75			
		24	BT9	0.39	1.1	4.6	67	0.75	28-32 34-36	ME3.2D	MT3.2 MT3.2 MT3.2
		32	CT5	0.58	1.7	6.5	67	0.74			
		34	CT5	0.71	1.9	6.5	71	0.75			
		36	CT9	0.9	2.3	9	72	0.78			
56JM/20/2/3/...	2910	12	CT9	1.7	3.5	20	78	0.9			
		24	F2225	3.8	7.1	44	84	0.92			
		34	F2229	6.2	11	90	86	0.92			
56JM/20/6/6/...	900	12	BT5	0.09	0.5	1.2	50	0.58	10-12 16-20	ME3.2D	MT3.0.5 MT3.1
		20	BT9	0.14	0.6	1.8	54	0.66			
		24	BT9	0.19	0.7	1.8	59	0.66	24-30 32-38 40-40	ME3.2D	MT3.1 MT3.2 MT3.2 MT3.2
		30	CT5	0.22	0.8	2.5	55	0.7			
		38	CT5	0.3	1.1	3.3	56	0.7			
		40	CT9	0.4	1.5	5.3	66	0.6			
56JM/20/4/6/...	1420	10	BT9	0.3	0.9	4.6	65	0.75	10-10 18-22	ME3.2D	MT3.1 MT3.2
		14	BT9	0.39	1.1	4.6	67	0.75			
		22	CT5	0.58	1.7	6.5	67	0.74	24-30 32-36	ME3.2D	MT3.2 MT3.2 N/A
		24	CT5	0.71	1.9	6.5	71	0.75			
		30	CT9	0.9	2.3	9	72	0.78			
		36	CT9	1.15	3	14	71	0.78			
		40	CT9	1.4	3.5	14	74	0.77			
56JM/20/2/6/...	2910	14	F2225	3.8	7.1	44	84	0.92			
		24	F2229	6.2	11	90	86	0.92			
63JM/20/8/3/...	680	18	BT5	0.065	0.5	0.8	34	0.57	16-18	ME3.5S	MT3.0.5
		24	BT9	0.09	0.5	0.9	42	0.57	20-24	ME3.2D	MT3.1
		32	CT5	0.13	0.7	1.5	47	0.6	26-32	ME3.2D	MT3.1
		36	CT9	0.18	0.7	1.7	56	0.66	34-36	ME3.2D	MT3.1
63JM/20/6/3/...	900	10	BT5	0.09	0.5	1.2	50	0.58	8-10	ME3.2D	MT3.0.5
		16	BT9	0.14	0.6	1.8	54	0.66	12-16	ME3.2D	MT3.1
		20	BT9	0.19	0.7	1.8	59	0.66	20-26 28-32 34-36	ME3.2D	MT3.1 MT3.2 MT3.2 MT3.2
		26	CT5	0.22	0.8	2.5	55	0.7			
		32	CT5	0.3	1.1	3.3	56	0.7			
		36	CT9	0.4	1.5	5.3	66	0.6			

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JM AEROFOIL - INTRODUCTION

Air movement technology is a world of specialised knowledge and one in which Woods Air Movement Limited are not just the specialists but the acknowledged leaders. Woods extensive knowledge of designs and applications extends back over 90 years of experience as one of the world's largest manufacturers of fans and air moving equipment.

Based in Colchester, in the U.K., Woods have extensive laboratories that constantly develop new concepts and product ranges, enabling the company to maintain its market leadership. In addition Woods have three sales centres in the U.K. together with subsidiary companies in Italy, Germany, Finland, France, Singapore and the U.S.A. plus, a network of fully trained local staff in 70 different countries with intimate knowledge of local needs.

In fact Woods products are marketed and installed in over 100 countries, with applications ranging from the world's largest engineering projects to the smallest poultry houses.

Whatever the product size or cost it is Woods policy to provide the highest quality at competitive prices, all backed by dedicated staff, fully trained to provide customer satisfaction.

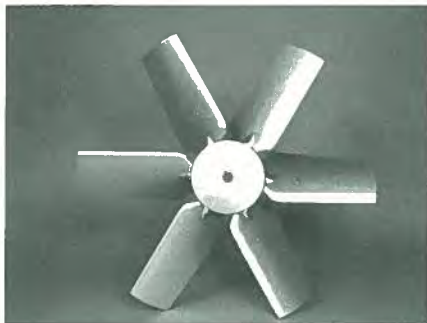
Woods Air Movement Limited is a BS EN ISO 9001:94 Registered Company.

In line with the Company's strict adherence to the highest quality assurance standards, regular quality audits occur ensuring that the Woods JM Aerofoil consistently meet the catalogue specifications, now independently endorsed by the Air Movement and Control Association International (AMCA).



All Aluminium Precision Die-Cast Impeller

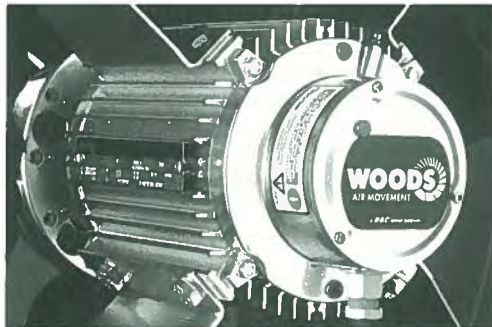
A unique high efficiency aerofoil section blade within a purposely smoothed hub and clamp-plate for adjustable pitch angle flexibility. The Woods impellers are all precision die-cast to offer thin aerofoil sections for low generation of noise levels. Every cast aluminium component is X-rayed using Real Time Radiography inspection prior to assembly. This feature can provide evidence of casting quality against product liability legislation if specified.



"T" Slot /Pad Mounted Fan Motors

All Woods JM range of fans incorporate an electrical power drive specifically designed to optimise fan performance, and minimise the obstruction to airflow.

Totally enclosed, pad mounted design to designation IP55, Class F insulation as standard. Directly coupled to the fan impeller to minimise drive losses. Overheat protection is included on single phase machines and available on others.



Testing

Performance data has been obtained in accordance with the internationally recognised standard - ISO5801:1997 installation category D (AMCA approved) for aerodynamic performance and BS 848 Part 2 (1985) for acoustic performance.



Fixings

All fixings are protected with an organically based zinc coating to provide excellent corrosion resistance.



Arms

Mounting arms are specially designed to offer minimal resistance to airflow. These arms are carefully spaced away from the impeller to minimise noise generation.

The arms also improve the cooling of the motor, hence increasing motor performance and life. All arms are hot dipped galvanised after manufacture for maximum resistance to corrosion.



Casings

Available in either a long cased form complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled flanges, fully welded seams and hot-dipped galvanised after manufacture for excellent durability.



SPECIFICATION

Motors

Constructed from aluminium up to frame size D160, cast iron above as standard with special "T" slot or pad mounted fixings.

Suitable for horizontal through to vertical shaft operation.

Supplied IP55, with removable drain plugs.

Bearings lubricated with wide temperature range grease, sealed for life.

Continuous operating range -40° C to +50° C, minimum starting temperature -20°C (for other operating temperatures please enquire).

Insulation class F as standard.

2 speed operation by Delta/Star (Δ/λ) reconnection available on most three phase motor up to frame size F22.

Integral pre-wired capacitor on most single phase fans.

Ratings comply with BS5000 Part 99 and IEC 34-1.

Two speed motors available

Pole Change (PC) or Dahlander

Two speeds can be obtained by reconnecting a single winding via six winding terminals to give two separate pole numbers.

Dual Wound

This type of motor has two separate individual windings of the requisite poles to give the speeds required.

Electrical Supply

220-240 V 50 Hz single phase (1 ϕ)

380-420 V 50 Hz three phase (3 ϕ)

(60 Hz variants and other voltages are available on request).

Speed control can be provided by Woods Air Movement's range of electronic and auto-transformer type speed controllers. Speed control details are based on the adoption of the more usual and technically superior three-wire circuit. Refer to Colchester if two wire control is required. The single phase controller rating may be less than the full load current, as only the "U" phase voltage is varied.

Many of the regulatable, three phase motors may be offered for 2 speed applications by Delta/Star (Δ/λ) reconnection.

Impellers

JM Aerofoil impellers have a unique aerodynamic section blade to optimise the efficiency of

performance and minimise the generation of noise. The thin sections obtained by precision die cast manufacturing techniques help promote these particular features whilst also allowing a lighter weight assembly to be produced.

Precision die cast aluminium hub and clamp-plate, with equally spaced, fully adjustable, high pressure die cast aerofoil section blades.

All rotating aluminium components are X-ray examined prior to machining to assure quality. Balanced to BS6861 Part 1 1987 (ISO 1940-1986) Grade G6.3. Corrosion resistant and suitable for continuous outside use from -40°C to +50°C, (for other operating temperatures please enquire).

Non-overloading

JM Aerofoil fans have a non-overloading characteristic; the peak power input occurs within the range of normal operating pressures and is always exceeded by the motor rating.

Ancillaries

Motor and Impeller side guards to comply with BS848 Pt 5., and draft ISO standard.

Choice of auto-transformer or electronic speed controllers.

2 speed switch for Delta/Star (Δ/λ) reconnection, Silencers.

Mounting Feet for both horizontal or vertical operation.

Matching Flanges, Flexible Connectors.

Air Operated Dampers for horizontal or vertical up operation. Bellmouth inlets. Vibration Isolators. Control gear complete with BMS contacts available on request.

Finish

Fan casings, motor mounting arms, mounting feet, matching flanges and guards are all hot dipped galvanised after manufacture, (in accordance with BS EN ISO 1461:1999).

Motors, aluminium self finish, or painted to motor manufacturers specification.

SPECIFICATION

Reversal of Airflow

Woods Air Movement has developed the JM Aerofoil to give the optimum aerodynamic and acoustic performance. To optimise the performance Woods Air Movement used the latest design software to establish the blade shape and in particular the aerodynamic blade sections. The results of laboratory testing demonstrated world class aerodynamic and acoustic performance that is AMCA approved.

As part of our commitment to fan engineering and total quality Woods Air Movement have established the operational limits of the impellers in all circumstances. Under laboratory conditions Woods Air Movement have tested JM impellers when run forwards, and in reverse. By measuring the stresses on the impellers under these conditions, and relating these stresses to the properties of the alloys used for impeller construction, it is possible to determine the maximum speed of the impeller for reliable life long operation.

A further factor that must be considered in assessing the life of the impeller is the quality of the casting. Extensive testing of the alloys we use has established relationships between life, operational stresses, and casting quality. Therefore to further ensure reliable operation of our impellers all alloy impeller castings are assessed using x-ray against rigorous acceptance criteria.

Since the stresses experienced in the reverse mode are generally higher than those in forward operation some impeller configurations are not suitable for applications that require continuous or regular reverse operation. Where this is the case we have highlighted the fact on each relevant performance chart within this catalogue. If these fans are required to be operated in reverse in other than cases of emergency, then each instance should be referred to Colchester for qualification or re-selection of impeller type.

All other impeller configurations can be safely operated in reverse. Reversal is obtained by interchanging electrical connections.

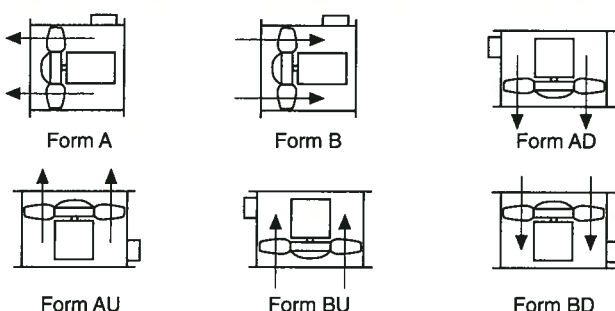
Forms of Running

The direction of airflow through the fan and the fan mounting position are defined as the "Form of running".

On each chart is shown the standard Form(s) of running for that particular fan, when mounted horizontally. For vertical operation add suffix "U" for airflow up, or suffix "D" for airflow down.

The standard Form of running offered will be Form B. When an alternative is available: see chart information, please request when the fan is ordered. Form of running is especially relevant when weatherproofed motors are required.

Arrows indicating correct rotation and direction of airflow are incorporated in the duct nameplate.



Test Methods

Testing

The air and sound performance data has been measured by the latest version of British and International Standards:-

ISO 5801:1997 method for testing air performance (dual numbered BS848 Pt1 1997). BS848 Pt 2 1985, method of noise testing.

It is essential, when comparing fan performances, that the same installation category and test standards are used at all times.

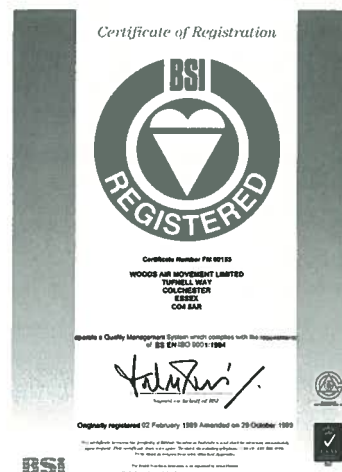
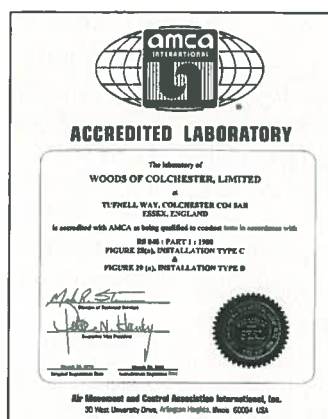
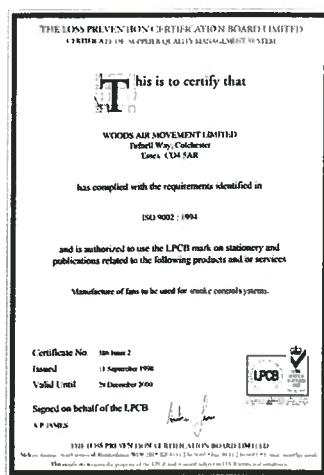
Acoustic Data

The sound levels quoted are based on tests carried out under the Woods certified laboratory conditions. Using the spectrum corrections stated on each performance chart, an unweighted sound power spectrum can be obtained for the fan.

Motor Ratings

The motor ratings, starting, full load currents and speeds refer to the maximum output of the motor. When the impeller does not require the full output, the power and current will be less than the maximum quoted.

QUALITY SYSTEMS



Woods Air Movement Limited certifies that the JM Aerofoil shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Quality Systems

Woods Air Movement Limited is committed to Quality Assurance. Registration to BS EN ISO 9001.94, means that Woods design is quality assured as well as the manufacture.

Our commitment to Quality Assurance doesn't stop with the hardware. The performance data comes from standard tests carried out in Woods own laboratory which is British Standard and AMCA accredited. Those fans which are AMCA licensed for aerodynamic performance are identified by the AMCA Seal on the appropriate characteristic curve(s).

A JM Aerofoil can be bought with the confidence as with all Woods products, that it will achieve the published performance data and match the assured quality. All the Woods JM Aerofoils are fitted with IP55 motors as standard, and come with a 2 year ex works warranty.

All fans as detailed in this publication can be supplied for a one off emergency operation at temperatures up to 200°C for 2 hours (H.T. Category 200/2). This facility is independently certified by the Loss Prevention Certification Board (LPCB), Certificate number 386a Issue 2. Certain fans can be supplied for a one off emergency operation at temperatures up to 400°C for 2 hours (H.T. Category 400/2 LPCB approved) Please refer to Publication JM/HT for details.

HOW TO SPECIFY

Specifying The Fan

Having chosen the fan most suitable for your individual application.

Please specify as follows:-

1. The fan shall be manufactured by Woods Air Movement Limited model type JM Aerofoil , long or short cased (L or S-type).
2. Motors, squirrel cage type, insulated to class F, bearings lubricated with wide temperature grease, keyed shaft. To comply with BS5000 Pt 99 and IEC 34-1. Weatherproof to IP55. (Overheat protection provided on most single phase motors).
3. Impellers, precision die cast aluminium hub and clamp-plate, with equally spaced, fully adjustable precision die cast Aerofoil section blades. All rotating aluminium components to be X-ray examined prior to machining to assure quality of castings.
4. Casings, either a long cased form complete with an externally mounted pre-wired electrical terminal box, or short cased for duct or plate installation. Casings are spun from sheet steel with integral pre-drilled flanges, fully welded seams and hot-dipped galvanised after manufacture for excellent durability.
5. Mounting Arms, manufactured from mild steel hot dipped galvanised after manufacture.
6. Performance shall be independantly approved by AMCA, and established in accordance with ISO5801:1997 installation category D, method of testing air performance and BS848 Pt 2 1985 method of noise testing.
7. Ancillaries as required.

Ordering The Fan

After identifying the best fan for your application please order as follows:-

1. Fan type: JM Aerofoil Long cased (L-type), or Short Cased (S-type) Form A or Form B.
2. Fan Code:
eg: 63JM/20/8/6/24
where: 63 denotes the Fan impeller diameter in centimetres.
JM denotes Fan Type.
/20 denotes impeller hub diameter in centimetres.
/8 denotes a nominal 8 pole speed.
/6 denotes the number of blades.
/24 denotes the Pitch Angle for the required duty.
3. Quantity required.
4. Duty required at standard air and temperature e.g. 1.60 m³/s @ 50 Pa.
5. Motor. eg: CT5
6. Electrical Supply:
220-240 V / 50 Hz / 1φ
380-420 V / 50 Hz / 3φ
7. Ancillary items required.

Mounting Feet.
Impeller and Motor Side Guards.
Silencers with or without pod.
Speed Controller (electronic or auto-transformer) or 2 speed switch type MDS3.10.
Air Operated Dampers.
Matching Flanges
Bellmouth Inlets.
Flexible Connectors.
Vibration Isolators.

GUIDE TO FAN SELECTION

SELECTION EXAMPLE - TOTAL PRESSURE

There are two principle methods of expressing the pressure requirements, namely, P_F (Total) and P_{SF} (Static) pressure. The two types of pressure are related:

$$P_F = P_{SF} + P_{dF}$$

P_F = Fan Total pressure
 P_{SF} = Fan Static pressure
 P_{dF} = Fan Dynamic pressure

The international convention considers fan performance in terms of total pressure, but there is also established practice relating to the use of static pressure. For this reason Woods' selection charts are laid out on a total pressure major scale and include a secondary grid for static pressure. The facility to display fan performance in terms of static pressure is necessary in order to avoid total pressure fan selections being made based on static pressure system requirements.

The guide selections are made for either total or static pressures of 100Pa. The resulting selections are quite different and highlight the consequences of selecting static pressure from charts that only display performance in terms of total pressure.

Procedure - Total Pressure (P_F)

1. Guide to Chart Numbers of Possible Selections

The charts are arranged in order of fan diameter, starting at 315 mm, up to 1600 mm diameter, and in order of fan speed for each diameter, 3,5,6,9 & 12 bladed fan impellers as available.

NOTE: The chart numbers lead to a variety of fan sizes, impeller configurations and speeds. The fan selected from the alternatives available will depend on the most critical factor for the particular application - Volume Flow and Pressure required, Size, Power Consumption, Sound Level or First Cost.

2. Required Duty

Establish the volume flow and total pressure required of an individual fan at Standard Air (1.2 kg/m³).

3. Selection on Individual Fan Charts

The data provided on each performance chart is specifically for ducted - Type D (ducted) installations for both long or short cased (S-type) fans. Providing reasonable Type D conditions are maintained in installation of the fans, no additional factors to volume flow or pressure need be incorporated for a suitable selection to be made.

Plot the duty on the selected fan charts to establish blade angle, sound level, absorbed power, motor size and rating, for the particular arrangement.

(D) Duty Point Required - @ Standard Air (1.2 kg/m³). 0.55 m³/s @ 100 Pa **total** pressure.

① Volume Flow = 0.55 m³/s

② Fan Total Pressure = 100 Pa

③ Overall inlet Sound Power Level = 72 L_W (Interpolated from surrounding levels).

④ Pitch Angle required to achieve Duty Point = 28°

⑤ Corrections to overall Sound Power level for 28° Pitch Angle.
(Operating Point is **Below** shaded area):-

Sound Power Level	Frequency Hz								
	63	125	250	500	1K	2K	4K	8K	
	Inlet	65	67	64	65	60	54	51	45 L _W
	Outlet	67	70	65	65	60	54	52	46 L _W

⑥ Absorbed Power @ Duty Point @ 28° Pitch Angle = 0.09 kW.

Suitable Motor for fixed speed application, 3 phase supply, from motor schedules = BT4

Motor Data:

Motor Rating (kW) = 0.15

Full Load (A) = 0.5

Starting Current (A) = 2.0

Speed Regulatable Versions

If a speed regulatable version is required, (or Delta/Star (Δ/Λ) reconnect on 3 phase versions) the duty volume flow required should be multiplied by 1.05 prior to fan selection being made.



BS 5750 Pt 1
EN 29001
ISO 9001

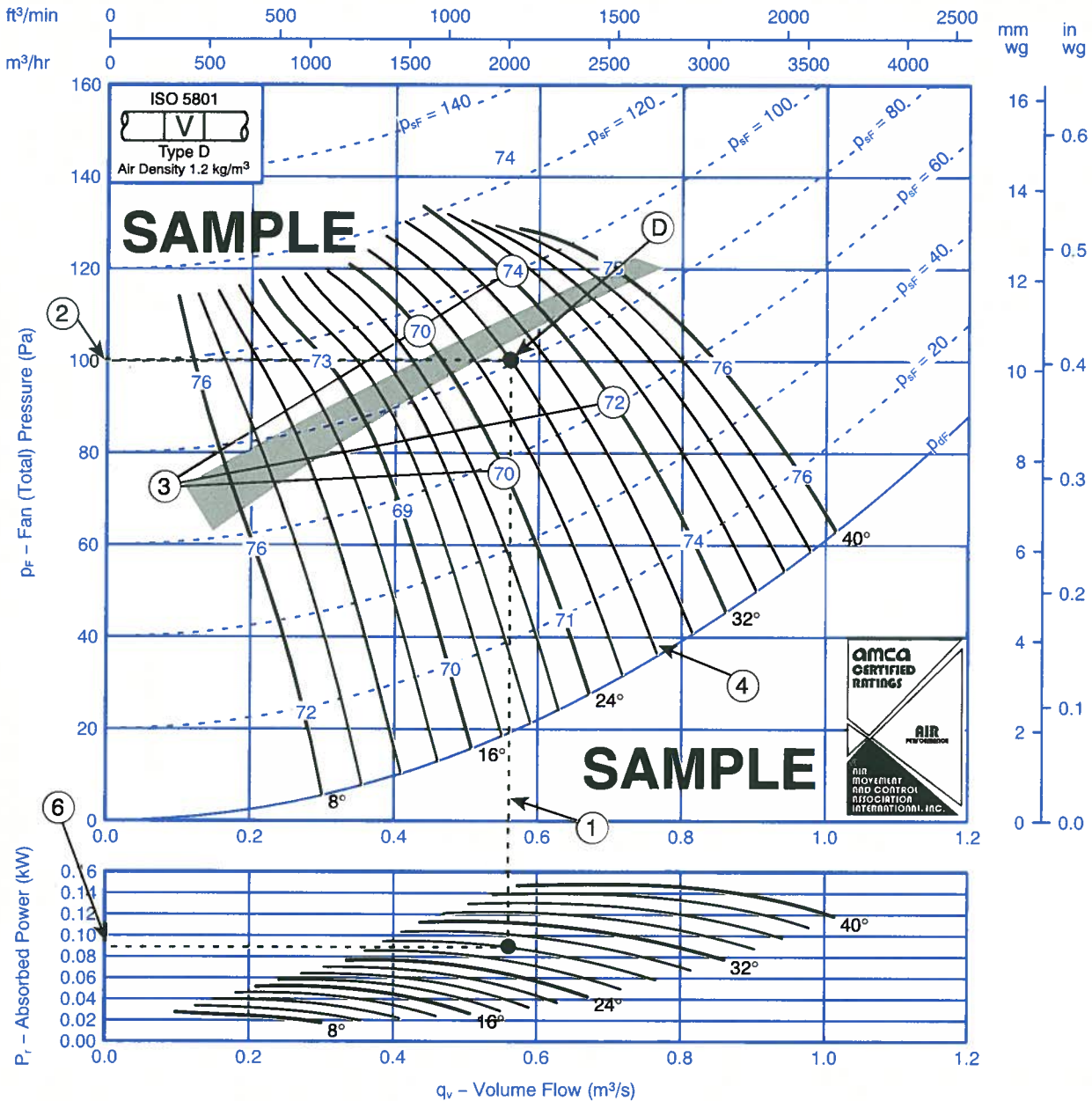
Fan Code: 35JM/16/4/5/...

355 mm 1420 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performances shown is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-7	-5	-5	-13	-20	-27	-35	8	-6	-5	-4	-5	-13	-20	-27	-35
	-14	-10	-7	-3	-10	-16	-22	-31		-12	-8	-7	-3	-9	-16	-20	-29
16	-12	-6	-6	-5	-13	-15	-21	-27	16	-10	-3	-6	-5	-12	-14	-21	-27
	-10	-6	-7	-6	-9	-12	-17	-24		-9	-3	-6	-6	-9	-12	-17	-24
24 - 40	-5	-6	-7	-8	-14	-18	-23	-28	24 - 40	-3	-5	-7	-7	-13	-17	-21	-26
	-7	-5	-8	-7	-12	-16	-21	-27		-5	-2	-7	-7	-12	-16	-20	-26

SELECTION EXAMPLE - STATIC PRESSURE

There are two principle methods of expressing the pressure requirements, namely, P_F (Total) and P_{SF} (Static) pressure. The two types of pressure are related:

$$P_F = P_{SF} + P_{dF}$$

P_F = Fan Total pressure
 P_{SF} = Fan Static pressure
 P_{dF} = Fan Dynamic pressure

The international convention considers fan performance in terms of total pressure, but there is also established practice relating to the use of static pressure. For this reason Woods' selection charts are laid out on a total pressure major scale and include a secondary grid for static pressure. The facility to display fan performance in terms of static pressure is necessary in order to avoid total pressure fan selections being made based on static pressure system requirements.

The guide selections are made for either total or static pressures of 100Pa. The resulting selections are quite different and highlight the consequences of selecting static pressure from charts that only display performance in terms of total pressure.

Procedure - Static Pressure (P_{SF})

1. Guide to Chart Numbers of Possible Selections

The charts are arranged in order of fan diameter, starting at 315 mm, up to 1600 mm diameter, and in order of fan speed for each diameter, 3,5,6,9 & 12 bladed fan impellers as available.

NOTE: The chart numbers lead to a variety of fan sizes, impeller configurations and speeds. The fan selected from the alternatives available will depend on the most critical factor for the particular application - Volume Flow and Pressure required, Size, Power Consumption, Sound Level or First Cost.

2. Required Duty

Establish the volume flow and static pressure required of an individual fan at Standard Air (1.2 kg/m³).

3. Selection on Individual Fan Charts

The data provided on each performance chart is specifically for ducted - Type D (ducted) installations for both long or short cased (S-type) fans. Providing reasonable Type D conditions are maintained in installation of the fans, no additional factors to volume flow or pressure need be incorporated for a suitable selection to be made.

Plot the duty on the selected fan charts to establish blade angle, sound level, absorbed power, motor size and rating, for the particular arrangement.

D. Duty Point Required - @ Standard Air (1.2 kg/m³). 0.55 m³/s @ 100 Pa **static** pressure.

1. Volume Flow = 0.55 m³/s

2. Fan Static Pressure = 100 Pa

3. Overall inlet Sound Power Level = 74 L_W

4. Pitch Angle required to achieve Duty Point = 32°

5. Corrections to overall Sound Power level for 32° Pitch Angle.

(Operating Point is **above** shaded area):-

Sound Power Level	Frequency Hz							
	63	125	250	500	1K	2K	4K	8K
Inlet	69	68	67	66	60	56	51	46 L _W
Outlet	71	69	67	67	61	57	53	48 L _W

6. Absorbed Power @ Duty Point @ 32° Pitch Angle = 0.11 kW.

Suitable Motor for fixed speed application, 3 phase supply, from motor schedules = BT4

Motor Data:

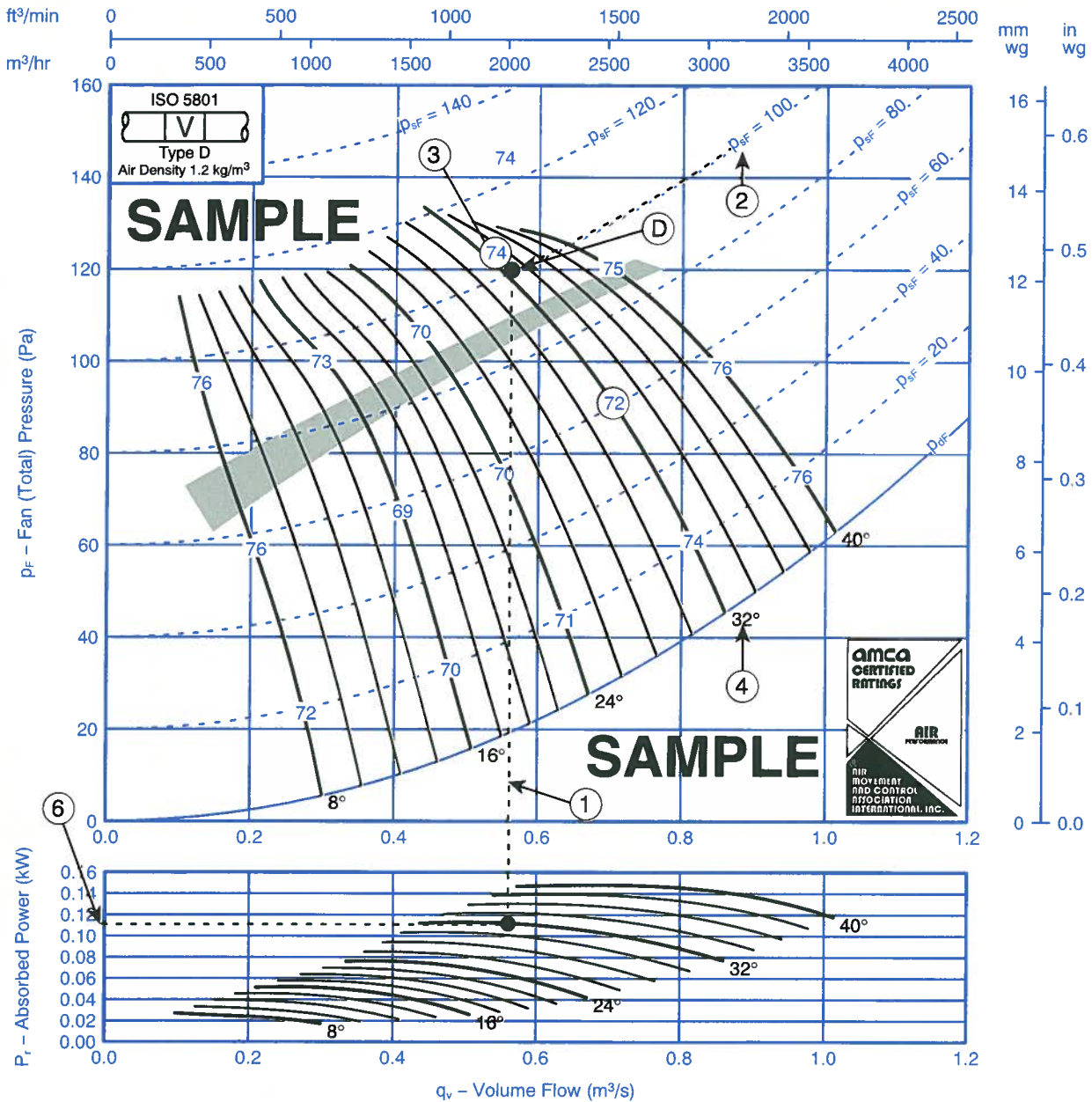
Motor Rating (kW)	=	0.15
Full Load (A)	=	0.5
Starting Current (A)	=	2.0

Speed Regulatable Versions

If a speed regulatable version is required, (or Delta/Star (Δ/Λ) reconnect on 3 phase versions) the duty volume flow required should be multiplied by 1.05 prior to fan selection being made.

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-7	-5	-5	-13	-20	-27	-35	8	-6	-5	-4	-5	-13	-20	-27	-35
	-14	-10	-7	-3	-10	-16	-22	-31		-12	-8	-7	-3	-9	-16	-20	-29
16	-12	-6	-6	-5	-13	-15	-21	-27	16	-10	-3	-6	-5	-12	-14	-21	-27
	-10	-6	-7	-6	-9	-12	-17	-24		-9	-3	-6	-6	-9	-12	-17	-24
24 - 40	-5	-6	-7	-8	-14	-18	-23	-28	24 - 40	-3	-5	-7	-7	-13	-17	-21	-26
	-7	-5	-8	-7	-12	-16	-21	-27		-5	-2	-7	-7	-12	-16	-20	-26

Motor Frame Size Schedules

220-240 V / 50 Hz / 1 ϕ

Code	Speed rev/min	Pitch Angle Range (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Capacitor μ f	Speed Regulation Details		
										Pitch Angle Range (°)	Speed Controller	
											Electronic	Auto- Transformer
31JM/16/6/5/...	900	16-40	BT5	0.04	0.5	0.7	44	0.91	2	22-40	ME1.1	MT1.1
		22-40	BT5	0.04	0.5	0.7	44	0.91	2			
31JM/16/4/5/...	1420	12-36	BT5	0.07	0.6	1.8	60	0.92	4	24-38	ME1.1	MT1.1
		24-38	BT5	0.07	0.6	1.8	60	0.92	4			
31JM/16/2/5/...	2840	8-14	BT5	0.2	1.5	4	63	0.95	10			
		18-20	BT5	0.3	2.1	5	64	0.95	15			
		26-32	BT9	0.5	3.3	9	68	0.98	20			
		36-40	CT5	0.75	4.9	8.5	71	0.93	20			
35JM/16/6/5/...	900	12-40	BT5	0.04	0.5	0.7	44	0.91	2	12-40	ME1.1	MT1.1
35JM/16/4/5/...	1420	8-22	BT5	0.07	0.6	1.8	60	0.92	4	16-24	ME1.1	MT1.1
		16-24	BT5	0.07	0.6	1.8	60	0.92	4			
		28-40	BT4	0.13	1	2	58	0.95	6			
35JM/16/2/5/...	2840	10-12	BT5	0.3	2.1	5	64	0.95	15			
		16-20	BT9	0.5	3.3	9	68	0.98	20			
		24-28	CT5	0.75	4.9	8.5	71	0.93	20			
		32-34	CT5	1	5.9	11.5	74	0.99	30			
		36-40	CT9	1.4	8.3	27	74	0.99	50			
40JM/16/6/5/...	900	8-28	BT5	0.04	0.5	0.7	44	0.91	2	8-28	ME1.1	MT1.1
		32-40	BT5	0.09	0.8	1.6	50	0.95	5			
40JM/16/4/5/...	1420	10-12	BT5	0.07	0.6	1.8	60	0.92	4	10-12	ME1.1	MT1.1
		18-24	BT4	0.13	1	2	58	0.95	6			
		26-28	BT5	0.16	1.2	2.7	62	0.95	5			
		30-36	BT5	0.23	1.6	2.7	64	0.95	8			
		34-40	BT9	0.25	1.7	3.8	66	0.97	10			
40JM/16/2/5/...	2840	10-10	BT9	0.5	3.3	9	68	0.98	20			
		14-16	CT5	0.75	4.9	8.5	71	0.93	20			
		20-22	CT5	1	5.9	11.5	74	0.99	30			
		24-28	CT9	1.4	8.3	27	74	0.99	50			
45JM/16/6/5/...	900	18-24	BT4	0.06	0.6	1	46	0.95	4	18-24	ME1.1	MT1.1
		22-34	BT5	0.09	0.8	1.6	50	0.95	5			
		36-40	BT9	0.12	1.1	2.2	54	0.92	8			
45JM/16/4/5/...	1420	10-14	BT4	0.13	1	2	58	0.95	6	10-14	ME1.1	MT1.1
		18-18	BT5	0.16	1.2	2.7	62	0.95	5			
		22-22	BT5	0.2	1.5	2.7	62	0.95	8			
		24-26	BT9	0.25	1.7	3.8	66	0.97	10			
		24-30	BT9	0.3	2.1	5.3	65	0.95	10			
45JM/16/2/5/...	2840	8-10	CT5	0.75	4.9	8.5	71	0.93	20			
		12-14	CT5	1	5.9	11.5	74	0.99	30			
		16-18	CT9	1.4	8.3	27	74	0.99	50			
45JM/20/6/3/...	900	8-24	BT5	0.04	0.5	0.7	44	0.91	2	8-24	ME1.1	MT1.1
		24-34	BT4	0.06	0.6	1	46	0.95	4			
		28-36	BT5	0.09	0.8	1.6	50	0.95	5			
45JM/20/4/3/...	1420	10-12	BT5	0.07	0.6	1.8	60	0.92	4	10-12	ME1.1	MT1.1
		16-22	BT4	0.13	1	2	58	0.95	6			
		24-26	BT5	0.16	1.2	2.7	62	0.95	5			
		30-30	BT5	0.2	1.5	2.7	62	0.95	8			
		32-36	BT9	0.25	1.7	3.8	66	0.97	10			
45JM/20/2/3/...	2910	10-10	BT9	0.5	3.3	9	68	0.98	20			
		14-16	CT5	0.75	4.9	8.5	71	0.93	20			
		18-20	CT5	1	5.9	11.5	74	0.99	30			
		22-24	CT9	1.4	8.3	27	74	0.99	50			

Although motors are rated 220/240 V electrical supply capacitors should be rated μ f x 450 V AC

Motor Frame Size Schedules

220-240 V / 50 Hz / 1 ϕ

Code	Speed rev/min	Pitch Angle Range (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Capacitor μ f	Speed Regulation Details		
										Pitch Angle Range (°)	Speed Controller	
											Electronic	Auto- Transformer
45JM/20/6/6/...	900	16-24	BT4	0.06	0.6	1	46	0.95	4	16-24	ME1.1	MT1.1
		22-32	BT5	0.09	0.8	1.6	50	0.95	5	22-32	ME1.1	MT1.1
		34-40	BT9	0.12	1.1	2.2	54	0.92	8	34-40	ME1.3	MT1.5
45JM/20/4/6/...	1420	10-12	BT4	0.13	1	2	58	0.95	6	10-12	ME1.1	MT1.1
		16-16	BT5	0.16	1.2	2.7	62	0.95	5	16-16	ME1.3	MT1.5
		22-28	BT9	0.3	2.1	5.3	65	0.95	10	22-28	ME1.3	MT1.5
		34-40	CT5	0.45	2.9	7	68	0.99	15	34-40	ME1.3	MT1.5
45JM/20/2/6/...	2910	12-12	CT5	1	5.9	11.5	74	0.99	30			
		14-16	CT9	1.4	8.3	27	74	0.99	50			
50JM/16/6/5/...	915	16-22	BT5	0.09	0.8	1.6	50	0.95	5	16-22	ME1.1	MT1.1
		24-28	BT9	0.12	1.1	2.2	54	0.92	8	24-28	ME1.3	MT1.5
		30-32	BT9	0.14	1.2	2.8	54	0.92	8	30-32	ME1.3	MT1.5
		36-40	CT5	0.19	1.8	3	48	0.96	8	36-40	ME1.3	MT1.5
50JM/16/4/5/...	1420	14-14	BT5	0.2	1.5	2.7	62	0.95	8	14-14	ME1.3	MT1.5
		16-20	BT9	0.3	2.1	5.3	65	0.95	10	16-20	ME1.3	MT1.5
		26-28	CT5	0.45	2.9	7	68	0.99	15	26-28	ME1.3	MT1.5
		32-34	CT5	0.55	3.7	9.5	65	0.99	25	32-34	ME1.6	MT1.5
		38-40	CT9	0.68	4.2	11	76	0.96	25	38-40	ME1.6	MT1.5
50JM/20/6/3/...	915	18-24	BT4	0.06	0.6	1	46	0.95	4	18-24	ME1.1	MT1.1
		22-32	BT5	0.09	0.8	1.6	50	0.95	5	22-32	ME1.1	MT1.1
		34-36	BT9	0.12	1.1	2.2	54	0.92	8	34-36	ME1.3	MT1.5
50JM/20/4/3/...	1420	12-14	BT4	0.13	1	2	58	0.95	6	12-14	ME1.1	MT1.1
		16-18	BT5	0.16	1.2	2.7	62	0.95	5	16-18	ME1.3	MT1.5
		24-30	BT9	0.3	2.1	5.3	65	0.95	10	24-30	ME1.3	MT1.5
		34-36	CT5	0.45	2.9	7	68	0.99	15	34-36	ME1.3	MT1.5
50JM/20/2/3/...	2910	12-12	CT5	1	5.9	11.5	74	0.99	30			
		14-16	CT9	1.4	8.3	27	74	0.99	50			
50JM/20/6/6/...	915	10-14	BT4	0.06	0.6	1	46	0.95	4	10-14	ME1.1	MT1.1
		14-22	BT5	0.09	0.8	1.6	50	0.95	5	14-22	ME1.1	MT1.1
		24-26	BT9	0.12	1.1	2.2	54	0.92	8	24-26	ME1.3	MT1.5
		28-30	BT9	0.14	1.2	2.8	54	0.92	8	28-30	ME1.3	MT1.5
		34-40	CT5	0.19	1.8	3	48	0.96	8	34-40	ME1.3	MT1.5
50JM/20/4/6/...	1420	14-16	BT9	0.25	1.7	3.8	66	0.97	10	14-16	ME1.3	MT1.5
		16-20	BT9	0.3	2.1	5.3	65	0.95	10	16-20	ME1.3	MT1.5
		24-26	CT5	0.45	2.9	7	68	0.99	15	24-26	ME1.3	MT1.5
		30-32	CT5	0.55	3.7	9.5	65	0.99	25	30-32	ME1.6	MT1.5
		36-38	CT9	0.68	4.2	11	76	0.96	25	36-38	ME1.6	MT1.5
		38-40	CT9	0.97	6.2	19	72	0.95	40	38-40	ME1.12	MT1.8
56JM/16/6/5/...	900	8-14	BT5	0.09	0.8	1.6	50	0.95	5	8-14	ME1.1	MT1.1
		20-22	BT9	0.14	1.2	2.8	54	0.92	8	20-22	ME1.3	MT1.5
		24-28	CT5	0.19	1.8	3	48	0.96	8	24-28	ME1.3	MT1.5
		32-34	CT5	0.24	2.1	4	51	0.98	12	32-34	ME1.3	MT1.5
		38-40	CT5	0.3	2.4	4	56	0.98	15	38-40	ME1.3	MT1.5
56JM/16/4/5/...	1420	10-12	BT9	0.3	2.1	5.3	65	0.95	10	10-12	ME1.3	MT1.5
		16-18	CT5	0.45	2.9	7	68	0.99	15	16-18	ME1.3	MT1.5
		22-22	CT5	0.55	3.7	9.5	65	0.99	25	22-22	ME1.6	MT1.5
		24-26	CT9	0.7	5	15	64	0.96	40	24-26	ME1.6	MT1.8
		28-32	CT9	0.97	6.2	19	72	0.95	40	28-32	ME1.12	MT1.8
		36-38	CT9	1.1	7.2	23	70	0.95	50	36-38	N/A	MT1.12
56JM/20/6/3/...	900	12-16	BT4	0.06	0.6	1	46	0.95	4	12-16	ME1.1	MT1.1
		16-22	BT5	0.09	0.8	1.6	50	0.95	5	16-22	ME1.1	MT1.1
		24-28	BT9	0.12	1.1	2.2	54	0.92	8	24-28	ME1.3	MT1.5
		30-30	BT9	0.14	1.2	2.8	54	0.92	8	30-30	ME1.3	MT1.5
		34-36	CT5	0.19	1.8	3	48	0.96	8	34-36	ME1.3	MT1.5

Although motors are rated 220/240 V electrical supply capacitors should be rated μ f x 450 V AC

Motor Frame Size Schedules

220-240 V / 50 Hz / 1 ϕ

Code	Speed rev/min	Pitch Angle Range (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Capacitor μ f	Speed Regulation Details		
										Pitch Angle Range (°)	Speed Controller	Auto- Transformer
56JM/20/4/3/...	1420	14-14	BT5	0.2	1.5	2.7	62	0.95	8	14-14	ME1.3	MT1.5
		16-20	BT9	0.3	2.1	5.3	65	0.95	10	16-20	ME1.3	MT1.5
		26-28	CT5	0.45	2.9	7	68	0.99	15	26-28	ME1.3	MT1.5
		30-32	CT5	0.55	3.7	9.5	65	0.99	25	30-32	ME1.6	MT1.5
		34-36	CT9	0.68	4.2	11	76	0.96	25	34-36	ME1.6	MT1.5
56JM/20/2/3/...	2910	14-18	F2225	2.7	14	50	84	0.98	90			
56JM/20/6/6/...	900	8-12	BT5	0.09	0.8	1.6	50	0.95	5	8-12	ME1.1	MT1.1
		16-18	BT9	0.12	1.1	2.2	54	0.92	8	16-18	ME1.3	MT1.5
		20-20	BT9	0.14	1.2	2.8	54	0.92	8	20-20	ME1.3	MT1.5
		24-26	CT5	0.19	1.8	3	48	0.96	8	24-26	ME1.3	MT1.5
		30-32	CT5	0.24	2.1	4	51	0.98	12	30-32	ME1.3	MT1.5
56JM/20/4/6/...	1420	36-38	CT5	0.3	2.4	4	56	0.98	15	36-38	ME1.3	MT1.5
		10-10	BT9	0.3	2.1	5.3	65	0.95	10	10-10	ME1.3	MT1.5
		16-18	CT5	0.45	2.9	7	68	0.99	15	16-18	ME1.3	MT1.5
		20-20	CT5	0.55	3.7	9.5	65	0.99	25	20-20	ME1.6	MT1.5
		22-26	CT9	0.7	5	15	64	0.96	40	22-26	ME1.6	MT1.8
63JM/20/6/3/...	900	26-30	CT9	0.97	6.2	19	72	0.95	40	26-30	ME1.12	MT1.8
		34-36	CT9	1.1	7.2	23	70	0.95	50	34-36	N/A	MT1.12
		8-10	BT5	0.09	0.8	1.6	50	0.95	5	8-10	ME1.1	MT1.1
		12-14	BT9	0.12	1.1	2.2	54	0.92	8	12-14	ME1.3	MT1.5
		16-16	BT9	0.14	1.2	2.8	54	0.92	8	16-16	ME1.3	MT1.5
63JM/20/4/3/...	1420	20-22	CT5	0.19	1.8	3	48	0.96	8	20-22	ME1.3	MT1.5
		26-26	CT5	0.24	2.1	4	51	0.98	12	26-26	ME1.3	MT1.5
		30-32	CT5	0.3	2.4	4	56	0.98	15	30-32	ME1.3	MT1.5
		14-14	CT5	0.45	2.9	7	68	0.99	15	14-14	ME1.3	MT1.5
		20-20	CT9	0.68	4.2	11	76	0.96	25	20-20	ME1.6	MT1.5
63JM/20/6/6/...	900	20-22	CT9	0.7	5	15	64	0.96	40	20-22	ME1.6	MT1.8
		22-26	CT9	0.97	6.2	19	72	0.95	40	22-26	ME1.12	MT1.8
		28-30	CT9	1.1	7.2	23	70	0.95	50	28-30	N/A	MT1.12
		12-14	CT5	0.19	1.8	3	48	0.96	8	12-14	ME1.3	MT1.5
		18-18	CT5	0.24	2.1	4	51	0.98	12	18-18	ME1.3	MT1.5
63JM/20/4/6/...	1420	22-22	CT5	0.3	2.4	4	56	0.98	15	22-22	ME1.3	MT1.5
		28-30	CT9	0.43	3.3	7.5	59	0.96	15	28-30	ME1.6	MT1.5
		34-34	CT9	0.52	4	9.2	59	0.95	20	34-34	ME1.6	MT1.8
		12-12	CT9	0.7	5	15	64	0.96	40	12-12	ME1.6	MT1.8
		14-16	CT9	0.97	6.2	19	72	0.95	40	14-16	ME1.12	MT1.8
71JM/20/6/3/...	900	20-22	CT9	1.1	7.2	23	70	0.95	50	20-22	N/A	MT1.12
		12-12	CT5	0.19	1.8	3	48	0.96	8	12-12	ME1.3	MT1.5
		16-18	CT5	0.24	2.1	4	51	0.98	12	16-18	ME1.3	MT1.5
		20-22	CT5	0.3	2.4	4	56	0.98	15	20-22	ME1.3	MT1.5
		26-28	CT9	0.43	3.3	7.5	59	0.96	15	26-28	ME1.6	MT1.5
71JM/20/4/3/...	1440	32-32	CT9	0.52	4	9.2	59	0.95	20	32-32	ME1.6	MT1.8
		12-12	CT9	0.7	5	15	64	0.96	40	12-12	ME1.6	MT1.8
		14-16	CT9	0.97	6.2	19	72	0.95	40	14-16	ME1.12	MT1.8
		20-20	CT9	1.1	7.2	23	70	0.95	50	20-20	N/A	MT1.12
		12-12	CT5	0.3	2.4	4	56	0.98	15	12-12	ME1.3	MT1.5
71JM/20/6/6/...	900	18-18	CT9	0.43	3.3	7.5	59	0.96	15	18-18	ME1.6	MT1.5
		22-22	CT9	0.52	4	9.2	59	0.95	20	22-22	ME1.6	MT1.8
		14-14	CT5	0.3	2.4	4	56	0.98	15	14-14	ME1.3	MT1.5
80JM/20/6/3/...	935	18-20	CT9	0.43	3.3	7.5	59	0.96	15	18-20	ME1.6	MT1.5

Although motors are rated 220/240 V electrical supply capacitors should be rated μ f x 450 V AC

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
31JM/16/6/5/...	900	40	BT4	0.06	0.3	0.8	46	0.6	NR at this angle		
31JM/16/4/5/...	1420	40	BT4	0.13	0.5	1.8	58	0.7	34-40	ME3.2D	MT3.0.5
31JM/16/2/5/...	2840	24	BT5	0.35	0.9	3.6	66	0.85			
		36	BT9	0.58	1.4	6	71	0.85			
		40	CT5	0.95	2	9.5	75	0.9			
35JM/16/6/5/...	900	40	BT4	0.06	0.3	0.8	46	0.6	28-40	ME3.2D	MT3.0.5
35JM/16/4/5/...	1420	40	BT4	0.13	0.5	1.8	58	0.7	22-40	ME3.2D	MT3.0.5
35JM/16/2/5/...	2840	14	BT5	0.35	0.9	3.6	66	0.85			
		22	BT9	0.58	1.4	6	71	0.85			
		34	CT5	0.95	2	9.5	75	0.9			
		40	CT9	1.7	3.5	20	78	0.9			
40JM/16/6/5/...	900	38	BT4	0.06	0.3	0.8	46	0.6	18-38	ME3.2D	MT3.0.5
		40	BT5	0.09	0.5	1.2	50	0.58	36-40	ME3.2D	MT3.0.5
40JM/16/4/5/...	1420	24	BT4	0.13	0.5	1.8	58	0.7	14-24	ME3.2D	MT3.0.5
		34	BT5	0.2	0.7	2.4	62	0.7	26-34	ME3.2D	MT3.1
		40	BT9	0.3	0.9	4.6	65	0.75	36-40	ME3.2D	MT3.1
40JM/16/2/5/...	2840	12	BT9	0.58	1.4	6	71	0.85			
		20	CT5	0.95	2	9.5	75	0.9			
		32	CT9	1.7	3.5	20	78	0.9			
45JM/16/6/5/...	900	24	BT4	0.06	0.3	0.8	46	0.6	10-24	ME3.2D	MT3.0.5
		28	BT4	0.08	0.4	1	50	0.6	26-34	ME3.2D	MT3.0.5
		34	BT5	0.09	0.5	1.2	50	0.58			
		38	BT5	0.12	0.5	1.2	54	0.7			
		40	BT9	0.14	0.6	1.8	54	0.66	36-40	ME3.2D	MT3.1
45JM/16/4/5/...	1420	14	BT4	0.13	0.5	1.8	58	0.7	8-14	ME3.2D	MT3.0.5
		22	BT5	0.2	0.7	2.4	62	0.7	16-22	ME3.2D	MT3.1
		30	BT9	0.3	0.9	4.6	65	0.75	24-30	ME3.2D	MT3.1
		36	BT9	0.39	1.1	4.6	67	0.75	40-40	ME3.2D	MT3.2
		40	CT5	0.58	1.7	6.5	67	0.74			
45JM/16/2/5/...	2840	12	CT5	0.95	2	9.5	75	0.9			
		20	CT9	1.7	3.5	20	78	0.9			
45JM/20/6/3/...	900	34	BT4	0.06	0.3	0.8	46	0.6	16-34	ME3.2D	MT3.0.5
		36	BT5	0.09	0.5	1.2	50	0.58	32-36	ME3.2D	MT3.0.5
45JM/20/4/3/...	1420	22	BT4	0.13	0.5	1.8	58	0.7	12-22	ME3.2D	MT3.0.5
		30	BT5	0.2	0.7	2.4	62	0.7	22-30	ME3.2D	MT3.1
		36	BT9	0.3	0.9	4.6	65	0.75	32-36	ME3.2D	MT3.1
45JM/20/2/3/...	2910	12	BT9	0.58	1.4	6	71	0.85			
		18	CT5	0.95	2	9.5	75	0.9			
		28	CT9	1.7	3.5	20	78	0.9			
		36	F2225	3.8	7.1	44	84	0.92			
45JM/20/6/6/...	900	24	BT4	0.06	0.3	0.8	46	0.6	10-24	ME3.2D	MT3.0.5
		32	BT5	0.09	0.5	1.2	50	0.58	26-32	ME3.2D	MT3.0.5
		36	BT5	0.12	0.5	1.2	54	0.7	34-40	ME3.2D	MT3.1
		40	BT9	0.14	0.6	1.8	54	0.66			

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
45JM/20/4/6/...	1420	12	BT4	0.13	0.5	1.8	58	0.7	8-12	ME3.2D	MT3.0.5
		20	BT5	0.2	0.7	2.4	62	0.7	14-20	ME3.2D	MT3.1
		28	BT9	0.3	0.9	4.6	65	0.75	22-28	ME3.2D	MT3.1
		34	BT9	0.39	1.1	4.6	67	0.75			
		40	CT5	0.58	1.7	6.5	67	0.74	38-40	ME3.2D	MT3.2
45JM/20/2/6/...	2910	12	CT5	0.95	2	9.5	75	0.9			
		20	CT9	1.7	3.5	20	78	0.9			
		34	F2225	3.8	7.1	44	84	0.92			
		40	F2229	6.2	11	90	86	0.92			
50JM/16/6/5/...	915	16	BT4	0.06	0.3	0.8	46	0.6	8-16	ME3.2D	MT3.0.5
		22	BT5	0.09	0.5	1.2	50	0.58	18-22	ME3.2D	MT3.0.5
		26	BT5	0.12	0.5	1.2	54	0.7			
		32	BT9	0.14	0.6	1.8	54	0.66	24-32	ME3.2D	MT3.1
		36	BT9	0.19	0.7	1.8	59	0.66			
		40	CT5	0.22	0.8	2.5	55	0.7	36-40	ME3.2D	MT3.1
50JM/16/4/5/...	1420	14	BT5	0.2	0.7	2.4	62	0.7	10-14	ME3.2D	MT3.1
		20	BT9	0.3	0.9	4.6	65	0.75	16-20	ME3.2D	MT3.1
		24	BT9	0.39	1.1	4.6	67	0.75			
		34	CT5	0.58	1.7	6.5	67	0.74	28-34	ME3.2D	MT3.2
		38	CT5	0.71	1.9	6.5	71	0.75			
		40	CT9	0.9	2.3	9	72	0.78	36-40	ME3.2D	MT3.2
50JM/20/6/3/...	915	24	BT4	0.06	0.3	0.8	46	0.6	10-24	ME3.2D	MT3.0.5
		32	BT5	0.09	0.5	1.2	50	0.58	26-32	ME3.2D	MT3.0.5
		36	BT9	0.14	0.6	1.8	54	0.66	34-36	ME3.2D	MT3.1
50JM/20/4/3/...	1420	14	BT4	0.13	0.5	1.8	58	0.7	8-14	ME3.2D	MT3.0.5
		22	BT5	0.2	0.7	2.4	62	0.7	16-22	ME3.2D	MT3.1
		30	BT9	0.3	0.9	4.6	65	0.75	24-30	ME3.2D	MT3.1
		36	CT5	0.58	1.7	6.5	67	0.74	36-36	ME3.2D	MT3.2
50JM/20/2/3/...	2910	12	CT5	0.95	2	9.5	75	0.9			
		20	CT9	1.7	3.5	20	78	0.9			
		34	F2225	3.8	7.1	44	84	0.92			
		36	F2229	6.2	11	90	86	0.92			
50JM/20/6/6/...	915	14	BT4	0.06	0.3	0.8	46	0.6	8-14	ME3.2D	MT3.0.5
		22	BT5	0.09	0.5	1.2	50	0.58	18-22	ME3.2D	MT3.0.5
		30	BT9	0.14	0.6	1.8	54	0.66	24-30	ME3.2D	MT3.1
		34	BT9	0.19	0.7	1.8	59	0.66			
		40	CT5	0.22	0.8	2.5	55	0.7	34-40	ME3.2D	MT3.1
50JM/20/4/6/...	1420	12	BT5	0.2	0.7	2.4	62	0.7	10-12	ME3.2D	MT3.1
		20	BT9	0.3	0.9	4.6	65	0.75	16-20	ME3.2D	MT3.1
		24	BT9	0.39	1.1	4.6	67	0.75			
		32	CT5	0.58	1.7	6.5	67	0.74	26-32	ME3.2D	MT3.2
		36	CT5	0.71	1.9	6.5	71	0.75			
		40	CT9	0.9	2.3	9	72	0.78	34-40	ME3.2D	MT3.2
50JM/20/2/6/...	2910	12	CT9	1.7	3.5	20	78	0.9			
		24	F2225	3.8	7.1	44	84	0.92			
		34	F2229	6.2	11	90	86	0.92			
56JM/16/8/5/...	680	24	BT5	0.065	0.5	0.8	34	0.57	20-24	ME3.5S	MT3.0.5
		32	BT9	0.09	0.5	0.9	42	0.57	26-32	ME3.2D	MT3.1
		40	CT5	0.13	0.7	1.5	47	0.6	34-40	ME3.2D	MT3.1

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
56JM/16/6/5/...	900	10	BT4	0.08	0.4	1	50	0.6	10-14 16-22 24-32 34-40	ME3.2D	MT3.0.5
		14	BT5	0.09	0.5	1.2	50	0.58			MT3.1
		22	BT9	0.14	0.6	1.8	54	0.66			MT3.1
		32	CT5	0.22	0.8	2.5	55	0.7			MT3.1
		40	CT5	0.3	1.1	3.3	56	0.7			MT3.2
56JM/16/4/5/...	1420	12	BT9	0.3	0.9	4.6	65	0.75	10-12 18-24 26-32 34-40	ME3.2D	MT3.1
		24	CT5	0.58	1.7	6.5	67	0.74			MT3.2
		26	CT5	0.71	1.9	6.5	71	0.75			MT3.2
		32	CT9	0.9	2.3	9	72	0.78			MT3.2
		40	CT9	1.15	3	14	71	0.78			N/A
56JM/20/6/3/...	900	16	BT4	0.06	0.3	0.8	46	0.6	8-16 18-22 24-30 34-36	ME3.2D	MT3.0.5
		22	BT5	0.09	0.5	1.2	50	0.58			MT3.0.5
		30	BT9	0.14	0.6	1.8	54	0.66			MT3.1
		34	BT9	0.19	0.7	1.8	59	0.66			MT3.1
		36	CT5	0.22	0.8	2.5	55	0.7			MT3.1
56JM/20/4/3/...	1420	14	BT5	0.2	0.7	2.4	62	0.7	10-14 16-20 28-32 34-36	ME3.2D	MT3.1
		20	BT9	0.3	0.9	4.6	65	0.75			MT3.1
		24	BT9	0.39	1.1	4.6	67	0.75			MT3.1
		32	CT5	0.58	1.7	6.5	67	0.74			MT3.2
		34	CT5	0.71	1.9	6.5	71	0.75			MT3.2
56JM/20/2/3/...	2910	12	CT9	1.7	3.5	20	78	0.9			
		24	F2225	3.8	7.1	44	84	0.92			
		34	F2229	6.2	11	90	86	0.92			
56JM/20/6/6/...	900	12	BT5	0.09	0.5	1.2	50	0.58	10-12 16-20 24-30 32-38 40-40	ME3.2D	MT3.0.5
		20	BT9	0.14	0.6	1.8	54	0.66			MT3.1
		24	BT9	0.19	0.7	1.8	59	0.66			MT3.1
		30	CT5	0.22	0.8	2.5	55	0.7			MT3.1
		38	CT5	0.3	1.1	3.3	56	0.7			MT3.2
56JM/20/4/6/...	1420	10	BT9	0.3	0.9	4.6	65	0.75	10-10 18-22 24-30 32-36	ME3.2D	MT3.1
		14	BT9	0.39	1.1	4.6	67	0.75			MT3.2
		22	CT5	0.58	1.7	6.5	67	0.74			MT3.2
		24	CT5	0.71	1.9	6.5	71	0.75			MT3.2
		30	CT9	0.9	2.3	9	72	0.78			MT3.2
56JM/20/2/6/...	2910	14	CT9	1.15	3	14	71	0.78			N/A
		40	CT9	1.4	3.5	14	74	0.77			
		14	F2225	3.8	7.1	44	84	0.92			
		24	F2229	6.2	11	90	86	0.92			
63JM/20/8/3/...	680	18	BT5	0.065	0.5	0.8	34	0.57	16-18 20-24 26-32 34-36	ME3.5S	MT3.0.5
		24	BT9	0.09	0.5	0.9	42	0.57			MT3.1
		32	CT5	0.13	0.7	1.5	47	0.6			MT3.1
		36	CT9	0.18	0.7	1.7	56	0.66			MT3.1
63JM/20/6/3/...	900	10	BT5	0.09	0.5	1.2	50	0.58	8-10 12-16 20-26 28-32 34-36	ME3.2D	MT3.0.5
		16	BT9	0.14	0.6	1.8	54	0.66			MT3.1
		20	BT9	0.19	0.7	1.8	59	0.66			MT3.1
		26	CT5	0.22	0.8	2.5	55	0.7			MT3.1
		32	CT5	0.3	1.1	3.3	56	0.7			MT3.2
		36	CT9	0.4	1.5	5.3	66	0.6			MT3.2

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
63JM/20/4/3/...	1420	18	CT5	0.58	1.7	6.5	67	0.74	14-18	ME3.2D	MT3.2
		20	CT5	0.71	1.9	6.5	71	0.75			
		26	CT9	0.9	2.3	9	72	0.78	20-26	ME3.2D	MT3.2
		30	CT9	1.15	3	14	71	0.78	28-30	ME3.2D	N/A
		34	CT9	1.4	3.5	14	74	0.77			
63JM/20/8/6/...	680	10	BT5	0.065	0.5	0.8	34	0.57	10-10	ME3.5S	MT3.0.5
		16	BT9	0.09	0.5	0.9	42	0.57	14-16	ME3.2D	MT3.1
		22	CT5	0.13	0.7	1.5	47	0.6	18-22	ME3.2D	MT3.1
		36	CT9	0.25	1.2	2.6	50	0.6	32-36	ME3.2D	MT3.2
63JM/20/6/6/...	900	8	BT9	0.14	0.6	1.8	54	0.66	8-8	ME3.2D	MT3.1
		22	CT5	0.3	1.1	3.3	56	0.7	20-22	ME3.2D	MT3.2
		34	CT9	0.52	1.7	7.5	59	0.74	30-34	ME3.2D	MT3.2
		36	CT9	0.68	2.2	7.5	60	0.73			
63JM/20/4/6/...	1420	10	CT5	0.58	1.7	6.5	67	0.74	10-10	ME3.2D	MT3.2
		12	CT5	0.71	1.9	6.5	71	0.75			
		18	CT9	0.9	2.3	9	72	0.78	14-18	ME3.2D	MT3.2
		22	CT9	1.15	3	14	71	0.78	20-22	ME3.2D	N/A
		24	CT9	1.4	3.5	14	74	0.77			
		32	F2245	2.1	4.7	30	79	0.82	28-32	N/A	N/A
		36	F2245	2.7	5.8	30	81	0.83			
63JM/25/2/3/...	2910	16	F2225	3.8	7.1	44	84	0.92			
		22	F2229	6.2	11	90	86	0.92			
		28	D132/19	8.5	15.9	111	88	0.88			
		32	D132/22	11	20.3	137	88	0.89			
63JM/25/4/6/...	1440	36	F2245	2.1	4.7	30	79	0.82	32-36	N/A	N/A
		36	F2245	2.7	5.8	30	81	0.83			
63JM/25/2/6/...	2910	8	F2225	3.8	7.1	44	84	0.92			
		14	F2229	6.2	11	90	86	0.92			
		20	D132/19	8.5	15.9	111	88	0.88			
		24	D132/22	11	20.3	137	88	0.89			
		28	D160/18	13	25	150	88	0.85			
		34	D160/23	17.5	33	198	89	0.86			
		36	D160/28	22	40.5	243	89	0.88			
63JM/25/6/9/...	935	40	F2265	1.55	4	15	75	0.75			
63JM/25/4/9/...	1440	30	F2245	2.1	4.7	30	79	0.82	26-30	N/A	N/A
		36	F2245	2.7	5.8	30	81	0.83			
		40	F2249	4.4	9.3	52	83	0.83			
63JM/25/2/9/...	2910	10	F2229	6.2	11	90	86	0.92			
		16	D132/19	8.5	15.9	111	88	0.88			
		20	D132/22	11	20.3	137	88	0.89			
		28	D160/23	17.5	33	198	89	0.86			
		34	D160/28	22	40.5	243	89	0.88			
		40	D160/32	27	49.5	334	89	0.88			
71JM/20/8/3/...	680	22	CT5	0.13	0.7	1.5	47	0.6	18-22	ME3.2D	MT3.1
		36	CT9	0.25	1.2	2.6	50	0.6	30-36	ME3.2D	MT3.2
71JM/20/6/3/...	900	22	CT5	0.3	1.1	3.3	56	0.7	18-22	ME3.2D	MT3.2
		32	CT9	0.52	1.7	7.5	59	0.74	28-32	ME3.2D	MT3.2
		34	CT9	0.68	2.2	7.5	60	0.73			
		36	F2265	1.55	4	15	75	0.75			

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
71JM/20/4/3/...	1440	10	CT5	0.71	1.9	6.5	71	0.75	12-16	ME3.2D	MT3.2
		16	CT9	0.9	2.3	9	72	0.78			
		20	CT9	1.15	3	14	71	0.78	18-20	ME3.2D	N/A
		22	CT9	1.4	3.5	14	74	0.77			
		30	F2245	2.1	4.7	30	79	0.82	28-30	N/A	N/A
		36	F2245	2.7	5.8	30	81	0.83			
71JM/20/8/6/...	680	12	CT5	0.13	0.7	1.5	47	0.6	10-12	ME3.2D	MT3.1
		24	CT9	0.25	1.2	2.6	50	0.6	20-24	ME3.2D	MT3.2
		36	F2265	0.65	2.4	8	63	0.62	36-36	ME3.2D	N/A
71JM/20/6/6/...	900	12	CT5	0.3	1.1	3.3	56	0.7	12-12	ME3.2D	MT3.2
		22	CT9	0.52	1.7	7.5	59	0.74			
		24	CT9	0.68	2.2	7.5	60	0.73			
		36	F2265	1.55	4	15	75	0.75			
71JM/20/4/6/...	1440	12	CT9	1.15	3	14	71	0.78	12-12	ME3.2D	N/A
		20	F2245	2.1	4.7	30	79	0.82			
		24	F2245	2.7	5.8	30	81	0.83			
		36	F2249	4.4	9.3	52	83	0.83			
71JM/25/4/3/...	1440	32	F2245	2.1	4.7	30	79	0.82	32-32	N/A	N/A
71JM/25/8/6/...	695	36	F2265	0.4	1.5	5	63	0.61	30-36	ME3.2D	MT3.2
71JM/25/6/6/...	935	36	F2265	1.55	4	15	75	0.75			
71JM/25/4/6/...	1440	24	F2245	2.1	4.7	30	79	0.82	22-24	N/A	N/A
		28	F2245	2.7	5.8	30	81	0.83			
		36	F2249	4.4	9.3	52	83	0.83			
71JM/25/8/9/...	695	36	F2265	0.65	2.4	8	63	0.62	34-36	ME3.2D	N/A
71JM/25/6/9/...	935	36	F2265	1.35	3.6	15	73	0.74	34-36	N/A	N/A
71JM/25/4/9/...	1440	18	F2245	2.1	4.7	30	79	0.82	16-18	N/A	N/A
		22	F2245	2.7	5.8	30	81	0.83			
		34	F2249	4.4	9.3	52	83	0.83			
		36	D132/18	6.3	12.8	85	86	0.83			
71JM/31/2/9/...	2910	10	D132/22	11	20.3	137	88	0.89			
		12	D160/18	13	25	150	88	0.85			
		18	D160/23	17.5	33	198	89	0.86			
		22	D160/28	22	40.5	243	89	0.88			
		26	D160/32	27	49.5	334	89	0.88			
		32	D180/34	34	64	402	89	0.86			
		38	D180/40	40	74.5	468	90	0.86			
80JM/20/8/3/...	695	14	CT5	0.13	0.7	1.5	47	0.6	12-14	ME3.2D	MT3.1
		20	CT9	0.18	0.7	1.7	56	0.66	16-20	ME3.2D	MT3.1
		24	CT9	0.25	1.2	2.6	50	0.6	22-24	ME3.2D	MT3.2
		36	F2265	0.65	2.4	8	63	0.62	36-36	ME3.2D	N/A
80JM/20/6/3/...	935	14	CT5	0.3	1.1	3.3	56	0.7	12-14	ME3.2D	MT3.2
		22	CT9	0.52	1.7	7.5	59	0.74			
		24	CT9	0.68	2.2	7.5	60	0.73	36-36	N/A	N/A
		36	F2265	1.35	3.6	15	73	0.74			
80JM/20/4/3/...	1440	12	CT9	1.15	3	14	71	0.78	12-12	ME3.2D	N/A
		14	CT9	1.4	3.5	14	74	0.77			
		22	F2245	2.1	4.7	30	79	0.82	20-22	N/A	N/A
		24	F2245	2.7	5.8	30	81	0.83			
		36	F2249	4.4	9.3	52	83	0.83			

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
80JM/20/8/6/...	695	16	CT9	0.25	1.2	2.6	50	0.6	14-16	ME3.2D	MT3.2
		32	F2265	0.65	2.4	8	63	0.62	24-32	ME3.2D	N/A
		36	F2265	0.8	2.8	8	65	0.63			
80JM/20/6/6/...	935	12	CT9	0.52	1.7	7.5	59	0.74	12-12	ME3.2D	MT3.2
		14	CT9	0.68	2.2	7.5	60	0.73			
		28	F2265	1.35	3.6	15	73	0.74	24-28	N/A	N/A
		30	F2265	1.55	4	15	75	0.75			
		36	F2269	2.1	5.5	26	74	0.74	36-36	N/A	N/A
80JM/20/4/6/...	1440	12	F2245	2.1	4.7	30	79	0.82	12-12	N/A	N/A
		14	F2245	2.7	5.8	30	81	0.83			
		24	F2249	4.4	9.3	52	83	0.83			
80JM/25/8/3/...	695	32	F2265	0.4	1.5	5	63	0.61	30-32	ME3.2D	MT3.2
80JM/25/6/3/...	935	32	F2265	1.55	4	15	75	0.75			
80JM/25/4/3/...	1440	26	F2245	2.1	4.7	30	79	0.82	22-26	N/A	N/A
		28	F2245	2.7	5.8	30	81	0.83			
		32	F2249	4.4	9.3	52	83	0.83			
80JM/25/8/6/...	695	36	F2265	0.65	2.4	8	63	0.62	28-36	ME3.2D	N/A
		36	F2265	0.8	2.8	8	65	0.63			
80JM/25/6/6/...	935	32	F2265	1.35	3.6	15	73	0.74	28-32	N/A	N/A
		34	F2265	1.55	4	15	75	0.75			
		36	F2269	2.5	6.3	26	76	0.75			
80JM/25/4/6/...	1440	16	F2245	2.1	4.7	30	79	0.82	14-16	N/A	N/A
		20	F2245	2.7	5.8	30	81	0.83			
		28	F2249	4.4	9.3	52	83	0.83			
		34	D132/18	6.3	12.8	85	86	0.83			
80JM/25/8/9/...	695	30	F2265	0.65	2.4	8	63	0.62	22-30	ME3.2D	N/A
		36	F2269	0.85	3	11	64	0.64	32-36	ME3.2D	N/A
80JM/25/6/9/...	935	26	F2265	1.35	3.6	15	73	0.74	22-26	N/A	N/A
		36	F2269	2.1	5.5	26	74	0.74	32-36	N/A	N/A
80JM/25/4/9/...	1440	12	F2245	2.7	5.8	30	81	0.83			
		22	F2249	4.4	9.3	52	83	0.83			
		28	D132/18	6.3	12.8	85	86	0.83			
		36	D132/24	9	18.3	127	87	0.82			
80JM/31/2/9/...	2910	10	D160/23	17.5	33	198	89	0.86			
		12	D160/28	22	40.5	243	89	0.88			
		16	D160/32	27	49.5	334	89	0.88			
		20	D180/34	34	64	402	89	0.86			
		22	D180/40	40	74.5	468	90	0.86			
90JM/25/8/3/...	695	32	F2265	0.65	2.4	8	63	0.62	28-32	ME3.2D	N/A
90JM/25/6/3/...	935	32	F2265	1.35	3.6	15	73	0.74	28-32	N/A	N/A
90JM/25/4/3/...	1440	16	F2245	2.1	4.7	30	79	0.82	16-16	N/A	N/A
		20	F2245	2.7	5.8	30	81	0.83			
		28	F2249	4.4	9.3	52	83	0.83			
		32	D132/18	6.3	12.8	85	86	0.83			
90JM/25/8/6/...	695	26	F2265	0.65	2.4	8	63	0.62	20-26	ME3.2D	N/A
		28	F2265	0.8	2.8	8	65	0.63			
		32	F2269	0.85	3	11	64	0.64	28-32	ME3.2D	N/A

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
										Electronic	Auto- Transformer
90JM/25/6/6/...	935	22	F2265	1.35	3.6	15	73	0.74	20-22	N/A	N/A
		24	F2265	1.55	4	15	75	0.75			
		32	F2269	2.1	5.5	26	74	0.74	30-32	N/A	N/A
90JM/25/4/6/...	1440	10	F2245	2.7	5.8	30	81	0.83			
		18	F2249	4.4	9.3	52	83	0.83			
		24	D132/18	6.3	12.8	85	86	0.83			
		32	D132/24	9	18.3	127	87	0.82			
90JM/25/8/9/...	695	18	F2265	0.65	2.4	8	63	0.62	14-18	ME3.2D	N/A
		20	F2265	0.8	2.8	8	65	0.63			
		24	F2269	0.85	3	11	64	0.64	20-24	ME3.2D	N/A
		30	F2269	1.1	4.7	14	64	0.54	26-30	N/A	N/A
		34	F2269	1.4	5.1	14	65	0.61			
		36	D132/19	3	7.7	33	80	0.71			
90JM/25/6/9/...	935	16	F2265	1.35	3.6	15	73	0.74	14-16	N/A	N/A
		16	F2265	1.55	4	15	75	0.75			
		24	F2269	2.1	5.5	26	74	0.74	22-24	N/A	N/A
		24	F2269	2.5	6.3	26	76	0.75			
		36	D132/19	4.5	9.6	55	84	0.81			
90JM/25/4/9/...	1440	12	F2249	4.4	9.3	52	83	0.83			
		16	D132/18	6.3	12.8	85	86	0.83			
		24	D132/24	9	18.3	127	87	0.82			
		32	D160/20	13	26	140	87	0.82			
		36	D160/26	17	33	185	88	0.85			
100JM/25/8/3/...	695	26	F2265	0.65	2.4	8	63	0.62	20-26	ME3.2D	N/A
		30	F2265	0.8	2.8	8	65	0.63			
		32	F2269	0.85	3	11	64	0.64	28-32	ME3.2D	N/A
100JM/25/6/3/...	935	24	F2265	1.35	3.6	15	73	0.74	20-24	N/A	N/A
		24	F2265	1.55	4	15	75	0.75			
		32	F2269	2.1	5.5	26	74	0.74	30-32	N/A	N/A
100JM/25/4/3/...	1440	12	F2245	2.7	5.8	30	81	0.83			
		20	F2249	4.4	9.3	52	83	0.83			
		26	D132/18	6.3	12.8	85	86	0.83			
		32	D132/24	9	18.3	127	87	0.82			
100JM/25/8/6/...	695	18	F2265	0.65	2.4	8	63	0.62	12-18	ME3.2D	N/A
		22	F2269	0.85	3	11	64	0.64	20-22	ME3.2D	N/A
		28	F2269	1.1	4.7	14	64	0.54	24-28	N/A	N/A
		30	F2269	1.4	5.1	14	65	0.61			
		32	D132/19	3	7.7	33	80	0.71			
100JM/25/6/6/...	950	14	F2265	1.35	3.6	15	73	0.74	12-14	N/A	N/A
		22	F2269	2.1	5.5	26	74	0.74	20-22	N/A	N/A
		24	F2269	2.5	6.3	26	76	0.75			
		32	D132/19	4.5	9.6	55	84	0.81			
100JM/25/4/6/...	1450	10	F2249	4.4	9.3	52	83	0.83			
		16	D132/18	6.3	12.8	85	86	0.83			
		22	D132/24	9	18.3	127	87	0.82			
		30	D160/20	13	26	140	87	0.82			
		32	D160/26	17	33	185	88	0.85			
100JM/25/8/9/...	695	10	F2265	0.65	2.4	8	63	0.62	8-10	ME3.2D	N/A
		12	F2265	0.8	2.8	8	65	0.63			
		16	F2269	0.85	3	11	64	0.64	14-16	ME3.2D	N/A
		20	F2269	1.1	4.7	14	64	0.54	18-20	N/A	N/A
		24	F2269	1.4	5.1	14	65	0.61			
		36	D132/19	3	7.7	33	80	0.71			

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ	Speed Regulation Details		
									Pitch Angle Range (°)	Speed Controller	
100JM/25/6/9/...	960	8	F2265	1.55	4	15	75	0.75	16-16	N/A	N/A
		16	F2269	2.1	5.5	26	74	0.74			
		16	F2269	2.5	6.3	26	76	0.75			
		26	D132/19	4.5	9.6	55	84	0.81			
		34	D132/26	6.3	13.9	77	84	0.78			
		36	D160/23	9.5	21	105	84	0.78			
100JM/25/4/9/...	1470	10	D132/18	6.3	12.8	85	86	0.83			
		16	D132/24	9	18.3	127	87	0.82			
		22	D160/20	13	26	140	87	0.82			
		28	D160/26	17	33	185	88	0.85			
		34	D160/34	22	42.5	255	89	0.84			
		36	D160/40	26	50	320	89	0.84			
100JM/31/4/9/...	1470	10	D132/18	6.3	12.8	85	86	0.83			
		16	D132/24	9	18.3	127	87	0.82			
		22	D160/20	13	26	140	87	0.82			
		28	D160/26	17	33	185	88	0.85			
		34	D160/34	22	42.5	255	89	0.84			
		36	D160/40	26	50	320	89	0.84			
100JM/40/4/9/...	1470	12	D132/24	9	18.3	127	87	0.82			
		20	D160/20	13	26	140	87	0.82			
		24	D160/26	17	33	185	88	0.85			
		30	D160/34	22	42.5	255	89	0.84			
		34	D160/40	26	50	320	89	0.84			
		38	D180/40	32	62	370	90	0.83			
		40	D200/40	42	79	474	91	0.84			

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
112JM/40/10/6/...	575	32	D132/19	2.1	5.8	23	74	0.71
112JM/40/8/6/...	720	26	D132/19	3	7.7	33	80	0.71
		32	D132/26	4.5	11.2	42	79	0.74
112JM/40/6/6/...	960	18	D132/19	4.5	9.6	55	84	0.81
		24	D132/26	6.3	13.9	77	84	0.78
		32	D160/23	9.5	21	105	84	0.78
112JM/40/4/6/...	1470	10	D132/24	9	18.3	127	87	0.82
		16	D160/20	13	26	140	87	0.82
		20	D160/26	17	33	185	88	0.85
		24	D160/34	22	42.5	255	89	0.84
		28	D160/40	26	50	320	89	0.84
		32	D180/40	32	62	370	90	0.83
112JM/40/10/9/...	575	28	D132/19	2.1	5.8	23	74	0.71
		36	D132/26	3.8	11	33	73	0.66
112JM/40/8/9/...	720	22	D132/19	3	7.7	33	80	0.71
		32	D132/26	4.5	11.2	42	79	0.74
		36	D160/27	7	19	70	80	0.56
112JM/40/6/9/...	960	14	D132/19	4.5	9.6	55	84	0.81
		20	D132/26	6.3	13.9	77	84	0.78
		26	D160/23	9.5	21	105	84	0.78
		34	D160/30	13	28.5	143	85	0.78
		36	D160/40	17.5	37	204	86	0.79
112JM/40/4/9/...	1470	16	D160/26	17	33	185	88	0.85
		20	D160/34	22	42.5	255	89	0.84
		22	D160/40	26	50	320	89	0.84
		26	D180/40	32	62	370	90	0.83
		32	D200/40	42	79	474	91	0.84
		36	D200/46	51	95	570	92	0.84
112JM/50/10/12/...	575	26	D132/19	2.1	5.8	23	74	0.71
		36	D132/26	3.8	11	33	73	0.66
112JM/50/8/12/...	720	20	D132/19	3	7.7	33	80	0.71
		30	D132/26	4.5	11.2	42	79	0.74
		36	D160/27	7	19	70	80	0.56
112JM/50/6/12/...	960	12	D132/19	4.5	9.6	55	84	0.81
		18	D132/26	6.3	13.9	77	84	0.78
		26	D160/23	9.5	21	105	84	0.78
		32	D160/30	13	28.5	143	85	0.78
		36	D160/40	17.5	37	204	86	0.79
112JM/50/4/12/...	1470	14	D160/26	17	33	185	88	0.85
		18	D160/34	22	42.5	255	89	0.84
		22	D160/40	26	50	320	89	0.84
		24	D180/40	32	62	370	90	0.83
		30	D200/40	42	79	474	91	0.84
		34	D200/46	51	95	570	92	0.84
		36	W225/M	60	112	840	93	0.83
125JM/40/10/6/...	575	24	D132/19	2.1	5.8	23	74	0.71
		32	D132/26	3.8	11	33	73	0.66

Motor Frame Size Schedules

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Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
125JM/40/8/6/...	720	18	D132/19	3	7.7	33	80	0.71
		28	D132/26	4.5	11.2	42	79	0.74
		32	D160/27	7	19	70	80	0.56
125JM/40/6/6/...	960	12	D132/19	4.5	9.6	55	84	0.81
		16	D132/26	6.3	13.9	77	84	0.78
		24	D160/23	9.5	21	105	84	0.78
		30	D160/30	13	28.5	143	85	0.78
		32	D160/40	17.5	37	204	86	0.79
125JM/40/4/6/...	1470	12	D160/26	17	33	185	88	0.85
		16	D160/34	22	42.5	255	89	0.84
		20	D160/40	26	50	320	89	0.84
		22	D180/40	32	62	370	90	0.83
		28	D200/40	42	79	474	91	0.84
		32	D200/46	51	95	570	92	0.84
125JM/40/10/9/...	575	18	D132/19	2.1	5.8	23	74	0.71
		32	D132/26	3.8	11	33	73	0.66
		36	D160/27	5.6	16	64	78	0.65
125JM/40/8/9/...	720	14	D132/19	3	7.7	33	80	0.71
		22	D132/26	4.5	11.2	42	79	0.74
		30	D160/27	7	19	70	80	0.56
		36	D160/34	9.5	24.5	91	91	0.69
125JM/40/6/9/...	960	12	D132/26	6.3	13.9	77	84	0.78
		18	D160/23	9.5	21	105	84	0.78
		24	D160/30	13	28.5	143	85	0.78
		30	D160/40	17.5	37	204	86	0.79
		36	D180/40	23	46.5	279	89	0.8
125JM/40/4/9/...	1470	12	D160/34	22	42.5	255	89	0.84
		14	D160/40	26	50	320	89	0.84
		18	D180/40	32	62	370	90	0.83
		22	D200/40	42	79	474	91	0.84
		26	D200/46	51	95	570	92	0.84
		28	W225/M	60	112	840	93	0.83
		30	D200/57	65	120	790	93	0.84
		32	W225/MF	73	135	1010	93	0.84
		36	W250/M	99	179	1160	94	0.85
125JM/50/4/6/...	1470	12	D160/26	17	33	185	88	0.85
		16	D160/34	22	42.5	255	89	0.84
		20	D160/40	26	50	320	89	0.84
		22	D180/40	32	62	370	90	0.83
		28	D200/40	42	79	474	91	0.84
		32	D200/46	51	95	570	92	0.84
125JM/50/4/9/...	1470	12	D160/34	22	42.5	255	89	0.84
		14	D160/40	26	50	320	89	0.84
		18	D180/40	32	62	370	90	0.83
		22	D200/40	42	79	474	91	0.84
		26	D200/46	51	95	570	92	0.84
		30	W225/M	60	112	840	93	0.83
		32	D200/57	65	120	790	93	0.84
		34	W225/MF	73	135	1010	93	0.84
		36	W250/M	99	179	1160	94	0.85
125JM/50/10/12/...	575	16	D132/19	2.1	5.8	23	74	0.71
		28	D132/26	3.8	11	33	73	0.66
		36	D160/27	5.6	16	64	78	0.65

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
125JM/50/8/12/...	720	18	D132/26	4.5	11.2	42	79	0.74
		26	D160/27	7	19	70	80	0.56
		34	D160/34	9.5	24.5	91	91	0.69
		36	D160/40	13	30.5	122	83	0.74
125JM/50/6/12/...	960	16	D160/23	9.5	21	105	84	0.78
		20	D160/30	13	28.5	143	85	0.78
		26	D160/40	17.5	37	204	86	0.79
		32	D180/40	23	46.5	279	89	0.8
		36	D200/46	31	60.5	363	91	0.81
125JM/50/4/12/...	1470	12	D160/40	26	50	320	89	0.84
		16	D180/40	32	62	370	90	0.83
		20	D200/40	42	79	474	91	0.84
		22	D200/46	51	95	570	92	0.84
		26	W225/M	60	112	840	93	0.83
		28	D200/57	65	120	790	93	0.84
		30	W225/MF	73	135	1010	93	0.84
		36	W250/M	99	179	1160	94	0.85
140JM/40/12/6/...	480	22	D132/19	1.7	6	18	66	0.62
		30	D132/26	2.4	8	24	71	0.61
		36	D160/27	4.5	16.5	58	71	0.56
140JM/40/10/6/...	575	16	D132/19	2.1	5.8	23	74	0.71
		28	D132/26	3.8	11	33	73	0.66
		36	D160/27	5.6	16	64	78	0.65
140JM/40/8/6/...	720	12	D132/19	3	7.7	33	80	0.71
		18	D132/26	4.5	11.2	42	79	0.74
		26	D160/27	7	19	70	80	0.56
		34	D160/34	9.5	24.5	91	91	0.69
		36	D160/40	13	30.5	122	83	0.74
140JM/40/6/6/...	960	10	D132/26	6.3	13.9	77	84	0.78
		16	D160/23	9.5	21	105	84	0.78
		20	D160/30	13	28.5	143	85	0.78
		26	D160/40	17.5	37	204	86	0.79
		34	D180/40	23	46.5	279	89	0.8
		36	D200/46	31	60.5	363	91	0.81
140JM/40/12/9/...	480	16	D132/19	1.7	6	18	66	0.62
		24	D132/26	2.4	8	24	71	0.61
		36	D160/27	4.5	16.5	58	71	0.56
140JM/40/10/9/...	575	22	D132/26	3.8	11	33	73	0.66
		30	D160/27	5.6	16	64	78	0.65
		36	D160/34	7.5	20.7	83	79	0.66
140JM/40/8/9/...	720	14	D132/26	4.5	11.2	42	79	0.74
		20	D160/27	7	19	70	80	0.56
		26	D160/34	9.5	24.5	91	91	0.69
		34	D160/40	13	30.5	122	83	0.74
		36	D180/40	17	40	200	85	0.72
140JM/40/6/9/...	960	14	D160/30	13	28.5	143	85	0.78
		20	D160/40	17.5	37	204	86	0.79
		26	D180/40	23	46.5	279	89	0.8
		32	D200/46	31	60.5	363	91	0.81
		36	D200/57	39	71.5	429	91	0.87

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
140JM/50/4/9/...	1470	10	D180/40	32	62	370	90	0.83
		16	D200/40	42	79	474	91	0.84
		18	D200/46	51	95	570	92	0.84
		20	W225/M	60	112	840	93	0.83
		22	D200/57	65	120	790	93	0.84
		24	W225/MF	73	135	1010	93	0.84
		30	W250/M	99	179	1160	94	0.85
140JM/50/10/12/...	575	20	D132/26	3.8	11	33	73	0.66
		26	D160/27	5.6	16	64	78	0.65
		34	D160/34	7.5	20.7	83	79	0.66
		36	D180/29	9.5	23.5	106	82	0.71
140JM/50/8/12/...	720	18	D160/27	7	19	70	80	0.56
		24	D160/34	9.5	24.5	91	91	0.69
		30	D160/40	13	30.5	122	83	0.74
		36	D180/40	17	40	200	85	0.72
140JM/50/6/12/...	960	12	D160/30	13	28.5	143	85	0.78
		18	D160/40	17.5	37	204	86	0.79
		24	D180/40	23	46.5	279	89	0.8
		30	D200/46	31	60.5	363	91	0.81
		36	D200/57	39	71.5	429	91	0.87
140JM/50/4/12/...	1470	12	D200/40	42	79	474	91	0.84
		14	D200/46	51	95	570	92	0.84
		18	W225/M	60	112	840	93	0.83
		18	D200/57	65	120	790	93	0.84
		20	W225/MF	73	135	1010	93	0.84
		28	W250/M	99	179	1160	94	0.85
160JM/40/12/6/...	480	14	D132/19	1.7	6	18	66	0.62
		18	D132/26	2.4	8	24	71	0.61
		30	D160/27	4.5	16.5	58	71	0.56
		32	D160/34	6.3	20.2	65	74	0.61
160JM/40/10/6/...	575	18	D132/26	3.8	11	33	73	0.66
		24	D160/27	5.6	16	64	78	0.65
		30	D160/34	7.5	20.7	83	79	0.66
		32	D180/29	9.5	23.5	106	82	0.71
160JM/40/8/6/...	720	10	D132/26	4.5	11.2	42	79	0.74
		16	D160/27	7	19	70	80	0.56
		20	D160/34	9.5	24.5	91	91	0.69
		26	D160/40	13	30.5	122	83	0.74
		32	D180/40	17	40	200	85	0.72
160JM/40/6/6/...	960	12	D160/30	13	28.5	143	85	0.78
		16	D160/40	17.5	37	204	86	0.79
		20	D180/40	23	46.5	279	89	0.8
		26	D200/46	31	60.5	363	91	0.81
		30	D200/57	39	71.5	429	91	0.87
		32	W200/LFR	41	83	498	90	0.79
160JM/40/12/9/...	480	12	D132/26	2.4	8	24	71	0.61
		24	D160/27	4.5	16.5	58	71	0.56
		32	D160/34	6.3	20.2	65	74	0.61
		36	D180/29	8	24	84	79	0.61
160JM/40/10/9/...	575	12	D132/26	3.8	11	33	73	0.66
		18	D160/27	5.6	16	64	78	0.65
		24	D160/34	7.5	20.7	83	79	0.66
		28	D180/29	9.5	23.5	106	82	0.71
		32	D180/35	12	29.3	125	82	0.72
		36	D200/38	15	35.7	160	85	0.72

Motor Frame Size Schedules

380-420 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
160JM/40/8/9/...	720	16	D160/34	9.5	24.5	91	91	0.69
		20	D160/40	13	30.5	122	83	0.74
		26	D180/40	17	40	200	85	0.72
		28	D200/38	20	45.5	209	88	0.72
		32	D200/46	24	54	248	89	0.72
		36	D200/57	33	73.5	338	89	0.73
160JM/40/6/9/...	960	10	D160/40	17.5	37	204	86	0.79
		16	D180/40	23	46.5	279	89	0.8
		20	D200/46	31	60.5	363	91	0.81
		24	D200/57	39	71.5	429	91	0.87
		26	W225/M	43	87	522	92	0.78
		30	W225/MF	53	108	648	92	0.77
160JM/50/6/9/...	960	34	W250/M	62	120	720	93	0.8
		12	D160/40	17.5	37	204	86	0.79
		16	D180/40	23	46.5	279	89	0.8
		20	D200/46	31	60.5	363	91	0.81
		24	D200/57	39	71.5	429	91	0.87
		26	W200/LFR	41	83	498	90	0.79
160JM/50/12/12/...	480	30	W225/MF	53	108	648	92	0.77
		32	W250/M	62	120	720	93	0.8
		10	D132/26	2.4	8	24	71	0.61
		20	D160/27	4.5	16.5	58	71	0.56
		28	D160/34	6.3	20.2	65	74	0.61
		32	D180/29	8	24	84	79	0.61
160JM/50/10/12/...	575	36	D180/35	10.5	32	105	78	0.61
		10	D132/26	3.8	11	33	73	0.66
		16	D160/27	5.6	16	64	78	0.65
		20	D160/34	7.5	20.7	83	79	0.66
		24	D180/29	9.5	23.5	106	82	0.71
		28	D180/35	12	29.3	125	82	0.72
160JM/50/8/12/...	720	34	D200/38	15	35.7	160	85	0.72
		36	D200/46	18	44	220	85	0.69
		12	D160/34	9.5	24.5	91	91	0.69
		18	D160/40	13	30.5	122	83	0.74
		22	D180/40	17	40	200	85	0.72
		24	D200/38	20	45.5	209	88	0.72
160JM/50/6/12/...	960	28	D200/46	24	54	248	89	0.72
		36	D200/57	33	73.5	338	89	0.73
		12	D180/40	23	46.5	279	89	0.8
		18	D200/46	31	60.5	363	91	0.81
		22	D200/57	39	71.5	429	91	0.87
		22	W200/LFR	41	83	498	90	0.79
		22	W225/M	43	87	522	92	0.78
		26	W225/MF	53	108	648	92	0.77
		28	W250/M	62	120	720	93	0.8

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
31JM/16/6-12/5/...	900	40	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
31JM/16/4-8/5/...	1420	40	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
31JM/16/2-4/5/...	2840	16	BT5	0.25	1440	0.03	0.86/0.22	2.8/1.1	51/43	0.81/0.46
		26	BT9	0.44	1440	0.055	1.2/0.35	4.5/1.2	68/55	0.76/0.41
		40	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
35JM/16/6-12/5/...	900	40	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
35JM/16/4-8/5/...	1420	40	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
35JM/16/2-4/5/...	2840	8	BT5	0.25	1440	0.03	0.86/0.22	2.8/1.1	51/43	0.81/0.46
		16	BT9	0.44	1440	0.055	1.2/0.35	4.5/1.2	68/55	0.76/0.41
		28	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
		40	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
40JM/16/6-12/5/...	900	40	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
40JM/16/4-8/5/...	1420	26	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		38	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		40	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
40JM/16/2-4/5/...	2840	8	BT9	0.44	1440	0.055	1.2/0.35	4.5/1.2	68/55	0.76/0.41
		16	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
		26	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
45JM/16/6-12/5/...	900	40	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
45JM/16/4-8/5/...	1420	16	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		24	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		38	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		40	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
45JM/16/2-4/5/...	2840	10	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
		16	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
45JM/20/6-12/3/...	900	36	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
45JM/20/4-8/3/...	1420	22	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		34	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		36	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
45JM/20/2-4/3/...	2910	8	BT9	0.44	1440	0.055	1.2/0.35	4.5/1.2	68/55	0.76/0.41
		16	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
		24	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
		36	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
45JM/20/6-12/6/...	900	40	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
45JM/20/4-8/6/...	1420	14	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		24	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		38	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		40	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
45JM/20/2-4/6/...	2910	8	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
		16	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
		26	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
		40	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
50JM/16/6-12/5/...	915	36	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		40	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.7/0.54

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
50JM/16/4-8/5/...	1420	8	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		16	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		26	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		40	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
50JM/20/6-12/3/...	915	36	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
50JM/20/4-8/3/...	1420	14	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		24	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		36	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
50JM/20/2-4/3/...	2910	10	CT5	0.8	1440	0.1	2.3/0.75	9/3	67/37	0.77/0.5
		16	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
		28	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
		36	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
50JM/20/6-12/6/...	915	34	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		40	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.77/0.54
50JM/20/4-8/6/...	1420	14	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		26	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		40	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
50JM/20/2-4/6/...	2910	8	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
		18	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
		30	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
56JM/16/6-12/5/...	900	24	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		40	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.77/0.54
56JM/16/4-8/5/...	1420	8	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		18	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		28	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
56JM/20/6-12/3/...	900	34	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		36	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.77/0.54
56JM/20/4-8/3/...	1420	8	BT5	0.165	700	0.025	0.63/0.3	2/0.6	51/22	0.75/0.59
		16	BT9	0.28	720	0.035	0.9/0.6	3/0.9	58/18	0.77/0.48
		26	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		36	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
56JM/20/2-4/3/...	2910	10	CT9	1.4	1440	0.17	3.1/1.1	16.5/5	78/50	0.84/0.45
		18	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
		30	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
56JM/20/6-12/6/...	900	24	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		38	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.77/0.54
		40	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
56JM/20/4-8/6/...	1420	16	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		26	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
		40	F2265B	1.8	720	0.23	4.2/1.8	35/36	77/47	0.80/0.40
56JM/20/2-4/6/...	2910	10	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
		20	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
63JM/20/6-12/3/...	900	20	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		32	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.77/0.54
		36	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
63JM/20/4-8/3/...	1420	12	CT5	0.5	700	0.06	1.28/0.5	3.7/1	71/31	0.79/0.56
		22	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
		36	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
63JM/20/6-12/6/...	900	10	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		22	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.7/0.54
		36	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
63JM/20/4-8/6/...	1420	14	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
		26	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		36	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
63JM/25/2-4/3/...	2910	12	F2225B	2.7	1440	0.34	5.5/2.5	32/9	79/49	0.90/0.41
		18	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
		18	D132/14	4.8	1480	0.6	9.5/2.4	56/16.5	80/68	0.91/0.56
		24	D132/19	7.15	1470	0.9	13.5/3.3	88/26	83/72	0.92/0.56
		32	D160/23	12	1480	1.49	21.8/5.9	175/50	89/78	0.89/0.47
63JM/25/4-8/6/...	1440	30	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		36	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
63JM/25/2-4/6/...	2910	12	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
		12	D132/14	4.8	1480	0.6	9.5/2.4	56/16.5	80/68	0.91/0.56
		16	D132/19	7.15	1470	0.9	13.5/3.3	88/26	83/72	0.92/0.56
		26	D160/23	12	1480	1.49	21.8/5.9	175/50	89/78	0.89/0.47
		32	D160/28	15.5	1480	1.94	28/7.7	224/65	90/79	0.90/0.48
		36	D160/32	19.4	1480	2.42	34.2/9.1	273/78	90/78	0.91/0.49
63JM/25/6-12/9/...	935	40	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
63JM/25/4-8/9/...	1440	26	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		38	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		40	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
63JM/25/2-4/9/...	2910	8	F2229B	5	1440	0.65	9.5/4.8	80/23	83/54	0.84/0.41
		8	D132/14	4.8	1480	0.6	9.5/2.4	56/16.5	80/68	0.91/0.56
		14	D132/19	7.15	1470	0.9	13.5/3.3	88/26	83/72	0.92/0.56
		22	D160/23	12	1480	1.49	21.8/5.9	175/50	89/78	0.89/0.47
		26	D160/28	15.5	1480	1.94	28/7.7	224/65	90/79	0.90/0.48
		32	D160/32	19.4	1480	2.42	34.2/9.1	273/78	90/78	0.91/0.49
71JM/20/6-12/3/...	900	10	CT5	0.21	470	0.026	0.85/0.3	1.7/0.45	44/19	0.81/0.67
		22	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.7/0.54
		36	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
71JM/20/4-8/3/...	1440	12	CT9	0.9	700	0.12	2.5/1.0	9/2.5	62/40	0.80/0.47
		26	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		36	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
71JM/20/6-12/6/...	900	12	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.7/0.54
		28	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		36	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
71JM/20/4-8/6/...	1440	16	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		26	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
71JM/25/4-8/3/...	1440	30	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		32	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
71JM/25/6-12/6/...	935	34	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		36	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
71JM/25/4-8/6/...	1440	20	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		30	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		36	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
71JM/25/6-12/9/...	935	26	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		36	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
71JM/25/4-8/9/...	1440	12	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		24	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		32	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		36	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
71JM/31/2-4/9/...	2910	12	D160/23	12	1480	1.49	21.8/5.9	175/50	89/78	0.89/0.47
		16	D160/28	15.5	1480	1.94	28/7.7	224/65	90/79	0.90/0.48
		20	D160/32	19.4	1480	2.42	34.2/9.1	273/78	90/78	0.91/0.49
		22	D180/31	23.9	1480	2.98	42.5/8.8	255/71	90/82	0.91/0.61
80JM/20/6-12/3/...	935	14	CT9	0.41	470	0.05	1.6/0.7	2.8/0.9	53/20	0.7/0.54
		28	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		36	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
80JM/20/4-8/3/...	1440	18	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		26	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
80JM/20/6-12/6/...	935	18	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		30	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
80JM/20/4-8/6/...	1440	8	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		16	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
80JM/25/6-12/3/...	935	32	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
80JM/25/4-8/3/...	1440	20	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		32	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
80JM/25/6-12/6/...	935	22	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		34	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		36	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
80JM/25/4-8/6/...	1440	12	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		20	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		28	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		34	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		36	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
80JM/25/6-12/9/...	935	16	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		28	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		36	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
80JM/25/4-8/9/...	1440	14	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		22	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		28	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		36	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
80JM/31/2-4/9/...	2910	8	D160/28	15.5	1480	1.94	28/7.7	224/65	90/79	0.90/0.48
		12	D160/32	19.4	1480	2.42	34.2/9.1	273/78	90/78	0.91/0.49
		14	D180/31	23.9	1480	2.98	42.5/8.8	255/71	90/82	0.91/0.61
90JM/25/6-12/3/...	935	22	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		32	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
90JM/25/4-8/3/...	1440	12	F2265B	1.8	720	0.23	4.2/1.8	21/5	77/47	0.80/0.40
		22	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		28	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		32	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
90JM/25/6-12/6/...	935	14	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		24	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		32	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
90JM/25/4-8/6/...	1440	12	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		18	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		24	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		32	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
90JM/25/6-12/9/...	935	16	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		28	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
		36	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
90JM/25/4-8/9/...	1440	10	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		16	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		24	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
		32	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
100JM/25/6-12/3/...	935	16	F2265B	0.95	470	0.12	2.9/1.05	10/2.2	68/36	0.70/0.45
		26	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		32	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
100JM/25/4-8/3/...	1440	14	F2269B	3.1	700	0.39	7/2.6	40/10	81/58	0.79/0.38
		20	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		26	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		32	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
100JM/25/6-12/6/...	950	16	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		26	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
		32	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
100JM/25/4-8/6/...	1450	10	D132/19	4.5	730	0.56	10.5/2.4	58/12.5	79/67	0.78/0.50
		16	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		24	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
		30	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
100JM/25/6-12/9/...	960	10	F2269B	1.6	460	0.2	4.8/1.95	23/4.5	70/37	0.69/0.42
		18	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
		26	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
		36	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
100JM/25/4-8/9/...	1470	10	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		16	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
		22	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
100JM/31/4-8/9/...	1470	10	D132/26	6.3	730	0.82	14.5/3.5	87/19	81/69	0.76/0.50
		16	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
		22	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		26	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		30	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
1000JM/40/4-8/9/...	1470	12	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
		20	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		22	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		26	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		30	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		38	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		40	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
112JM/40/6-12/6/...	960	12	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
		20	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
		26	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		32	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
112JM/40/4-8/6/...	1470	10	D160/23	9.7	740	1.19	18.5/5.5	145/33	87/74	0.86/0.46
		16	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		18	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		22	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		26	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		32	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
112JM/40/6-12/9/...	960	8	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
		14	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
		22	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		30	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		36	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
112JM/40/4-8/9/...	1470	10	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		14	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		18	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		20	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		26	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		28	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		34	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		36	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
112JM/50/6-12/12/...	960	12	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
		20	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		28	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		36	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
112JM/50/4-8/12/...	1470	8	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		12	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		16	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		20	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		24	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		26	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		32	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		36	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
125JM/40/6-12/6/...	960	8	D132/19	3.3	480	0.41	10.2/2.7	52/9.5	73/55	0.64/0.40
		12	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
		18	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		26	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		32	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
125JM/40/4-8/6/...	1470	10	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		12	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		16	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		18	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		22	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		24	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		28	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		32	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
125JM/40/6-12/9/...	960	8	D132/26	4.7	480	0.56	11.5/2.8	61/10	77/62	0.77/0.47
		14	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		20	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		28	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		32	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		34	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		36	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
125JM/40/4-8/9/...	1470	10	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		12	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		18	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		20	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		22	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		26	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
		32	W250/M	75	735	15	137/41	1027/205	93.2/89	0.85/0.6
		36	W250/MF	90	735	18	162/48	1215/240	93.5/89.5	0.86/0.61
125JM/50/4-8/6/...	1470	10	D160/30	13.4	730	1.68	26.8/8.8	208/47	87/72	0.82/0.38
		12	D180/29	15.7	730	1.94	29.9/5.7	210/35	89/82	0.85/0.60
		14	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		18	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		22	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		24	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		28	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		32	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
125JM/50/4-8/9/...	1470	10	D180/35	20.1	735	2.54	38/10.9	266/60	90/78	0.86/0.43
		14	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		18	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		20	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		24	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		28	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
		34	W250/M	75	735	15	137/41	1027/205	93.2/89	0.85/0.6
		36	W250/MF	90	735	18	162/48	1215/240	93.5/89.5	0.86/0.61
125JM/50/6-12/12/...	960	10	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		18	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		24	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		28	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		32	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		34	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		36	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
125JM/50/4-8/12/...	1470	10	D200/36	23.9	735	2.98	46/13.5	330/61	90/80	0.83/0.40
		16	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		16	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		20	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		24	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
		30	W250/M	75	735	15	137/41	1027/205	93.2/89	0.85/0.6
		34	W250/MF	90	735	18	162/48	1215/240	93.5/89.5	0.86/0.61
140JM/40/6-12/6/...	960	12	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		18	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		24	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		28	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		32	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		34	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		36	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
140JM/50/6-12/9/...	960	8	D160/27	7.46	490	0.93	17.3/4.8	91/17.5	82/64	0.76/0.44
		14	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		20	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		24	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		26	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		28	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		32	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
		36	W225/MF	37	485	7.4	70/25	490/125	89.5/82	0.85/0.5

Motor Frame Size Schedules: Two Speed (Full and Half Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
140JM/50/4-8/9/...	1470	10	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		12	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		16	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		20	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
		24	W250/M	75	735	15	137/41	1027/205	93.2/89	0.85/0.6
		28	W250/MF	90	735	18	162/48	1215/240	93.5/89.5	0.86/0.61
140JM/50/6-12/12/...	960	10	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		16	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		20	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		22	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		24	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		28	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
		32	W225/MF	37	485	7.4	70/25	490/125	89.5/82	0.85/0.52
		36	W250/M	45	485	9	83/27	623/135	91.5/85.5	0.86/0.56
140JM/50/4-8/12/...	1470	8	D200/46	32.8	735	4.1	62/18.5	450/96	91/81	0.84/0.40
		10	W200/LFR	37	730	7	69/22	448/110	91.5/85	0.85/0.54
		12	W225/M	45	730	9	83/25	581/125	92/86	0.85/0.61
		16	W225/MF	55	730	11	101/29	707/145	92.5/88	0.85/0.62
		20	W250/M	75	735	15	137/41	1027/205	93.2/89	0.85/0.6
		24	W250/MF	90	735	18	162/48	1215/240	93.5/89.5	0.86/0.61
160JM/40/6-12/6/...	960	10	D160/34	11.2	480	1.42	25.5/7	135/26	83/65	0.77/0.45
		14	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		18	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		20	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		22	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		24	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
		28	W225/MF	37	485	7.4	70/25	490/125	89.5/82	0.85/0.52
		32	W250/M	45	485	9	83/27	623/135	91.5/85.5	0.86/0.56
160JM/40/6-12/9/...	960	10	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		12	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		14	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		16	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		18	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
		22	W225/MF	37	485	7.4	70/25	490/125	89.5/82	0.85/0.52
		26	W250/M	45	485	9	83/27	623/135	91.5/85.5	0.86/0.56
		30	W250/MF	55	490	11	100/33	750/165	92.1/86.2	0.86/0.56
		10	D180/35	16.4	490	2.05	35/9.1	228.38	85/71	0.79/0.46
		12	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
160JM/50/6-12/9/...	960	14	D200/46	23.1	490	2.91	51/15	308/63	86/71	0.76/0.40
		16	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		20	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
		22	W225/MF	37	485	7.4	70/25	490/125	89.5/82	0.85/0.52
		26	W250/M	45	485	9	83/27	623/135	91.5/85.5	0.86/0.56
		30	W250/MF	55	490	11	100/33	750/165	92.1/86.2	0.86/0.56
		10	D200/38	20.5	490	2.54	45/13	272/55	86/71	0.76/0.40
		12	W200/LFR	24	475	5	46/17	345/85	89/81	0.88/0.53
		16	W225/M	30	485	6	57/20	400/100	89.5/82	0.85/0.52
		20	W225/MF	37	485	7.4	70/25	490/125	89.5/82	0.85/0.52
160JM/50/6-12/12/...	960	22	W250/M	45	485	9	83/27	623/135	91.5/85.5	0.86/0.56
		26	W250/MF	55	490	11	100/33	750/165	92.1/86.2	0.86/0.56

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
45JM/20/6-12/3/...	900	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
45JM/20/4-8/3/...	1420	36	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
45JM/20/2-4/3/...	2910	32	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		36	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
45JM/20/6-12/6/...	900	40	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
45JM/20/4-8/6/...	1420	40	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
45JM/20/2-4/6/...	2910	22	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		34	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
50JM/20/6-12/3/...	915	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
50JM/20/4-8/3/...	1420	36	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
50JM/20/2-4/3/...	2910	24	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		34	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
50JM/20/6-12/6/...	915	40	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
50JM/20/4-8/6/...	1420	40	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
50JM/20/2-4/6/...	2910	14	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		24	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
56JM/20/6-12/3/...	900	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
56JM/20/4-8/3/...	1420	36	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
56JM/20/2-4/3/...	2910	16	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		24	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
56JM/20/6-12/6/...	900	40	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
56JM/20/4-8/6/...	1420	40	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
56JM/20/2-4/6/...	2910	8	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		14	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
63JM/20/6-12/3/...	900	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
63JM/20/4-8/3/...	1420	34	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		36	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
63JM/20/6-12/6/...	900	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
63JM/20/4-8/6/...	1420	24	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		36	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
63JM/25/2-4/3/...	2910	10	F2245B	2.15	1440	0.27	4.9/0.9	29/3.2	74/60	0.85/0.77
		16	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
		16	D132/14	4.1	1400	0.51	7.7/2.1	48/12	82/59	0.80/0.56
		22	D132/19	6	1460	0.75	11.6/2.2	81/15	82/69	0.91/0.72
		30	D160/23	9.3	1470	1.19	17.6/3.4	155/27	88/72	0.87/0.69
		32	D160/28	12	1480	1.49	21.8/4.2	196/33	89/73	0.88/0.70
63JM/25/4-8/6/...	1440	28	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		36	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
63JM/25/2-4/6/...	2910	8	F2249B	3.7	1440	0.46	8.5/1.4	50/6.7	74/61	0.85/0.76
		10	D132/14	4.1	1400	0.51	7.7/2.1	48/12	82/59	0.80/0.56
		14	D132/19	6	1460	0.75	11.6/2.2	81/15	82/69	0.91/0.72
		20	D160/23	9.3	1470	1.19	17.6/3.4	155/27	88/72	0.87/0.69
		26	D160/28	12	1480	1.49	21.8/4.2	196/33	89/73	0.88/0.70
		30	D160/32	14.9	1480	1.86	27.5/5.2	248/42	89/73	0.88/0.70
63JM/25/6-12/9/...	935	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		40	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
63JM/25/4-8/9/...	1440	24	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		34	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		40	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
63JM/25/2-4/9/...	2910	10	D132/19	6	1460	0.75	11.6/2.2	81/15	82/69	0.91/0.72
		16	D160/23	9.3	1470	1.19	17.6/3.4	155/27	88/72	0.87/0.69
		20	D160/28	12	1480	1.49	21.8/4.2	196/33	89/73	0.88/0.70
		24	D160/32	14.9	1480	1.86	27.5/5.2	248/42	89/73	0.88/0.70
71JM/20/6-12/3/...	900	36	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
71JM/20/4-8/3/...	1440	24	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		34	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
71JM/20/6-12/6/...	900	24	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		36	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
71JM/20/4-8/6/...	1440	14	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		24	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
71JM/25/4-8/3/...	1440	28	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		32	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
71JM/25/6-12/6/...	935	28	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		36	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
71JM/25/4-8/6/...	1440	18	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		28	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		36	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
71JM/25/6-12/9/...	935	22	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		34	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		36	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
71JM/25/4-8/9/...	1440	10	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		20	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		30	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		36	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
71JM/31/2-4/9/...	2910	8	D160/23	9.3	1470	1.19	17.6/3.4	155/27	88/72	0.87/0.69
		10	D160/28	12	1480	1.49	21.8/4.2	196/33	89/73	0.88/0.70
		14	D160/32	14.9	1480	1.86	27.5/5.2	248/42	89/73	0.88/0.70
		16	D180/31	17.9	1480	2.24	33/6.6	249/53	89/77	0.87/0.63
80JM/20/6-12/3/...	935	24	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		36	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
80JM/20/4-8/3/...	1440	16	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		24	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
80JM/20/6-12/6/...	935	14	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		24	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
80JM/20/4-8/6/...	1440	14	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
80JM/25/6-12/3/...	935	28	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		32	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
80JM/25/4-8/3/...	1440	18	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		28	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		32	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
80JM/25/6-12/6/...	935	18	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		28	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		36	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
80JM/25/4-8/6/...	1440	10	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		18	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		26	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		32	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		36	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
80JM/25/6-12/9/...	935	12	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		22	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		36	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
80JM/25/4-8/9/...	1440	12	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		20	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		26	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		36	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
80JM/31/2-4/9/...	2910	8	D160/32	14.9	1480	1.86	27.5/5.2	248/42	89/73	0.88/0.70
		10	D180/31	17.9	1480	2.24	33/6.6	249/53	89/77	0.87/0.63
90JM/25/6-12/3/...	935	20	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		28	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		32	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
90JM/25/4-8/3/...	1440	12	F2265B	1.6	700	0.2	3.6/1	22/2.5	84/44	0.76/0.65
		20	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		26	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		32	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
90JM/25/6-12/6/...	935	10	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		18	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		32	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
90JM/25/4-8/6/...	1440	10	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		16	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		22	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		30	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		32	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
90JM/25/6-12/9/...	935	12	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		26	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
		36	D132/26	4.48	480	0.56	10.5/3.4	63/10	79/43	0.75/0.58
90JM/25/4-8/9/...	1440	10	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		14	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		22	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		32	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
100JM/25/6-12/3/...	935	12	F2265B	0.77	460	0.1	2.8/1	8/1.8	62/27	0.64/0.53
		20	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		32	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
100JM/25/4-8/3/...	1440	12	F2269B	2.7	700	0.33	6.7/1.6	37/4	77/48	0.77/0.65
		18	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		24	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		32	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
100JM/25/6-12/6/...	950	10	F2269B	1.3	460	0.15	4/1.4	14/2.4	68/25	0.70/0.63
		24	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
		32	D132/26	4.48	480	0.56	10.5/3.4	63/10	79/43	0.75/0.58
100JM/25/4-8/6/...	1450	10	D132/19	4.1	725	0.51	9.5/2.2	55/9	79/54	0.79/0.64
		14	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		22	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		30	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
100JM/25/6-12/9/...	960	18	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
		24	D132/26	4.48	480	0.56	10.5/3.4	63/10	79/43	0.75/0.58
		34	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		36	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
100JM/25/4-8/9/...	1470	8	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		14	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		22	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
100JM/31/4-8/9/...	1470	8	D132/26	5.6	730	0.7	11.5/3.2	69/13.5	81/51	0.87/0.62
		14	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		22	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
		22	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
100JM/40/4-8/9/...	1470	28	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		12	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		20	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
		20	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
100JM/40/4-8/9/...	1470	24	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		28	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		36	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		40	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		12	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
		18	D132/26	4.48	480	0.56	10.5/3.4	63/10	79/43	0.75/0.58
112JM/40/6-12/6/...	960	24	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		32	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		10	D160/23	8.95	730	1.11	16.6/4.5	108/18	87/62	0.89/0.58
		16	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
112JM/40/4-8/6/...	1470	16	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
		20	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		22	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		30	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		32	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		12	D132/19	3	480	0.37	8.4/2.3	50/6.5	75/39	0.69/0.60
112JM/40/6-12/9/...	960	20	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		26	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		32	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		36	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
112JM/40/4-8/9/...	1470	10	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
		10	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
		16	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		18	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		24	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		30	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		34	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
112JM/50/6-12/12/...	960	10	D132/26	4.48	480	0.56	10.5/3.4	63/10	79/43	0.75/0.58
		18	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		24	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		30	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		36	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
112JM/50/4-8/12/...	1470	8	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
		8	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
		14	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		16	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		22	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		28	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		32	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		36	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
125JM/40/6-12/6/...	960	10	D132/26	4.48	480	0.56	10.5/3.4	63/10	79/43	0.75/0.58
		16	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		22	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		28	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		32	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
125JM/40/4-8/6/...	1470	10	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
		10	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
		14	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		16	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		20	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		26	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		30	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		32	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.6
125JM/40/6-12/9/...	960	12	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		18	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		22	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		26	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		32	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		34	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		36	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
125JM/40/4-8/9/...	1470	8	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		10	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		16	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		20	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		24	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		30	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
		34	W250/MF	81	735	18	146/45	1022/248	93.0/88.0	0.86/0.60
125JM/50/4-8/6/...	1470	10	D160/30	13.1	730	1.64	27/5.8	202/32	87/66	0.80/0.62
		10	D180/29	13.8	740	1.72	27/6.2	189/31	88/69	0.84/0.59
		12	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		16	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		20	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		26	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		30	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		32	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
125JM/50/4-8/9/...	1470	8	D180/35	17.9	740	1.24	34.2/7.8	238/39	89/70	0.85/0.59
		10	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		16	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		22	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		24	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		32	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
		36	W250/MF	81	735	18	146/45	1022/248	93.0/88.0	0.86/0.60

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
125JM/50/6-12/12/...	960	8	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		14	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		20	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		24	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		28	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		30	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		36	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
125JM/50/4-8/12/...	1470	8	D200/36	20.9	740	2.61	40/9.3	283/47	89/74	0.84/0.54
		12	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		18	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		20	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		28	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
		32	W250/MF	81	735	18	146/45	1022/248	93.0/88.0	0.86/0.60
140JM/40/6-12/6/...	960	10	D160/27	6.71	480	0.82	15.6/4.6	93/14	81/50	0.76/0.52
		14	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		20	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		24	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		30	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		30	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		36	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
140JM/50/6-12/9/...	960	10	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		16	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		20	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		24	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		24	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		30	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
		36	W250/M	36	485	7.2	69/26	483/143	90.3/74	0.84/0.55
140JM/50/4-8/9/...	1470	10	D200/46	29.1	740	3.58	55/12.5	385/62	90/75	0.85/0.55
		14	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		16	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		22	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
		26	W250/MF	81	735	18	146/45	1022/248	93.0/88.0	0.86/0.60
140JM/50/6-12/12/...	960	8	D160/34	9.33	480	1.12	21/5.7	125/18	83/52	0.78/0.54
		12	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		16	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		20	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		22	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		26	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
		32	W250/M	36	485	7.2	69/26	483/143	90.3/74	0.84/0.55
		34	W250/MF	42	490	8.4	79/28	553/154	90.9/75	0.84/0.55
140JM/50/4-8/12/...	1470	10	W225/M	40	735	6	75/22	563/132	91.5/83.5	0.84/0.63
		12	W225/MF	48	735	9.5	91/26	683/156	92.0/84.5	0.83/0.63
		20	W250/M	67	735	13	123/37	861/204	92.5/85.0	0.85/0.60
		22	W250/MF	81	735	18	146/45	1022/248	93.0/88.0	0.86/0.60
160JM/40/6-12/6/...	960	10	D180/35	13.1	485	1.64	28/6.2	173/21	86/62	0.78/0.62
		14	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		18	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		20	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		22	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
		28	W250/M	36	485	7.2	69/26	483/143	90.3/74	0.84/0.55
		30	W250/MF	42	490	8.4	79/28	553/154	90.9/75	0.84/0.55

Motor Frame Size Schedules: Two Speed (Full and Half Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
160JM/40/6-12/9/...	960	8	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		12	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		14	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		18	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
		22	W250/M	36	485	7.2	69/26	483/143	90.3/74	0.84/0.55
		24	W250/MF	42	490	8.4	79/28	553/154	90.9/75	0.84/0.55
160JM/50/6-12/9/...	960	10	D200/38	16.4	490	2.05	35/7.1	230/23	86/71	0.78/0.59
		14	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		14	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		18	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
		22	W250/M	36	485	7.2	69/26	483/143	90.3/74	0.84/0.55
		24	W250/MF	42	490	8.4	79/28	553/154	90.9/75	0.84/0.55
160JM/50/6-12/12/...	960	10	D200/46	20.9	485	2.61	46/10.7	300/37	87/65	0.75/0.54
		10	W225/M	22.5	485	4.5	44/17	286/85	89/72	0.83/0.54
		14	W225/MF	28	485	5.6	54/21	351/105	89.5/72.5	0.83/0.54
		18	W250/M	36	485	7.2	69/26	483/143	90.3/74	0.84/0.55
		22	W250/MF	42	490	8.4	79/28	553/154	90.9/75	0.84/0.55

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
31JM/16/6-8/5/...	900	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
31JM/16/4-6/5/...	1420	40	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
35JM/16/6-8/5/...	900	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
35JM/16/4-6/5/...	1420	38	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
		40	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
40JM/16/6-8/5/...	900	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
40JM/16/4-6/5/...	1420	24	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
		36	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		40	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
45JM/16/6-8/5/...	900	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
45JM/16/4-6/5/...	1420	14	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
		24	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		38	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		40	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
45JM/20/6-8/3/...	900	36	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
45JM/20/4-6/3/...	1420	20	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
		32	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		36	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
45JM/20/6-8/6/...	900	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
45JM/20/4-6/6/...	1420	12	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
		22	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		38	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		40	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
50JM/16/6-8/5/...	915	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
50JM/16/4-6/5/...	1420	14	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		26	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		40	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
50JM/20/6-8/3/...	915	36	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
50JM/20/4-6/3/...	1420	14	BT5	0.15	900	0.04	0.6/0.3	2.3/0.7	58/30	0.63/0.65
		22	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		36	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
50JM/20/6-8/6/...	915	40	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
50JM/20/4-6/6/...	1420	14	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		26	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		40	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
56JM/16/6-8/5/...	900	30	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
		40	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
56JM/16/4-6/5/...	1420	18	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		28	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
56JM/20/6-8/3/...	900	36	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
56JM/20/4-6/3/...	1420	14	BT9	0.26	900	0.065	0.95/0.45	3.3/1	58/30	0.65/0.7
		26	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		36	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
56JM/20/6-8/6/...	900	28	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
		40	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
56JM/20/4-6/6/...	1420	16	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		26	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
		40	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
63JM/20/6-8/3/...	900	24	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
		36	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
63JM/20/4-6/3/...	1420	12	CT5	0.5	900	0.14	1.3/0.65	4.8/1.4	78/48	0.71/0.65
		22	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
		36	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
63JM/20/6-8/6/...	900	16	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
		26	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
		36	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
63JM/20/4-6/6/...	1420	14	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
		28	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		36	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
63JM/25/4-6/6/...	1440	34	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		36	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
63JM/25/6-8/9/...	935	40	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
63JM/25/4-6/9/...	1440	28	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		40	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
71JM/20/6-8/3/...	900	14	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
		24	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
		36	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
71JM/20/4-6/3/...	1440	12	CT9	0.9	940	0.27	2.4/1.5	10.8/3.2	75/45	0.72/0.58
		28	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		36	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
71JM/20/6-8/6/...	900	16	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
		30	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		36	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
71JM/20/4-6/6/...	1440	18	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		30	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
71JM/25/4-6/3/...	1440	32	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
71JM/25/6-8/6/...	935	34	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		36	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
71JM/25/4-6/6/...	1440	22	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		34	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		36	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
71JM/25/6-8/9/...	935	28	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		36	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
71JM/25/4-6/9/...	1440	16	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		26	F2229B	3.5	940	1.04	8/7	46/14	81/80	0.78/0.47
		36	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
80JM/20/6-8/3/...	935	8	CT5	0.28	700	0.12	1.5/0.67	4.2/1.3	47/34	0.60/0.76
		16	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
		30	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		36	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
80JM/20/4-6/3/...	1440	18	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		28	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
80JM/20/6-8/6/...	935	8	CT9	0.48	700	0.2	2.4/1.2	4.9/1.4	58/39	0.50/0.61
		18	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		32	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
80JM/20/4-6/6/...	1440	10	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		18	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
80JM/25/6-8/3/...	935	32	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
			F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
80JM/25/4-6/3/...	1440	22	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		32	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
80JM/25/6-8/6/...	935	24	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		36	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
80JM/25/4-6/6/...	1440	12	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		24	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		32	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		36	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
80JM/25/6-8/9/...	935	18	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		30	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
		36	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67
80JM/25/4-6/9/...	1440	8	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		16	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		26	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		30	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		32	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		36	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
90JM/25/6-8/3/...	935	24	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		32	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
90JM/25/4-6/3/...	1440	14	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		24	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		32	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
90JM/25/6-8/6/...	935	14	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		26	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
		32	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
90JM/25/4-6/6/...	1440	14	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		22	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		26	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		28	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		32	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
90JM/25/6-8/9/...	935	8	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		18	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
		24	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67
		36	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
90JM/25/4-6/9/...	1440	8	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		14	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		18	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		20	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		28	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
100JM/25/6-8/3/...	935	16	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		28	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
		32	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67
100JM/25/4-6/3/...	1440	8	F2225B	2	960	0.6	5.3/2.1	28/7	74/64	0.74/0.66
		16	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		24	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		28	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		30	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		32	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
100JM/25/6-8/6/...	950	8	F2265B	1	700	0.42	3.2/1.7	14/3.9	72/54	0.62/0.66
		18	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
		24	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67
		32	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
100JM/25/4-6/6/...	1450	8	F2229B	3.5	940	1.04	8/4	46/14	81/80	0.78/0.47
		14	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		18	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		20	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		26	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
100JM/25/6-8/9/...	960	12	F2269B	1.8	690	0.76	5.8/3	25/7	73/54	0.61/0.65
		18	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67
		26	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
		28	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		36	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
100JM/25/4-6/9/...	1470	8	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		12	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		14	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
100JM/31/4-6/9/...	1470	20	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
		8	D132/21	5.6	970	1.64	11/4.5	66/19	84/74	0.88/0.71
		12	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		14	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		18	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
		22	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		26	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
100JM/40/4-6/9/...	1470	8	D132/24	7	970	2.09	13.8/5.6	81/23.8	82/75	0.87/0.72
		10	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		16	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
		18	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		22	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86
		28	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		34	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		38	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		40	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
112JM/40/6-8/6/...	960	12	D132/19	3	725	1.27	11/3.9	70/17.5	73/70	0.54/0.67
		18	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
		20	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		26	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		32	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
112JM/40/4-6/6/...	1470	8	D160/27	8.21	960	2.42	15.6/5	97.5/20	86/83	0.90/0.86
		12	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
		14	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		18	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86
		24	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		28	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		30	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		32	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
112JM/40/6-8/9/...	960	14	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
		16	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		22	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		26	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		34	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		36	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
112JM/40/4-6/9/...	1470	8	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
		10	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		14	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86
		20	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		24	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		26	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		30	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		34	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		36	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
112JM/50/6-8/12/...	960	10	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
		14	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		20	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		26	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		32	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		36	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
112JM/50/4-6/12/...	1470	8	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		12	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86
		18	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		22	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		24	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		28	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		32	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		36	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
125JM/40/6-8/6/...	960	12	D132/26	4.55	720	1.9	11.9/5.2	77.8/20.8	79/73	0.69/0.72
		12	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		18	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		24	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		30	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		32	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
125JM/40/4-6/6/...	1470	8	D160/34	11.2	950	3.36	21.8/7.1	142/28	86/83	0.90/0.86
		8	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		12	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86
		16	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		20	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		22	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		26	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		30	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		32	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
125JM/40/6-8/9/...	960	8	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		14	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		18	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		24	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		28	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		30	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		34	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		36	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
125JM/40/4-6/9/...	1470	12	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		16	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		16	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		20	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		24	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		28	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
		34	W250/M	79	980	26	142/62	994/372	93.2/89.2	0.86/0.68
		36	W250/MF	95	985	31	171/74	1197/444	93.5/89.4	0.86/0.68
125JM/50/4-6/6/...	1470	8	D180/29	12.7	960	3.73	23.8/7.5	156/30	87/85	0.89/0.85
		12	D180/35	16.4	960	4.85	30/9.8	195/39	88/86	0.90/0.86
		16	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		20	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		22	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		26	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		30	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		32	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
125JM/50/6-8/9/...	960	8	DF132/MK	5.1	710	2.2	12.3/6.5	74/19.8	82/71	0.73/0.68
		14	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		20	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		24	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		28	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		30	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		34	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		36	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
125JM/50/6-8/12/...	960	10	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		16	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		22	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		24	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		26	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		30	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		36	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
125JM/50/4-6/12/...	1470	8	D200/38	22.4	970	6.64	41.5/13.3	270/53	89/87	0.88/0.83
		12	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		14	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		18	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		20	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		24	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
		32	W250/M	79	980	26	142/62	994/372	93.2/89.2	0.86/0.68
		36	W250/MF	95	985	31	171/74	1197/444	93.5/89.4	0.86/0.68
140JM/40/6-8/6/...	960	12	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		16	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		20	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		24	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		26	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		30	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		36	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
140JM/40/6-8/9/...	960	8	DF160/LM	7.5	710	3.2	16.2/8.2	105/32.8	85/78	0.78/0.72
		10	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		16	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		18	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		20	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		24	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		30	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
		32	W225/M	30	730	13	63/34	441/153	91/84	0.76/0.65
140JM/50/4-6/9/...	1470	10	D200/46	28.3	970	8.39	51.9/17.1	337/68	90/88	0.89/0.84
		10	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		14	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		16	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		20	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
		26	W250/M	79	980	26	142/62	994/372	93.2/89.2	0.86/0.68
		30	W250/MF	95	985	31	171/74	1197/444	93.5/89.4	0.86/0.68
140JM/50/6-8/12/...	960	8	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		14	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		16	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		18	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		22	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		26	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
		28	W225/M	30	730	13	63/34	441/153	91/84	0.76/0.65
		34	W225/MF	37	730	18	77/42	539/189	91/84	0.76/0.65
140JM/50/4-6/12/...	1470	8	W200/LF	31	960	10	57/24	370/132	90.8/85.3	0.86/0.70
		10	W200/LFR	38	960	12	70/29	455/160	91/85.5	0.86/0.70
		12	W225/M	47	970	15	86/35	602/210	92/87.5	0.86/0.70
		16	W225/MF	58	980	19	104/44	728/264	92.5/89	0.86/0.70
		22	W250/M	79	980	26	142/62	994/372	93.2/89.2	0.86/0.68
		26	W250/MF	95	985	31	171/74	1197/444	93.5/89.4	0.86/0.68
160JM/40/6-8/6/...	960	8	DF160/L	10	710	4.3	21/10.5	137/42	87/79	0.80/0.75
		12	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		14	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		16	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		18	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		24	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
		26	W225/M	30	730	13	63/34	441/153	91/84	0.76/0.65
		30	W225/MF	37	730	18	77/42	539/189	91/84	0.76/0.65
160JM/40/6-8/6/...	960	32	W250/M	45	730	20	88/48	616/216	92/88	0.80/0.66

Motor Frame Size Schedules: Two Speed (Full and Other Pole Change)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
160JM/40/6-8/9/...	960	8	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		10	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		10	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		14	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		18	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
		20	W225/M	30	730	13	63/34	441/153	91/84	0.76/0.65
		24	W225/MF	37	730	18	77/42	539/189	91/84	0.76/0.65
		26	W250/M	45	730	20	88/48	616/216	92/88	0.80/0.66
		30	W250/MF	55	740	24	107/59	749/266	93/88	0.80/0.66
160JM/50/6-8/9/...	960	8	DF180/LM	14	720	6	28/14.6	182/59	87/78	0.81/0.77
		10	DF180/L	17	720	7.3	34/17.8	221/71	87/78	0.84/0.76
		12	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		14	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		18	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
		20	W225/M	30	730	13	63/34	441/153	91/84	0.76/0.65
		24	W225/MF	37	730	18	77/42	539/189	91/84	0.76/0.65
		26	W250/M	45	730	20	88/48	616/216	92/88	0.80/0.66
		30	W250/MF	55	740	24	107/59	749/266	93/88	0.80/0.66
160JM/50/6-8/12/...	960	8	W200/LFG	18.6	720	8	38/22	266/99	89/82	0.78/0.65
		10	W200/LF	22	730	9.5	45/25	315/113	90/83	0.78/0.65
		14	W200/LFR	27	730	12	55/31	385/140	90/84	0.79/0.65
		16	W225/M	30	730	13	63/34	441/153	91/84	0.76/0.65
		20	W225/MF	37	730	18	77/42	539/189	91/84	0.76/0.65
		24	W250/M	45	730	20	88/48	616/216	92/88	0.80/0.66
		26	W250/MF	55	740	24	107/59	749/266	93/88	0.80/0.66

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
45JM/20/6-8/3/...	900	36	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
45JM/20/4-6/3/...	1420	36	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
45JM/20/6-8/6/...	900	40	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
45JM/20/4-6/6/...	1420	40	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
50JM/20/6-8/3/...	915	36	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
50JM/20/4-6/3/...	1420	36	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
50JM/20/6-8/6/...	915	40	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
50JM/20/4-6/6/...	1420	40	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
56JM/20/6-8/3/...	900	36	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
56JM/20/4-6/3/...	1420	36	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
56JM/20/6-8/6/...	900	40	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
56JM/20/4-6/6/...	1420	36	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		40	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
63JM/20/6-8/3/...	900	36	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
63JM/20/4-6/3/...	1420	30	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		36	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
63JM/20/6-8/6/...	900	34	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		36	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
63JM/20/4-6/6/...	1420	22	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		32	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
63JM/25/4-6/6/...	1440	26	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		36	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
63JM/25/6-8/9/...	935	32	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		40	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
63JM/25/4-6/9/...	1440	20	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		30	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		40	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
71JM/20/6-8/3/...	900	32	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		36	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
71JM/20/4-6/3/...	1440	20	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		32	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
71JM/20/6-8/6/...	900	22	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		36	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
71JM/20/4-6/6/...	1440	12	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		20	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
71JM/25/4-6/3/...	1440	24	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		32	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
71JM/25/6-8/6/...	935	26	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		36	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
71JM/25/4-6/6/...	1440	16	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		26	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		36	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
71JM/25/6-8/9/...	935	20	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		34	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		36	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
71JM/25/4-6/9/...	1440	8	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		18	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		32	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		36	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
80JM/20/6-8/3/...	935	22	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		36	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
80JM/20/4-6/3/...	1440	12	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		22	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
80JM/20/6-8/6/...	935	12	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		24	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
80JM/20/4-6/6/...	1440	12	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
80JM/25/6-8/3/...	935	26	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		32	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
80JM/25/4-6/3/...	1440	16	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		26	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		32	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
80JM/25/6-8/6/...	935	16	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		28	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		36	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
80JM/25/4-6/6/...	1440	8	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		16	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		26	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		32	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		36	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
80JM/25/6-8/9/...	935	10	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		22	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		32	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		36	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
80JM/25/4-6/9/...	1440	10	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		20	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		26	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		32	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		36	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
90JM/25/6-8/3/...	935	18	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		28	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		32	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
90JM/25/4-6/3/...	1440	10	F2265B	1.4	940	0.42	3.5/1.25	20/4.2	77/65	0.75/0.75
		16	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		28	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		32	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
90JM/25/6-8/6/...	935	18	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		28	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		32	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
90JM/25/4-6/6/...	1440	8	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		18	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		22	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		28	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		32	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
90JM/25/6-8/9/...	935	12	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		20	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		30	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
		36	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
90JM/25/4-6/9/...	1440	10	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		16	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		20	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		28	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
100JM/25/6-8/3/...	935	10	F2265B	0.55	680	0.23	2.3/1.3	6.8/3	48/42	0.72/0.61
		20	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		28	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		32	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
100JM/25/4-6/3/...	1440	10	F2269B	2.35	940	0.7	5.5/2.2	28/8	78/67	0.79/0.69
		20	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		24	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		30	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		32	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
100JM/25/6-8/6/...	950	10	F2269B	1	680	0.42	3.3/1.7	14.2/4	73/54	0.61/0.65
		18	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		28	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
		32	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
100JM/25/4-6/6/...	1450	10	D132/21	4.5	970	1.34	11.2/4.2	74/24	80/65	0.73/0.70
		14	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		20	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		26	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
100JM/25/6-8/9/...	960	12	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		20	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
		30	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		36	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
100JM/25/4-6/9/...	1470	8	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		14	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		20	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
100JM/31/4-6/9/...	1470	8	D132/24	5.8	970	1.7	12.8/5.0	80/28	81/70	0.81/0.70
		14	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		18	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
		22	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		26	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
100JM/40/4-6/9/...	1470	10	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		16	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
		18	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		22	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		26	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		34	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		36	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		40	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
112JM/40/6-8/6/...	960	8	D132/19	2.24	725	0.97	6.4/3.4	42/19	75/64	0.71/0.65
		14	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
		22	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		30	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		32	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
112JM/40/4-6/6/...	1470	8	D160/27	8.21	970	2.61	16.2/5.2	113/34	85/75	0.86/0.82
		12	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
		14	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		18	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		22	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		28	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		30	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		32	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
112JM/40/6-8/9/...	960	8	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
		18	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		24	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		30	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		30	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		36	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
112JM/40/4-6/9/...	1470	8	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
		10	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		14	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		18	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		24	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		24	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		30	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		34	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
112JM/50/6-8/12/...	960	16	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		22	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		28	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		28	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		34	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		36	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
112JM/50/4-6/12/...	1470	8	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		12	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		16	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		22	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		24	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		28	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		32	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		36	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
125JM/40/6-8/6/...	960	8	D132/26	3.58	730	1.49	9.9/4.9	59/25	76/66	0.70/0.67
		14	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		20	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		26	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		26	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		32	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
125JM/40/4-6/6/...	1470	8	D160/34	11.2	970	3.36	21.3/7.4	149/48	86/78	0.88/0.84
		8	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		12	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		16	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		20	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		22	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		26	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		30	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		32	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
125JM/40/6-8/9/...	960	10	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		16	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		20	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		20	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		26	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		30	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		32	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		36	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
125JM/40/4-6/9/...	1470	10	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		16	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		16	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		20	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		24	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		30	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
		34	W250/MF	78	985	26	142/58	923/377	92/88	0.86/0.73
125JM/50/4-6/6/...	1470	8	D180/29	12.7	970	3.73	23.9/8.2	156/65	87/80	0.88/0.82
		12	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		14	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		20	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		22	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		26	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		30	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		32	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
125JM/50/4-6/9/...	1470	8	D180/35	16.4	980	4.85	30/10.3	195/82	88/82	0.89/0.83
		10	D200/36	20.1	980	5.97	39.5/13.5	296/121	88/83	0.84/0.77
		16	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		16	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		22	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		26	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		30	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
		34	W250/MF	78	985	26	142/58	923/377	92/88	0.86/0.73
125JM/50/6-8/12/...	960	14	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		18	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		18	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		22	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		26	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		30	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		34	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		36	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
125JM/50/4-6/12/...	1470	12	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		14	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		18	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		22	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		26	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
		30	W250/MF	78	985	26	142/58	923/377	92/88	0.86/0.73
140JM/40/6-8/6/...	960	8	D160/27	5.6	720	1.9	12.8/5.3	83/28	81/73	0.78/0.71
		14	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		18	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		18	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		22	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		26	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		30	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		34	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		36	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
140JM/40/6-8/9/...	960	8	D160/34	8.2	720	3.5	20/10.4	130/54	82/73	0.72/0.67
		12	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		12	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		18	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		20	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		24	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		26	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		36	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
140JM/50/4-6/9/...	1470	10	D200/46	28.3	980	8.21	54/18.3	405/164	89/84	0.85/0.77
		10	W200/LFR	30	975	10	57/24	371/144	89.0/83.5	0.85/0.72
		14	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		18	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		22	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
		26	W250/MF	78	985	26	142/58	923/377	92/88	0.86/0.73
140JM/50/6-8/12/...	960	10	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		10	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		14	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		18	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		20	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		24	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		32	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
		34	W250/MF	40	735	17.3	81/41	567/246	91.7/88.2	0.79/0.69
140JM/50/4-6/12/...	1470	10	W225/M	40	980	13	75/30	488/195	90.5/85	0.85/0.73
		14	W225/MF	49	980	16	90/37	585/241	91/86	0.86/0.73
		18	W250/M	66	985	22	121/50	787/325	91.5/87	0.86/0.73
		22	W250/MF	78	985	26	142/58	923/377	92/88	0.86/0.73
160JM/40/6-8/6/...	960	8	D160/38	10.5	720	4.4	22.5/10.6	124/44.5	82/77	0.82/0.78
		8	D180/35	11.2	730	4.7	23.5/11.7	153/70	84/81	0.82/0.72
		14	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		16	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		18	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		22	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		28	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
		30	W250/MF	40	735	17.3	81/41	567/246	91.7/88.2	0.79/0.69
160JM/40/6-8/9/...	960	8	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		12	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		14	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		16	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		22	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
		24	W250/MF	40	735	17.3	81/41	567/246	91.7/88.2	0.79/0.69

Motor Frame Size Schedules: Two Speed (Full and Other Dual Wound)

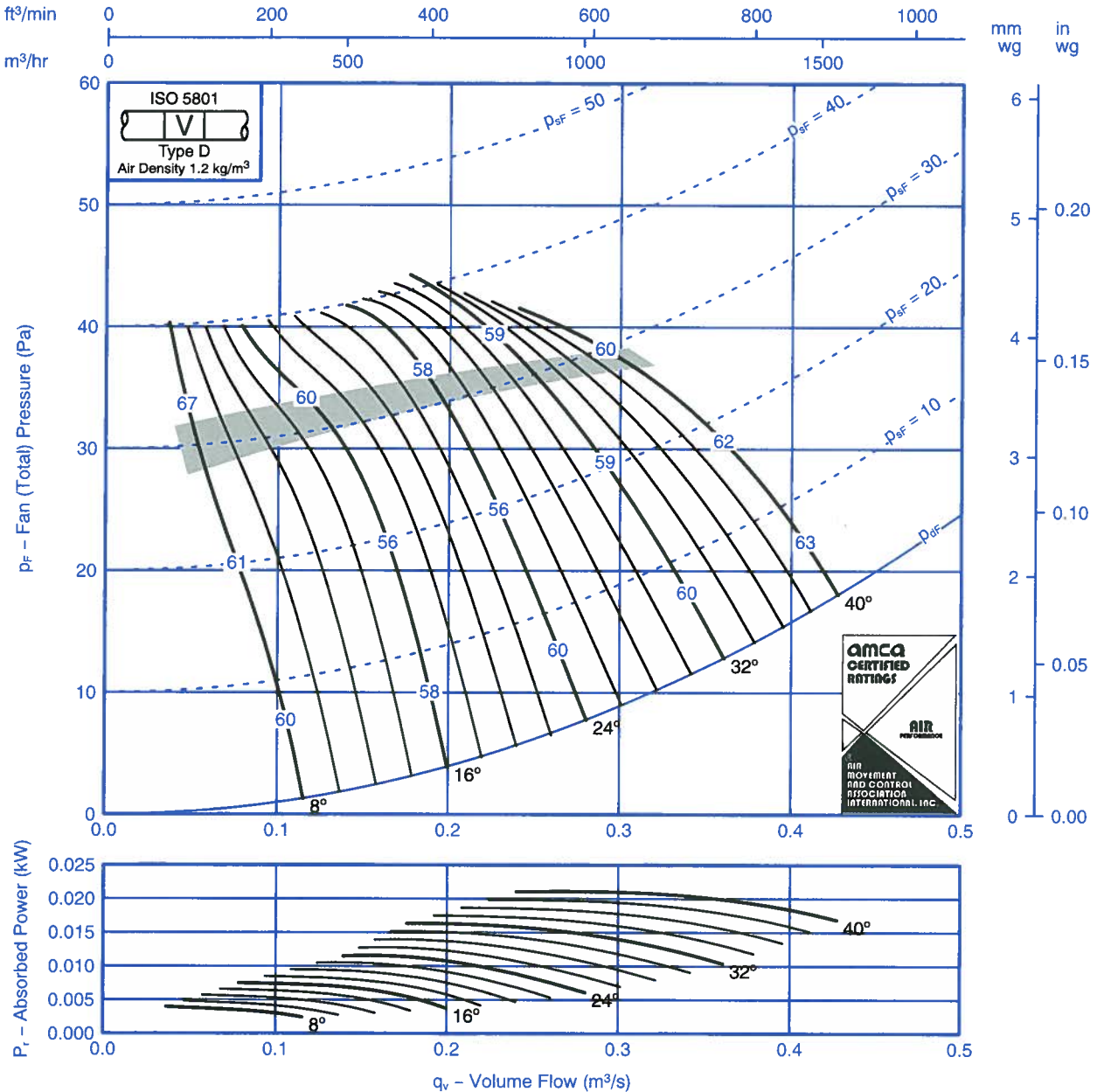
400 V / 50 Hz / 3 ϕ

Code	Speed rev/min	Max. Pitch Angle (°)	Motor	Motor Rating (kW)	Low Speed		Full Load Current (A)	Starting Current d.o.l. (A)	Efficiency %	Power Factor cos ϕ
					rev/min	(kW)				
160JM/50/6-8/9/...	960	8	D200/38	15	730	6.3	30.4/16	182/88	87/81	0.82/0.70
		12	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		14	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		16	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		22	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
		24	W250/MF	40	735	17.3	81/41	567/246	91.7/88.2	0.79/0.69
160JM/50/6-8/12/...	960	8	W200/LFR	19	735	8.3	40/21	280/126	88.7/84.4	0.77/0.68
		10	W225/M	22	735	9.5	48/24	336/192	89.4/86.2	0.74/0.66
		12	W225/MF	26	735	11.3	56/28	392/168	89.4/86.2	0.74/0.66
		20	W250/M	38	735	15.4	73/36	511/216	91.2/88.9	0.78/0.69
		20	W250/MF	40	735	17.3	81/41	567/246	91.7/88.2	0.79/0.69



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

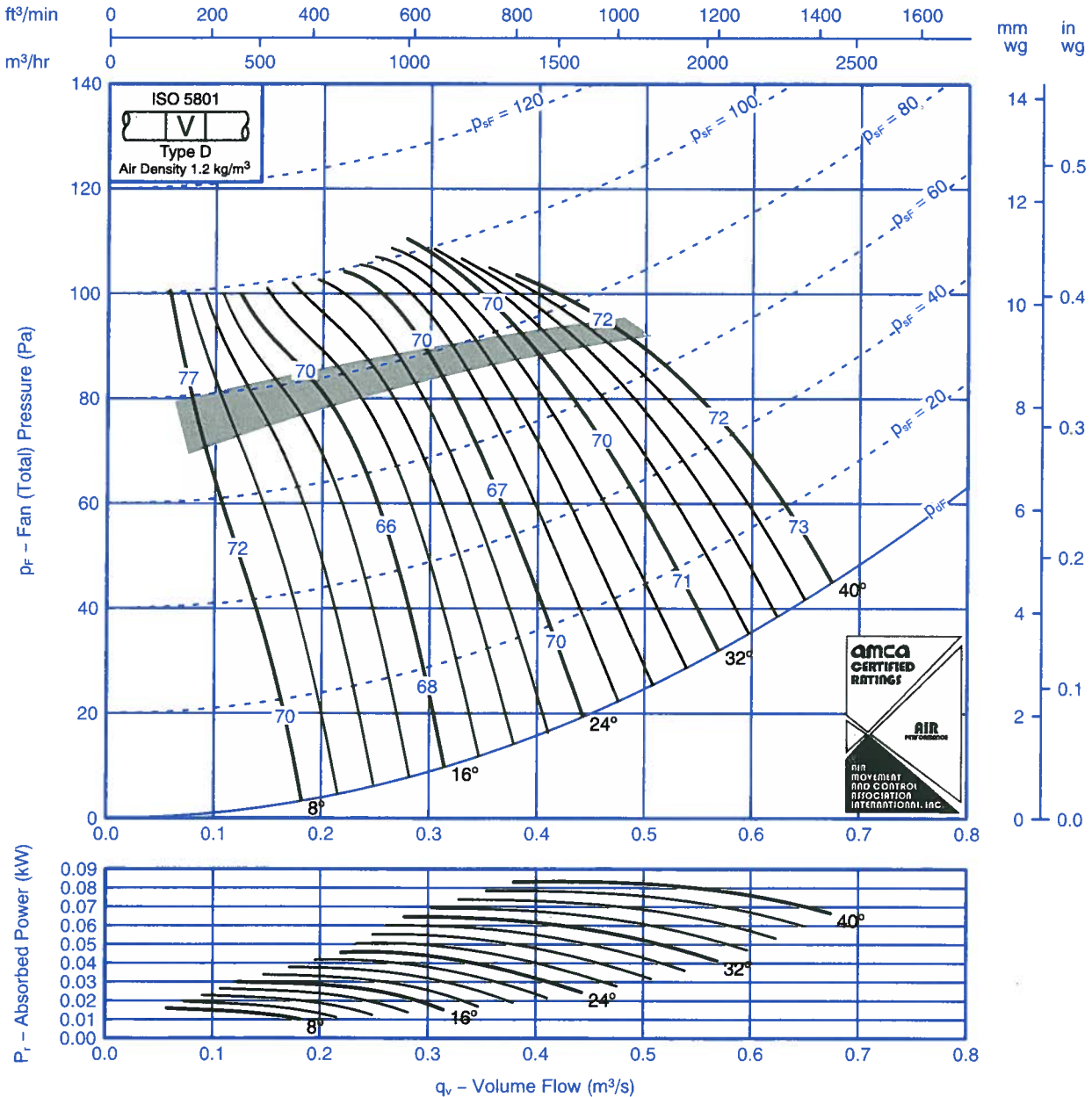
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-4	-5	-6	-14	-21	-27	-33	-40	8	-1	-3	-6	-14	-20	-26	-33	-40
	-8	-9	-3	-8	-15	-22	-30	-38		-5	-8	-3	-8	-15	-21	-28	-36
16	-4	-7	-5	-12	-17	-25	-30	-38	16	-1	-6	-5	-12	-17	-24	-30	-38
	-4	-7	-6	-10	-13	-18	-24	-30		-1	-6	-6	-10	-13	-17	-24	-30
24 – 40	-2	-7	-8	-14	-16	-22	-25	-30	24 – 40	0	-7	-8	-13	-15	-20	-24	-28
	-3	-8	-8	-11	-15	-20	-25	-31		1	-6	-8	-11	-15	-20	-24	-30



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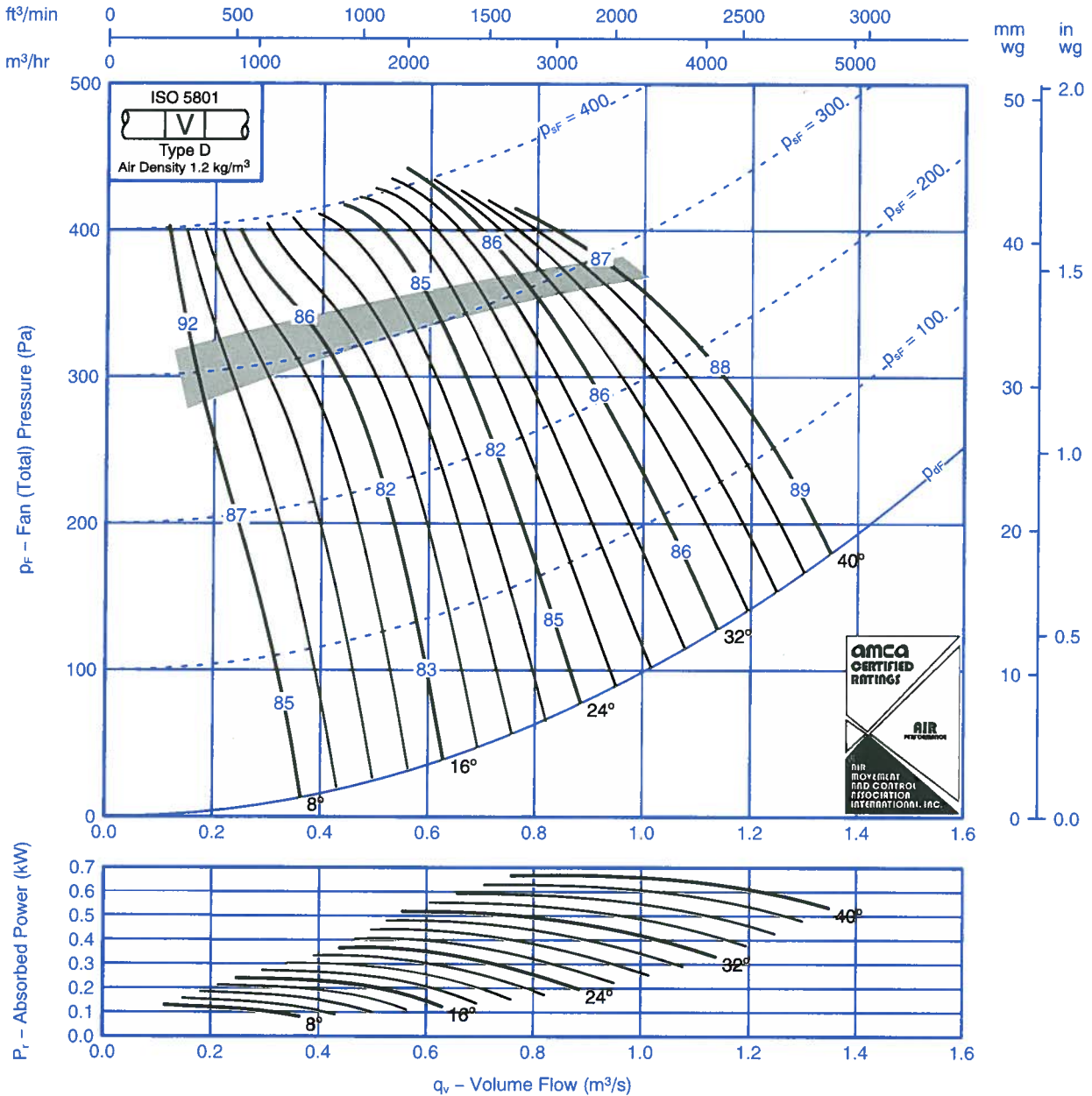
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-7	-5	-5	-8	-17	-23	-30	-36	8	-5	-3	-4	-8	-17	-22	-30	-35
	-12	-8	-8	-3	-11	-17	-25	-32		-11	-5	-8	-3	-11	-17	-23	-30
16	-11	-4	-9	-5	-14	-20	-27	-33	16	-9	-1	-8	-5	-13	-19	-27	-33
	-10	-5	-7	-6	-11	-14	-21	-26		-8	-2	-7	-6	-11	-14	-21	-26
24-40	-3	-6	-9	-11	-16	-20	-25	-29	24-40	-2	-4	-9	-11	-15	-18	-23	-27
	-6	-4	-9	-9	-13	-17	-23	-28		-4	-1	-8	-9	-13	-16	-22	-27

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-7	-6	-5	-9	-17	-24	-30	8	-10	-7	-3	-4	-8	-16	-24	-29
	-16	-13	-8	-8	-3	-11	-17	-25		-14	-12	-6	-8	-3	-11	-16	-23
16	-14	-11	-4	-9	-5	-14	-20	-27	16	-13	-11	-1	-8	-5	-13	-20	-27
	-15	-10	-5	-7	-7	-11	-15	-21		-13	-10	-2	-7	-6	-11	-15	-21
-40	-9	-4	-6	-10	-12	-17	-20	-25	24 - 40	-7	-4	-5	-9	-11	-15	-18	-23
	-9	-7	-5	-10	-10	-14	-18	-23		-7	-6	-1	-9	-10	-13	-16	-22



BS 5750 Pt 1
EN 29001
ISO 9001

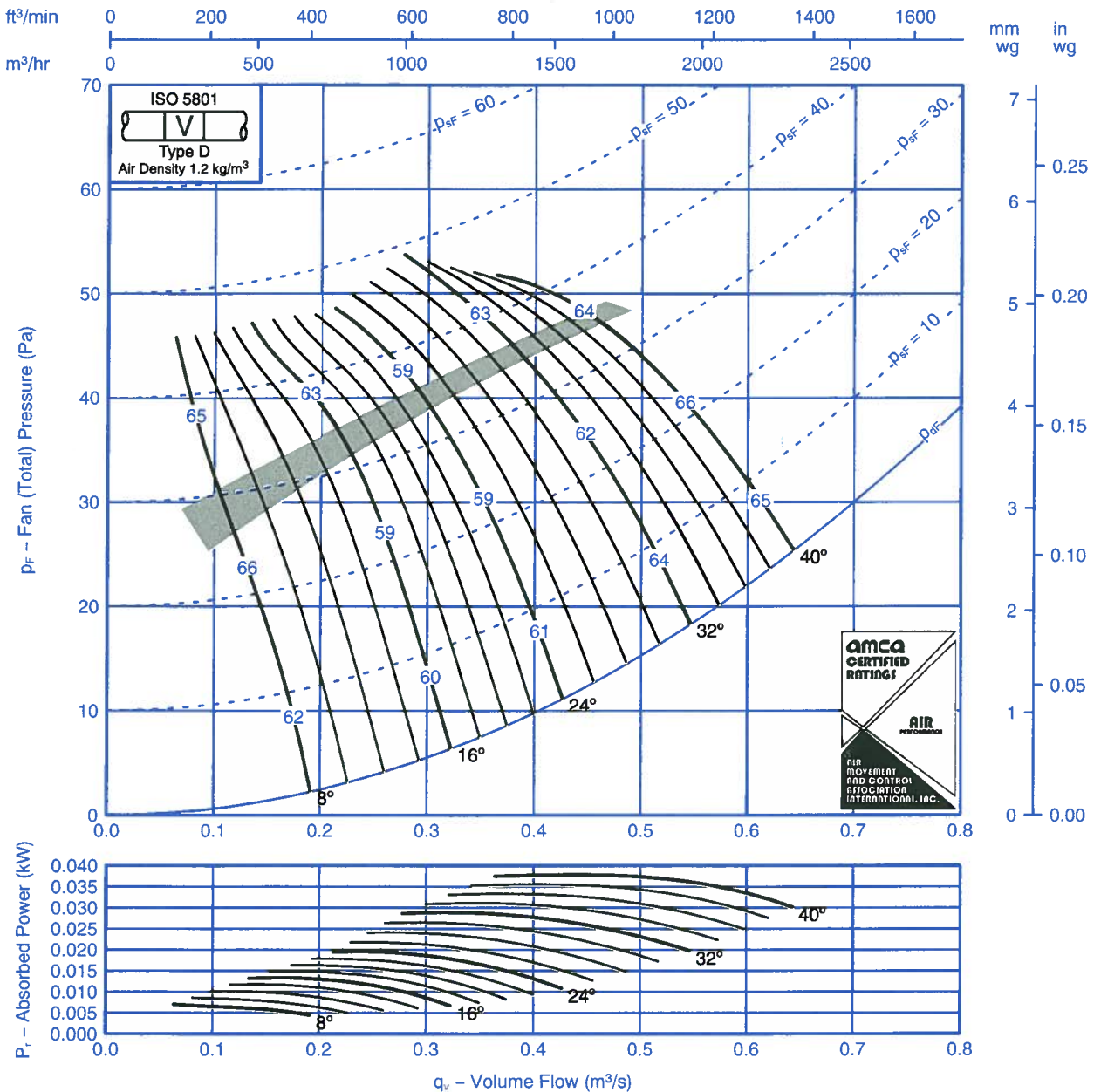
Fan Code: 35JM/16/6/5/...

355 mm 900 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

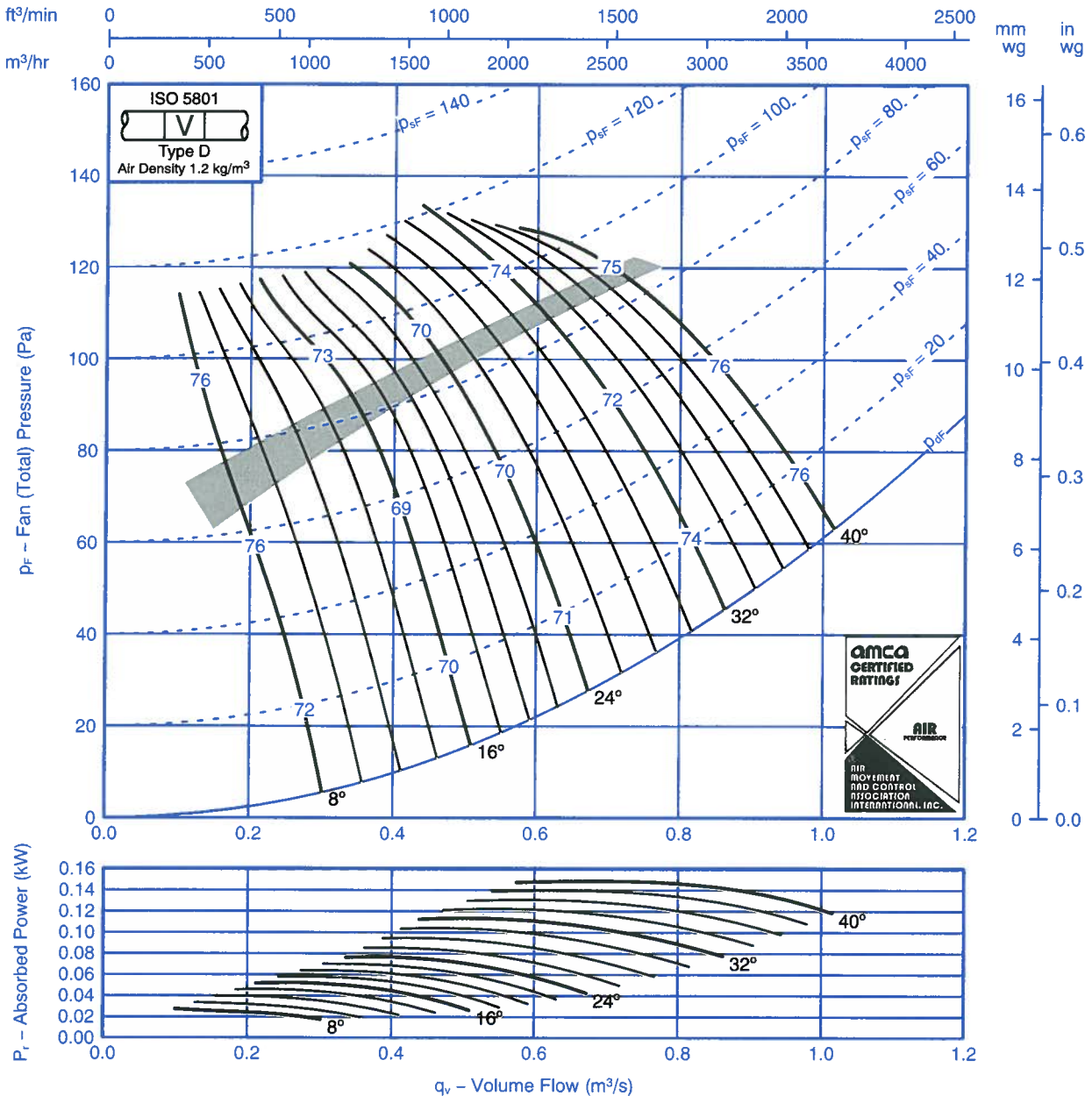
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-6	-6	-4	-10	-18	-25	-32	-41	8	-3	-5	-4	-10	-18	-24	-32	-40
	-10	-9	-3	-7	-14	-19	-28	-35		-8	-8	-3	-7	-14	-19	-27	-33
16	-6	-7	-4	-12	-14	-19	-25	-30	16	-3	-6	-4	-12	-13	-18	-25	-30
	-6	-7	-6	-8	-11	-15	-22	-26		-3	-7	-6	-8	-11	-14	-22	-26
24 - 40	-4	-6	-6	-11	-16	-21	-25	-32	24 - 40	-2	-6	-6	-11	-15	-19	-24	-30
	-4	-7	-6	-11	-14	-18	-25	-30		-1	-6	-6	-11	-14	-18	-24	-29



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-7	-5	-5	-13	-20	-27	-35	8	-6	-5	-4	-5	-13	-20	-27	-35
	-14	-10	-7	-3	-10	-16	-22	-31		-12	-8	-7	-3	-9	-16	-20	-29
16	-12	-6	-6	-5	-13	-15	-21	-27	16	-10	-3	-6	-5	-12	-14	-21	-27
	-10	-6	-7	-6	-9	-12	-17	-24		-9	-3	-6	-6	-9	-12	-17	-24
24 – 40	-5	-6	-7	-8	-14	-18	-23	-28	24 – 40	-3	-5	-7	-7	-13	-17	-21	-26
	-7	-5	-8	-7	-12	-16	-21	-27		-5	-2	-7	-7	-12	-16	-20	-26

JM AEROFOIL



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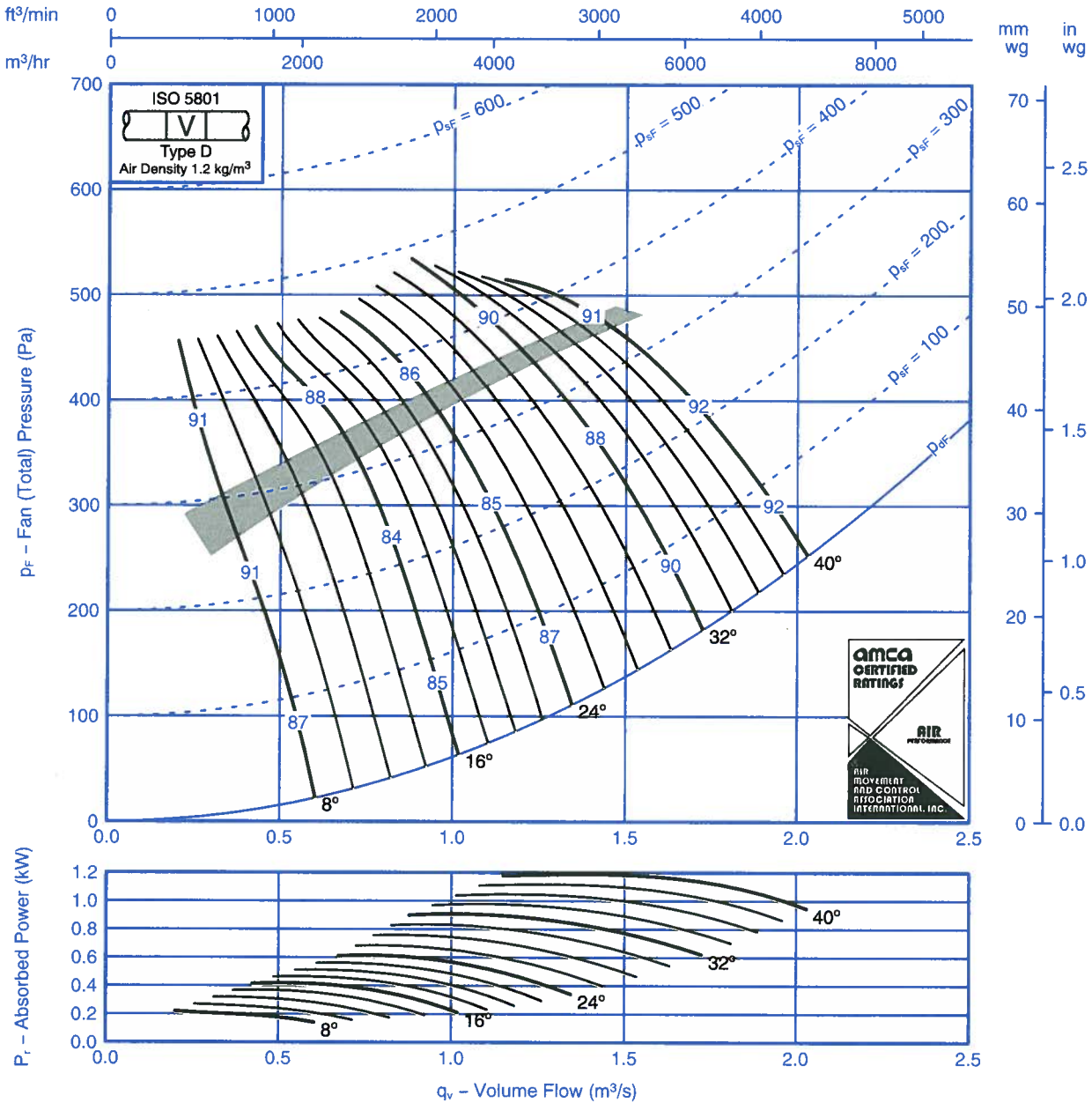
Fan Code: 35JM/16/2/5/...

355 mm 2840 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-9	-7	-5	-6	-13	-21	-28	8	-10	-8	-5	-4	-5	-12	-21	-27
	-17	-14	-10	-7	-3	-10	-16	-22		-15	-14	-8	-7	-3	-9	-15	-20
16	-12	-12	-6	-7	-5	-13	-16	-22	16	-11	-12	-3	-6	-5	-12	-16	-21
	-11	-11	-7	-7	-7	-10	-13	-17		-10	-11	-4	-7	-6	-9	-13	-17
24 – 40	-8	-6	-7	-8	-9	-14	-19	-24	24 40	-6	-5	-6	-7	-8	-13	-17	-22
	-8	-8	-6	-8	-8	-13	-17	-22		-5	-7	-3	-8	-8	-13	-16	-21



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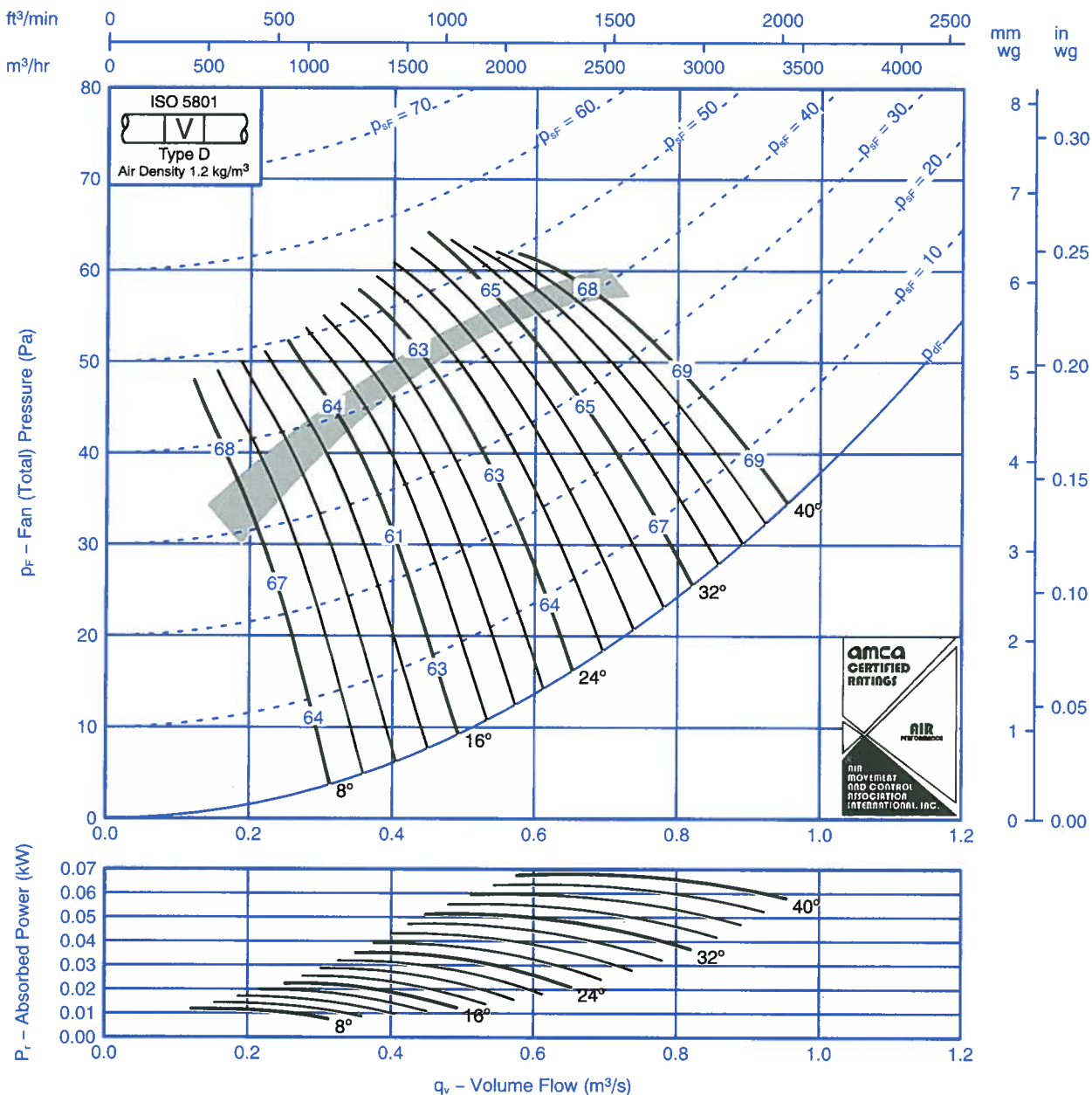
Fan Code: 40JM/16/6/5/...

400 mm 900 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

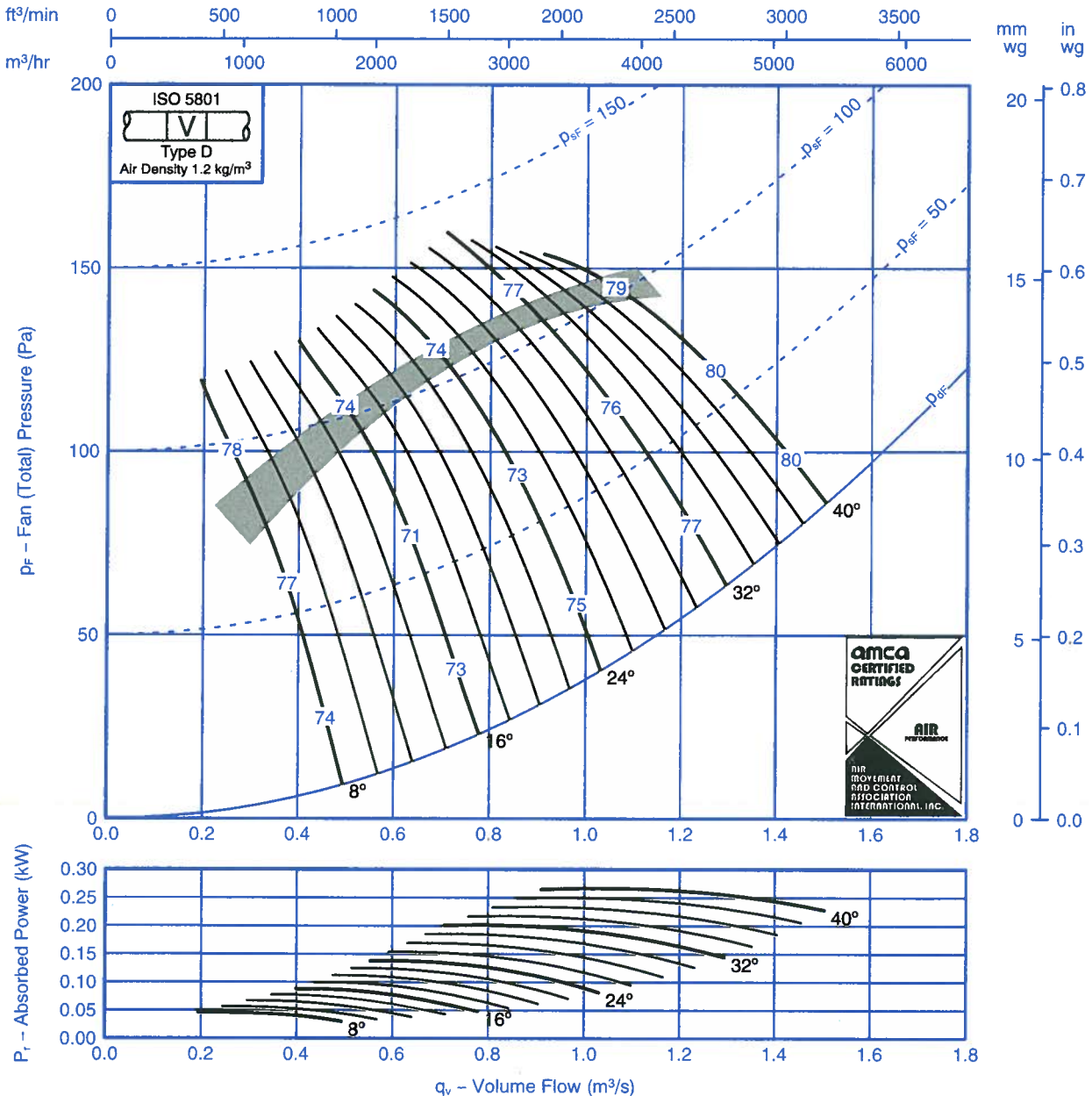
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-6	-7	-4	-8	-15	-22	-30	-38	8	-4	-6	-4	-8	-15	-21	-30	-38
	-9	-9	-5	-5	-11	-16	-24	-31		-6	-8	-5	-5	-11	-16	-23	-29
16	-5	-6	-7	-9	-12	-17	-24	-30	16	-2	-5	-7	-9	-11	-16	-24	-30
	-4	-7	-8	-9	-11	-14	-20	-24		-1	-6	-8	-9	-11	-13	-20	-24
24 - 40	-3	-7	-8	-11	-14	-18	-23	-28	24 - 40	-1	-6	-8	-10	-13	-16	-21	-26
	-3	-7	-8	-11	-14	-17	-23	-28		0	-6	-8	-11	-14	-17	-22	-27



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

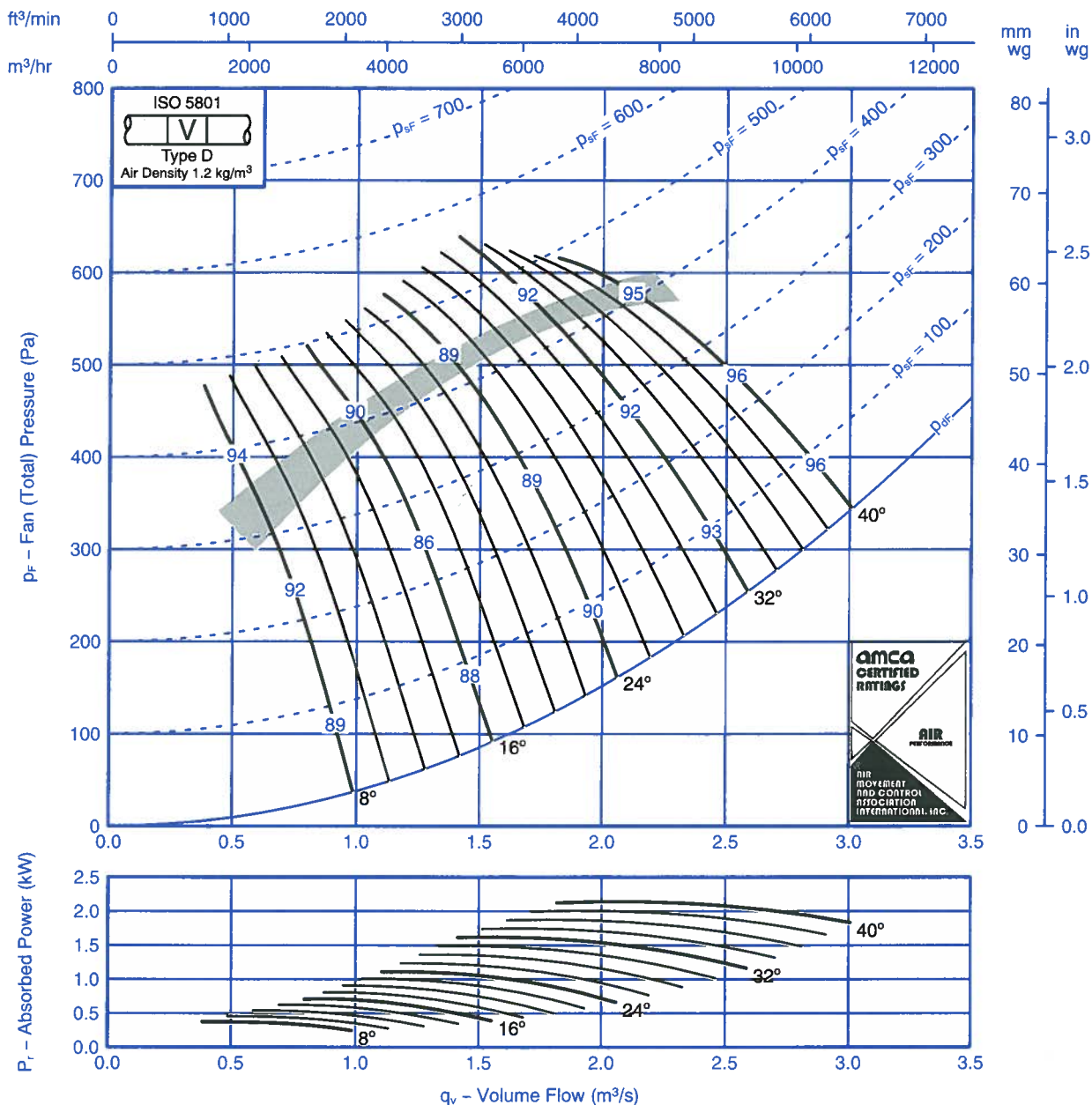
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-7	-6	-5	-11	-18	-25	-33	8	-7	-5	-5	-5	-11	-17	-25	-32
	-13	-9	-7	-4	-8	-13	-19	-26		-11	-6	-7	-4	-8	-13	-17	-24
16	-10	-4	-7	-7	-11	-14	-20	-26	16	-8	-2	-7	-7	-10	-13	-20	-26
	-10	-5	-7	-8	-10	-12	-16	-22		-8	-2	-7	-8	-9	-12	-16	-22
24 – 40	-4	-6	-8	-9	-14	-17	-21	-26	24 – 40	-3	-4	-8	-9	-13	-15	-19	-24
	-6	-5	-8	-9	-12	-15	-20	-26		-4	-2	-7	-9	-12	-15	-19	-25



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



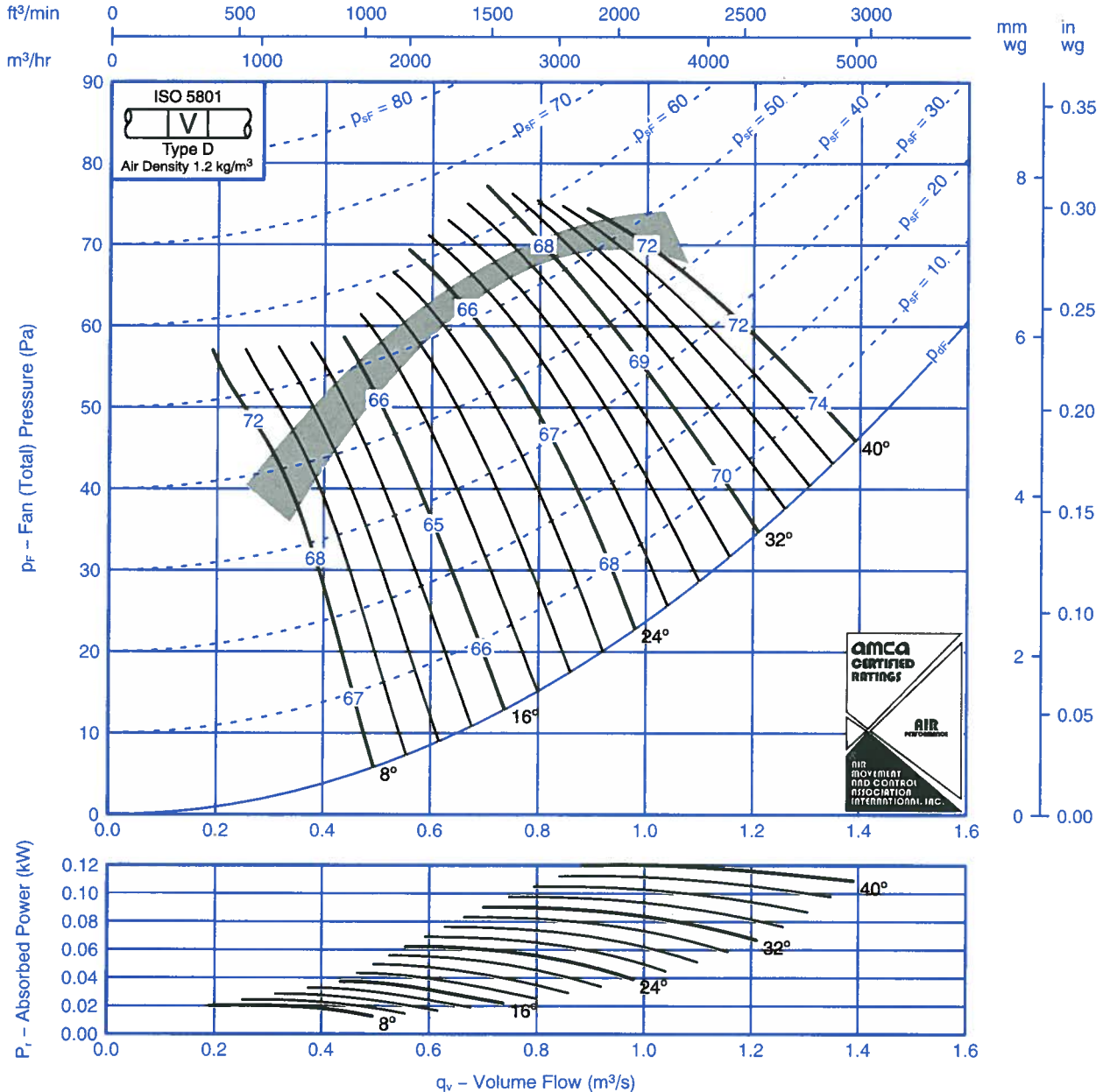
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-10	-8	-7	-5	-12	-19	-26	8	-11	-9	-5	-5	-5	-10	-19	-25
	-16	-14	-9	-8	-5	-8	-14	-19		-14	-13	-6	-7	-4	-7	-12	-17
16	-12	-11	-5	-8	-8	-11	-15	-21	16	-10	-10	-2	-7	-6	-10	-14	-20
	-12	-11	-5	-8	-9	-10	-13	-17		-10	-10	-2	-7	-8	-10	-12	-16
24 - 40	-8	-5	-7	-9	-11	-15	-18	-22	24 - 40	-6	-5	-5	-8	-9	-13	-16	-20
	-8	-7	-6	-9	-10	-13	-17	-21		-6	-7	-2	-8	-10	-13	-15	-20

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

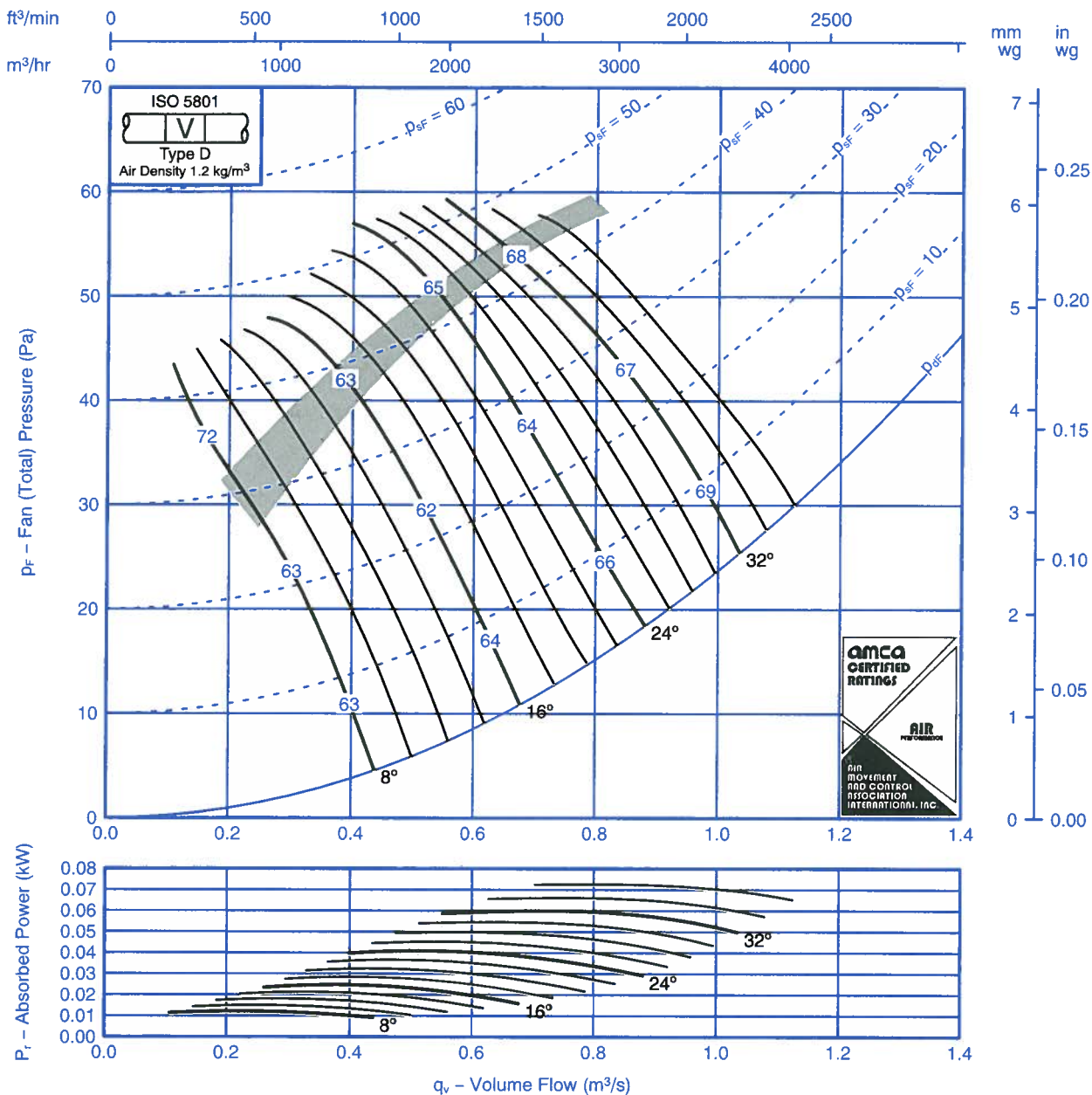
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-6	-8	-4	-7	-13	-20	-28	-36	8	-4	-8	-4	-7	-13	-20	-27	-34
	-7	-9	-8	-5	-9	-14	-20	-26		-6	-9	-8	-5	-9	-13	-20	-25
16	-4	-7	-8	-8	-11	-16	-23	-30	16	-4	-7	-8	-8	-11	-16	-22	-28
	-3	-7	-10	-10	-11	-14	-19	-22		-2	-8	-10	-10	-11	-14	-18	-20
24 – 40	-3	-7	-11	-11	-14	-16	-21	-24	24 – 40	-2	-7	-11	-11	-14	-16	-21	-23
	-3	-7	-10	-11	-14	-16	-22	-27		-2	-7	-10	-11	-14	-16	-21	-25



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



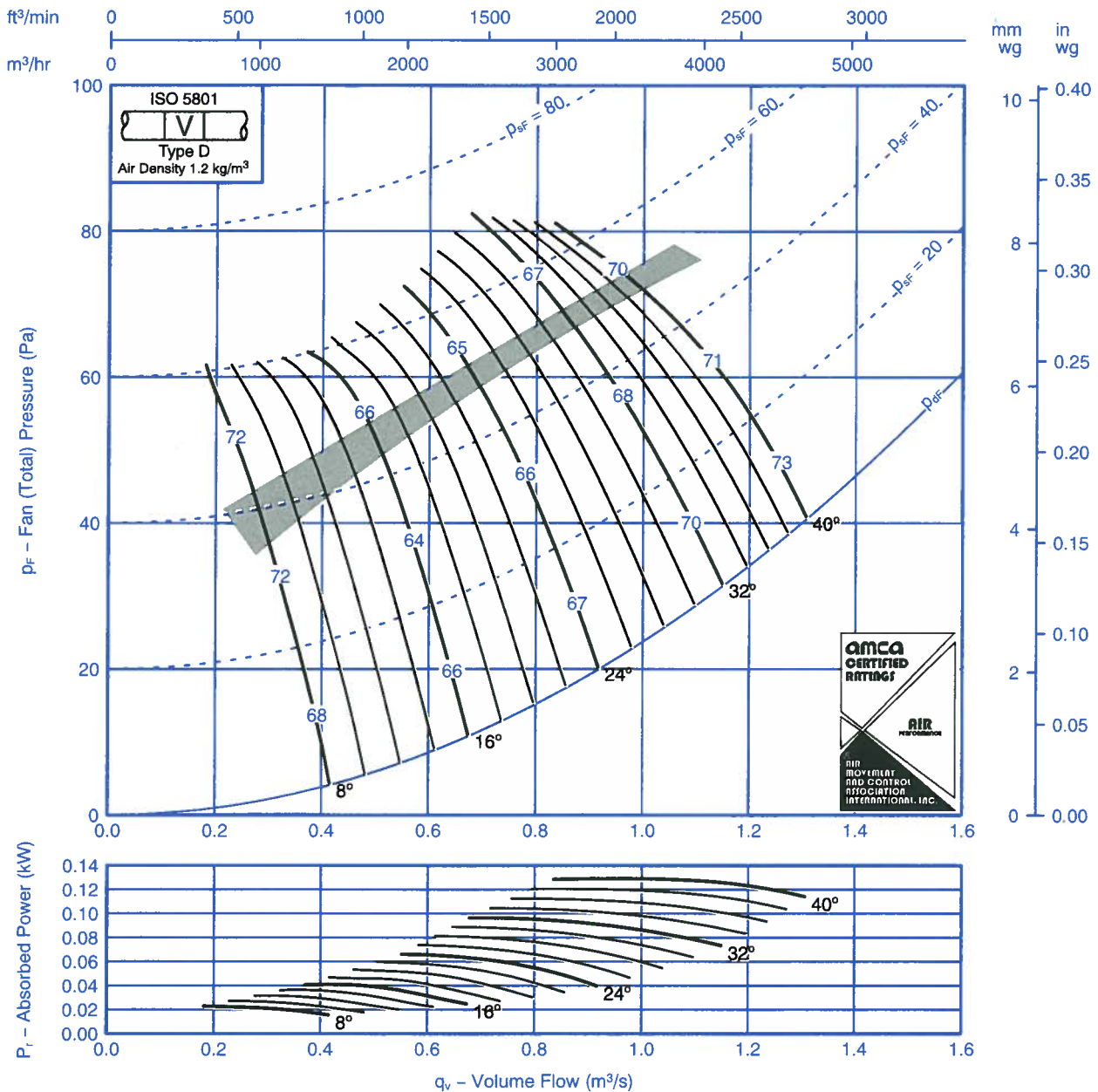
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								Outlet Levels									
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-9	-3	-5	-14	-23	-32	-42	8	-13	-9	-3	-5	-13	-22	-31	-40
	-10	-8	-5	-6	-11	-14	-20	-24		-7	-8	-5	-6	-11	-13	-18	-22
16	-8	-6	-4	-9	-14	-17	-23	-28	16	-7	-5	-4	-9	-13	-17	-22	-27
	-6	-7	-5	-8	-12	-16	-22	-27		-4	-7	-5	-8	-12	-15	-22	-26
24 – 36	-5	-5	-8	-10	-13	-17	-21	-25	24 – 36	-3	-5	-8	-10	-13	-16	-19	-22
	-4	-6	-7	-10	-13	-17	-24	-29		-2	-5	-7	-10	-13	-16	-23	-27

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

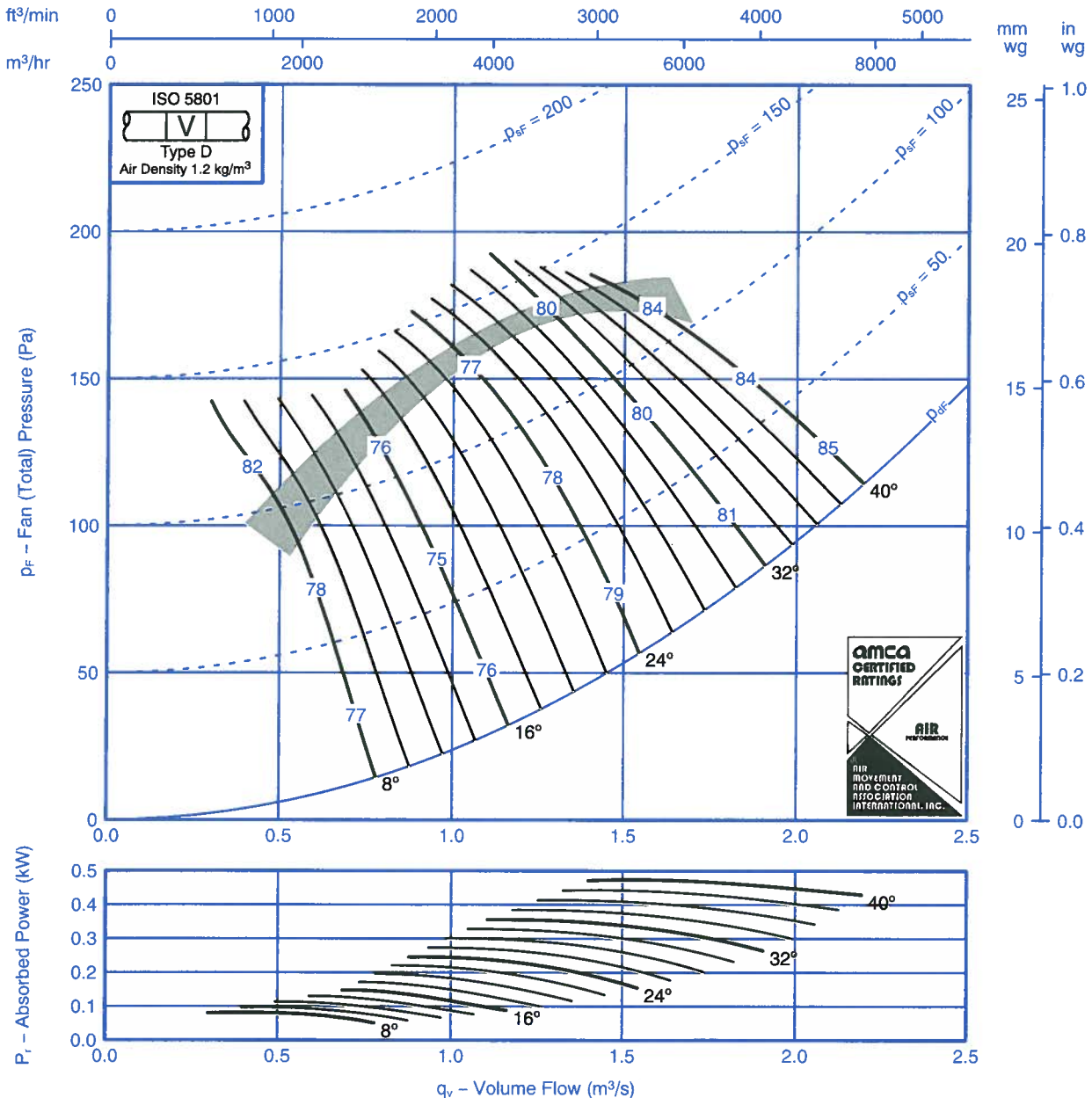
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-10	-3	-5	-13	-22	-32	-42	8	-11	-8	-3	-5	-13	-21	-32	-41
	-15	-10	-5	-4	-10	-15	-24	-31		-14	-8	-5	-4	-10	-15	-23	-29
16	-10	-6	-4	-8	-11	-16	-24	-29	16	-9	-5	-4	-8	-11	-15	-24	-29
	-11	-6	-5	-7	-10	-13	-20	-24		-10	-5	-5	-7	-10	-13	-20	-23
24 - 40	-6	-6	-5	-9	-13	-16	-21	-26	24 - 40	-5	-5	-5	-9	-12	-15	-20	-25
	-7	-6	-6	-8	-12	-15	-23	-28		-5	-4	-6	-8	-12	-15	-22	-27



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-7	-8	-4	-9	-16	-23	-31	8	-10	-5	-7	-4	-9	-16	-22	-29
	-13	-7	-9	-5	-6	-11	-16	-22		-13	-6	-9	-5	-6	-9	-16	-21
16	-9	-4	-9	-7	-9	-13	-19	-26	16	-8	-4	-9	-7	-9	-13	-18	-24
	-10	-3	-9	-10	-11	-12	-16	-20		-10	-3	-9	-10	-11	-12	-15	-18
24 – 40	-4	-5	-9	-11	-15	-16	-20	-24	24 – 40	-3	-5	-9	-11	-15	-16	-19	-23
	-6	-4	-8	-11	-13	-15	-20	-25		-5	-4	-8	-11	-13	-15	-19	-23



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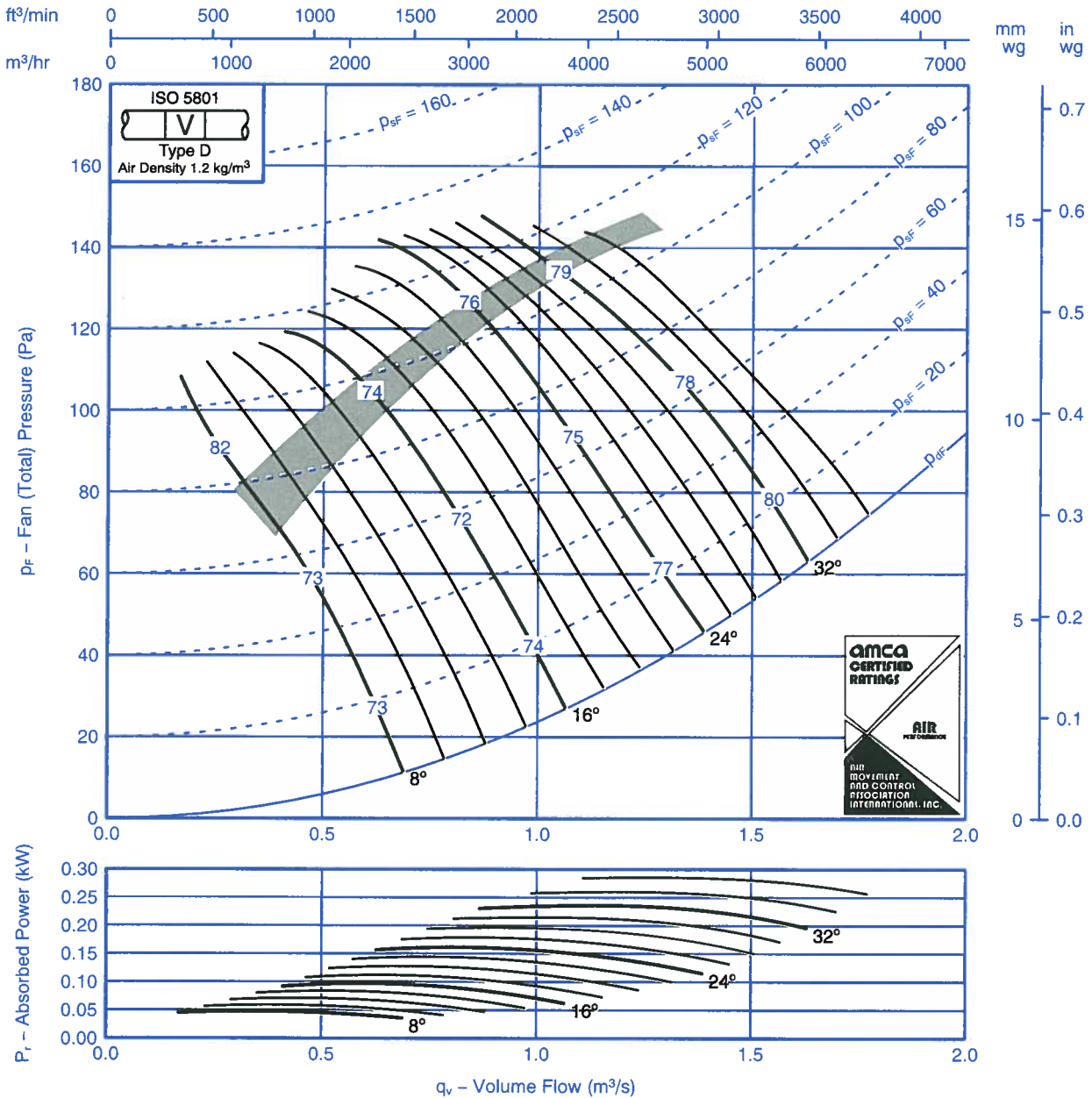
Fan Code: 45JM/20/4/3/...

450 mm 1420 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-15	-6	-3	-8	-17	-25	-36	8	-13	-14	-6	-3	-8	-16	-24	-33
	-10	-11	-6	-6	-7	-12	-15	-21		-8	-11	-6	-6	-7	-12	-13	-19
16	-8	-7	-5	-7	-12	-16	-20	-26	16	-6	-6	-5	-7	-12	-15	-19	-25
	-6	-8	-6	-7	-10	-14	-17	-24		-4	-8	-6	-7	-10	-14	-17	-23
24 – 36	-4	-7	-6	-10	-12	-16	-19	-23	24 – 36	-3	-7	-6	-10	-12	-15	-17	-21
	-4	-9	-6	-9	-11	-15	-20	-26		-1	-9	-6	-9	-11	-15	-18	-24



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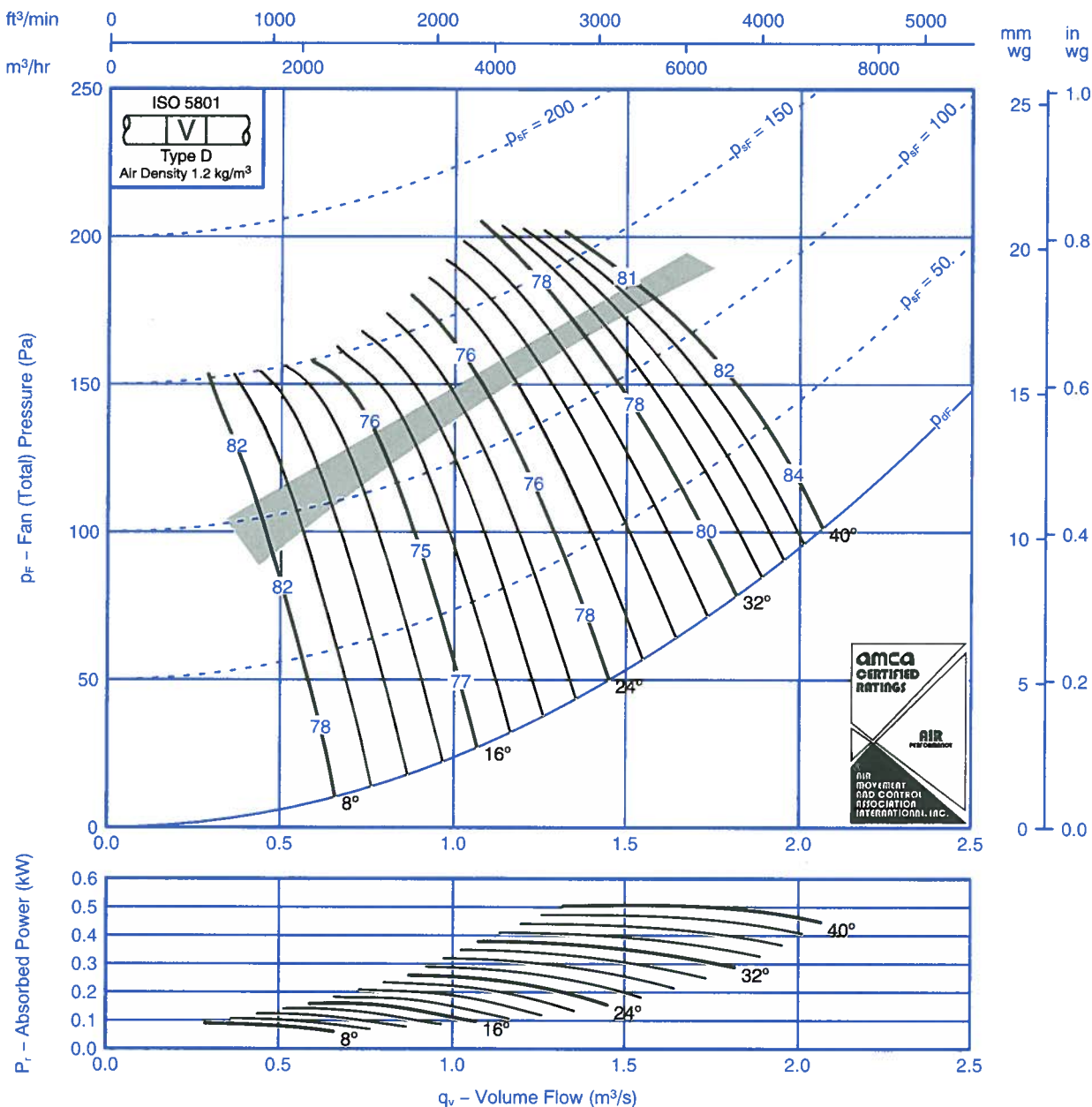
Fan Code: 45JM/20/4/6/...

450 mm 1420 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-12	-6	-4	-7	-17	-24	-36	8	-15	-10	-6	-4	-7	-16	-24	-34
	-19	-13	-6	-5	-5	-13	-17	-26		-17	-11	-6	-5	-5	-12	-16	-25
16	-14	-6	-4	-8	-9	-13	-18	-26	16	-13	-5	-4	-8	-9	-13	-18	-25
	-15	-7	-5	-7	-8	-12	-14	-22		-14	-5	-5	-7	-8	-12	-14	-21
24 - 40	-7	-6	-6	-9	-11	-15	-19	-24	24 - 40	-5	-5	-6	-9	-10	-14	-17	-22
	-9	-6	-6	-9	-9	-14	-17	-25		-6	-3	-6	-9	-9	-14	-16	-24



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ISO 9001

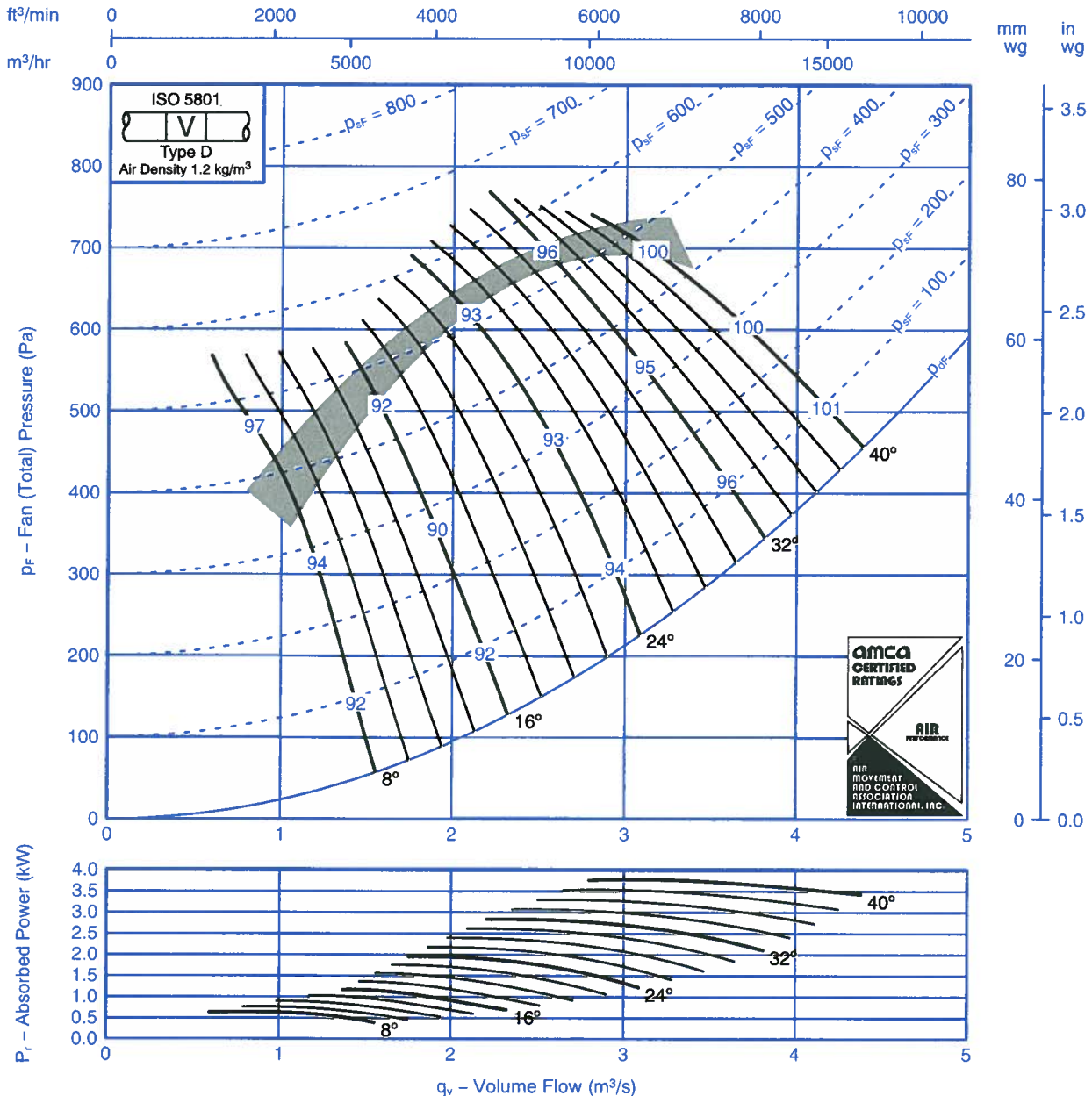
Fan Code: 45JM/16/2/5/...

450 mm 2840 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

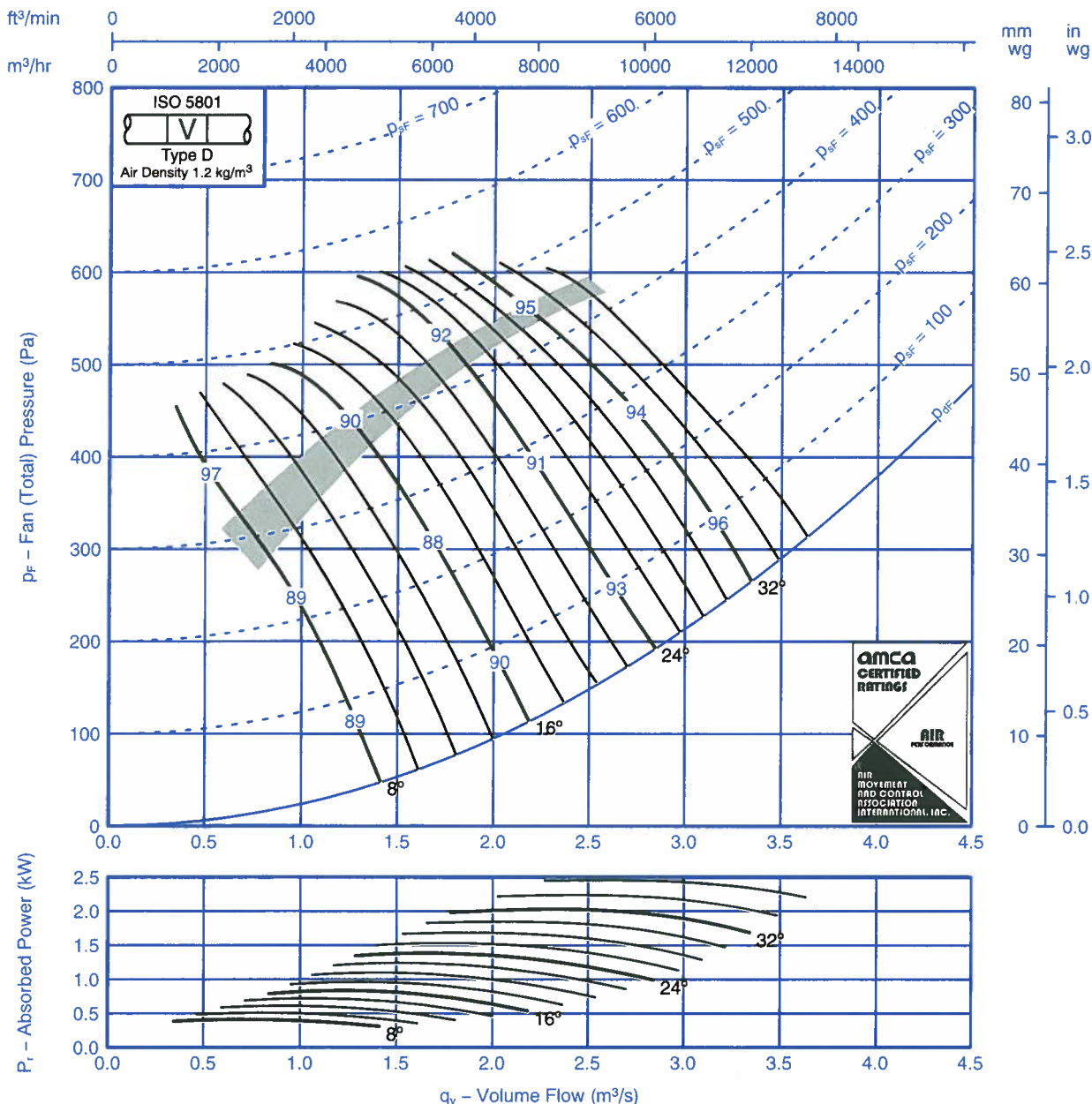
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-11	-7	-8	-5	-10	-17	-24	8	-14	-11	-5	-7	-4	-9	-15	-21
	-15	-14	-8	-9	-6	-7	-11	-16		-15	-14	-6	-9	-6	-5	-10	-15
16	-12	-9	-5	-9	-8	-9	-13	-19	16	-11	-9	-5	-9	-8	-9	-12	-18
	-13	-10	-3	-9	-11	-11	-13	-16		-12	-10	-3	-9	-10	-11	-12	-14
24 – 40	-8	-5	-6	-10	-12	-15	-17	-20	24 – 40	-7	-5	-6	-9	-12	-15	-16	-19
	-9	-6	-5	-9	-12	-14	-16	-21		-8	-6	-5	-9	-11	-14	-15	-19



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-19	-16	-15	-6	-4	-8	-18	-26	8	-16	-14	-14	-6	-3	-7	-16	-23
	-16	-10	-11	-6	-6	-7	-13	-15		-14	-8	-11	-6	-6	-6	-11	-13
16	-10	-8	-7	-5	-8	-12	-16	-20	16	-8	-6	-7	-5	-7	-12	-15	-19
	-12	-7	-9	-6	-8	-10	-15	-18		-11	-4	-8	-6	-8	-10	-14	-17
24-36	-8	-5	-8	-7	-11	-13	-17	-20	24-36	-7	-4	-8	-7	-11	-12	-15	-17
	-10	-4	-10	-7	-10	-12	-16	-20		-8	-2	-9	-7	-10	-11	-15	-18



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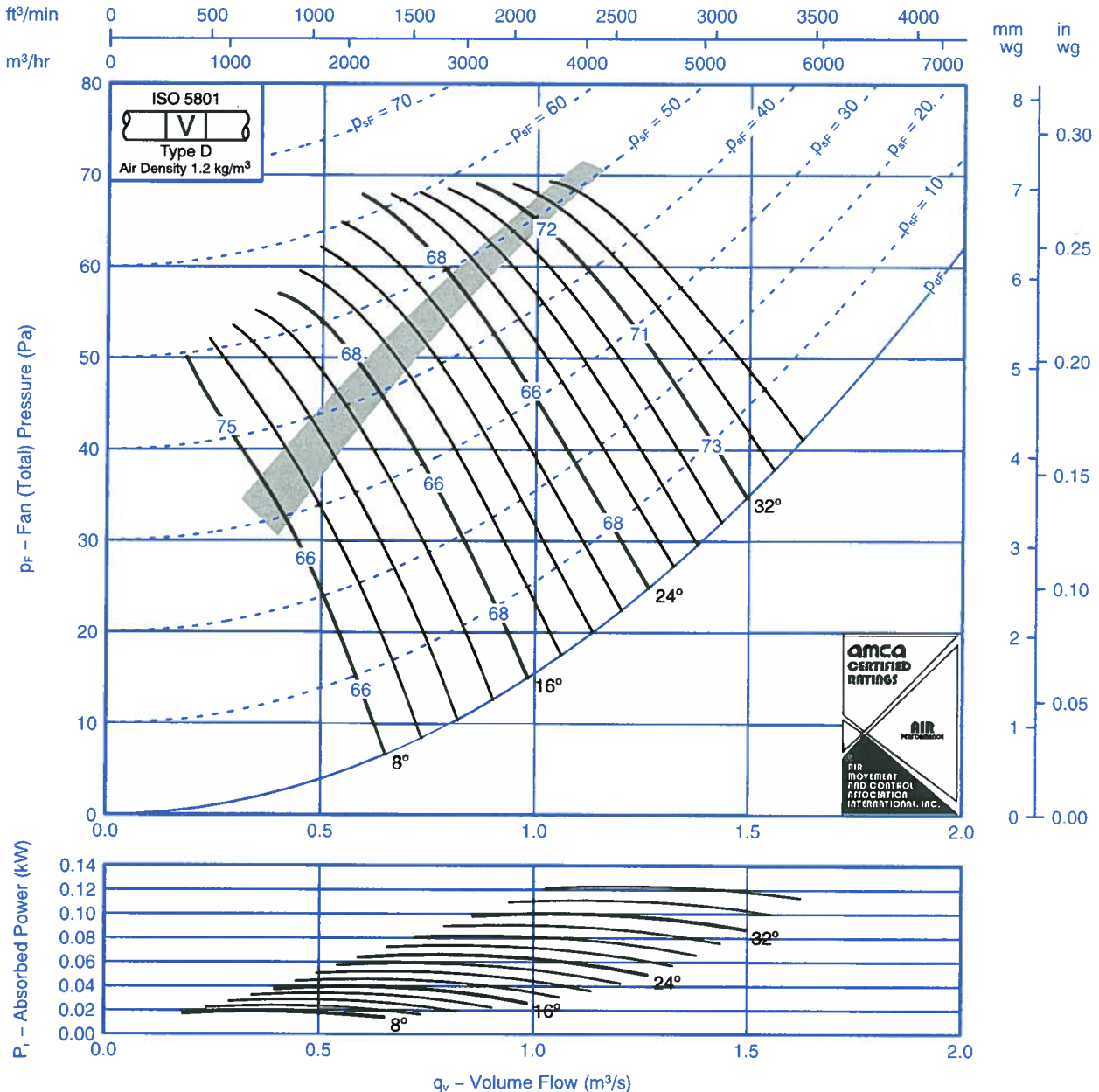
Fan Code: 50JM/20/6/3/...

500 mm 915 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-10	-4	-4	-13	-21	-30	-41	8	-13	-9	-4	-4	-13	-21	-29	-39
	-8	-7	-6	-6	-11	-13	-18	-23		-5	-7	-6	-6	-11	-13	-16	-20
16	-8	-5	-5	-9	-14	-18	-22	-27	16	-6	-5	-5	-9	-14	-17	-21	-26
	-5	-6	-6	-9	-13	-17	-22	-26		-3	-6	-6	-9	-13	-16	-21	-25
24 - 36	-5	-5	-8	-9	-13	-17	-20	-25	24 - 36	-3	-5	-8	-9	-13	-15	-18	-22
	-4	-6	-8	-10	-14	-18	-23	-28		-1	-6	-8	-10	-14	-17	-22	-26



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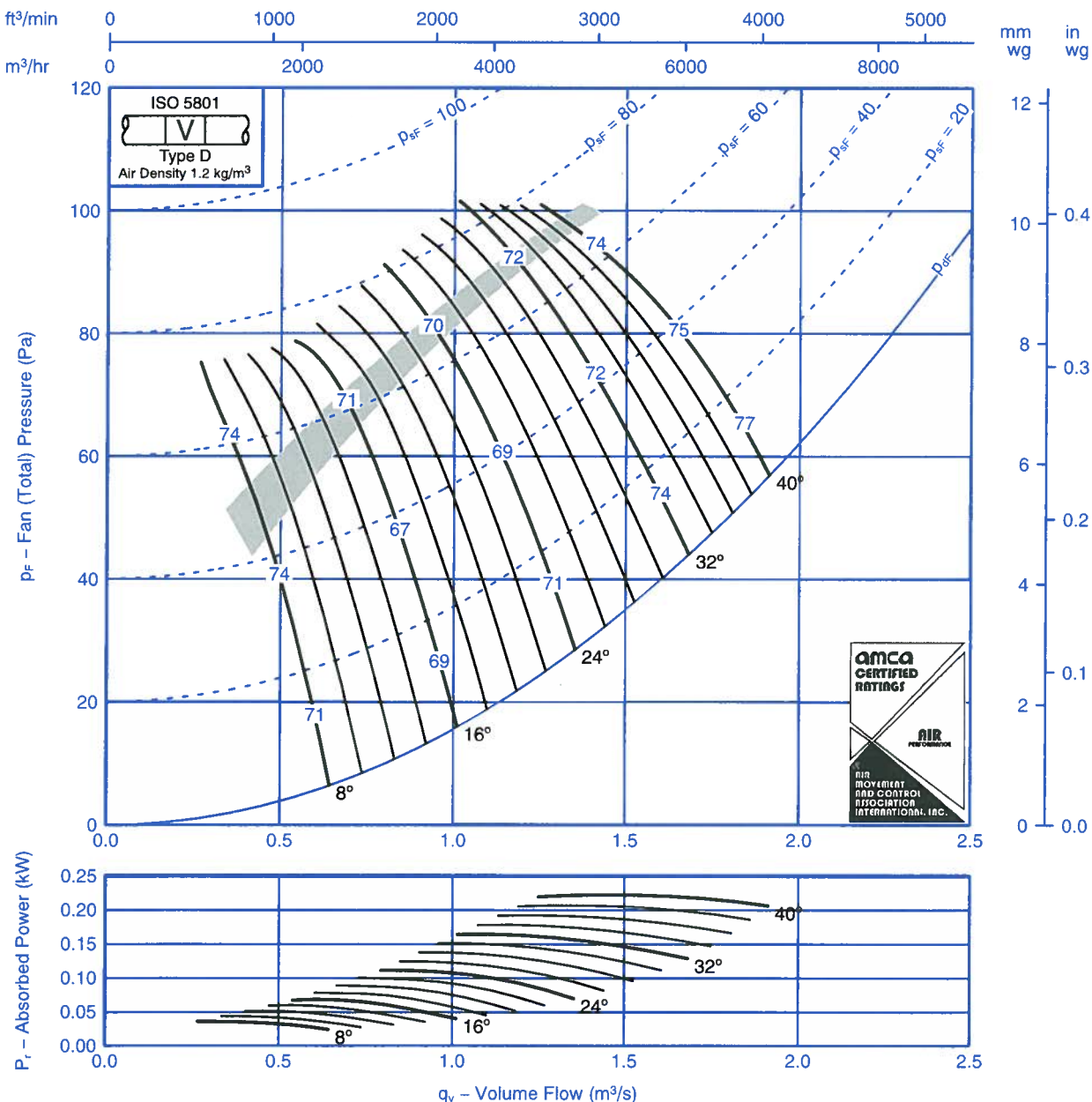
Fan Code: 50JM/20/6/6/...

500 mm 915 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



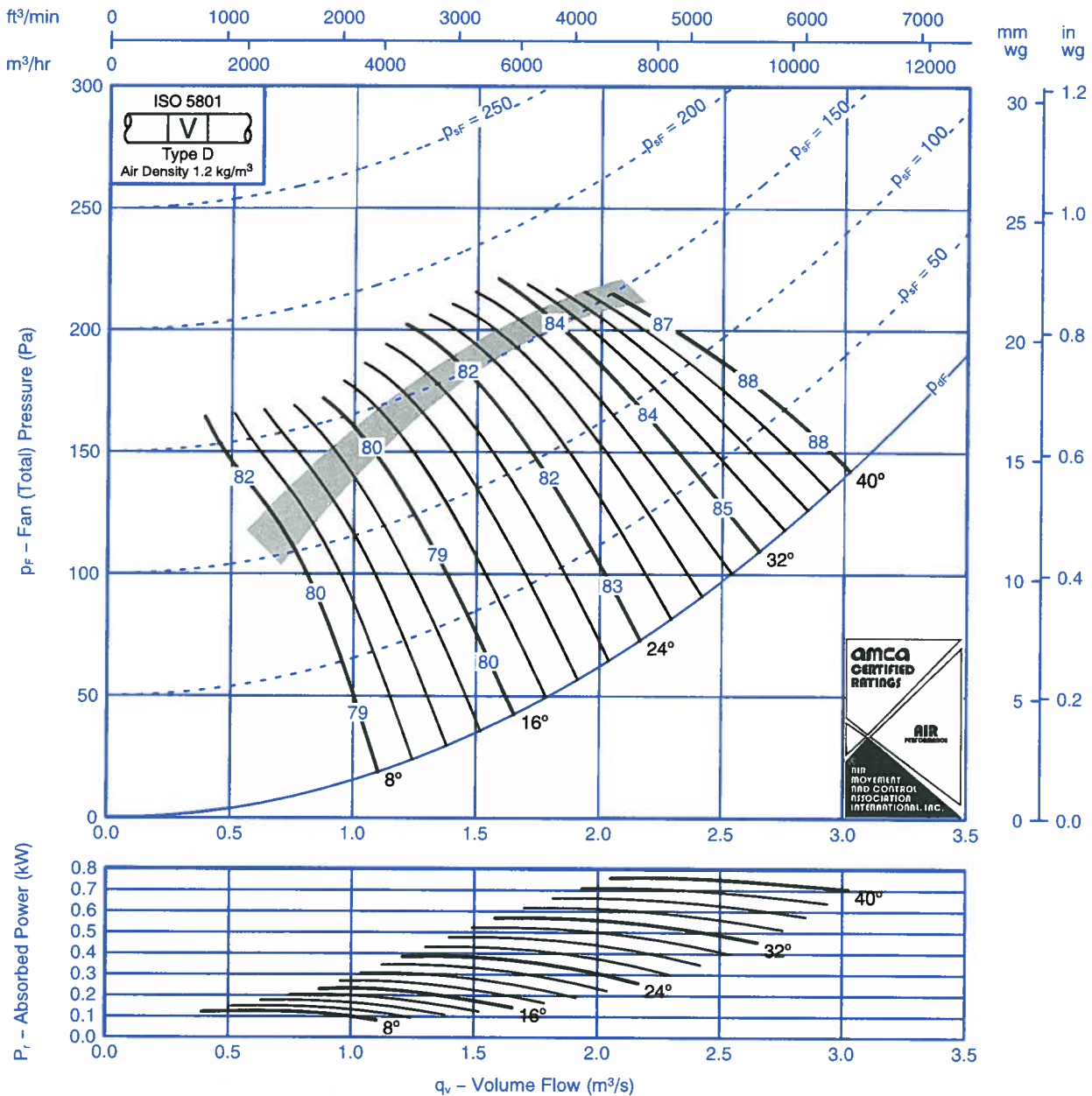
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-10	-5	-3	-11	-20	-30	-40	8	-14	-9	-5	-3	-11	-19	-29	-38
	-16	-9	-6	-4	-9	-15	-22	-29		-15	-7	-6	-4	-9	-14	-20	-27
16	-11	-6	-4	-7	-12	-16	-24	-30	16	-10	-4	-4	-7	-11	-15	-23	-29
	-11	-5	-5	-7	-11	-14	-19	-24		-9	-4	-5	-7	-11	-14	-19	-23
24 - 40	-6	-6	-6	-9	-12	-16	-19	-24	24 - 40	-5	-4	-6	-9	-12	-15	-18	-22
	-6	-5	-7	-9	-13	-16	-22	-26		-4	-3	-7	-9	-13	-15	-20	-25

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-9	-8	-3	-8	-14	-22	-29	8	-12	-7	-8	-3	-8	-14	-21	-27
	-15	-7	-10	-6	-6	-10	-15	-21		-15	-6	-9	-6	-6	-8	-14	-19
16	-12	-7	-10	-4	-8	-12	-18	-25	16	-11	-7	-10	-4	-8	-12	-18	-23
	-11	-3	-9	-9	-11	-12	-16	-19		-11	-3	-9	-9	-11	-12	-15	-18
24 – 40	-5	-5	-9	-10	-13	-14	-18	-21	24 – 40	-4	-4	-9	-10	-13	-14	-17	-20
	-6	-4	-9	-10	-13	-15	-19	-24		-6	-3	-9	-10	-13	-15	-18	-22



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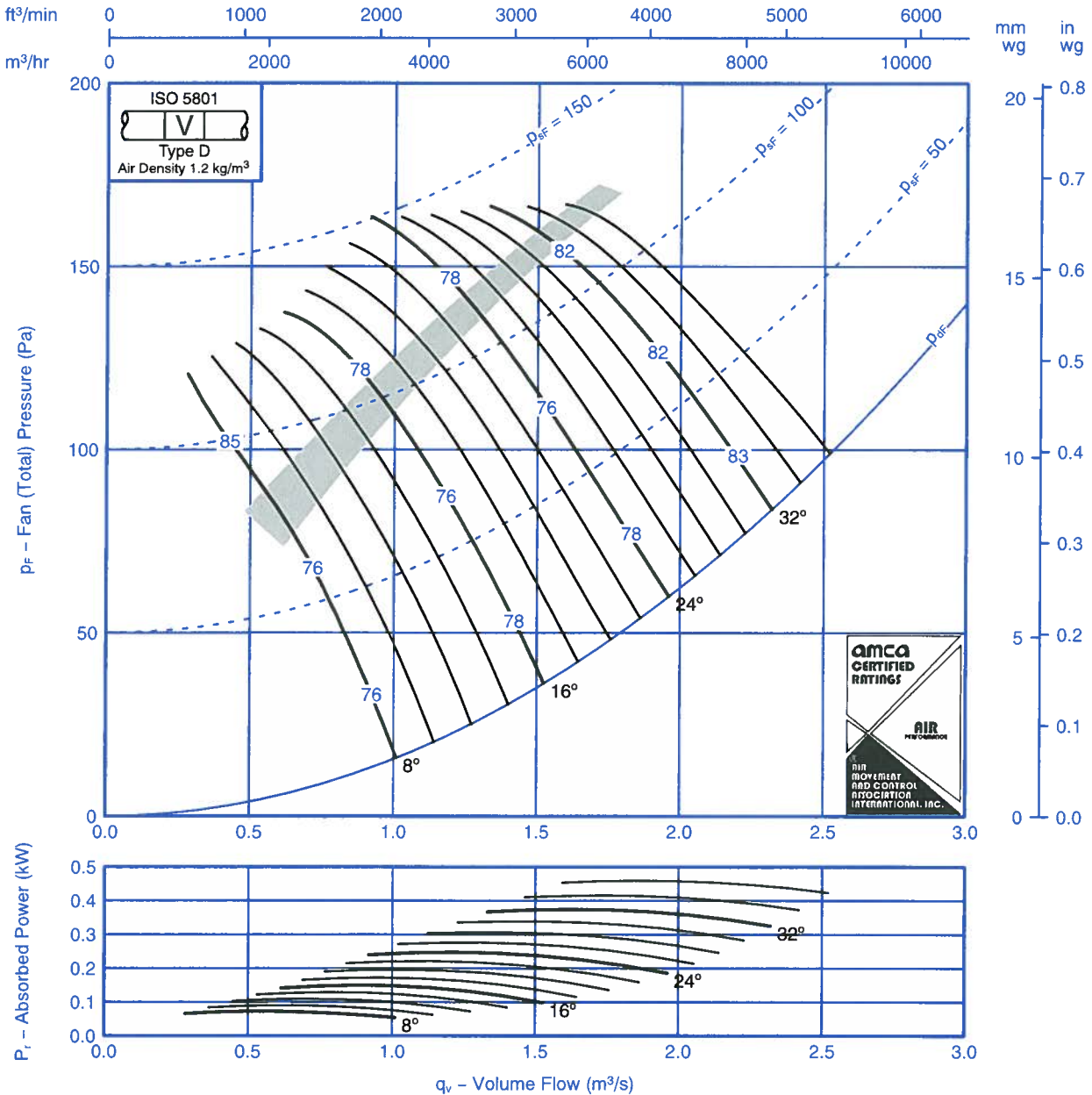
Fan Code: 50JM/20/4/3/...

500 mm 1420 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

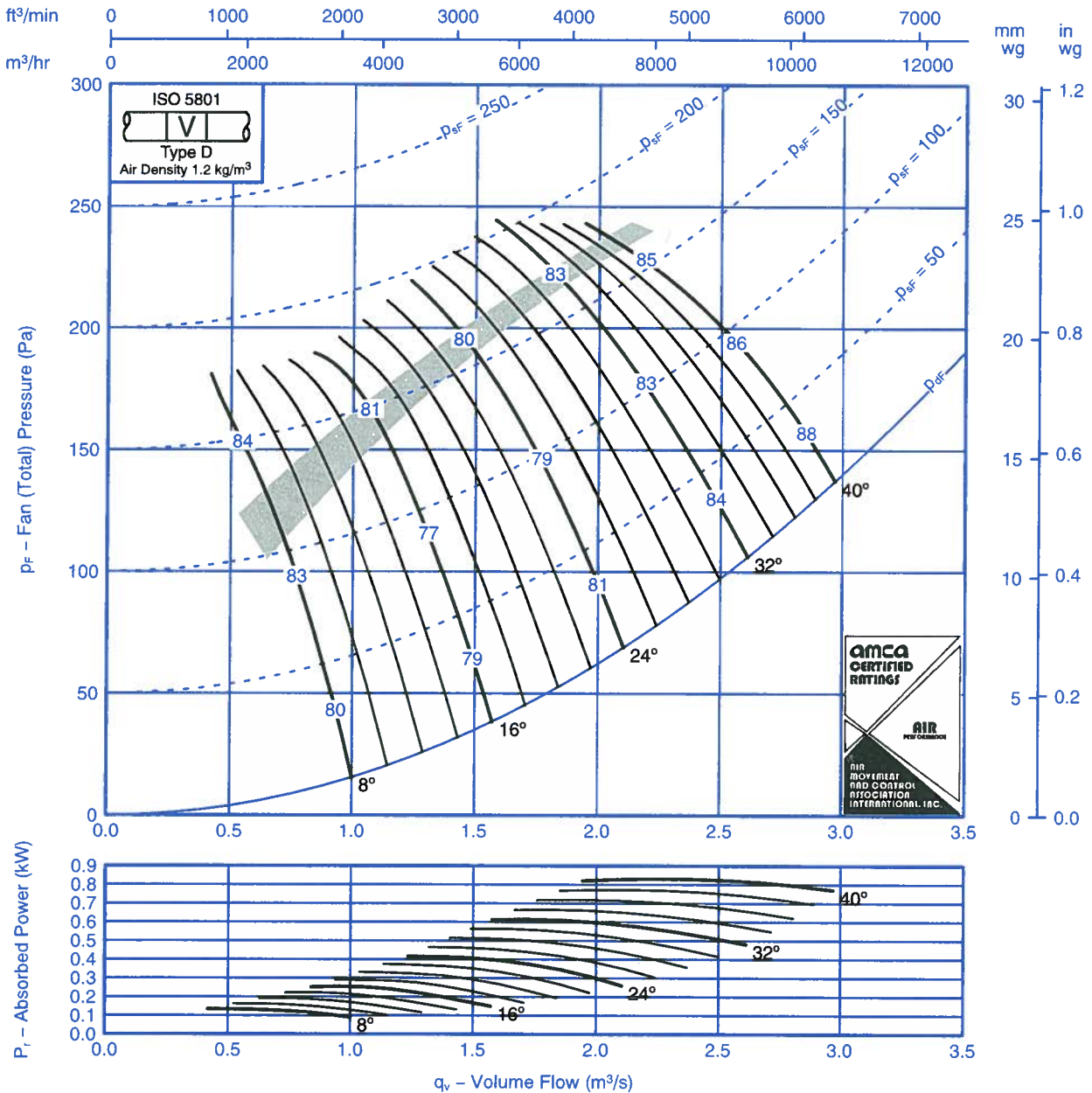
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16 -8	-15 -10	-7 -6	-3 -6	-6 -7	-16 -12	-24 -15	-34 -20	8	-13 -6	-14 -10	-7 -6	-3 -6	-6 -7	-15 -12	-23 -13	-32 -18
16	-8 -5	-7 -8	-5 -6	-7 -8	-11 -11	-16 -15	-19 -18	-25 -24	16	-6 -3	-7 -8	-5 -6	-7 -8	-11 -11	-15 -15	-18 -17	-24 -23
24 – 36	-5 -4	-8 -9	-6 -6	-10 -9	-11 -12	-15 -16	-18 -20	-23 -26	24 – 36	-3 -1	-7 -8	-6 -6	-9 -9	-10 -12	-14 -16	-17 -19	-20 -24



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-12	-8	-3	-6	-14	-23	-34	8	-17	-10	-8	-3	-5	-13	-22	-32
	-19	-12	-7	-5	-5	-12	-16	-24		-18	-10	-7	-5	-5	-11	-15	-23
16	-15	-6	-5	-7	-9	-13	-18	-26	16	-14	-5	-5	-7	-8	-13	-18	-25
	-14	-6	-6	-7	-8	-13	-15	-21		-13	-4	-6	-7	-8	-13	-15	-20
24 - 40	-7	-5	-7	-9	-11	-14	-18	-22	24 - 36	-5	-4	-7	-9	-10	-13	-16	-21
	-7	-5	-8	-9	-11	-15	-18	-24		-5	-3	-7	-9	-11	-15	-17	-23



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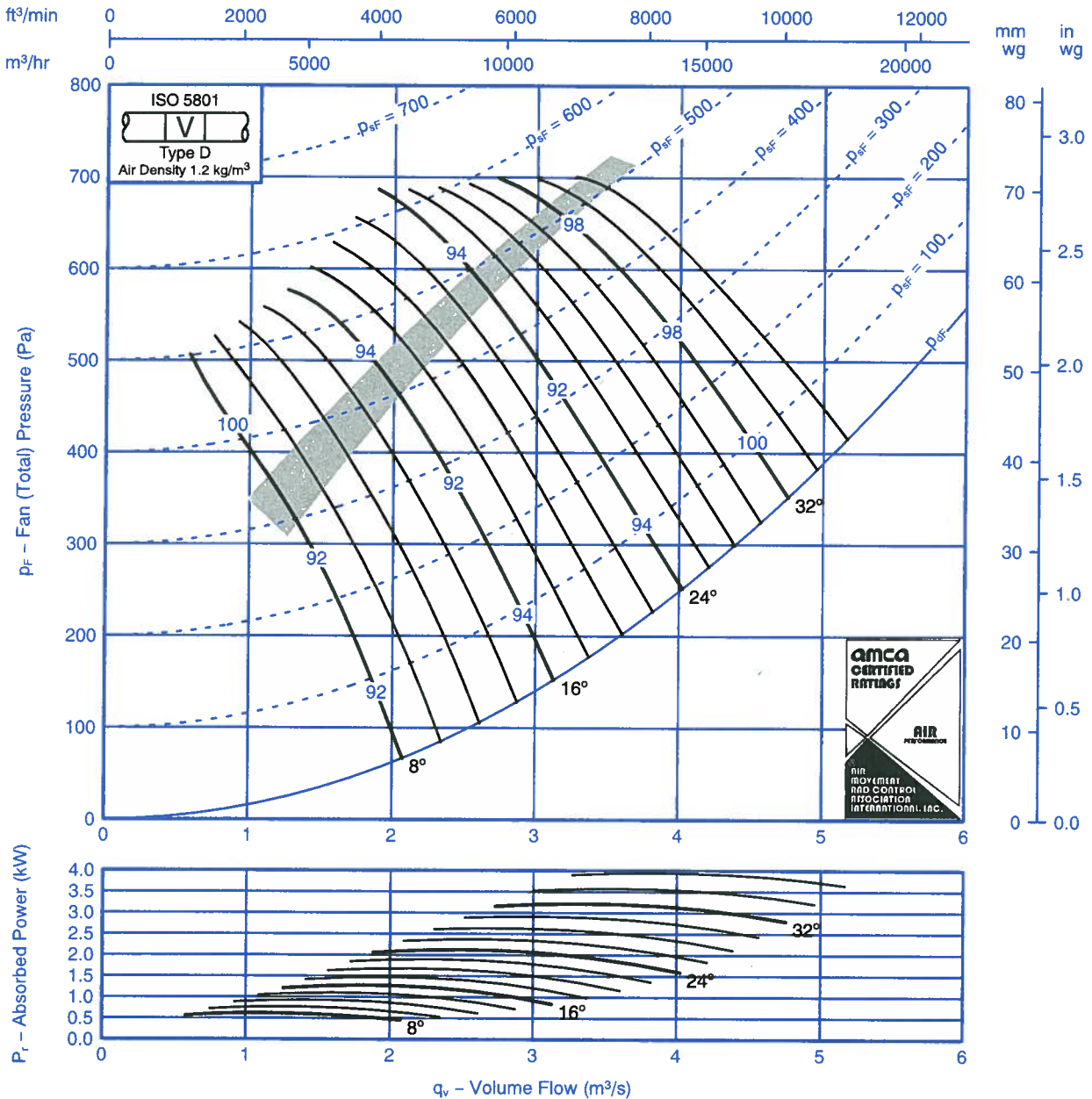
Fan Code: 50JM/20/2/3/...

500 mm 2910 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

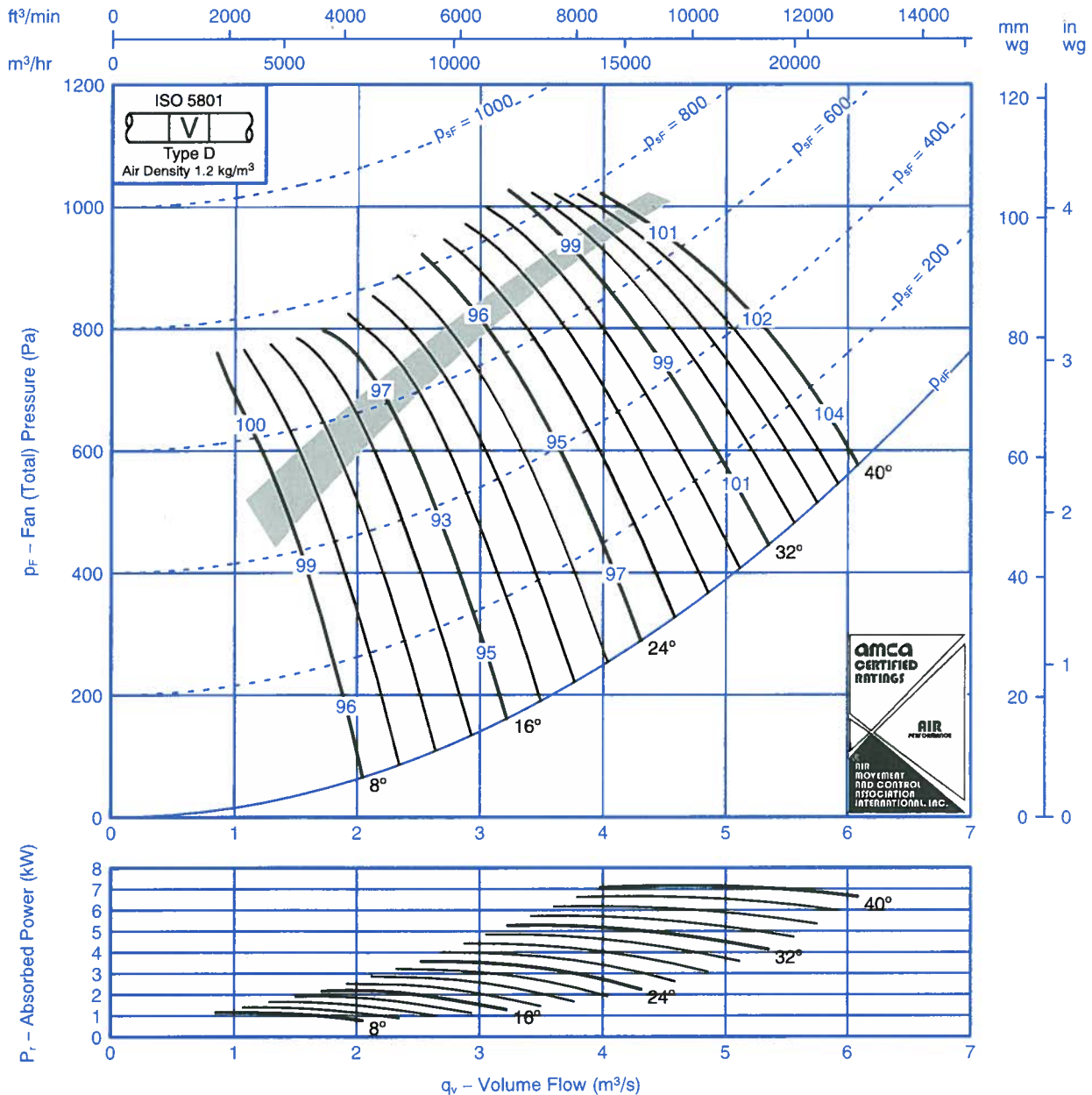
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-16	-15	-8	-4	-7	-17	-25	8	-18	-14	-14	-7	-3	-6	-16	-22
	-15	-8	-11	-7	-7	-8	-13	-15		-14	-5	-10	-6	-7	-7	-11	-12
16	-11	-9	-7	-5	-8	-12	-17	-20	16	-10	-7	-6	-5	-8	-11	-16	-19
	-12	-6	-9	-6	-9	-11	-16	-19		-10	-3	-8	-6	-9	-11	-15	-17
24-36	-9	-5	-8	-7	-11	-12	-16	-19	24-36	-7	-4	-8	-7	-10	-10	-14	-16
	-9	-4	-10	-7	-10	-12	-17	-21		-7	-2	-9	-7	-10	-12	-16	-19



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-19	-20	-13	-9	-4	-7	-16	-24	8	-16	-19	-11	-8	-3	-5	-14	-21
	-17	-20	-12	-8	-6	-5	-12	-17		-15	-19	-10	-7	-5	-4	-11	-15
16	-11	-16	-7	-5	-7	-9	-14	-19	16	-10	-16	-5	-5	-7	-9	-14	-18
	-11	-15	-7	-6	-8	-9	-13	-16		-9	-15	-4	-5	-8	-8	-13	-15
24 - 40	-8	-8	-7	-8	-10	-12	-16	-19	24 - 40	-6	-7	-5	-7	-9	-11	-14	-17
	-8	-8	-6	-9	-10	-12	-16	-19		-5	-8	-4	-8	-10	-11	-15	-18



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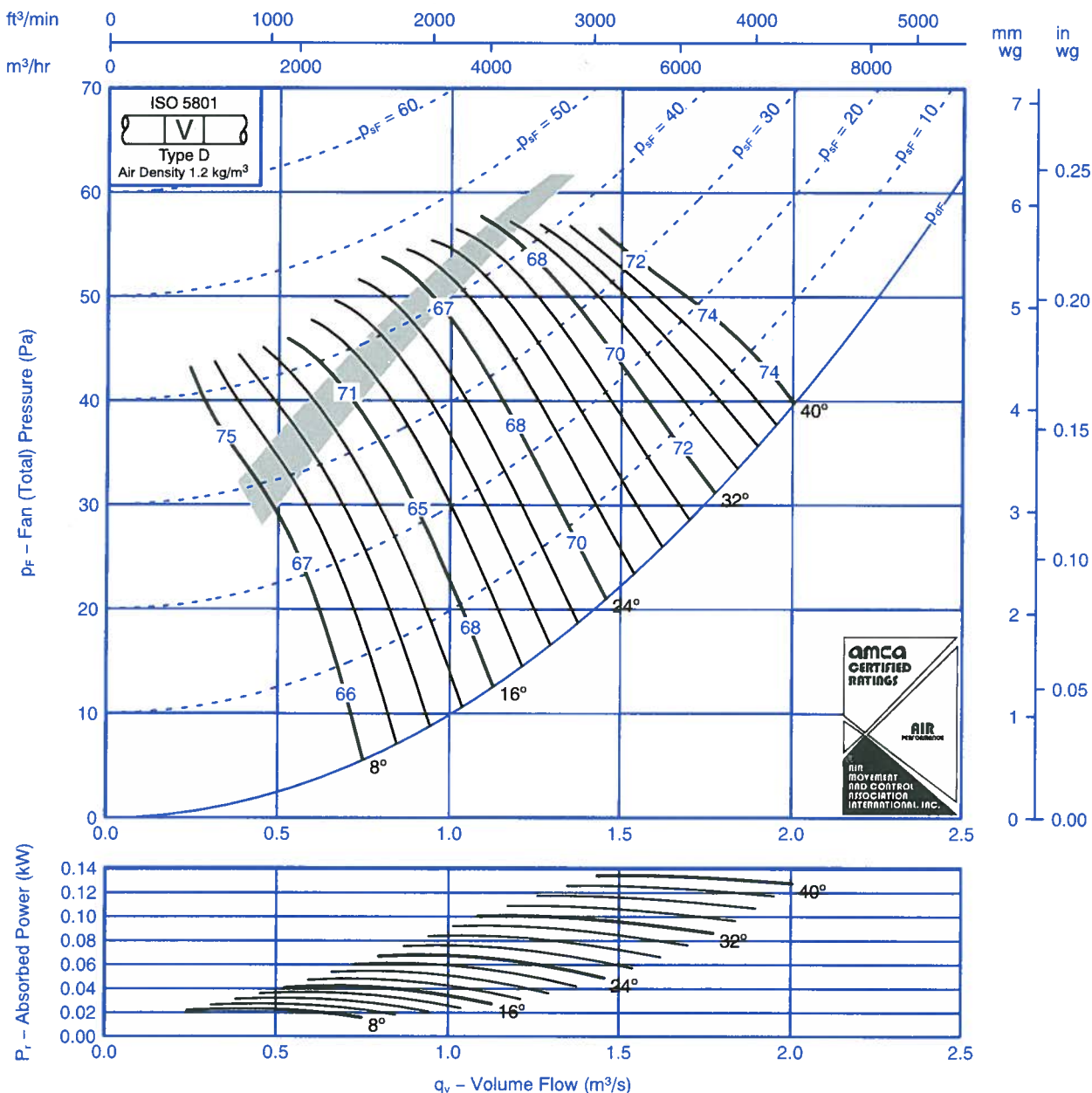
Fan Code: 56JM/16/8/5/...

560 mm 670 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-10	-3	-7	-12	-20	-29	-37	8	-10	-10	-3	-7	-12	-20	-28	-35
	-7	-11	-7	-5	-8	-13	-20	-24		-6	-11	-7	-5	-8	-12	-19	-23
16	-11	-12	-3	-7	-12	-19	-28	-34	16	-10	-12	-3	-7	-12	-19	-27	-33
	-3	-8	-7	-10	-13	-16	-20	-23		-3	-8	-7	-10	-13	-15	-19	-21
24 – 40	-3	-9	-7	-10	-12	-15	-20	-23	24 – 40	-2	-8	-7	-10	-12	-15	-19	-22
	-3	-8	-8	-11	-14	-18	-23	-28		-2	-8	-8	-11	-14	-18	-22	-26



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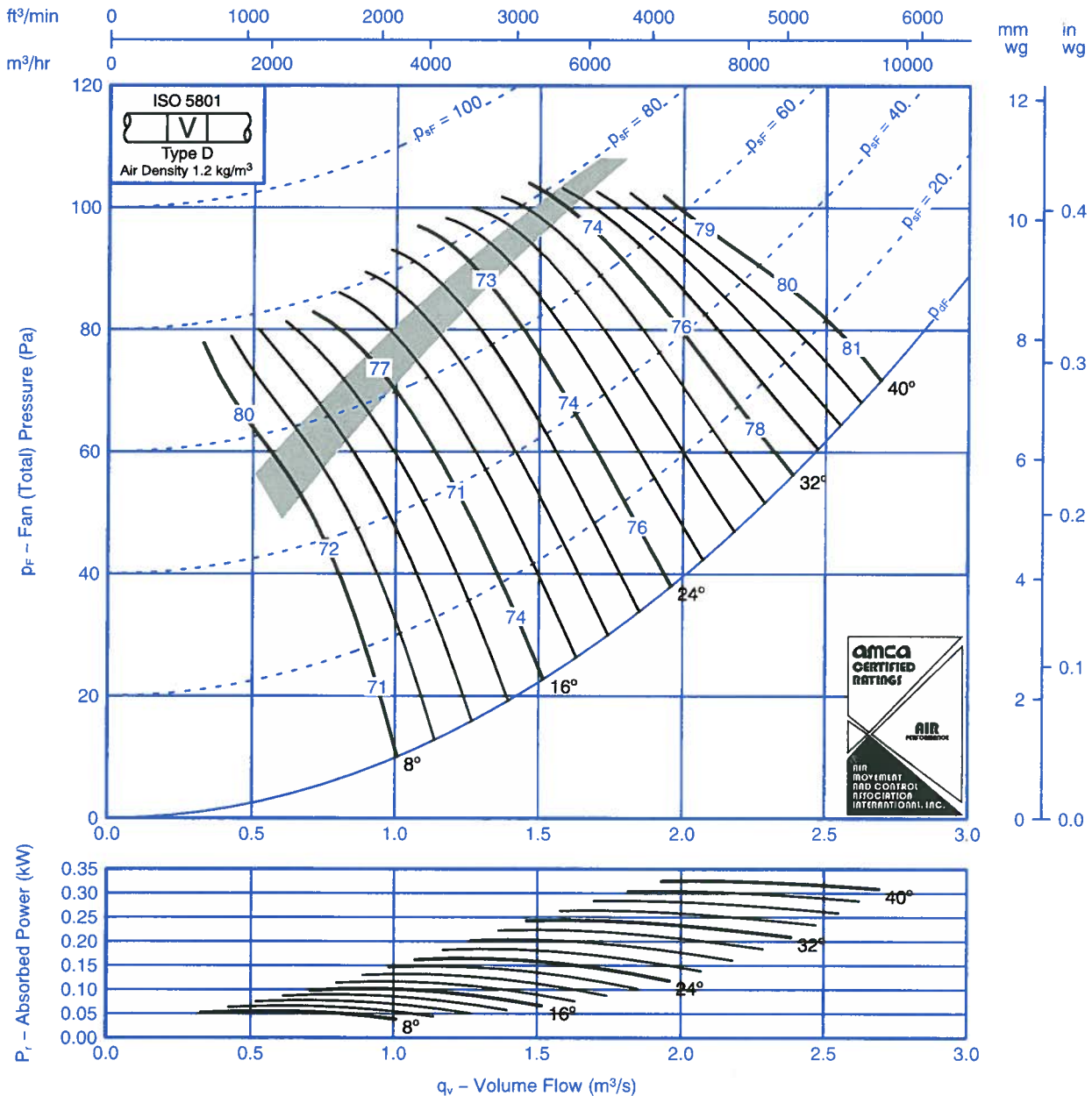
Fan Code: 56JM/16/6/5/...

560 mm 900 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-11	-3	-5	-10	-18	-26	-33	8	-10	-11	-3	-5	-10	-18	-25	-31
	-8	-11	-8	-5	-7	-12	-17	-22		-7	-11	-8	-5	-7	-11	-17	-21
16	-12	-13	-3	-6	-10	-17	-25	-32	16	-11	-13	-3	-5	-10	-17	-24	-30
	-4	-8	-7	-10	-12	-15	-18	-21		-3	-8	-7	-10	-12	-14	-18	-20
24-40	-4	-9	-7	-10	-12	-15	-18	-21	24-40	-3	-9	-7	-10	-12	-15	-17	-20
	-3	-8	-8	-10	-14	-17	-21	-26		-2	-8	-8	-10	-14	-17	-20	-24



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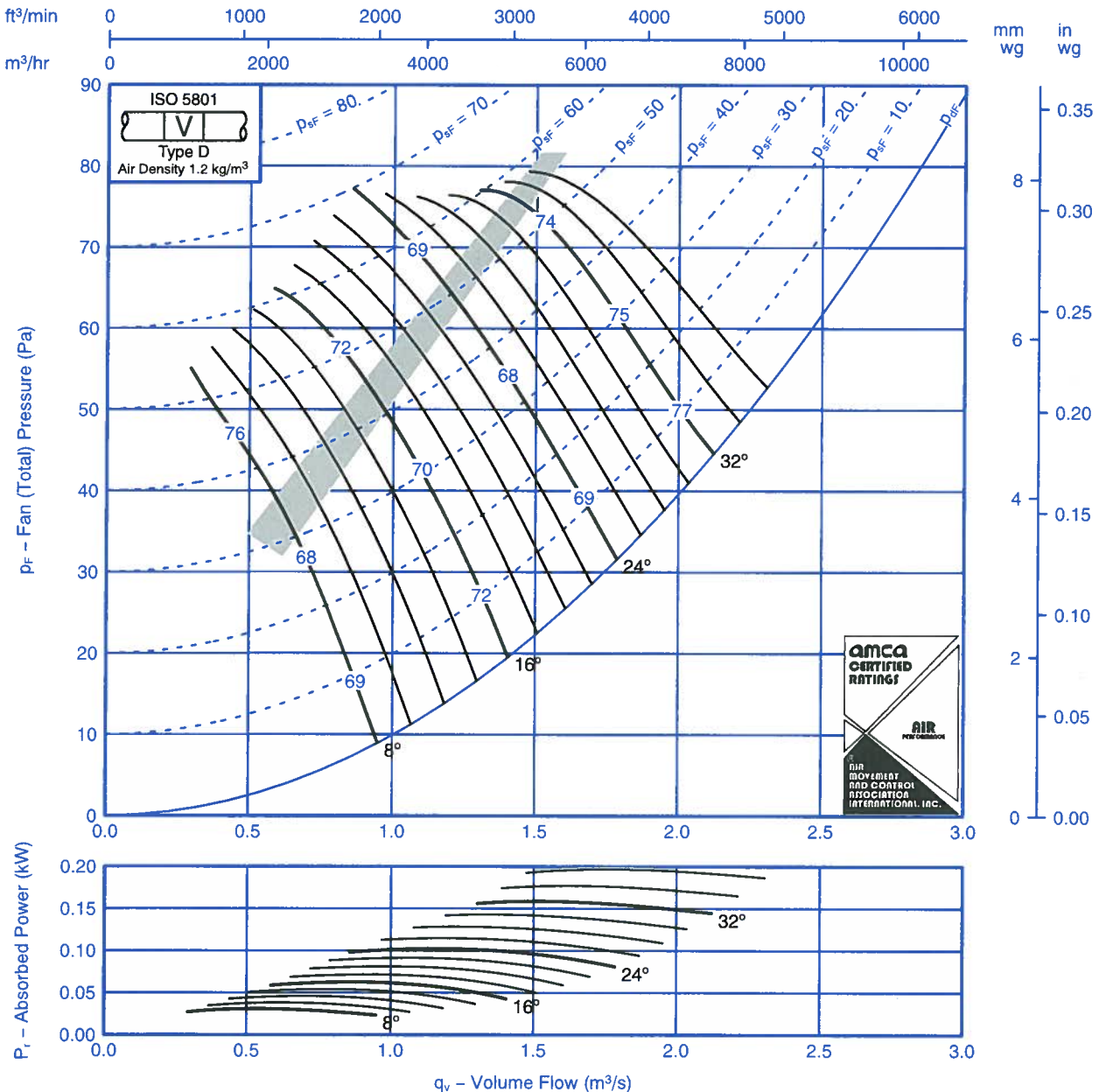
Fan Code: 56JM/20/6/3/...

560 mm 900 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

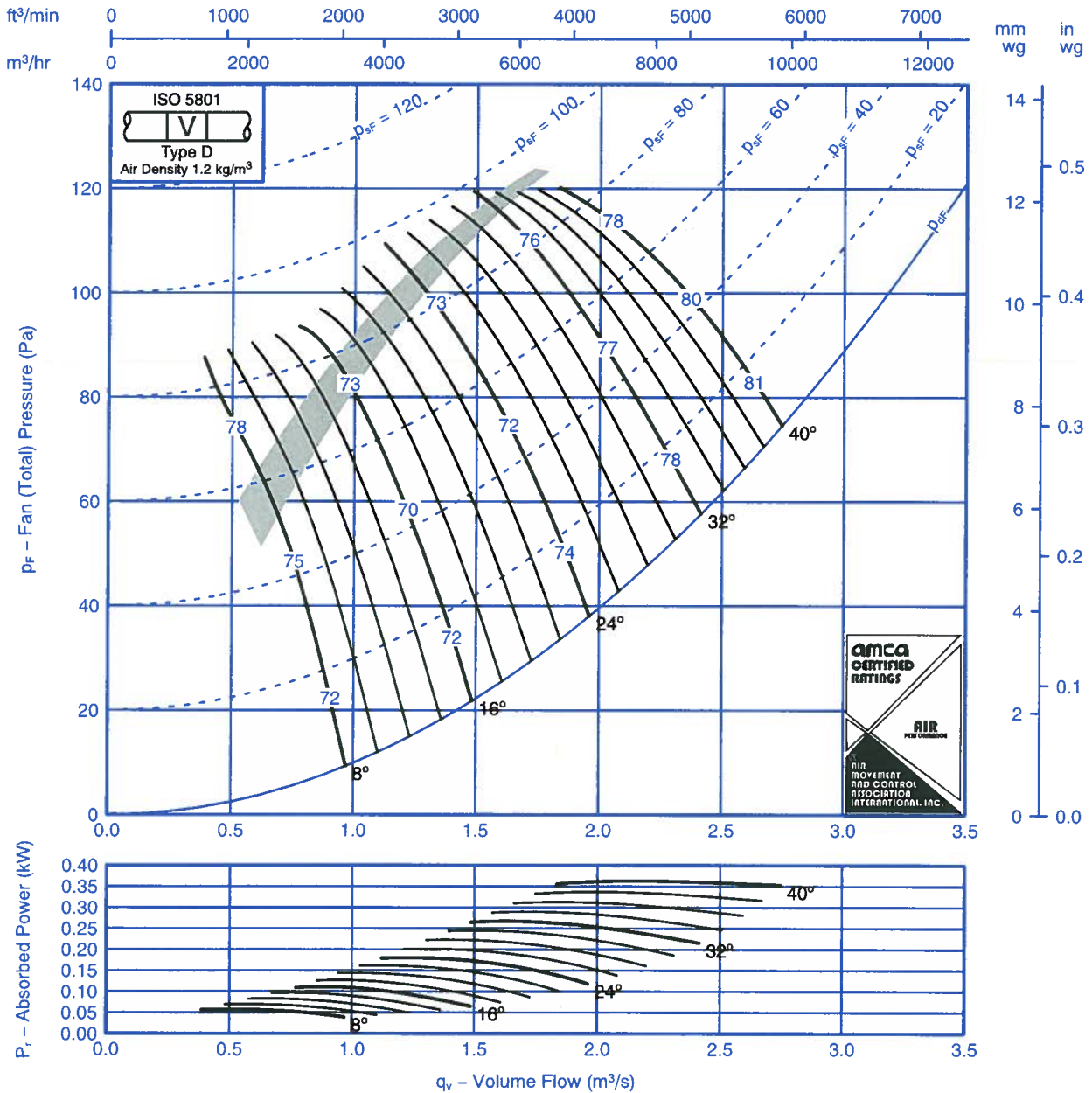
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-11	-5	-3	-11	-20	-29	-40	8	-14	-10	-5	-3	-11	-19	-28	-38
	-6	-7	-7	-7	-11	-14	-17	-21		-3	-7	-7	-7	-11	-13	-16	-19
16	-6	-5	-5	-10	-15	-18	-22	-28	16	-4	-5	-5	-10	-15	-17	-22	-27
	-4	-6	-7	-10	-15	-18	-22	-27		-2	-6	-7	-10	-15	-18	-21	-25
24 – 36	-5	-6	-8	-9	-13	-16	-20	-25	24 – 36	-3	-5	-8	-8	-12	-15	-18	-23
	-4	-6	-8	-10	-15	-18	-23	-28		-1	-6	-8	-10	-15	-18	-22	-26



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-22	-11	-8	-2	-9	-19	-29	-39	8	-20	-9	-8	-2	-9	-18	-28	-37
	-18	-8	-7	-3	-8	-14	-20	-27		-17	-6	-7	-3	-8	-13	-19	-25
16	-14	-5	-5	-6	-12	-17	-24	-30	16	-13	-3	-5	-6	-12	-16	-24	-29
	-11	-4	-6	-7	-12	-15	-19	-24		-9	-2	-6	-7	-12	-15	-19	-23
24 - 40	-6	-6	-7	-10	-12	-15	-18	-22	24 - 40	-5	-4	-7	-9	-12	-14	-17	-20
	-5	-6	-8	-10	-13	-17	-21	-25		-3	-3	-8	-10	-13	-16	-20	-25



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ISO 9001

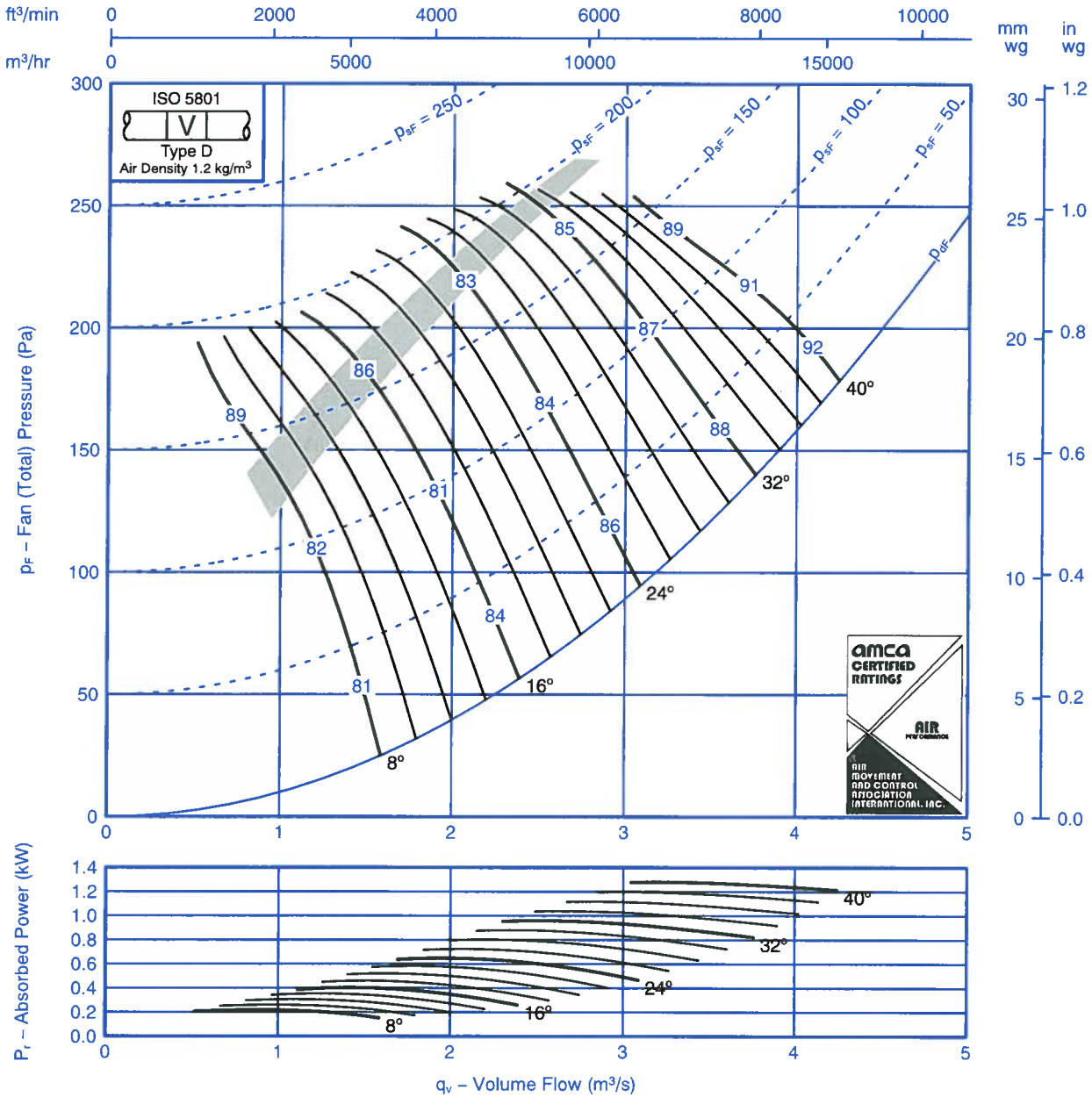
Fan Code: 56JM/16/4/5/...

560 mm 1420 rev/min 5 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

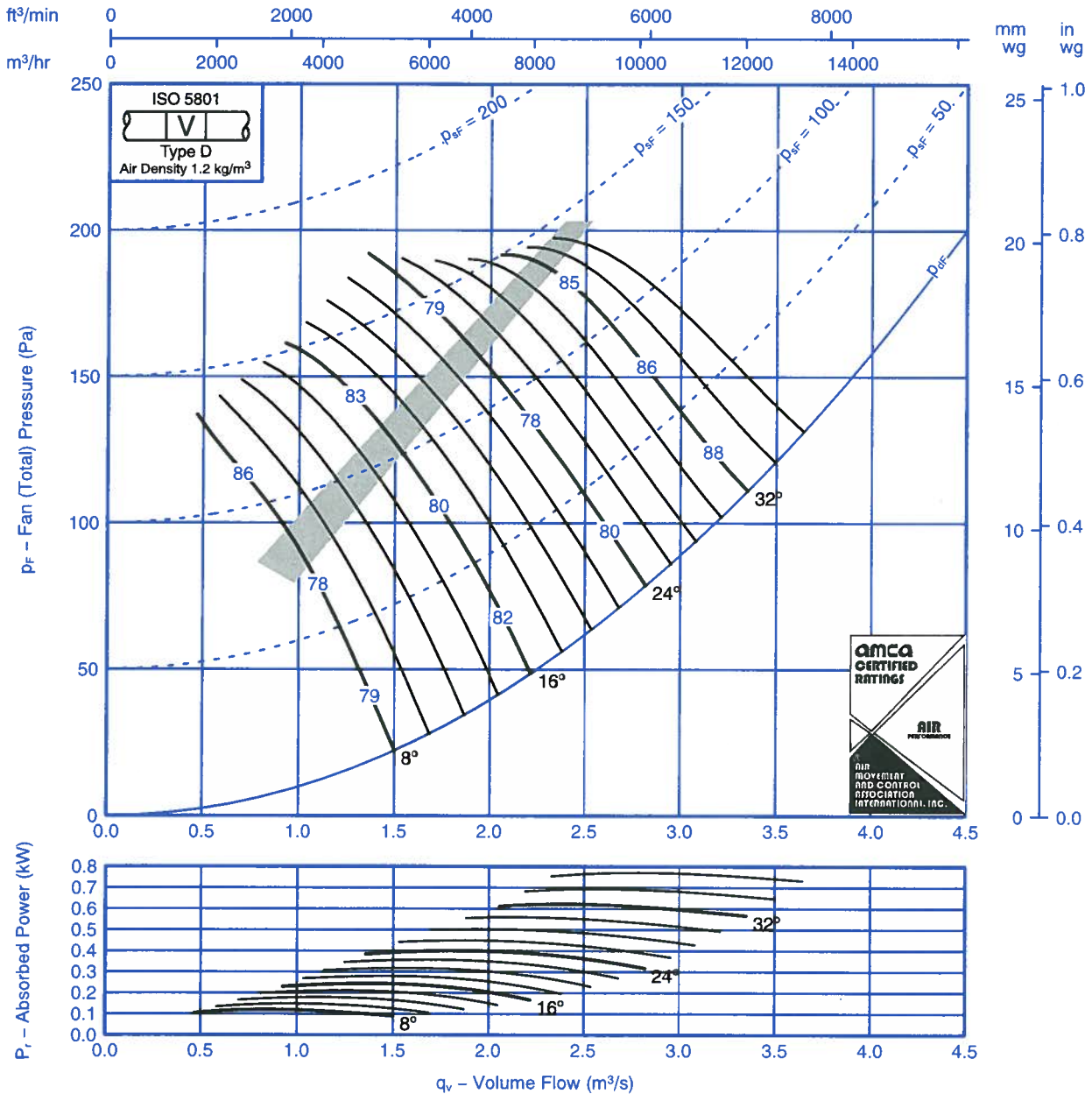
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-12	-10	-3	-7	-12	-20	-28	8	-16	-10	-10	-3	-7	-12	-20	-26
	-17	-8	-11	-6	-5	-8	-13	-19		-17	-6	-11	-6	-5	-7	-13	-18
16	-17	-11	-12	-2	-7	-12	-19	-27	16	-16	-11	-12	-2	-7	-12	-19	-25
	-12	-4	-8	-7	-11	-13	-16	-20		-12	-3	-8	-7	-11	-13	-15	-18
24 – 40	-7	-4	-9	-8	-11	-13	-16	-20	24 – 40	-6	-4	-9	-8	-11	-13	-16	-19
	-7	-4	-9	-9	-12	-15	-19	-24		-6	-3	-9	-9	-12	-15	-18	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-14	-9	-3	-5	-15	-23	-33	8	-14	-14	-9	-3	-5	-14	-22	-31
	-6	-10	-7	-8	-8	-13	-15	-19		-3	-10	-7	-7	-8	-12	-13	-16
16	-7	-7	-5	-8	-11	-17	-19	-25	16	-5	-7	-5	-8	-11	-16	-18	-24
	-4	-8	-6	-9	-12	-17	-19	-24		-2	-8	-6	-9	-12	-17	-18	-23
24 – 36	-5	-8	-7	-9	-10	-15	-18	-23	24 – 36	-3	-8	-7	-9	-9	-14	-16	-20
	-4	-9	-7	-9	-12	-17	-20	-26		-1	-8	-7	-9	-12	-17	-19	-24



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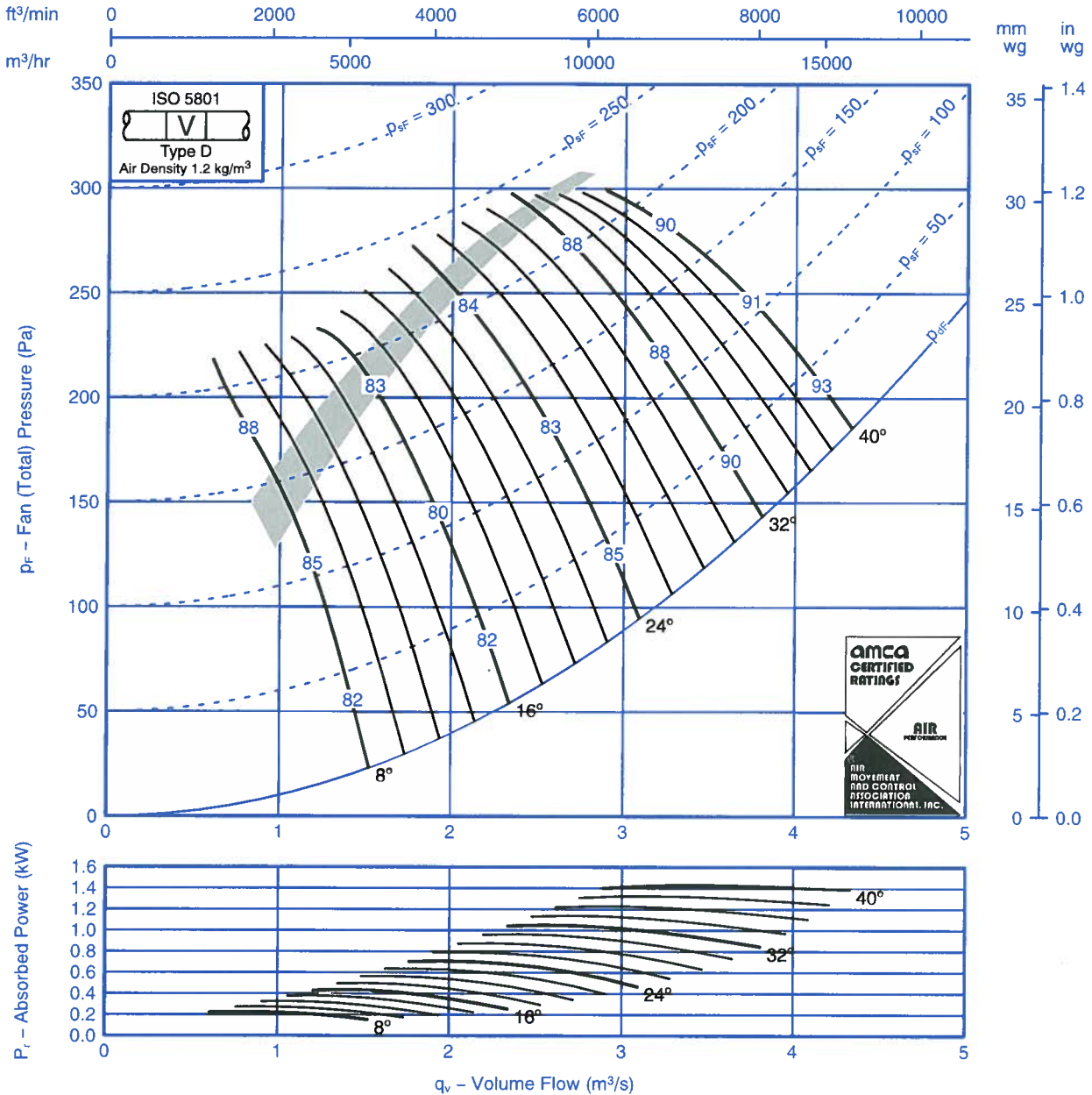
Fan Code: 56JM/20/4/6/...

560 mm 1420 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



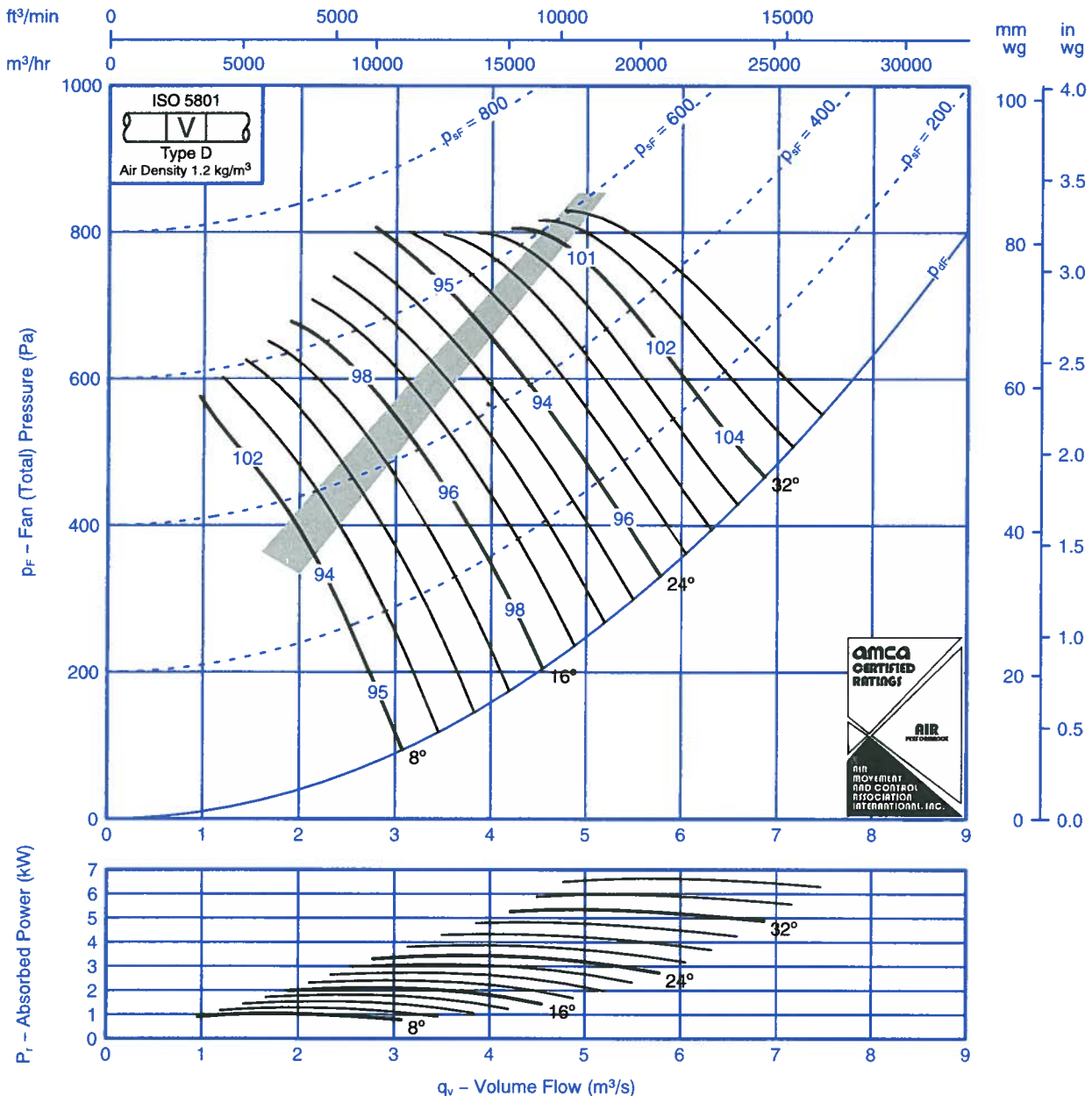
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-24	-12	-12	-4	-4	-12	-22	-32	8	-21	-10	-12	-3	-4	-11	-21	-31
	-21	-10	-9	-6	-4	-11	-16	-22		-19	-8	-8	-6	-4	-10	-14	-21
16	-17	-6	-7	-5	-9	-14	-19	-26	16	-16	-4	-7	-5	-8	-13	-19	-26
	-14	-4	-7	-8	-9	-14	-16	-21		-12	-3	-6	-8	-9	-14	-16	-20
24 – 40	-7	-5	-9	-9	-12	-14	-17	-21	24 – 40	-5	-4	-9	-9	-11	-13	-16	-19
	-6	-5	-9	-10	-12	-16	-19	-24		-4	-3	-9	-10	-12	-15	-18	-23

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-23	-16	-14	-10	-4	-5	-16	-23	8	-20	-14	-13	-9	-3	-4	-14	-21
	-15	-6	-10	-7	-8	-8	-13	-15		-13	-3	-9	-7	-8	-7	-12	-12
16	-14	-7	-7	-5	-9	-12	-18	-20	16	-12	-5	-7	-5	-8	-11	-17	-19
	-11	-4	-9	-7	-9	-12	-18	-20		-10	-2	-8	-7	-9	-12	-17	-18
24 - 36	-10	-6	-9	-7	-10	-11	-16	-19	24 - 36	-8	-4	-8	-7	-9	-9	-14	-16
	-9	-4	-9	-7	-10	-13	-18	-21		-6	-1	-9	-7	-10	-12	-17	-19



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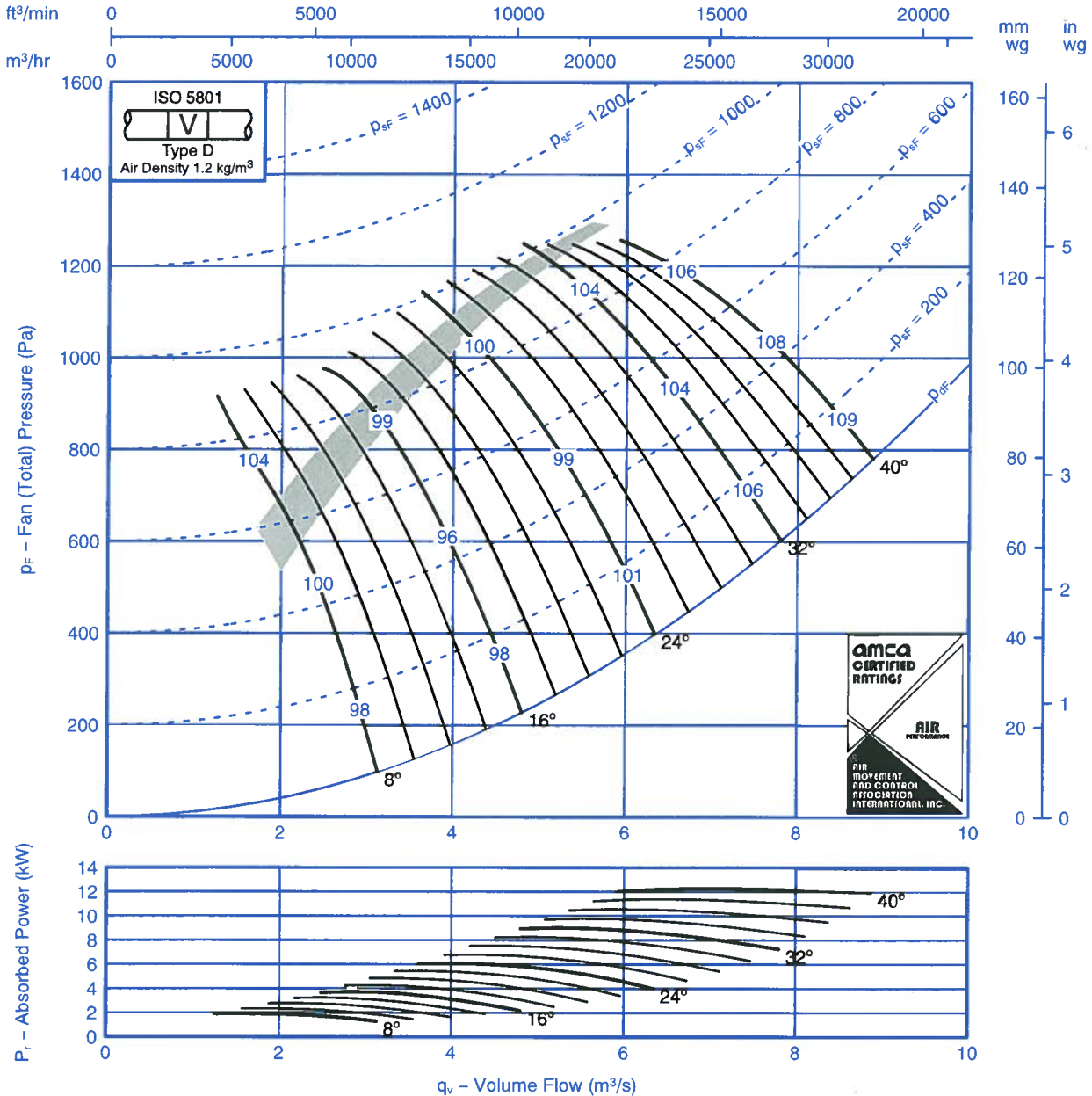
Fan Code: 56JM/20/2/6/...

560 mm 2910 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

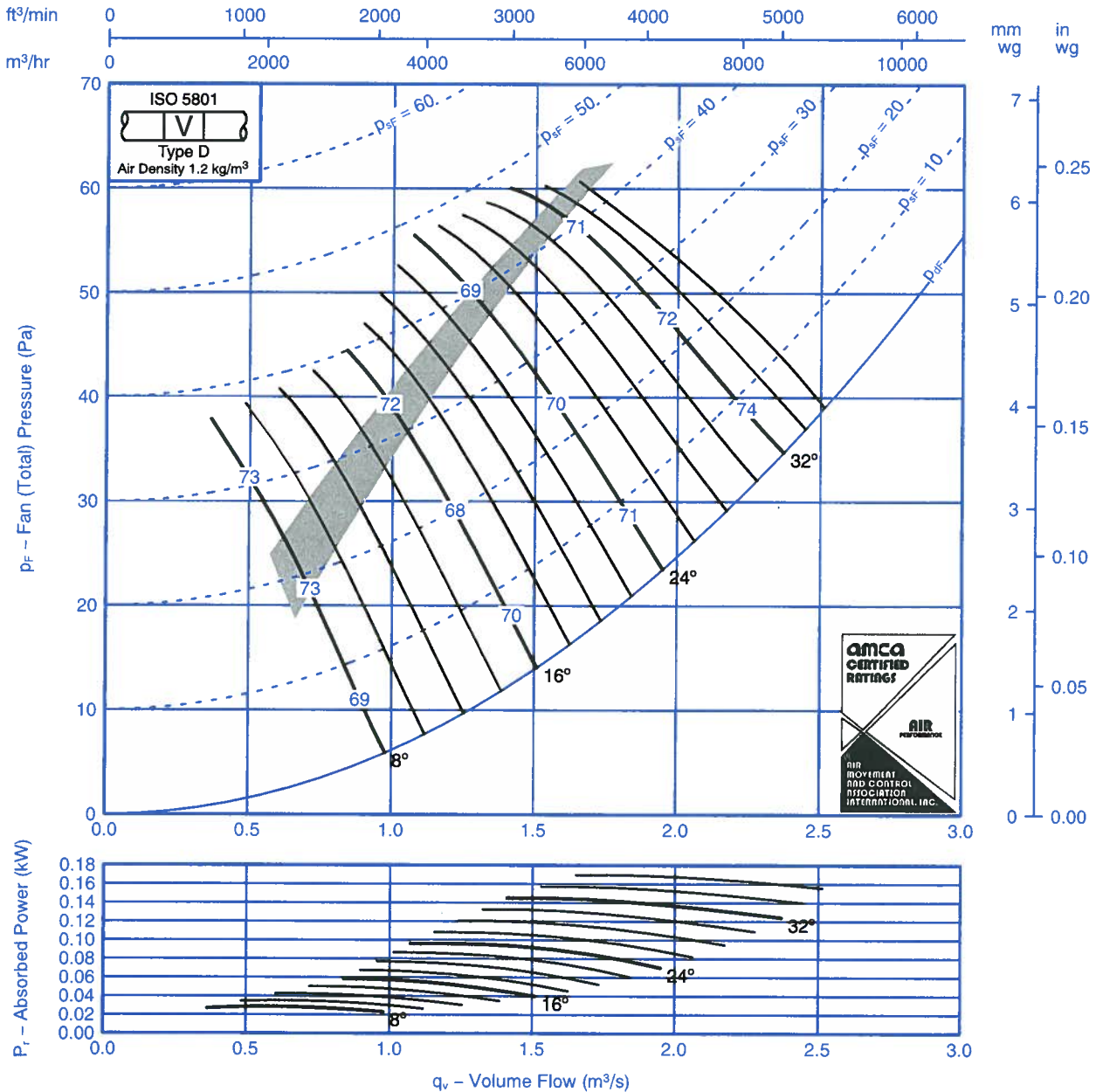
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-24	-13	-12	-3	-5	-13	-22	8	-19	-23	-11	-12	-3	-4	-12	-20
	-16	-21	-11	-9	-6	-4	-11	-16		-14	-21	-8	-8	-6	-3	-10	-14
16	-12	-18	-6	-7	-6	-9	-15	-19	16	-11	-18	-4	-6	-5	-9	-14	-18
	-9	-15	-5	-7	-9	-9	-15	-16		-8	-14	-3	-6	-8	-9	-14	-16
24 - 40	-7	-8	-6	-10	-10	-13	-15	-18	24 - 40	-6	-8	-4	-9	-10	-12	-14	-16
	-7	-7	-6	-10	-11	-14	-17	-20		-4	-7	-4	-9	-11	-13	-16	-19

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-5	-4	-8	-14	-21	-27	-36	8	-9	-5	-4	-8	-14	-20	-26	-34
	-7	-5	-7	-9	-10	-14	-21	-30		-5	-5	-7	-8	-10	-13	-20	-28
16	-10	-4	-5	-10	-14	-21	-28	-35	16	-8	-4	-5	-10	-14	-21	-26	-33
	-3	-5	-11	-13	-13	-17	-23	-30		-2	-5	-11	-13	-13	-17	-22	-28
24 - 36	-4	-5	-10	-12	-14	-17	-21	-26	24 - 36	-2	-5	-10	-12	-14	-17	-20	-24
	-3	-5	-11	-14	-16	-20	-24	-28		-2	-5	-11	-14	-16	-20	-22	-26



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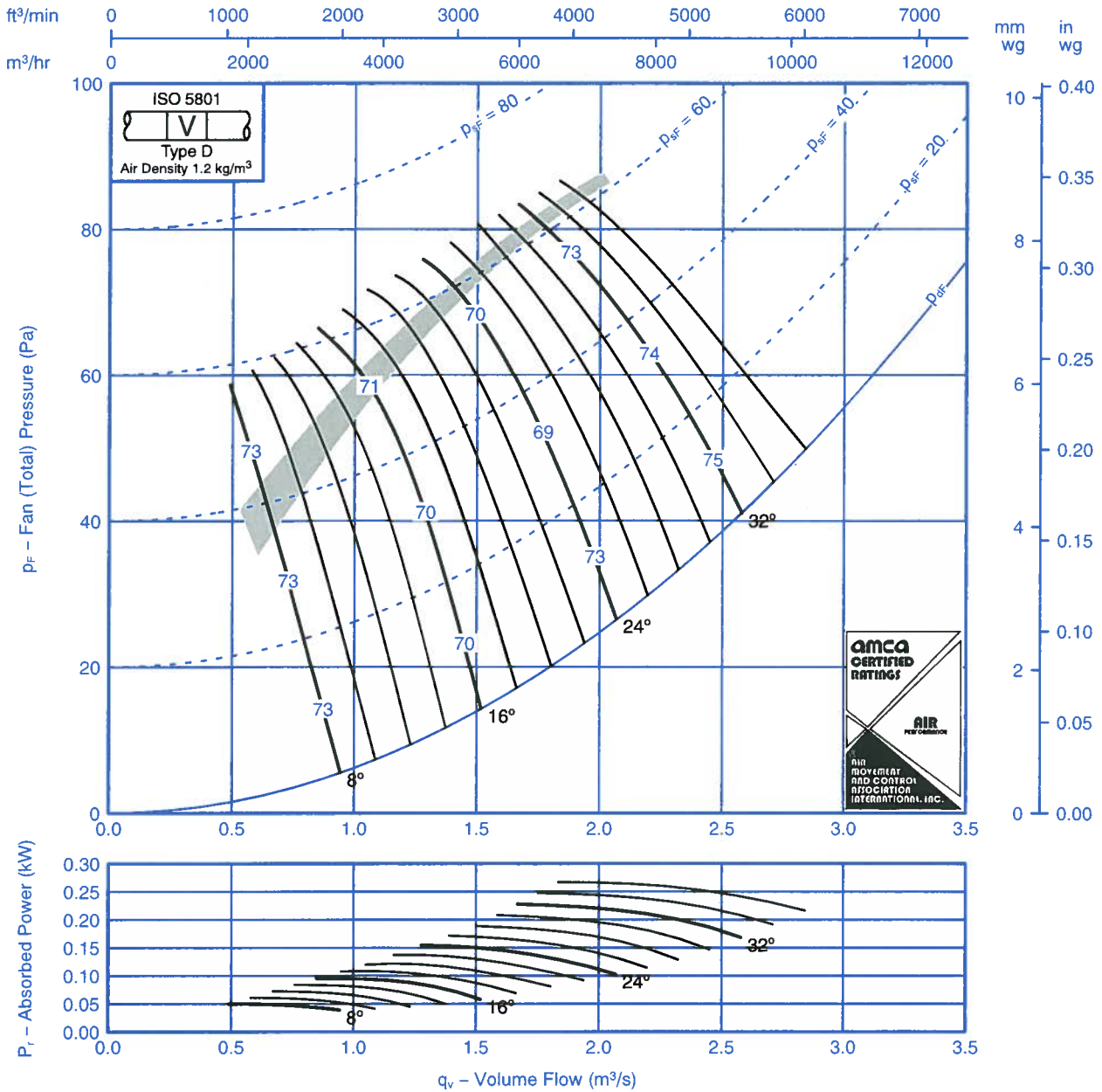
Fan Code: 63JM/20/8/6/...

630 mm 680 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-8	-7	-4	-8	-13	-19	-26	-36	8	-6	-7	-4	-8	-13	-19	-25	-34
	-11	-8	-5	-5	-10	-16	-24	-33		-10	-8	-5	-5	-10	-15	-23	-32
16	-8	-6	-5	-8	-10	-18	-25	-34	16	-7	-6	-5	-8	-10	-18	-24	-32
	-5	-6	-7	-10	-11	-15	-21	-28		-5	-6	-7	-10	-11	-15	-20	-27
24 - 36	-4	-6	-8	-12	-14	-18	-22	-28	24 - 36	-3	-5	-8	-12	-14	-18	-22	-26
	-3	-6	-10	-13	-16	-20	-25	-30		-2	-6	-10	-13	-16	-20	-24	-28



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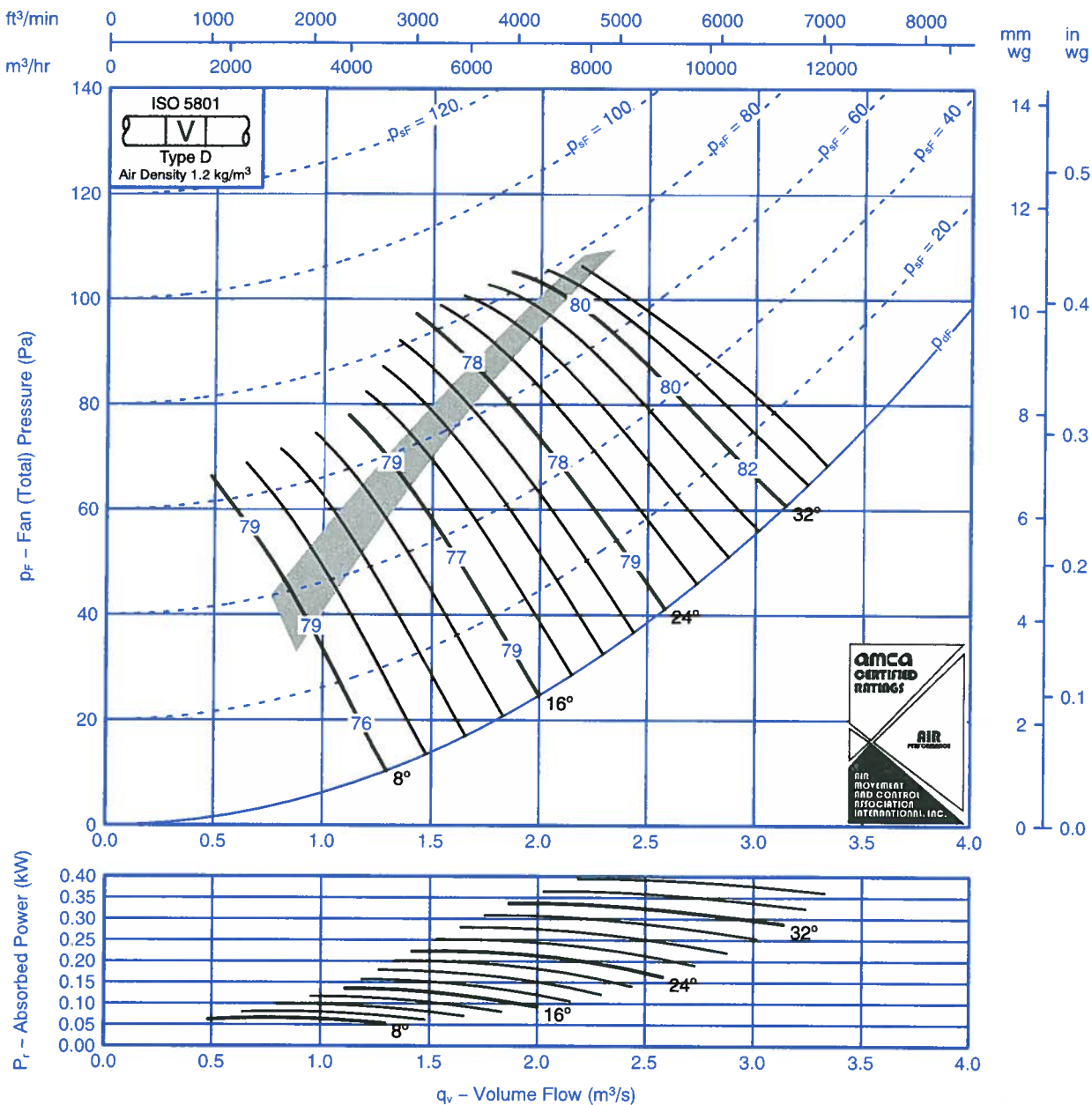
Fan Code: 63JM/20/6/3/...

630 mm 900 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

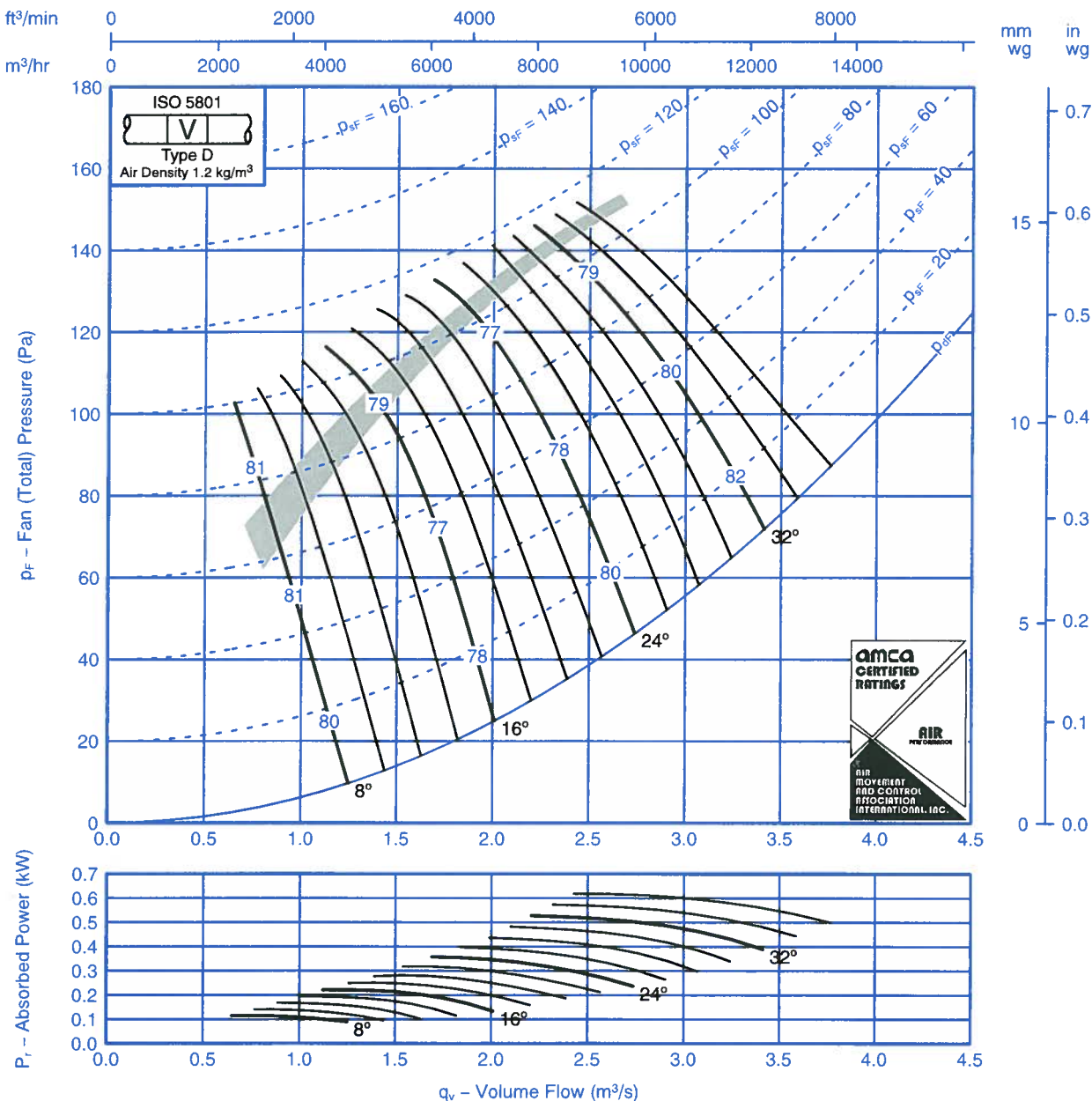
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-7	-4	-7	-13	-20	-26	-33	8	-6	-7	-4	-7	-13	-19	-25	-30
	-4	-8	-8	-9	-12	-15	-20	-29		-2	-8	-8	-9	-12	-14	-20	-27
16	-7	-6	-4	-10	-14	-20	-27	-33	16	-5	-6	-4	-10	-14	-20	-25	-30
	-1	-8	-12	-16	-16	-20	-24	-30		-1	-8	-12	-16	-16	-19	-23	-28
24 - 36	-2	-7	-11	-14	-15	-19	-22	-26	24 - 36	-1	-7	-11	-14	-15	-19	-21	-24
	-1	-8	-13	-16	-19	-22	-25	-29		0	-8	-13	-16	-19	-22	-24	-27



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-8	-4	-6	-12	-18	-24	-32	8	-8	-7	-4	-7	-12	-18	-23	-30
	-12	-9	-6	-4	-9	-15	-21	-30		-12	-8	-6	-4	-9	-14	-21	-28
16	-11	-7	-5	-7	-10	-16	-23	-30	16	-10	-7	-5	-7	-10	-16	-22	-28
	-8	-4	-7	-9	-11	-14	-19	-26		-7	-4	-7	-9	-11	-14	-18	-24
24 - 36	-6	-4	-6	-11	-14	-18	-21	-25	24 - 36	-5	-4	-6	-11	-14	-18	-21	-24
	-4	-4	-9	-12	-16	-19	-24	-28		-4	-4	-9	-12	-16	-19	-23	-26



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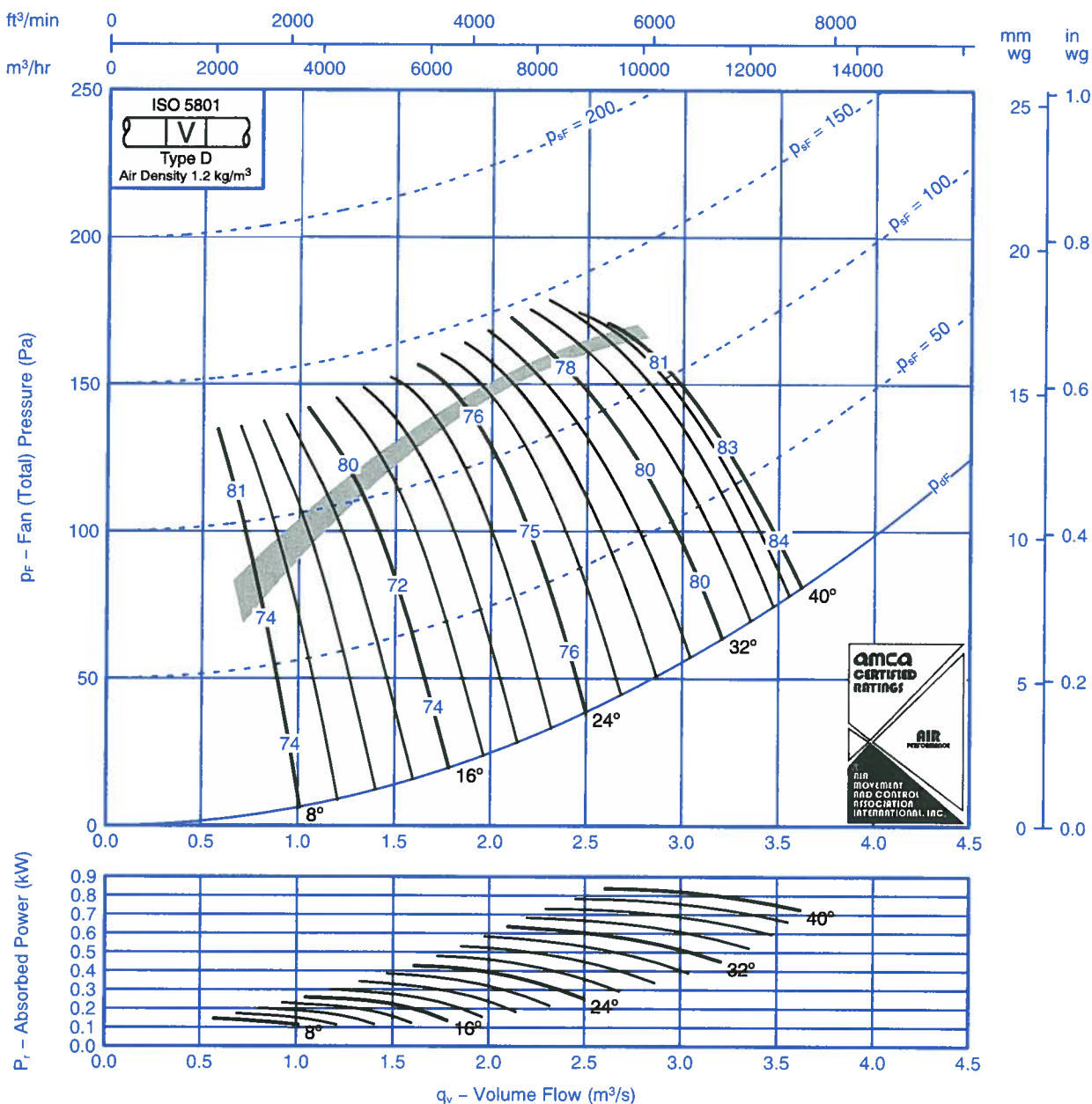
Fan Code: 63JM/25/6/9/...

630 mm 935 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

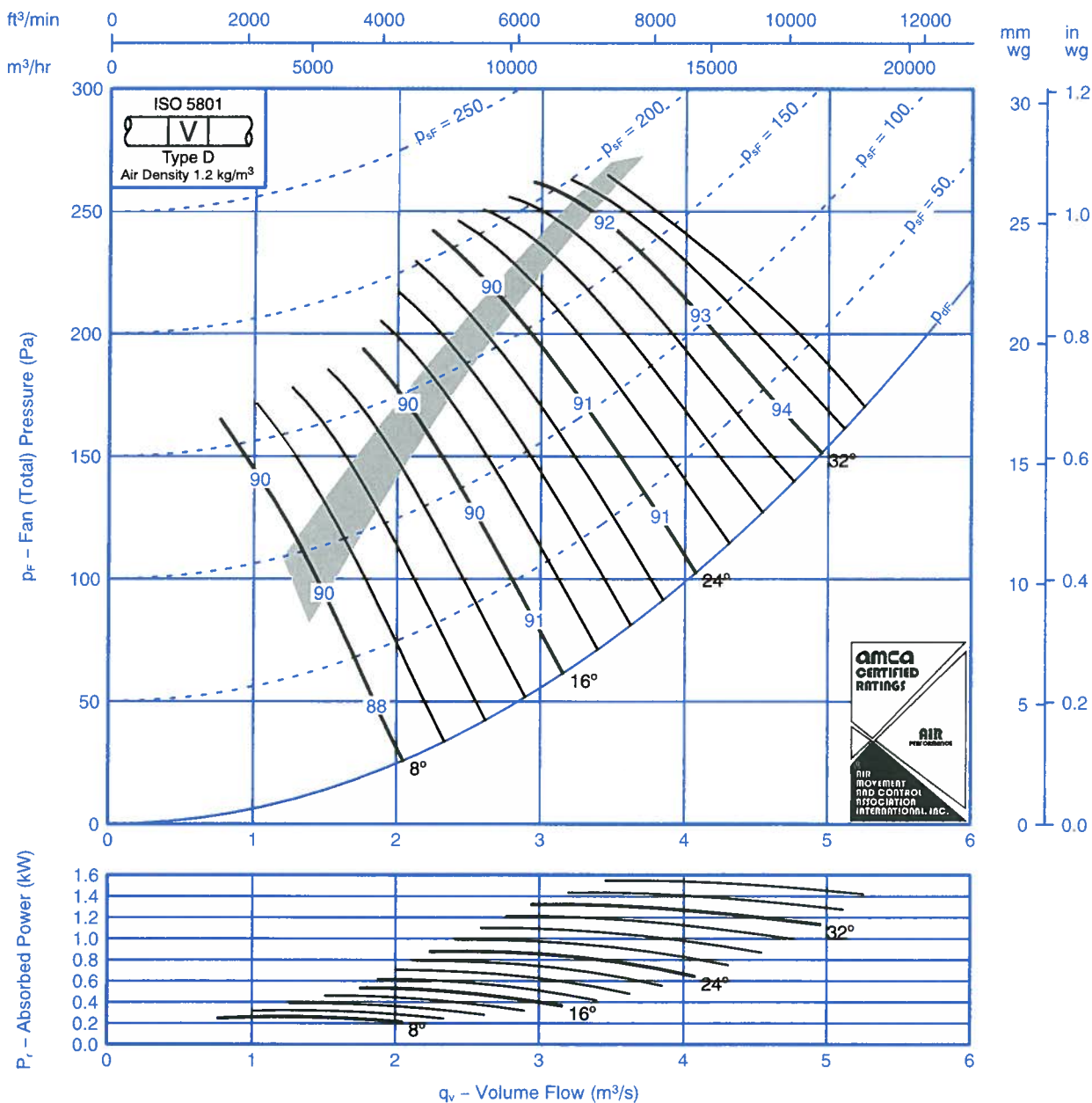
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-9	-6	-5	-8	-15	-24	-31	8	-8	-7	-6	-5	-8	-14	-24	-30
	-10	-8	-8	-6	-8	-8	-15	-17		-9	-6	-8	-7	-8	-8	-14	-15
16	-11	-7	-5	-6	-9	-15	-21	-26	16	-9	-6	-5	-6	-9	-15	-21	-25
	-8	-4	-8	-11	-11	-11	-17	-17		-7	-2	-8	-11	-11	-11	-16	-16
24 - 40	-7	-4	-6	-12	-13	-16	-20	-23	24 - 40	-5	-3	-6	-12	-13	-15	-19	-22
	-5	-5	-7	-13	-14	-17	-23	-26		-3	-3	-7	-13	-14	-17	-22	-25



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

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Sound Data BS848 Part 2 1985:

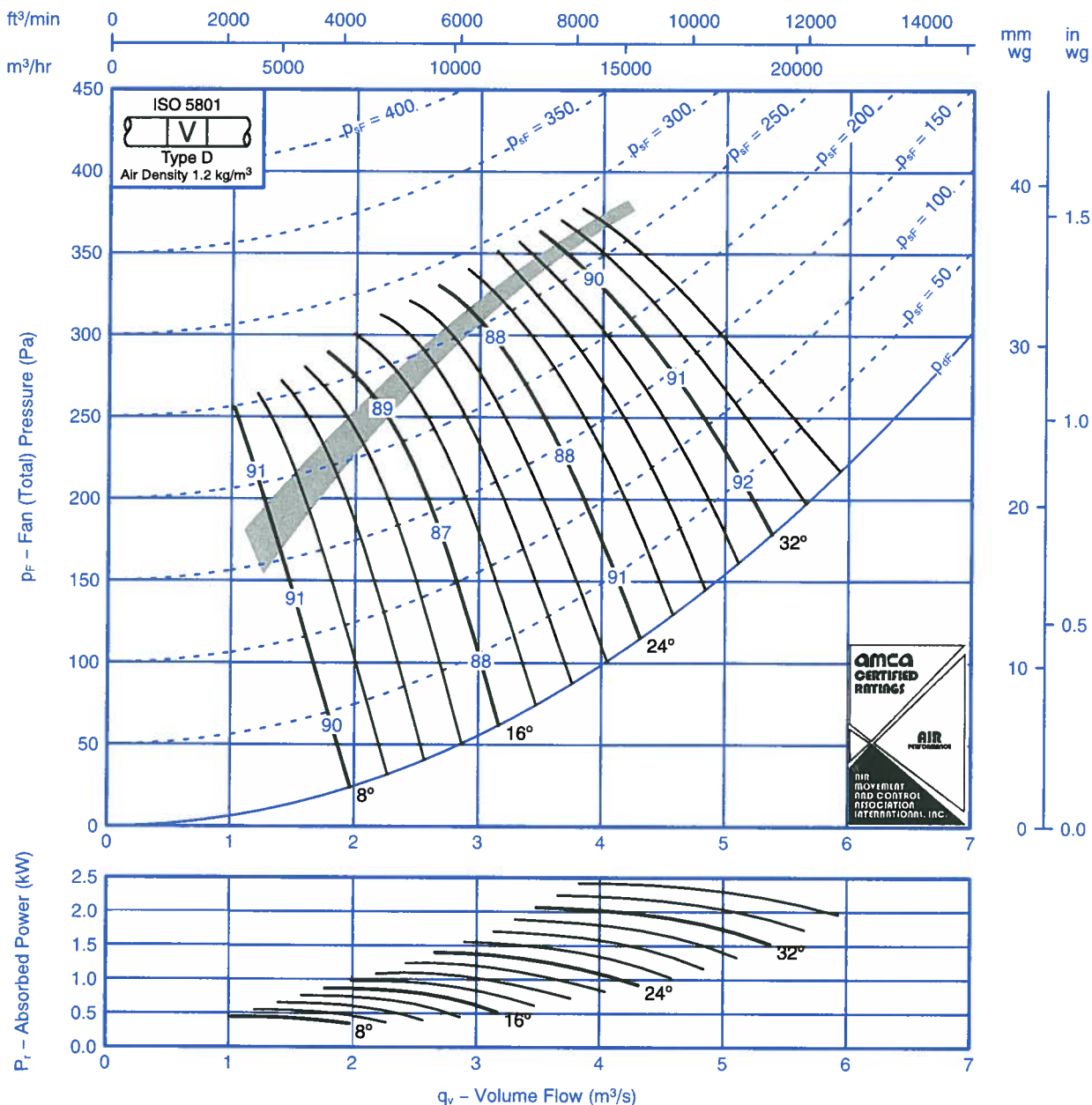
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-7	-13	-6	-5	-10	-15	-22	-29	8	-5	-12	-6	-5	-10	-14	-21	-26
	-2	-12	-9	-10	-13	-14	-19	-25		-1	-11	-9	-10	-13	-13	-18	-23
16	-5	-12	-5	-7	-13	-16	-24	-30	16	-4	-12	-5	-7	-12	-15	-22	-27
	-1	-10	-11	-17	-20	-19	-23	-29		0	-10	-11	-17	-19	-19	-22	-27
24 - 36	-2	-9	-9	-15	-16	-19	-22	-26	24 - 36	-1	-9	-9	-15	-16	-18	-20	-24
	-1	-9	-11	-17	-19	-22	-26	-29		0	-9	-11	-17	-19	-21	-24	-27



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



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Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-8	-7	-4	-9	-13	-21	-27	8	-11	-7	-7	-4	-9	-13	-20	-25
	-15	-10	-8	-5	-6	-10	-17	-24		-15	-10	-8	-5	-6	-9	-17	-23
16	-14	-8	-6	-5	-9	-11	-19	-25	16	-13	-8	-6	-5	-9	-11	-18	-24
	-11	-5	-6	-8	-11	-12	-16	-22		-11	-5	-6	-8	-11	-11	-15	-20
24-36	-8	-4	-6	-9	-13	-15	-19	-23	24-36	-7	-4	-6	-9	-13	-15	-18	-22
	-6	-4	-7	-11	-14	-17	-21	-26		-6	-3	-7	-11	-14	-17	-20	-24



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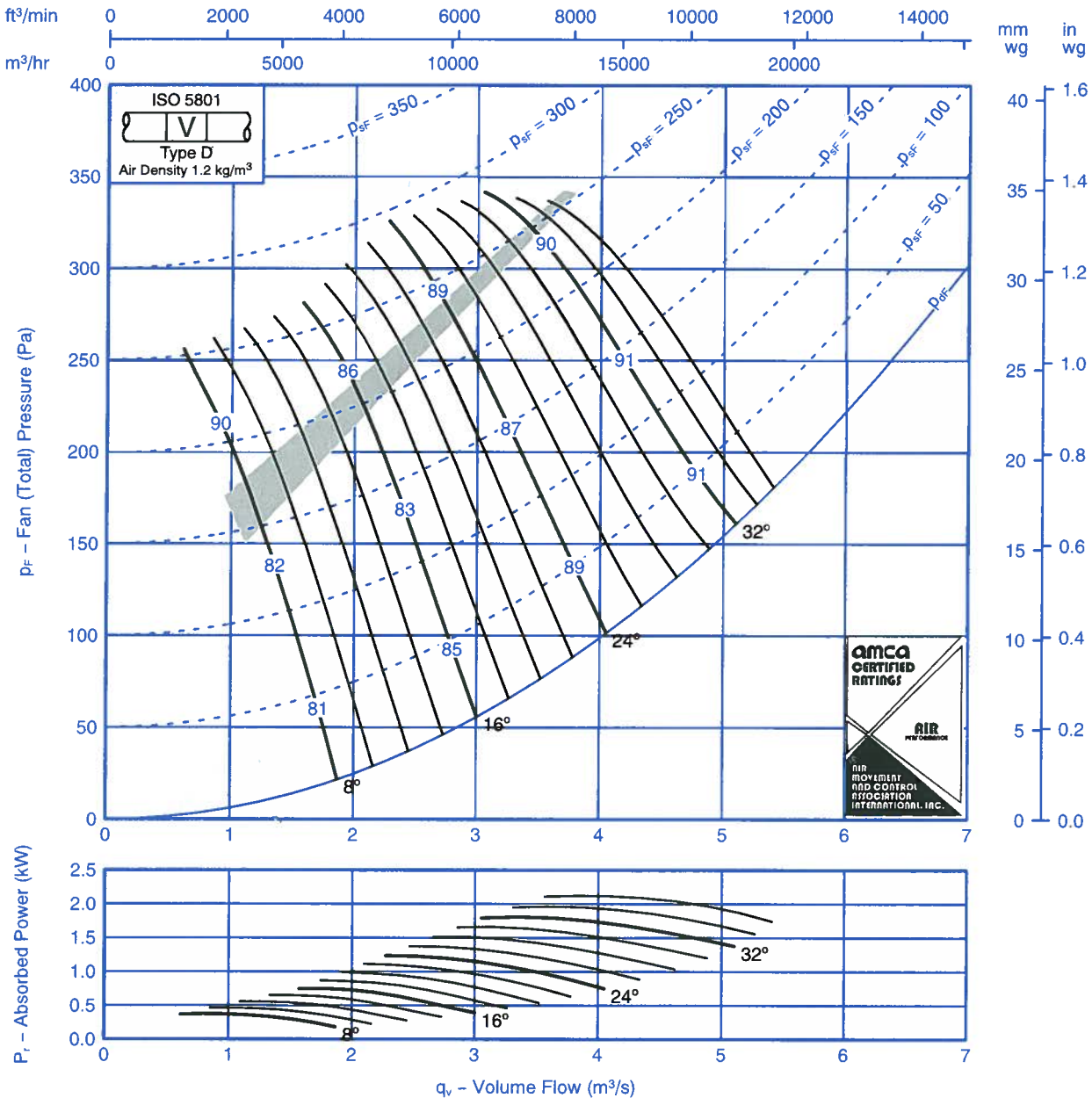
Fan Code: 63JM/25/4/6/...

630 mm 1440 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

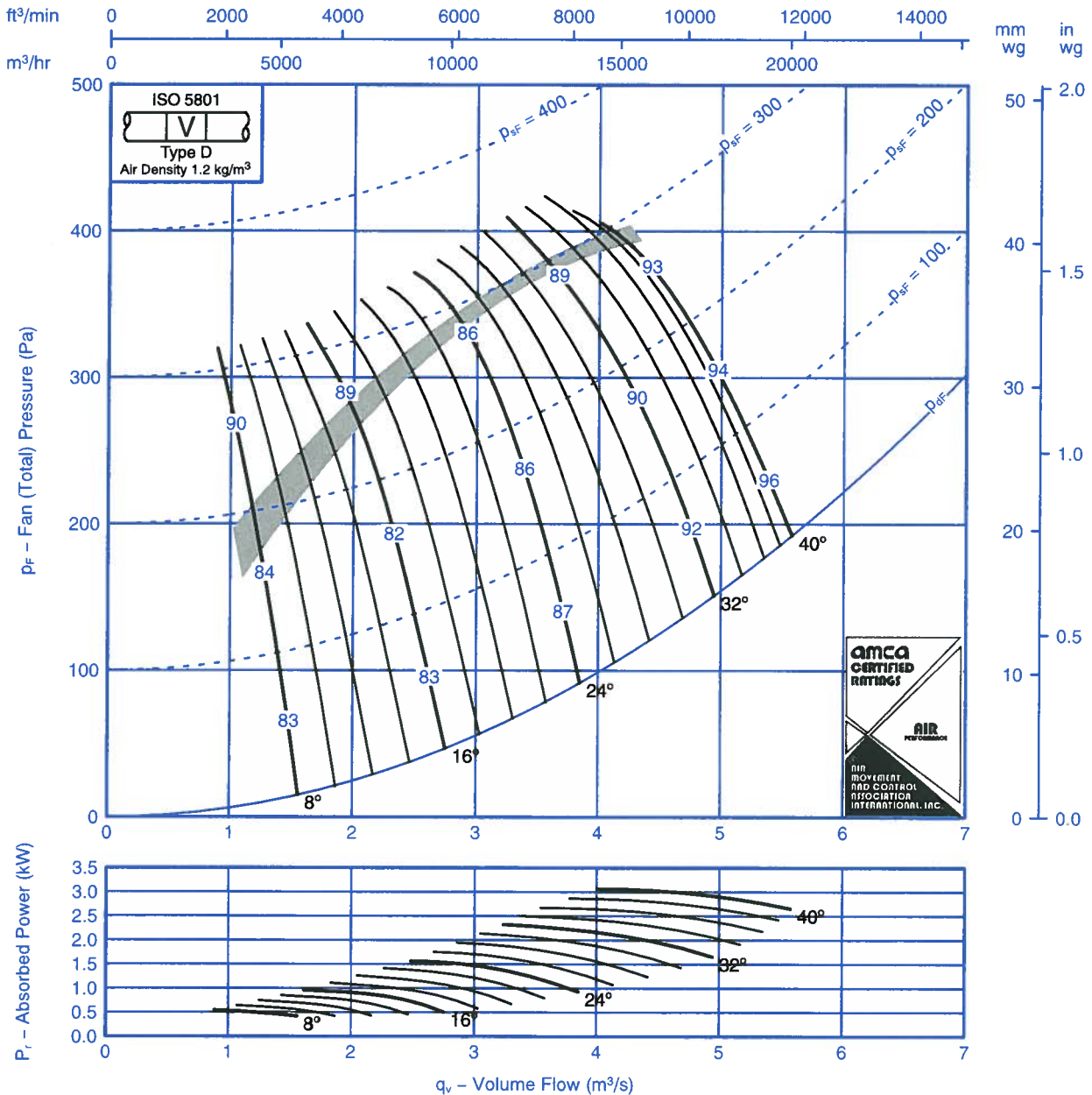
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-11	-8	-4	-6	-12	-19	-28	8	-9	-9	-7	-4	-6	-12	-19	-26
	-6	-7	-8	-9	-10	-10	-12	-16		-5	-6	-7	-9	-11	-10	-11	-14
16	-7	-7	-5	-9	-11	-11	-17	-21	16	-6	-6	-5	-9	-10	-11	-16	-21
	-5	-6	-7	-11	-13	-14	-16	-21		-3	-5	-6	-11	-13	-14	-16	-20
24 – 36	-4	-7	-6	-9	-13	-15	-20	-25	24 – 32	-3	-6	-6	-9	-13	-14	-19	-23
	-4	-6	-8	-12	-15	-17	-22	-27		-1	-4	-7	-12	-15	-17	-21	-26



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

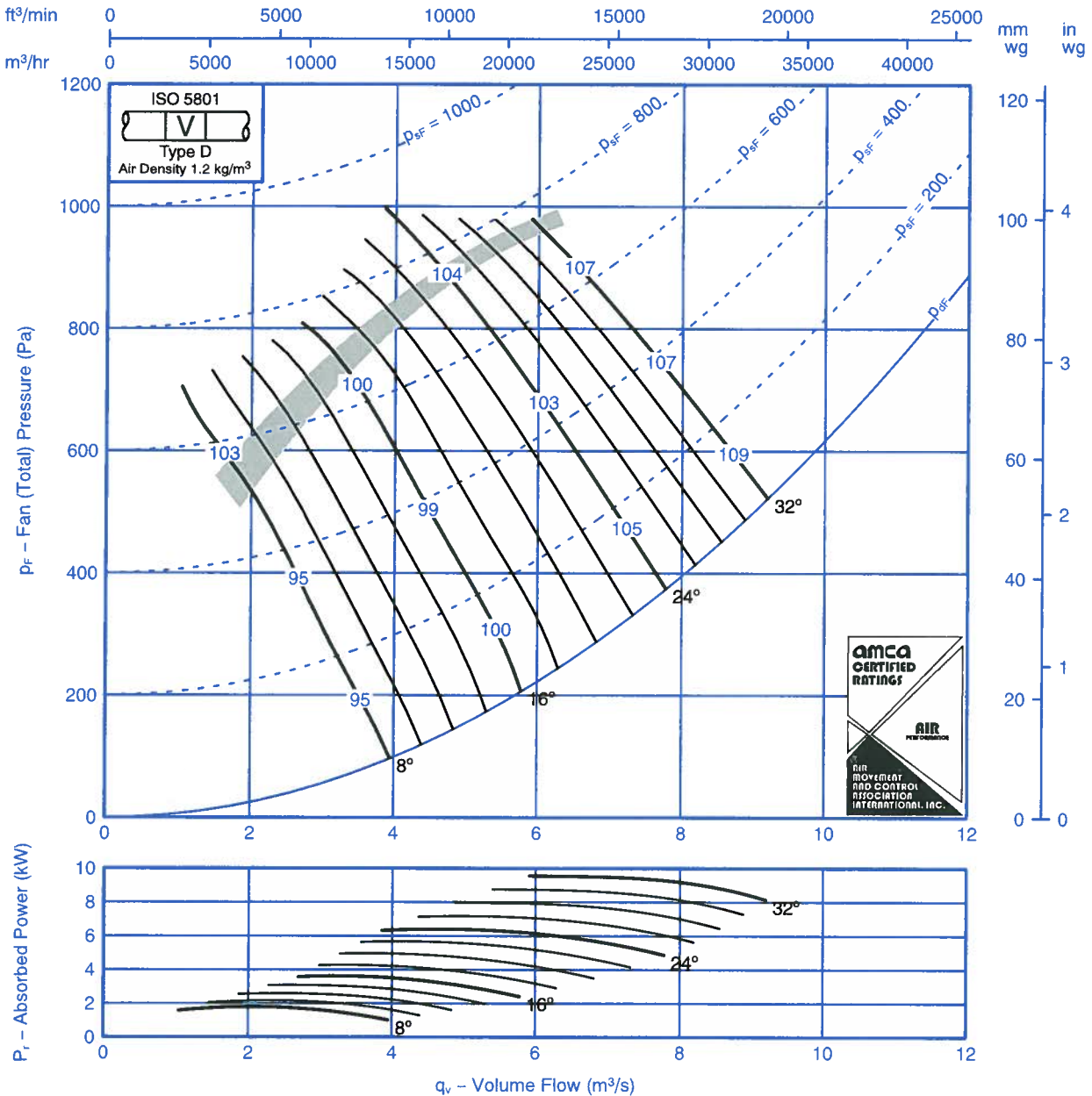
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-10	-9	-6	-5	-10	-18	-27	8	-11	-9	-7	-6	-4	-10	-17	-25
	-13	-10	-8	-7	-7	-8	-10	-16		-12	-10	-6	-7	-7	-9	-14	-14
16	-12	-11	-7	-4	-8	-11	-17	-23	16	-11	-10	-5	-4	-8	-10	-17	-22
	-9	-9	-5	-8	-11	-11	-12	-17		-7	-8	-3	-8	-11	-11	-12	-16
24 - 40	-6	-8	-5	-9	-13	-14	-19	-22	24 - 40	-4	-7	-4	-9	-13	-14	-17	-21
	-4	-7	-6	-10	-15	-16	-21	-26		-2	-6	-4	-10	-15	-16	-20	-25



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



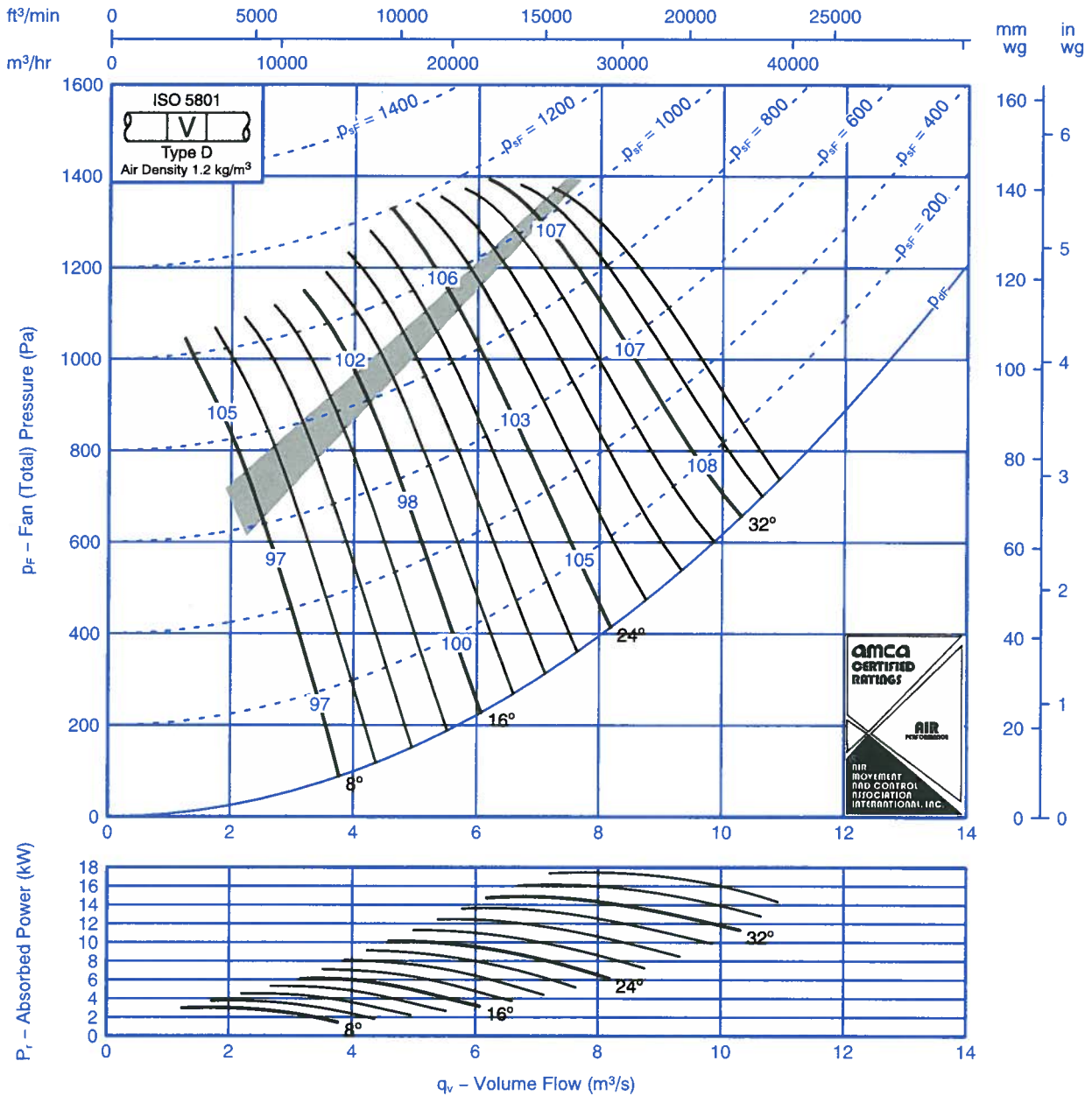
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-23	-12	-13	-8	-4	-8	-14	-21	8	-20	-9	-11	-8	-3	-7	-13	-18
	-16	-4	-7	-8	-11	-14	-15	-15		-15	-1	-5	-7	-11	-13	-13	-12
16	-16	-6	-6	-6	-7	-12	-17	-20	16	-15	-5	-6	-6	-7	-12	-16	-19
	-12	-4	-6	-8	-12	-16	-18	-20		-11	-1	-5	-8	-12	-16	-17	-19
24 - 32	-6	-5	-7	-9	-14	-17	-20	-23	24 - 32	-4	-3	-6	-9	-13	-16	-18	-20
	-7	-4	-6	-10	-15	-18	-21	-24		-5	-2	-5	-10	-15	-17	-19	-22

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

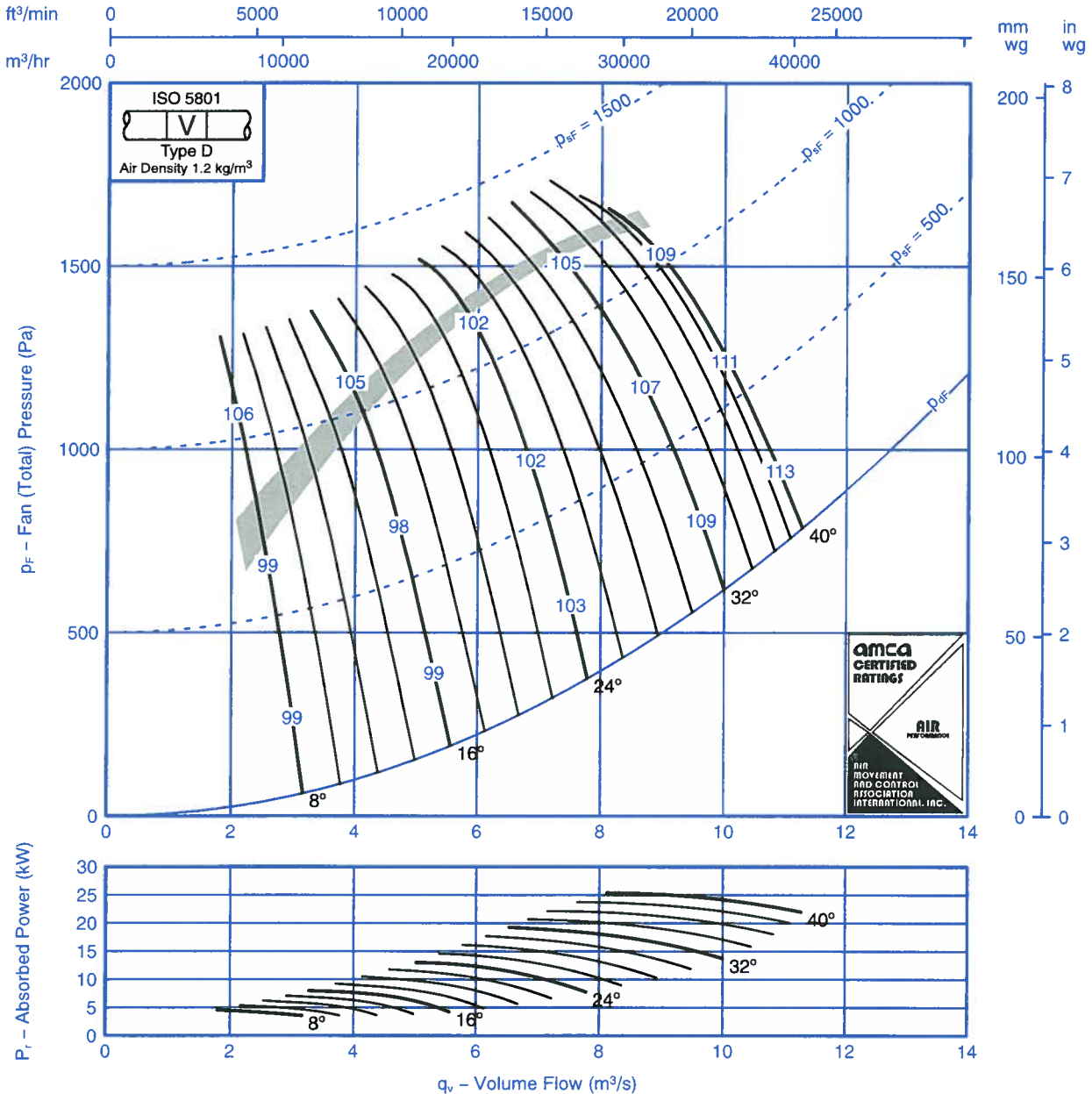
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-11	-11	-8	-5	-7	-13	-20	8	-17	-11	-10	-6	-4	-6	-12	-18
	-16	-6	-7	-8	-9	-11	-11	-12		-15	-6	-6	-7	-9	-10	-9	-10
16	-10	-7	-8	-5	-10	-11	-12	-17	16	-9	-7	-7	-5	-9	-11	-12	-16
	-11	-5	-6	-7	-12	-13	-14	-17		-10	-5	-5	-6	-12	-13	-14	-16
24 - 36	-6	-6	-8	-8	-11	-14	-17	-21	24 - 36	-4	-5	-8	-7	-11	-13	-15	-20
	-7	-5	-7	-9	-13	-16	-18	-23		-4	-4	-6	-8	-13	-16	-17	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

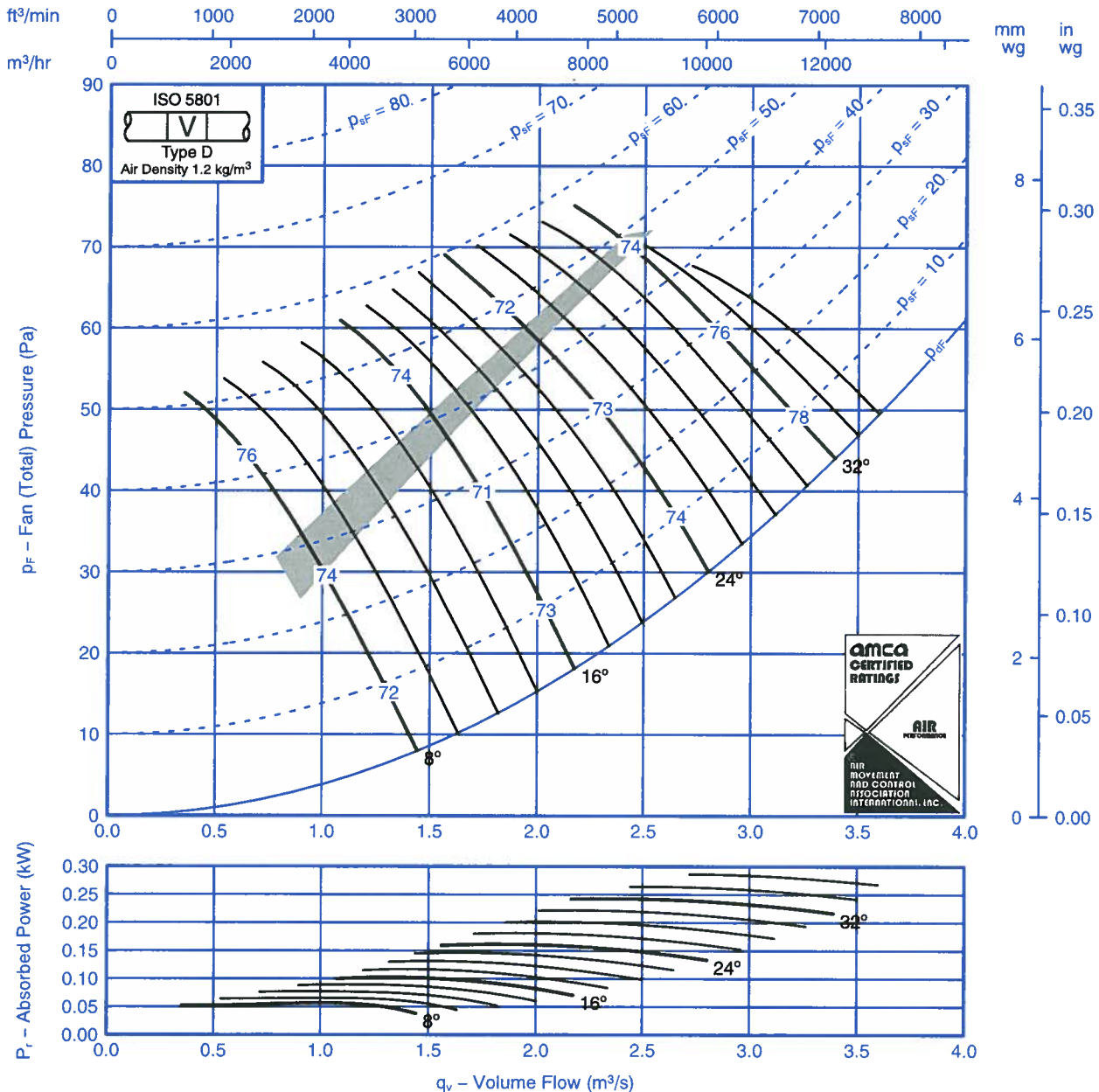
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-14	-10	-9	-6	-5	-11	-18	8	-14	-13	-10	-7	-6	-4	-10	-16
	-15	-13	-11	-8	-7	-7	-8	-11		-13	-13	-10	-6	-7	-6	-7	-9
16	-14	-13	-11	-7	-4	-8	-12	-17	16	-12	-13	-11	-5	-4	-8	-11	-17
	-9	-9	-9	-5	-9	-11	-12	-13		-8	-9	-9	-3	-9	-11	-12	-12
24 – 40	-7	-7	-9	-6	-10	-14	-16	-20	24 – 40	-6	-6	-8	-4	-10	-13	-14	-18
	-6	-6	-9	-8	-12	-16	-18	-22		-4	-5	-8	-6	-12	-16	-17	-21



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Sound Data BS848 Part 2 1985:

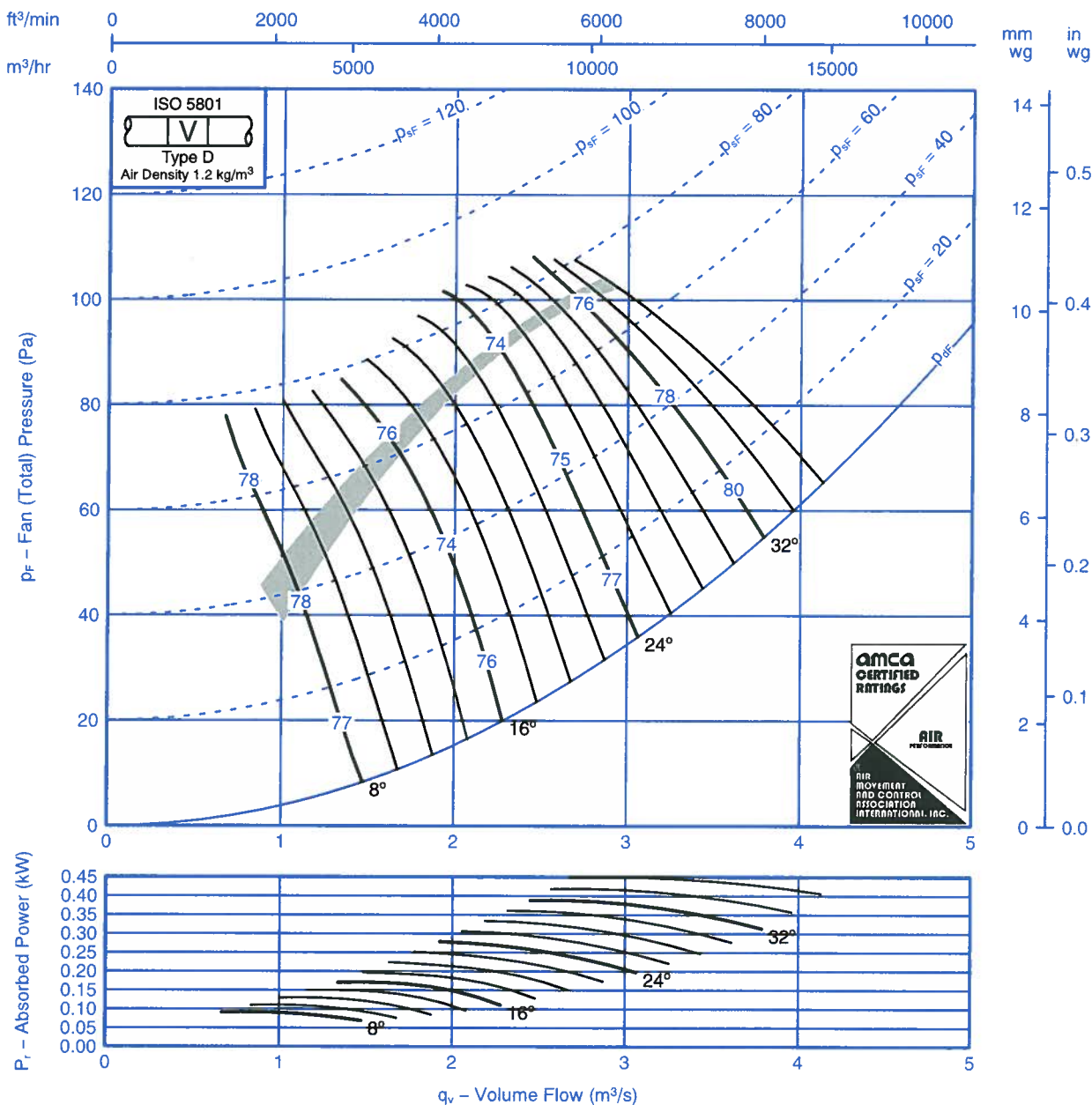
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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-7	-3	-8	-12	-19	-25	-35	8	-11	-6	-3	-8	-12	-19	-24	-32
	-8	-7	-6	-7	-9	-14	-20	-29		-7	-6	-6	-7	-9	-13	-19	-27
16	-9	-5	-5	-9	-11	-17	-22	-29	16	-8	-5	-5	-9	-11	-17	-20	-27
	-4	-5	-9	-12	-12	-15	-20	-26		-3	-5	-9	-12	-12	-15	-18	-24
24 – 36	-5	-6	-9	-10	-10	-14	-18	-25	24 – 36	-3	-6	-9	-10	-10	-14	-17	-23
	-3	-5	-10	-12	-13	-17	-20	-27		-2	-5	-10	-12	-13	-16	-19	-24



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Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-7	-4	-7	-11	-18	-25	-34	8	-9	-7	-4	-7	-11	-18	-24	-32
	-12	-9	-5	-5	-8	-16	-22	-32		-12	-9	-5	-5	-8	-14	-22	-31
16	-11	-6	-4	-8	-11	-18	-24	-34	16	-10	-6	-4	-8	-11	-18	-24	-32
	-6	-6	-7	-9	-10	-14	-19	-27		-6	-6	-7	-9	-10	-14	-19	-25
24 – 36	-5	-6	-7	-10	-11	-15	-19	-26	24 – 36	-4	-6	-7	-10	-11	-15	-18	-24
	-4	-5	-8	-12	-13	-17	-21	-28		-3	-5	-8	-12	-13	-17	-20	-26



BS 5750 Pt 1
EN 29001
ISO 9001

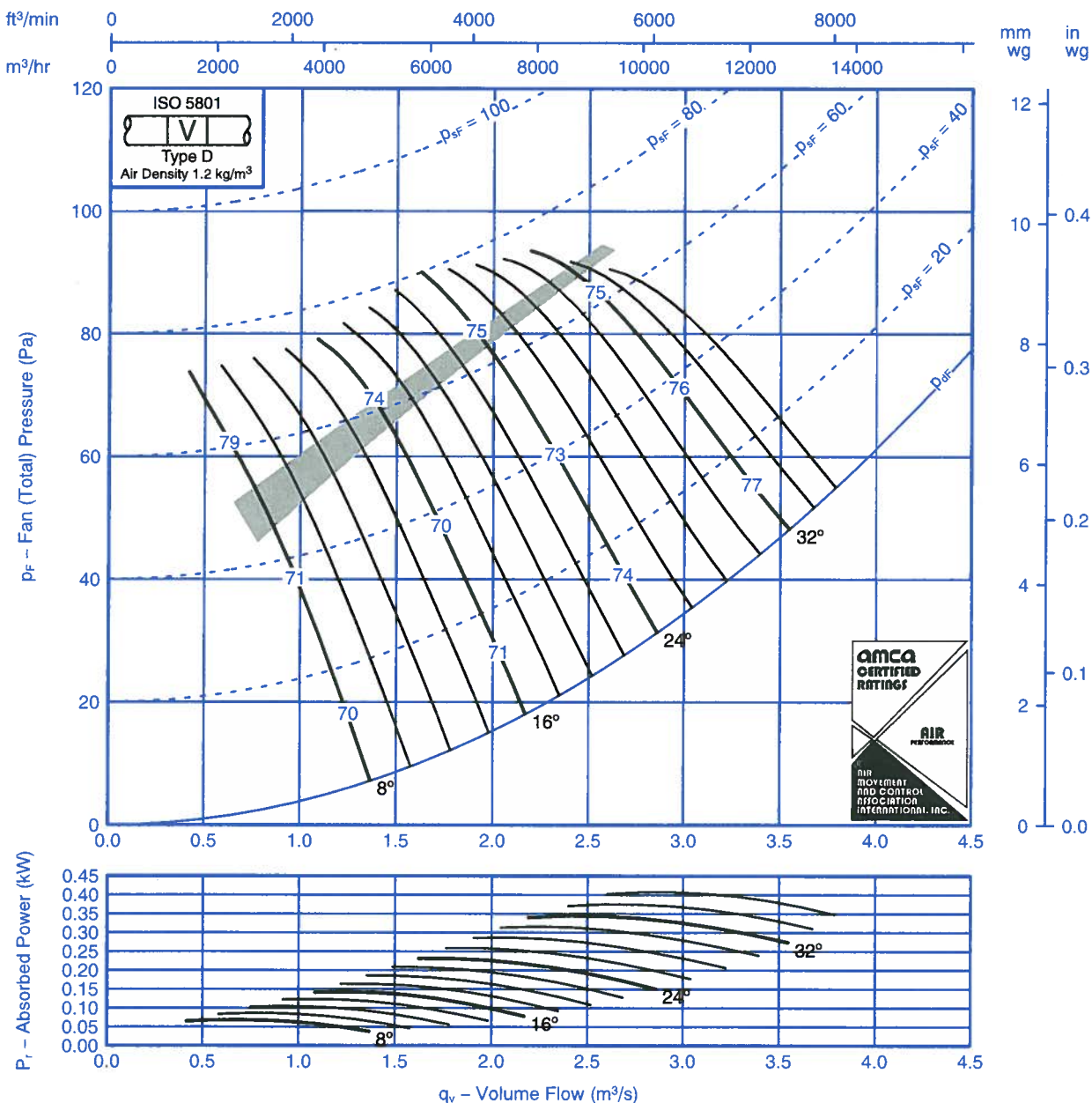
Fan Code: 71JM/25/8/6/...

710 mm 695 rev/min 6 Blades 50 Hz



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Sound Data BS848 Part 2 1985:

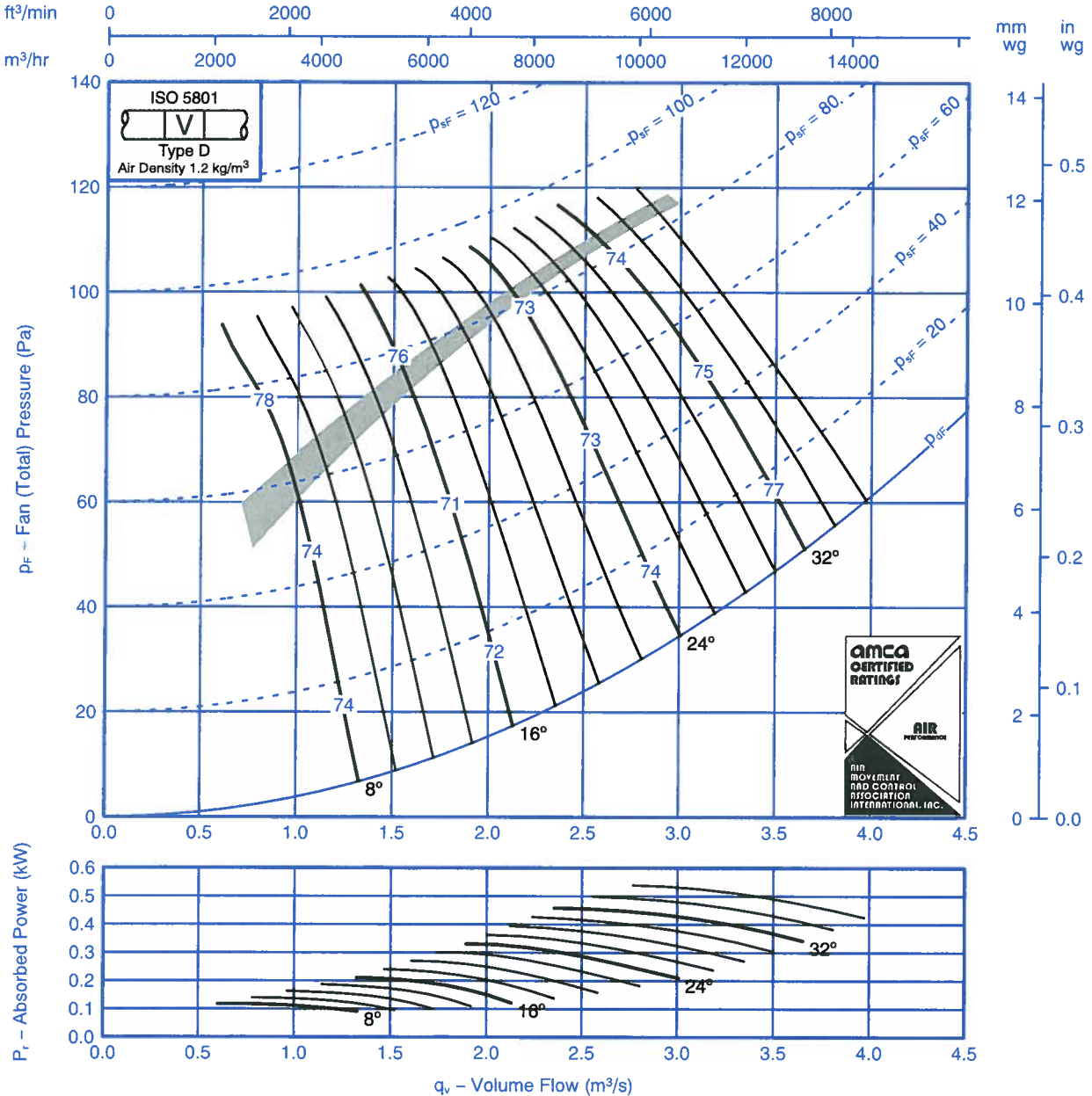
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-9	-4	-5	-12	-18	-26	-34	8	-11	-8	-4	-5	-12	-17	-25	-33
	-9	-8	-7	-6	-8	-10	-18	-26		-7	-8	-7	-6	-8	-10	-17	-24
16	-9	-6	-7	-6	-10	-14	-21	-27	16	-7	-5	-7	-6	-9	-14	-21	-27
	-6	-5	-8	-10	-12	-14	-20	-26		-4	-4	-8	-10	-12	-14	-20	-25
24 - 36	-6	-6	-7	-8	-12	-16	-19	-23	24 - 36	-4	-5	-7	-8	-11	-15	-17	-21
	-5	-6	-7	-10	-13	-16	-21	-25		-2	-5	-7	-10	-13	-16	-20	-24



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Sound Data BS848 Part 2 1985:

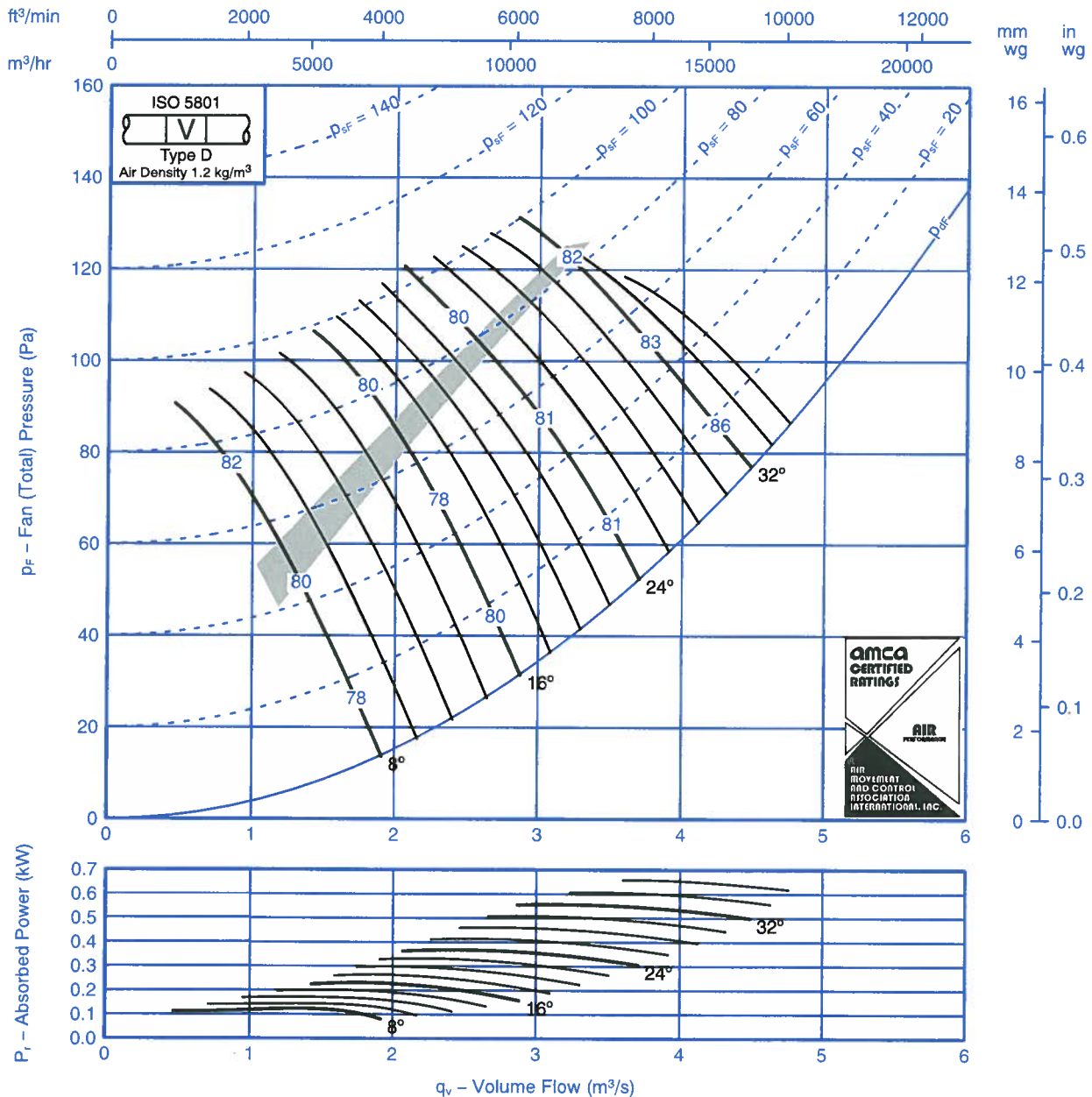
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-9	-6	-4	-10	-17	-26	-34	8	-8	-7	-6	-4	-10	-16	-25	-33
	-10	-8	-7	-6	-8	-10	-20	-27		-9	-6	-7	-6	-8	-9	-19	-26
16	-10	-7	-4	-7	-11	-16	-23	-30	16	-9	-6	-4	-7	-11	-16	-23	-29
	-9	-5	-6	-8	-10	-12	-20	-27		-7	-3	-6	-8	-10	-12	-20	-26
24 – 36	-8	-5	-6	-8	-11	-14	-18	-22	24 – 36	-6	-4	-6	-8	-11	-13	-17	-20
	-7	-5	-6	-9	-12	-15	-21	-25		-5	-3	-6	-9	-12	-15	-20	-24



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Sound Data BS848 Part 2 1985:

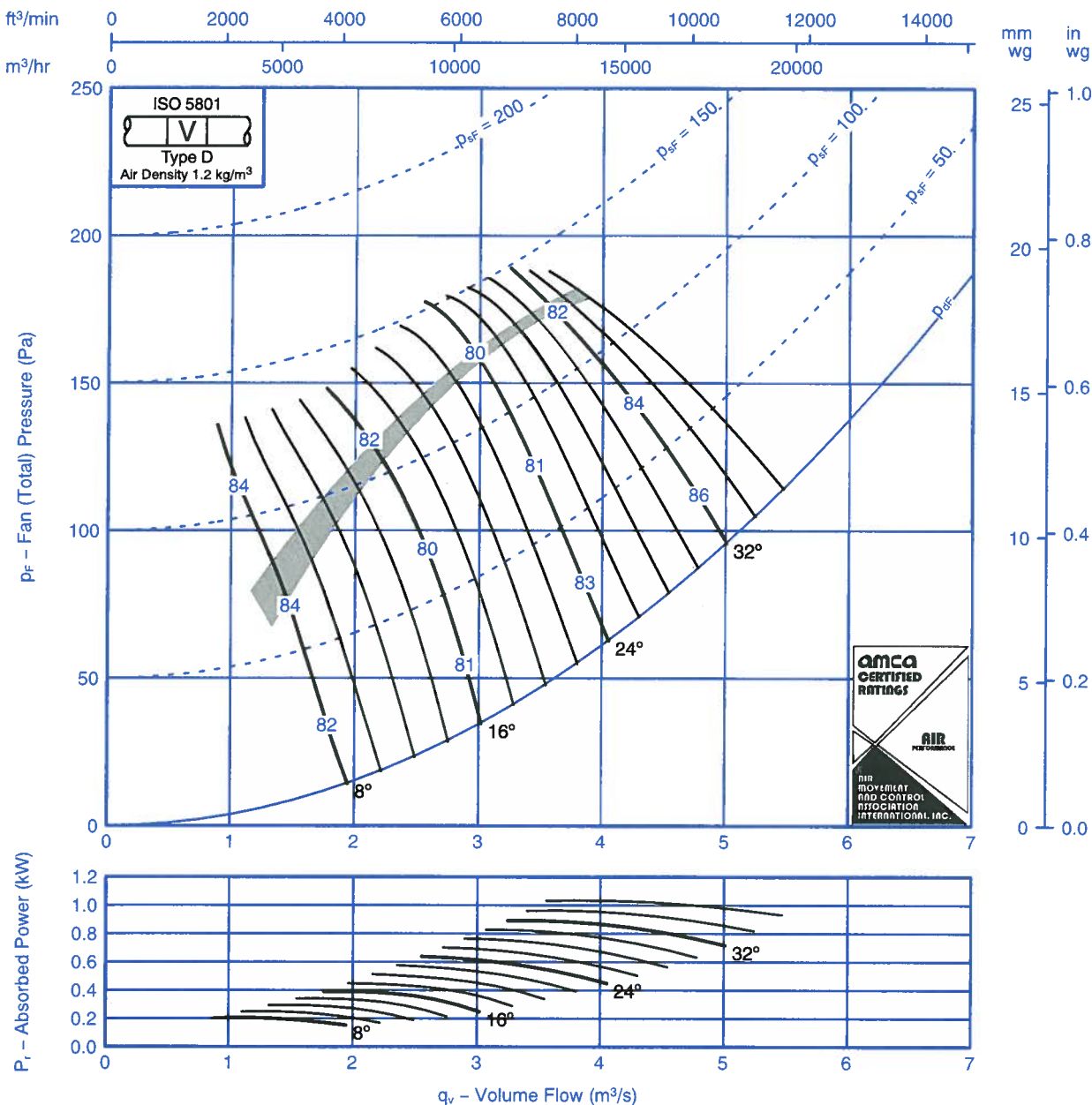
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-9	-3	-6	-11	-18	-23	-31	8	-10	-8	-3	-6	-11	-17	-22	-28
	-6	-8	-7	-7	-9	-14	-19	-27		-4	-8	-7	-7	-9	-12	-18	-25
16	-7	-7	-5	-8	-11	-16	-20	-27	16	-5	-7	-5	-8	-11	-16	-19	-24
	-2	-7	-10	-14	-13	-17	-20	-26		-2	-7	-10	-14	-13	-16	-19	-24
24 – 36	-4	-7	-9	-11	-10	-14	-17	-23	24 – 36	-2	-7	-9	-11	-10	-14	-16	-21
	-2	-7	-11	-13	-14	-18	-21	-26		-1	-7	-11	-13	-14	-17	-19	-24



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Sound Data BS848 Part 2 1985:

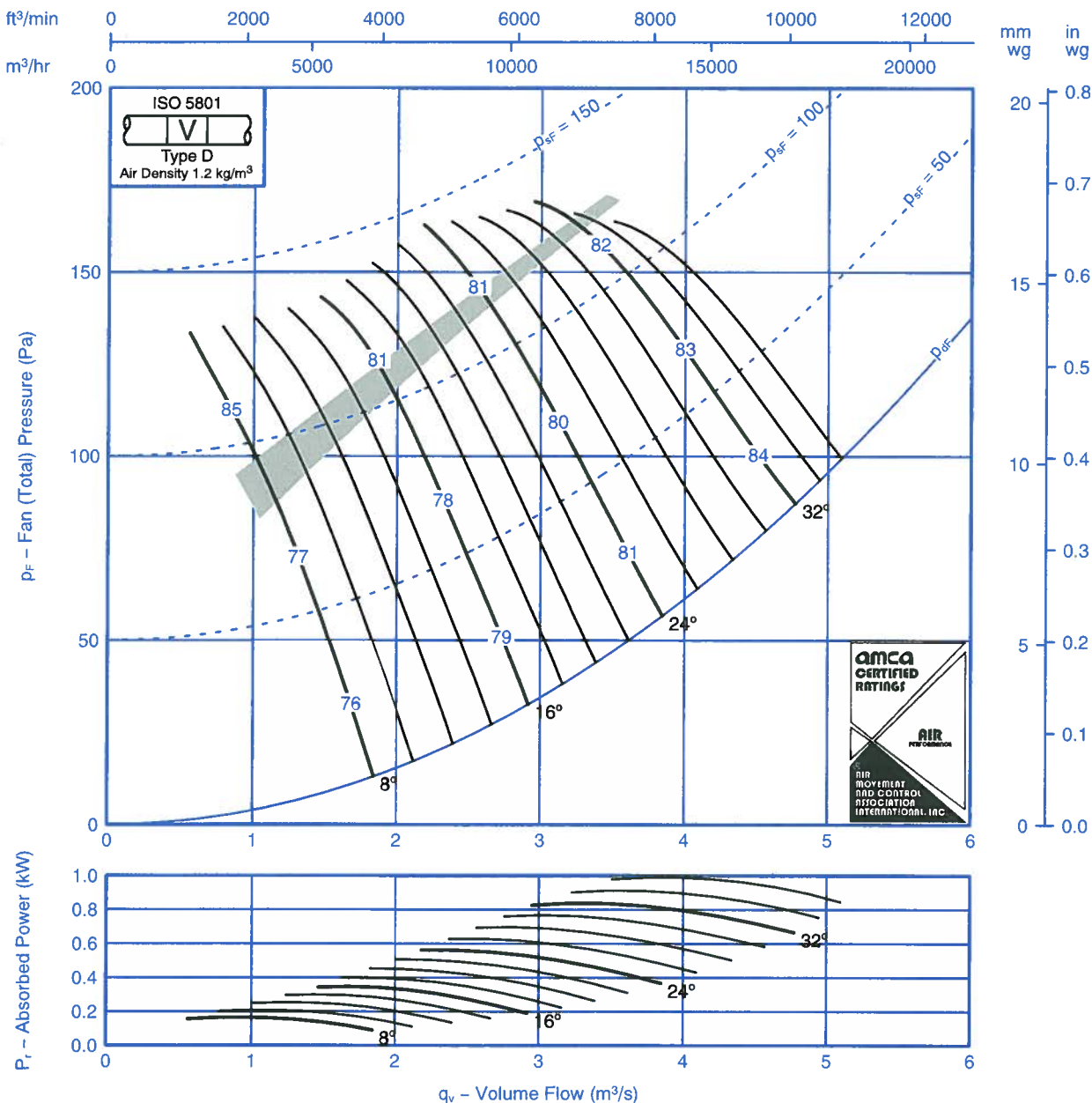
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-8	-4	-6	-10	-17	-23	-31	8	-11	-7	-4	-6	-10	-17	-22	-28
	-14	-9	-6	-4	-7	-14	-20	-28		-14	-9	-6	-4	-7	-13	-20	-27
16	-13	-7	-4	-7	-10	-16	-23	-30	16	-12	-7	-4	-7	-10	-16	-22	-28
	-8	-5	-6	-9	-10	-13	-18	-24		-8	-5	-6	-9	-10	-13	-17	-22
24 – 36	-7	-5	-6	-10	-11	-14	-18	-23	24 – 36	-6	-5	-6	-10	-11	-14	-17	-22
	-5	-4	-8	-11	-13	-17	-20	-25		-4	-4	-8	-11	-13	-17	-19	-24



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Sound Data BS848 Part 2 1985:

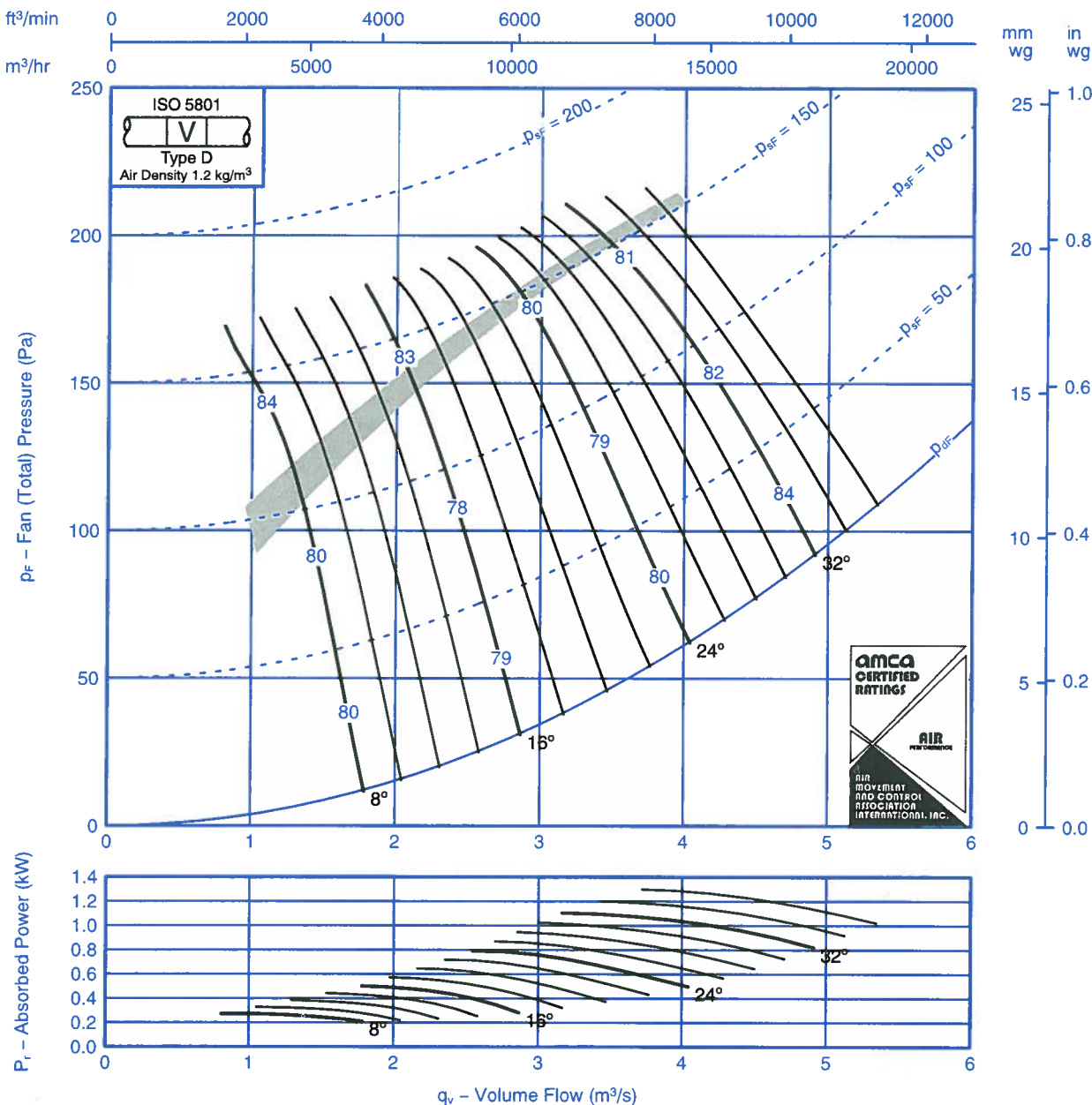
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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-10	-5	-4	-10	-16	-24	-31	8	-10	-9	-5	-4	-10	-16	-24	-29
	-7	-9	-8	-7	-8	-10	-17	-24		-5	-7	-8	-7	-8	-9	-16	-22
16	-7	-6	-7	-7	-9	-14	-20	-25	16	-6	-5	-7	-7	-9	-13	-20	-24
	-4	-6	-9	-11	-13	-14	-20	-25		-2	-4	-9	-11	-13	-14	-20	-24
24 – 36	-5	-6	-7	-9	-12	-15	-19	-21	24 – 36	-4	-5	-7	-9	-11	-14	-18	-19
	-4	-7	-8	-11	-13	-16	-21	-24		-1	-5	-8	-11	-13	-16	-20	-23



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Sound Data BS848 Part 2 1985:

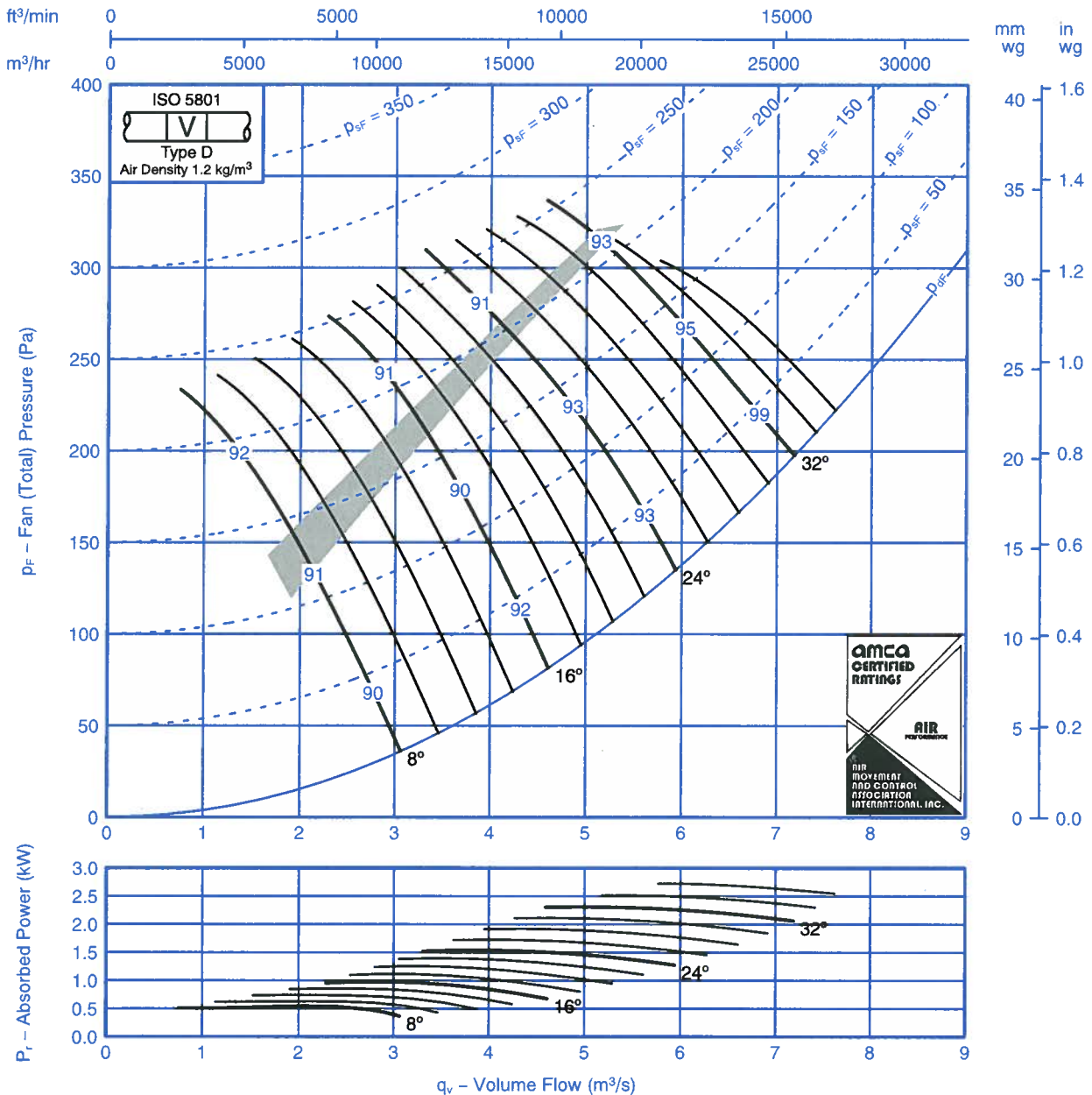
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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-9	-6	-5	-8	-15	-24	-30	8	-8	-7	-6	-5	-8	-14	-24	-29
	-10	-8	-8	-6	-8	-8	-18	-24		-9	-6	-7	-6	-8	-8	-16	-23
16	-10	-8	-5	-6	-9	-15	-21	-27	16	-9	-7	-5	-6	-9	-15	-21	-26
	-9	-5	-6	-9	-10	-12	-18	-24		-7	-3	-6	-9	-10	-12	-18	-24
24 – 36	-8	-6	-6	-8	-11	-14	-18	-20	24 – 36	-6	-4	-6	-8	-10	-13	-16	-18
	-7	-5	-6	-10	-12	-15	-20	-23		-4	-3	-6	-10	-12	-15	-19	-22



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If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

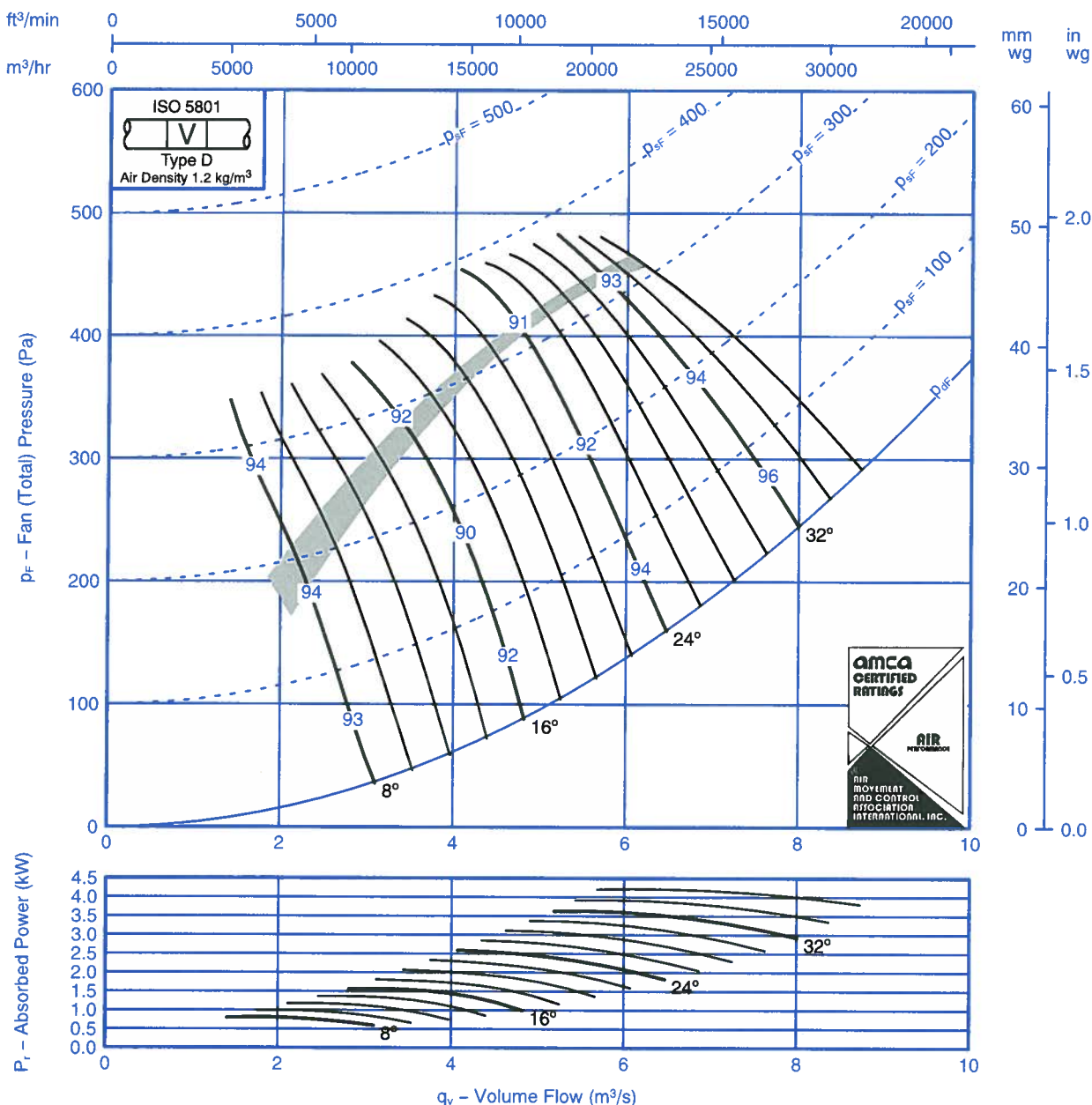
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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-15	-7	-4	-9	-13	-21	-27	8	-8	-13	-6	-3	-9	-12	-19	-23
	-5	-12	-9	-9	-10	-12	-17	-23		-3	-11	-8	-8	-9	-10	-15	-20
16	-6	-11	-6	-7	-12	-13	-19	-24	16	-5	-11	-6	-6	-11	-12	-17	-21
	-2	-9	-9	-14	-16	-16	-20	-24		-1	-8	-9	-14	-16	-15	-18	-22
24-36	-4	-9	-9	-13	-13	-14	-17	-22	24-36	-2	-8	-8	-12	-12	-13	-15	-19
	-2	-8	-10	-14	-16	-17	-21	-25		-1	-8	-9	-14	-16	-16	-19	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

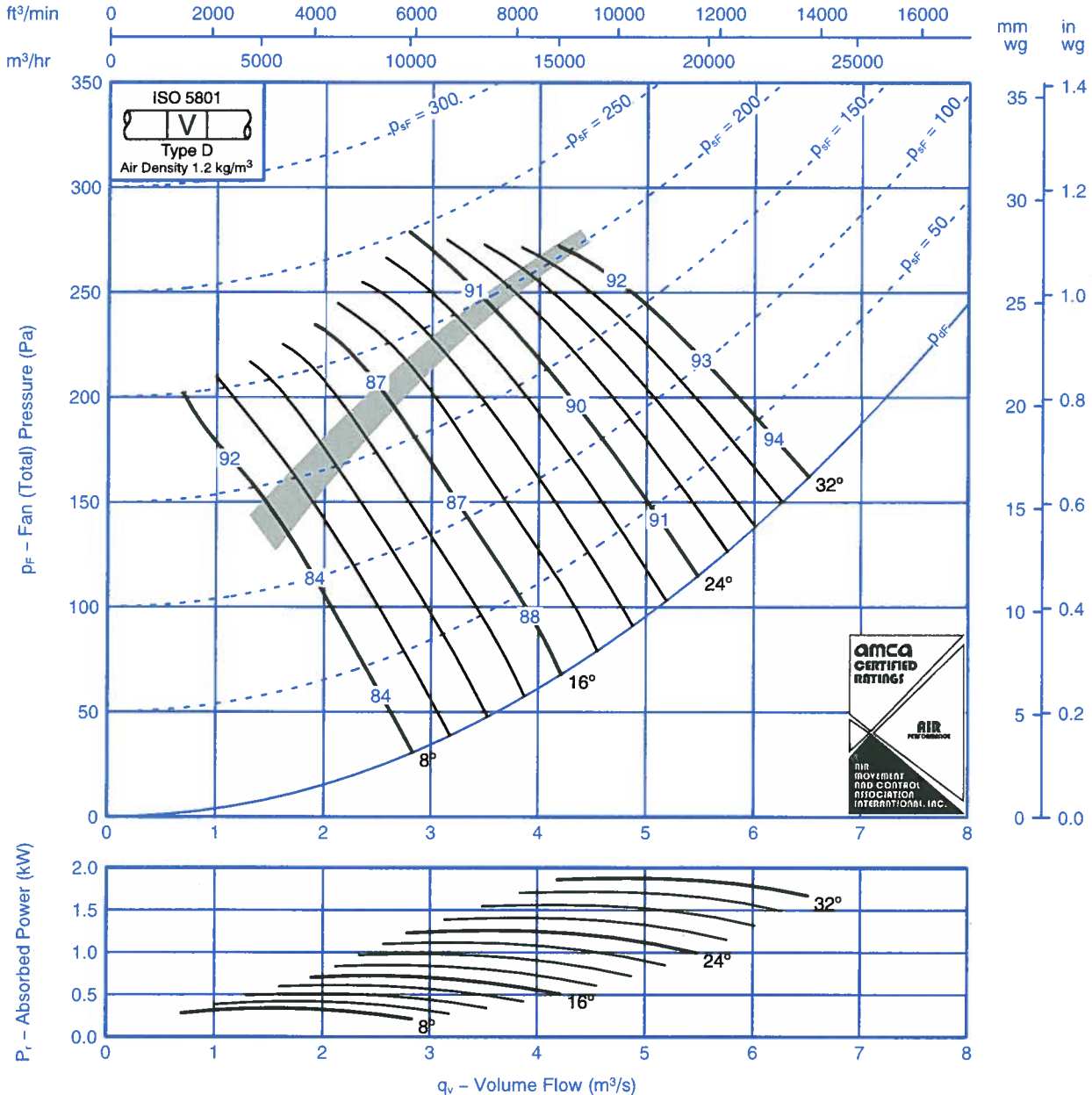
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-11	-8	-4	-8	-12	-20	-26	8	-15	-9	-7	-4	-8	-11	-19	-23
	-18	-12	-9	-5	-6	-8	-17	-23		-17	-11	-9	-5	-6	-7	-16	-21
16	-16	-11	-6	-5	-9	-11	-19	-25	16	-15	-10	-6	-4	-9	-11	-18	-23
	-11	-6	-6	-8	-10	-11	-15	-20		-11	-5	-6	-7	-10	-10	-14	-18
24 – 36	-10	-6	-7	-8	-12	-12	-16	-20	24 – 36	-8	-5	-7	-7	-11	-12	-15	-19
	-8	-5	-7	-10	-13	-14	-19	-23		-7	-4	-6	-9	-13	-14	-17	-21



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-14	-9	-4	-7	-14	-20	-28	8	-9	-12	-9	-3	-6	-13	-19	-25
	-4	-9	-9	-10	-11	-14	-14	-21		-1	-7	-8	-9	-11	-12	-12	-19
16	-6	-8	-7	-8	-11	-15	-18	-21	16	-3	-6	-7	-8	-10	-14	-17	-20
	-3	-7	-9	-11	-14	-17	-18	-24		-1	-6	-9	-11	-14	-16	-17	-22
24 - 32	-4	-6	-9	-11	-13	-16	-19	-22	24 - 32	-2	-5	-8	-10	-12	-15	-17	-19
	-4	-7	-10	-12	-13	-16	-19	-22		0	-5	-10	-11	-13	-15	-18	-20



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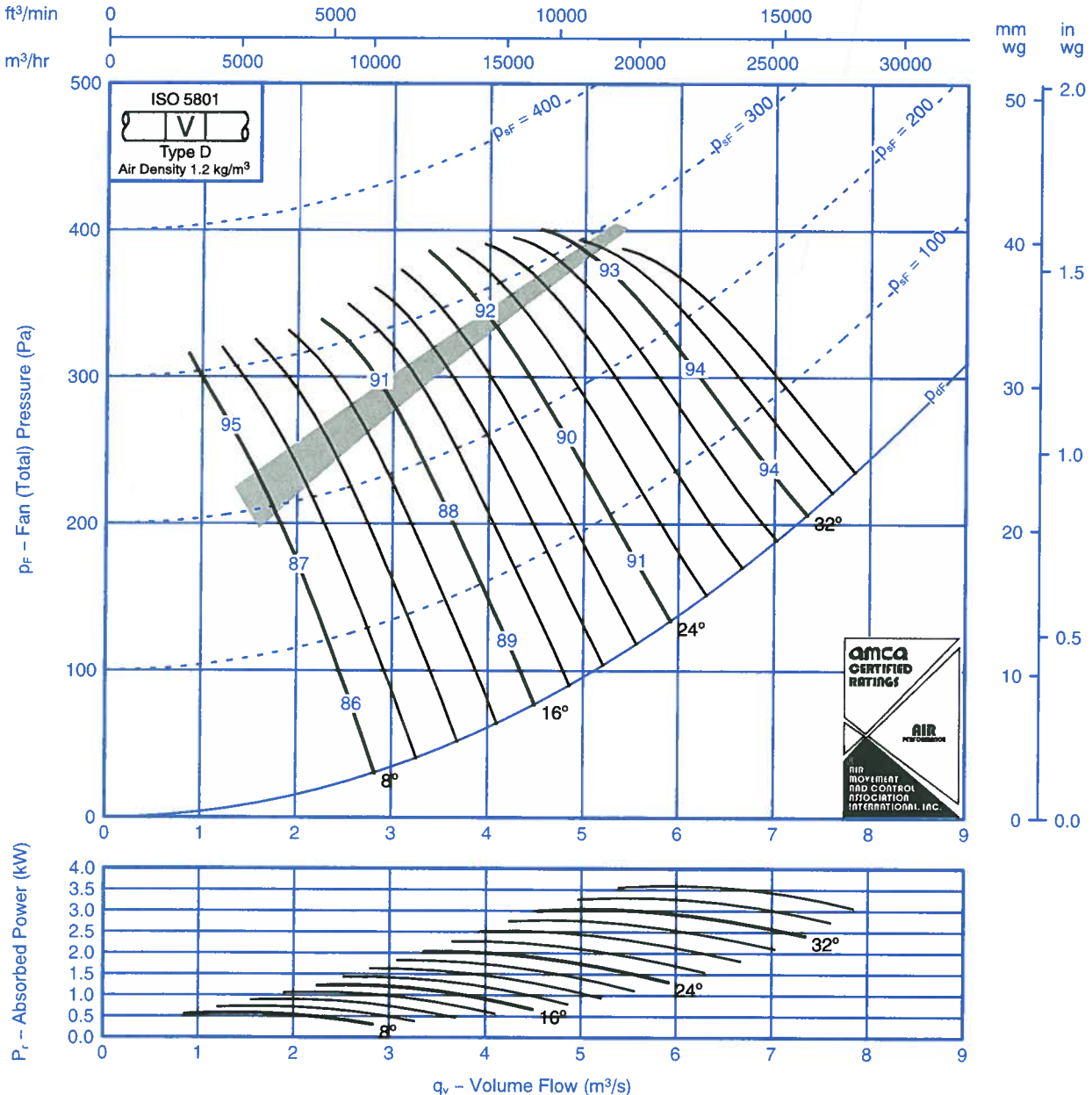
Fan Code: 71JM/25/4/6/...

710 mm 1440 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

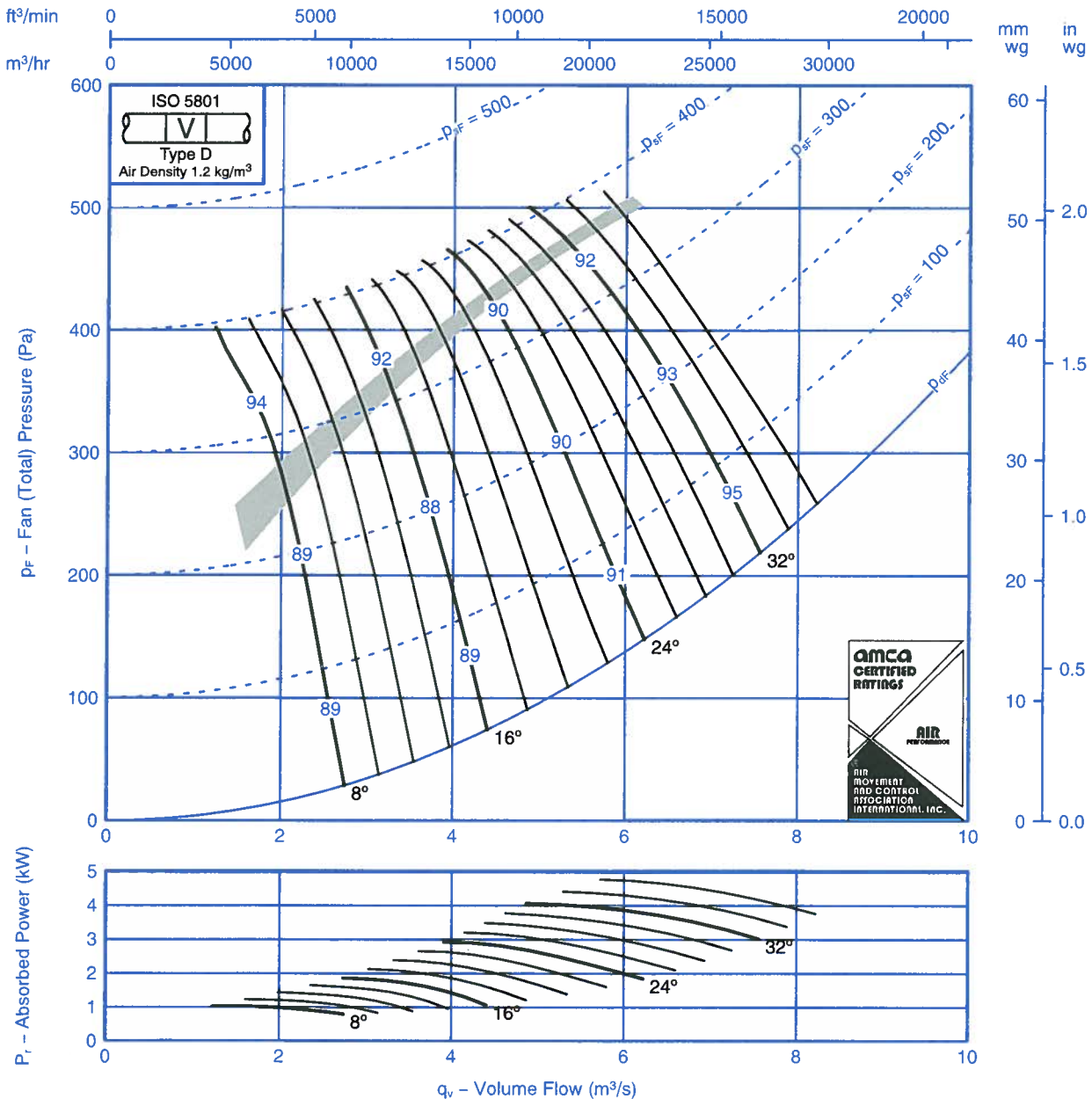
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-14	-10	-5	-6	-13	-19	-27	8	-11	-11	-8	-4	-5	-12	-18	-25
	-8	-11	-10	-8	-8	-9	-12	-20		-7	-9	-8	-8	-7	-8	-10	-18
16	-8	-11	-7	-8	-8	-12	-17	-23	16	-6	-9	-6	-8	-7	-10	-16	-21
	-5	-8	-7	-11	-12	-14	-16	-22		-3	-7	-5	-10	-11	-13	-16	-21
24 - 36	-5	-8	-8	-9	-10	-14	-18	-21	24 - 32	-3	-7	-7	-8	-10	-13	-16	-19
	-4	-7	-8	-10	-12	-15	-19	-23		-2	-5	-7	-10	-12	-15	-18	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

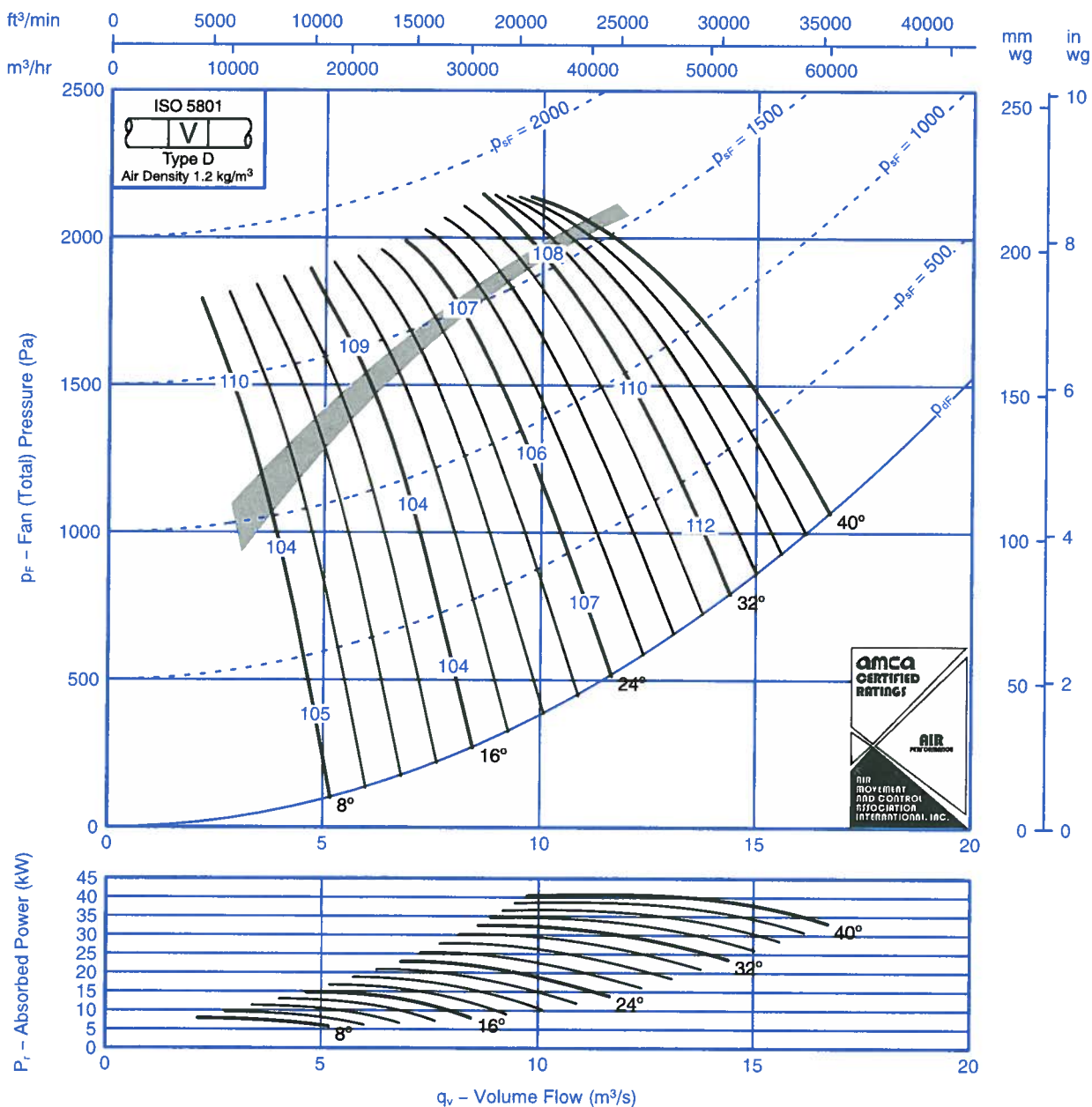
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-12	-11	-10	-6	-5	-11	-18	-27	8	-9	-9	-7	-6	-4	-10	-17	-25
	-12	-11	-8	-7	-7	-8	-11	-21		-10	-10	-6	-7	-7	-7	-9	-19
16	-10	-11	-7	-5	-8	-12	-17	-24	16	-9	-10	-6	-5	-7	-11	-17	-23
	-8	-10	-6	-7	-9	-12	-14	-22		-6	-9	-4	-7	-9	-11	-13	-21
24 - 36	-6	-10	-7	-8	-10	-13	-17	-20	24 - 36	-4	-9	-6	-7	-9	-12	-15	-18
	-5	-9	-7	-8	-11	-14	-18	-23		-3	-8	-5	-8	-11	-14	-17	-21



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

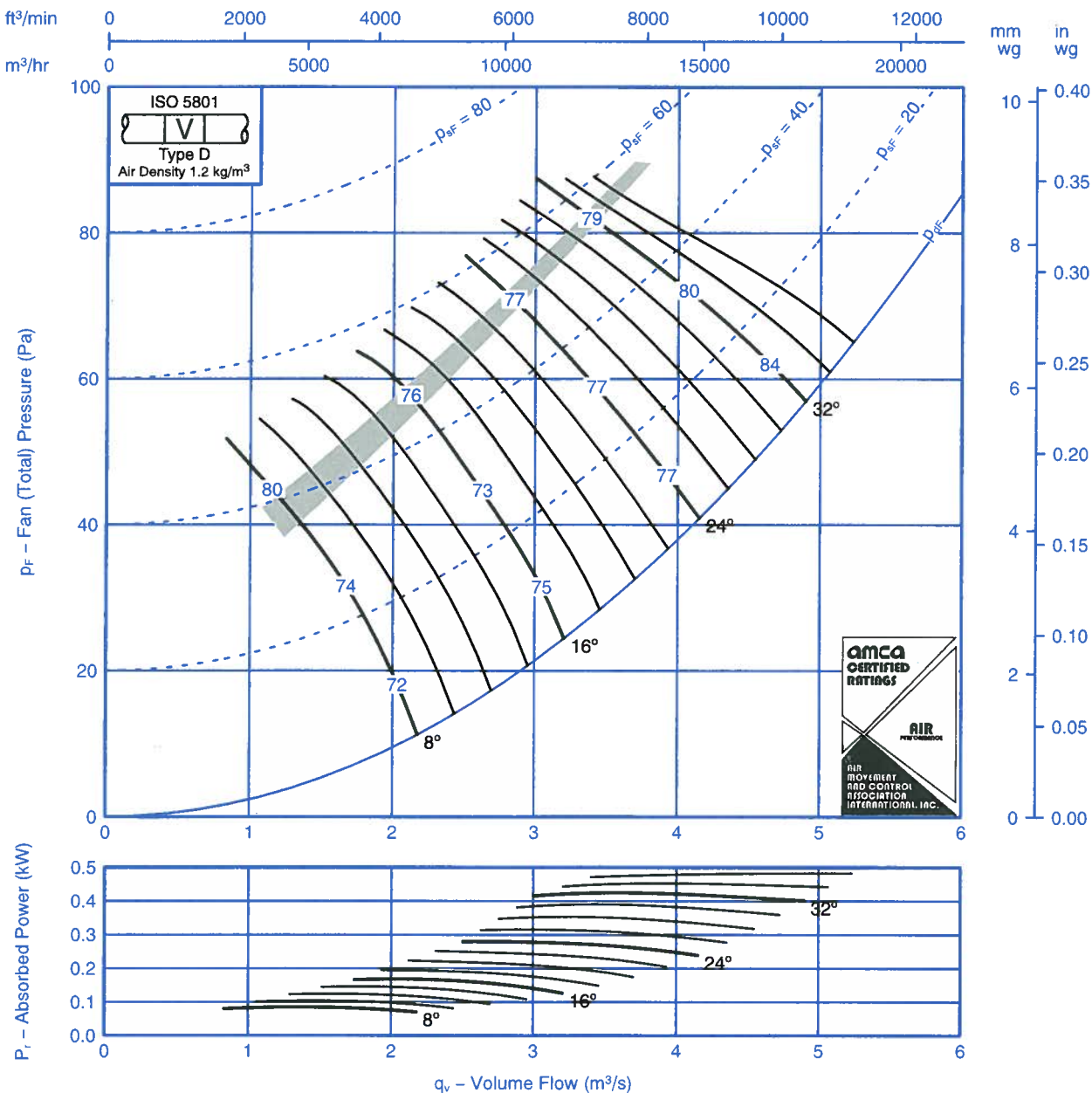
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-12	-11	-10	-6	-5	-12	-19	8	-11	-11	-10	-7	-6	-4	-11	-17
	-13	-12	-11	-9	-7	-7	-8	-11		-11	-11	-10	-7	-7	-6	-7	-9
16	-11	-11	-12	-8	-6	-8	-13	-19	16	-9	-10	-11	-6	-5	-7	-12	-17
	-8	-9	-11	-7	-8	-10	-13	-15		-7	-8	-10	-5	-8	-10	-12	-14
24 – 40	-6	-7	-12	-8	-9	-12	-15	-18	24 – 40	-4	-6	-11	-7	-8	-10	-13	-16
	-6	-7	-11	-8	-9	-13	-16	-19		-4	-6	-10	-6	-9	-12	-14	-18



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-8	-3	-7	-10	-18	-23	-32	8	-15	-8	-3	-7	-10	-17	-22	-29
	-11	-8	-6	-6	-8	-14	-19	-27		-9	-8	-6	-6	-8	-13	-18	-26
16	-9	-7	-5	-9	-9	-12	-15	-22	16	-8	-7	-5	-9	-9	-12	-14	-19
	-5	-5	-9	-11	-11	-13	-16	-22		-5	-5	-9	-11	-11	-13	-15	-20
24 – 36	-7	-7	-9	-8	-6	-11	-15	-23	24 – 36	-6	-7	-9	-8	-6	-11	-14	-22
	-5	-6	-9	-10	-9	-13	-17	-25		-4	-6	-9	-10	-9	-13	-16	-22



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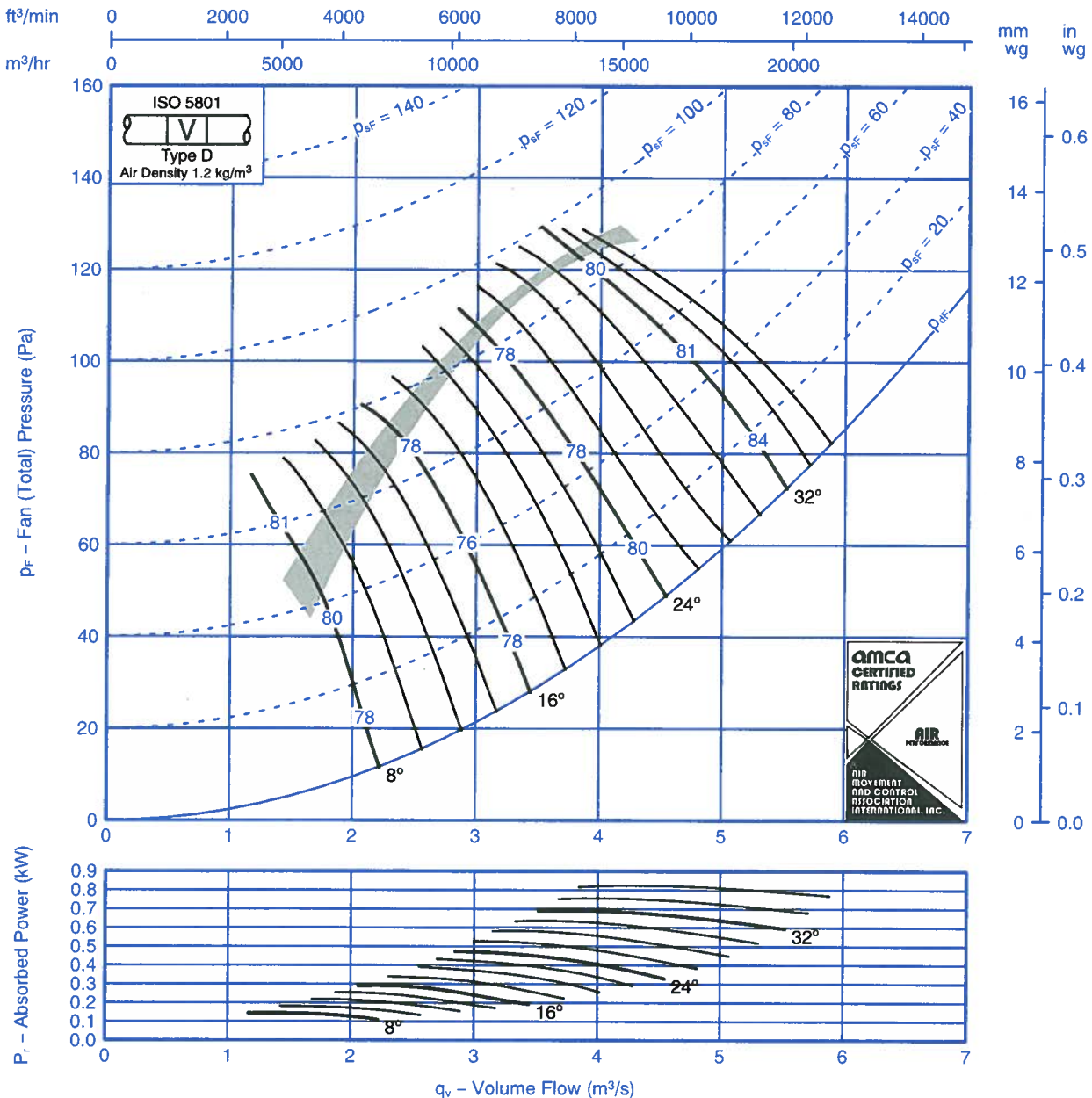
Fan Code: 80JM/20/8/6/...

800 mm 695 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

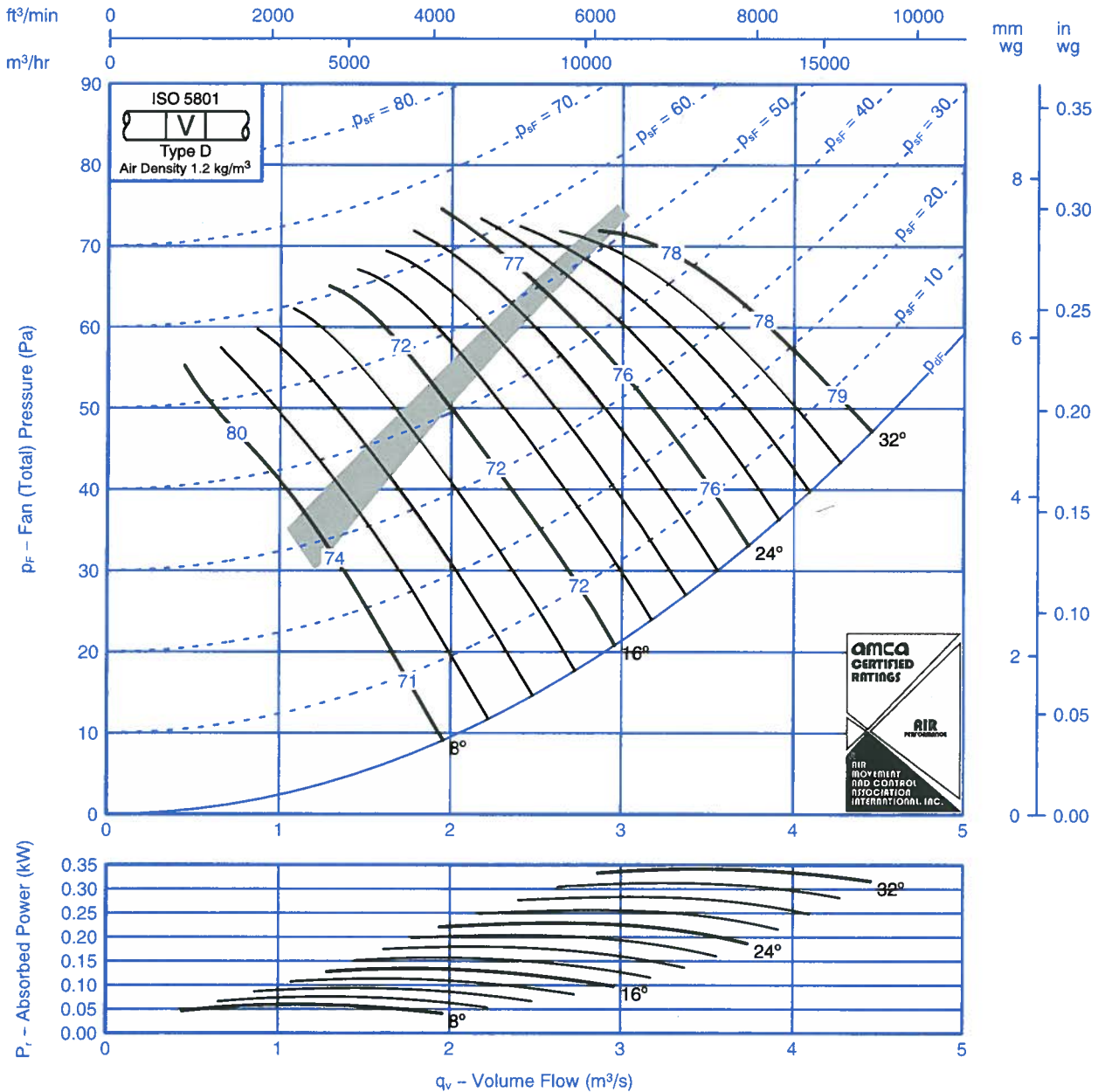
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-7	-4	-6	-9	-18	-24	-32	8	-12	-7	-4	-6	-9	-18	-23	-30
	-14	-10	-6	-5	-6	-15	-21	-29		-13	-10	-6	-5	-6	-14	-20	-28
16	-14	-6	-3	-8	-11	-19	-24	-33	16	-13	-6	-3	-8	-11	-19	-23	-31
	-7	-6	-7	-9	-9	-13	-18	-24		-7	-6	-7	-9	-9	-13	-17	-23
24 - 36	-8	-7	-6	-9	-8	-12	-16	-23	24 - 36	-7	-7	-6	-9	-8	-12	-16	-22
	-5	-6	-7	-11	-11	-15	-18	-25		-4	-6	-7	-11	-11	-14	-17	-23



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

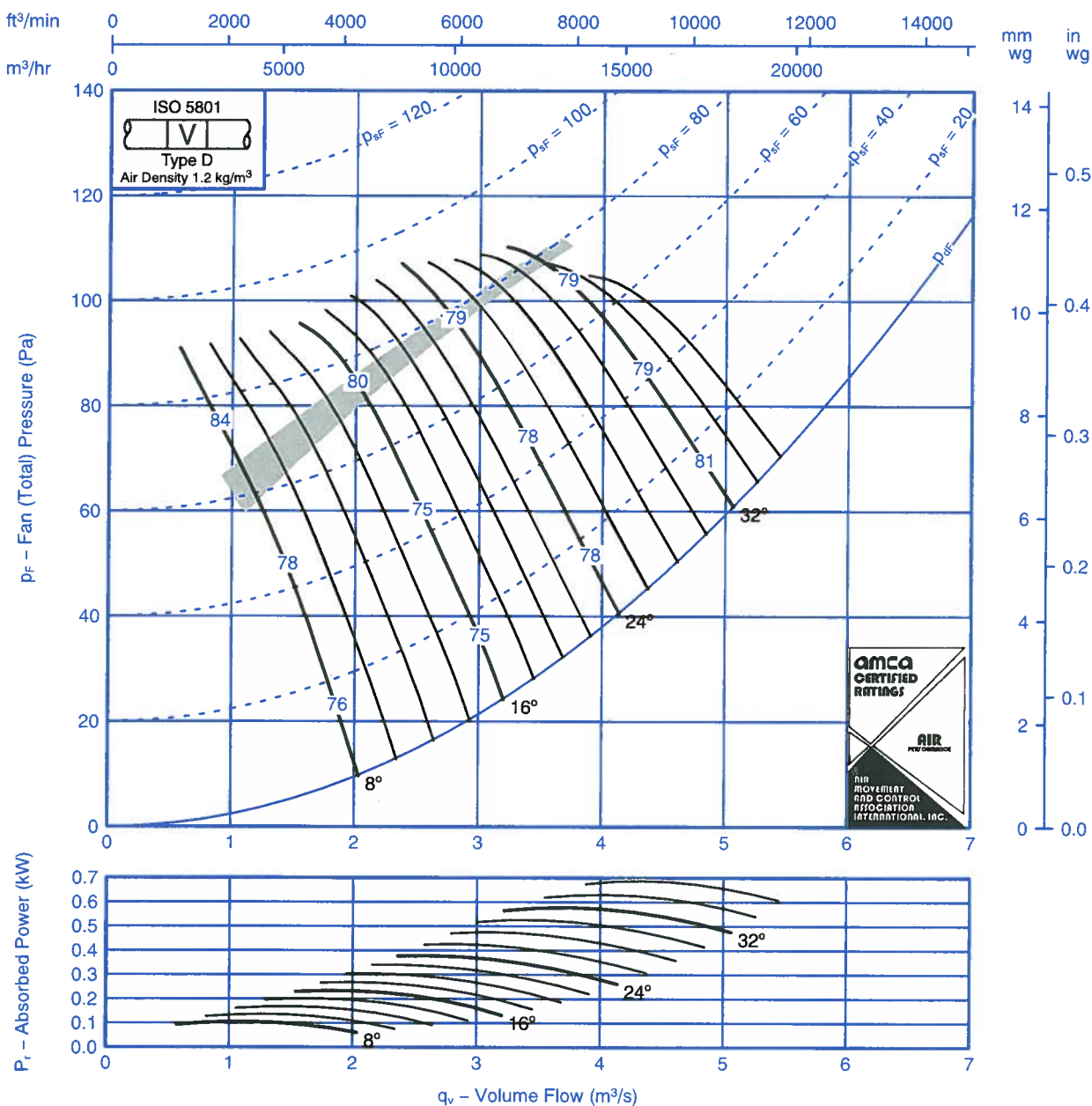
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-10	-3	-5	-13	-18	-24	-34	8	-13	-10	-3	-6	-13	-18	-24	-31
	-8	-8	-6	-6	-10	-11	-16	-23		-7	-8	-6	-7	-11	-10	-15	-21
16	-6	-7	-7	-7	-11	-13	-16	-22	16	-5	-7	-7	-8	-11	-13	-15	-20
	-5	-7	-7	-9	-12	-14	-17	-23		-4	-7	-7	-9	-13	-13	-16	-21
24 - 32	-5	-7	-8	-8	-12	-15	-19	-24	24 - 32	-4	-7	-8	-9	-12	-15	-17	-23
	-5	-8	-7	-7	-10	-13	-17	-22		-5	-8	-7	-8	-11	-13	-15	-19



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

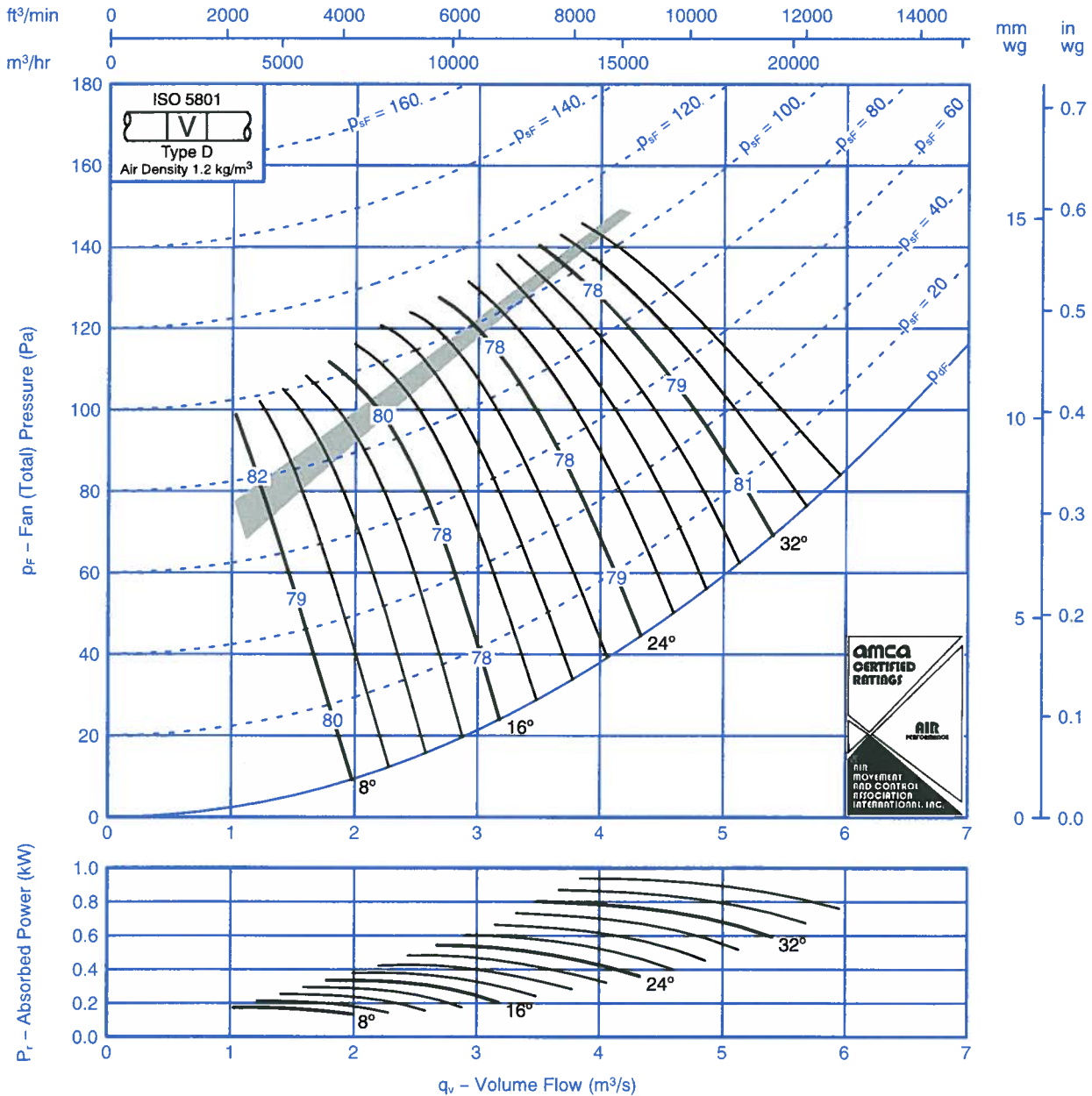
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-11	-4	-3	-12	-18	-25	-34	8	-14	-11	-4	-4	-13	-18	-24	-32
	-14	-11	-7	-4	-7	-12	-18	-27		-14	-11	-7	-5	-8	-11	-18	-26
16	-12	-8	-7	-4	-10	-15	-21	-29	16	-11	-8	-7	-4	-11	-15	-21	-28
	-8	-4	-8	-8	-11	-14	-18	-24		-8	-4	-8	-9	-11	-13	-17	-23
24-36	-7	-7	-7	-6	-11	-14	-17	-23	24-36	-7	-7	-7	-7	-11	-14	-17	-22
	-7	-7	-7	-7	-11	-14	-18	-23		-6	-7	-7	-7	-12	-14	-17	-22



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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-9	-6	-4	-10	-17	-26	-34	8	-9	-7	-6	-5	-10	-17	-25	-32
	-10	-8	-7	-6	-8	-10	-20	-27		-10	-7	-7	-8	-8	-8	-19	-26
16	-10	-6	-5	-6	-12	-17	-22	-30	16	-9	-6	-5	-7	-12	-17	-21	-28
	-11	-6	-5	-7	-11	-14	-19	-26		-10	-6	-5	-8	-11	-14	-19	-25
24 – 36	-11	-8	-6	-5	-10	-13	-17	-22	24 – 36	-9	-8	-6	-6	-10	-13	-16	-20
	-9	-7	-5	-7	-11	-14	-18	-24		-9	-6	-5	-7	-12	-14	-17	-22



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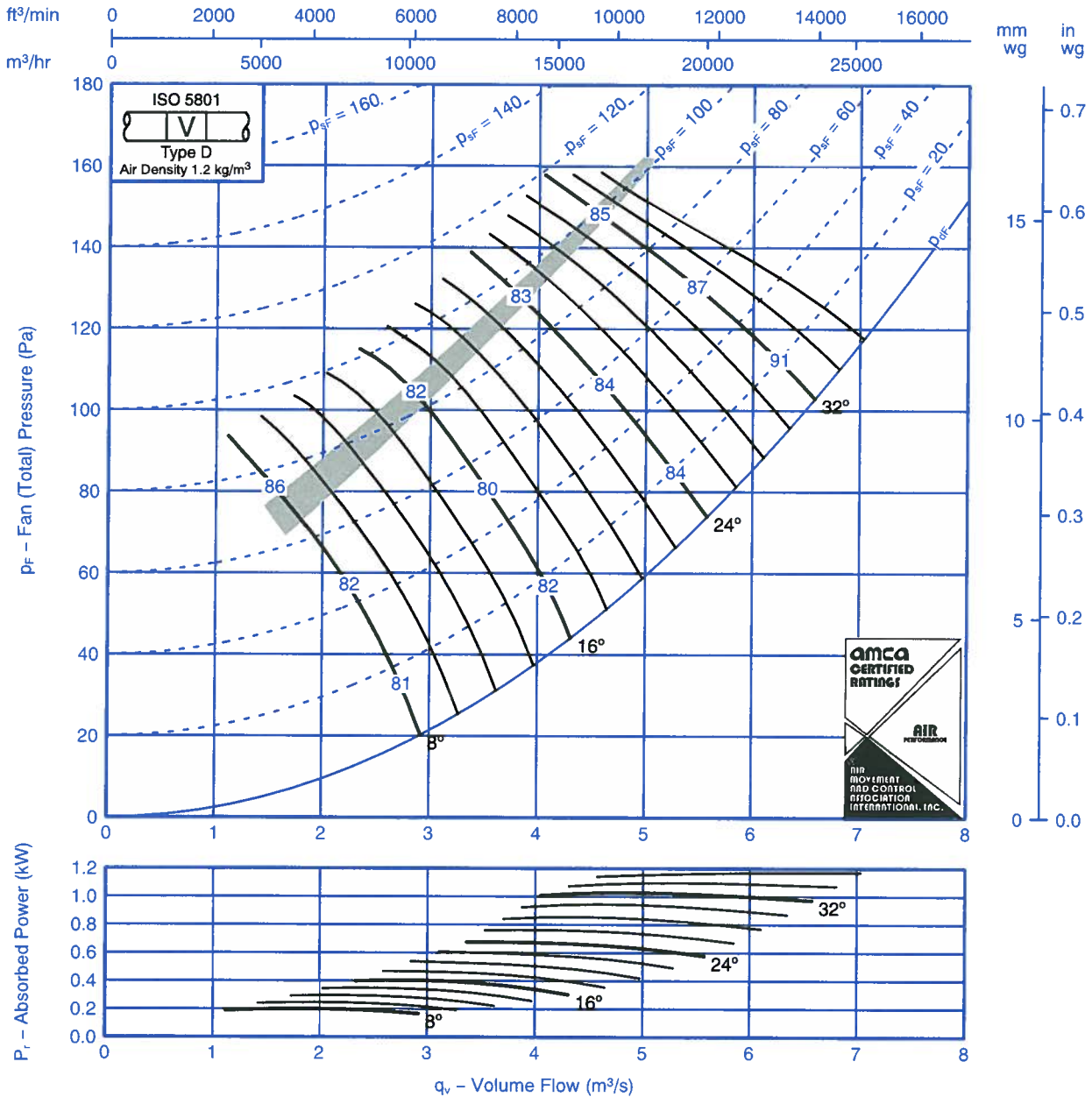
Fan Code: 80JM/20/6/3/...

800 mm 935 rev/min 3 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-10	-3	-7	-9	-17	-22	-29	8	-14	-10	-3	-7	-9	-16	-21	-26
	-9	-9	-7	-6	-7	-13	-18	-24		-8	-9	-7	-6	-7	-12	-17	-23
16	-8	-8	-6	-8	-9	-12	-14	-20	16	-6	-8	-6	-8	-9	-12	-13	-18
	-4	-6	-8	-12	-11	-14	-16	-21		-3	-6	-8	-12	-11	-14	-15	-19
24-36	-6	-8	-9	-9	-6	-11	-14	-21	24-36	-5	-8	-10	-9	-6	-11	-13	-19
	-4	-6	-9	-11	-10	-14	-17	-23		-3	-6	-9	-11	-10	-13	-15	-21



BS 5750 Pt 1
EN 29001
ISO 9001

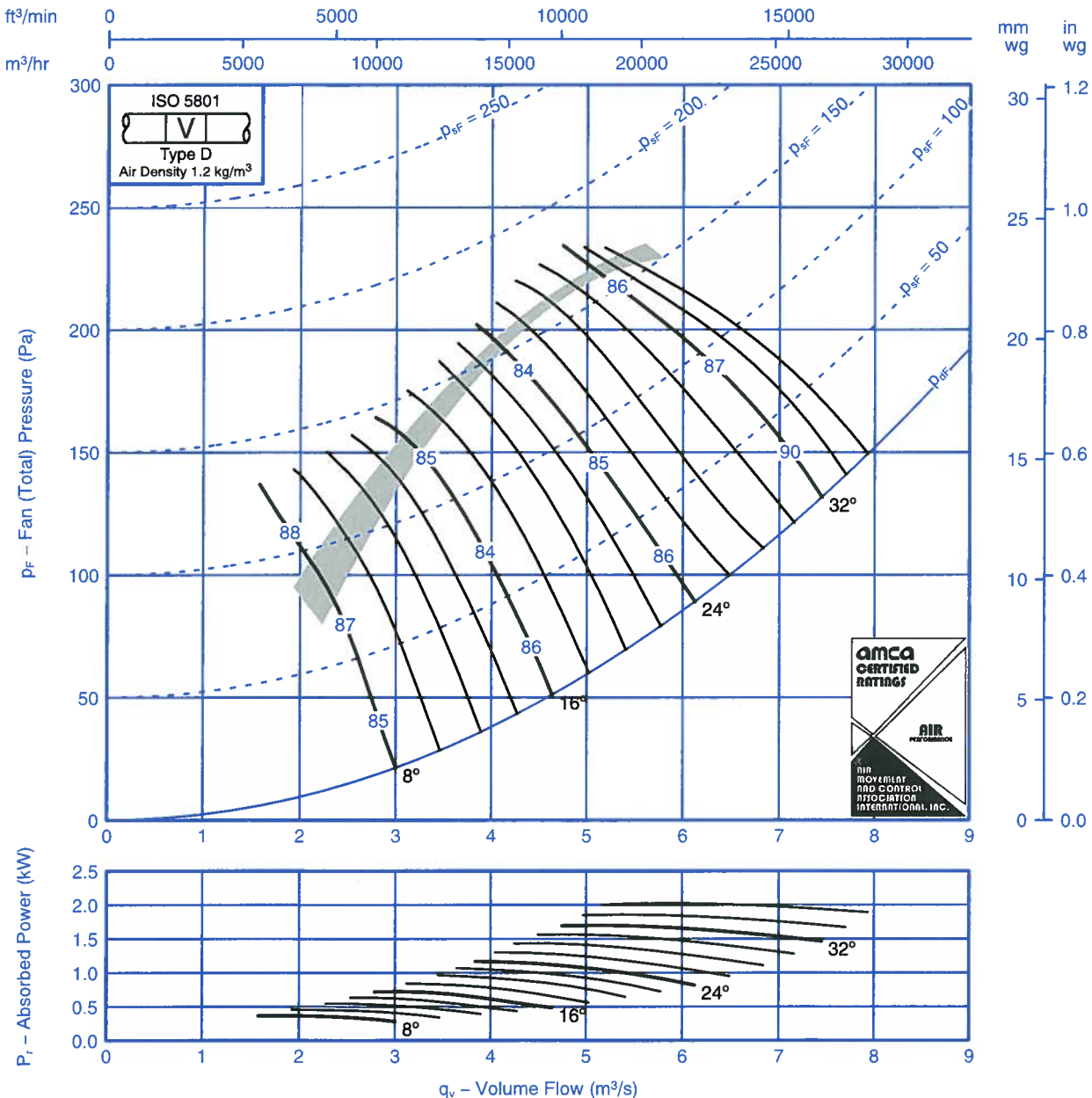
Fan Code: 80JM/20/6/6/...

800 mm 935 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

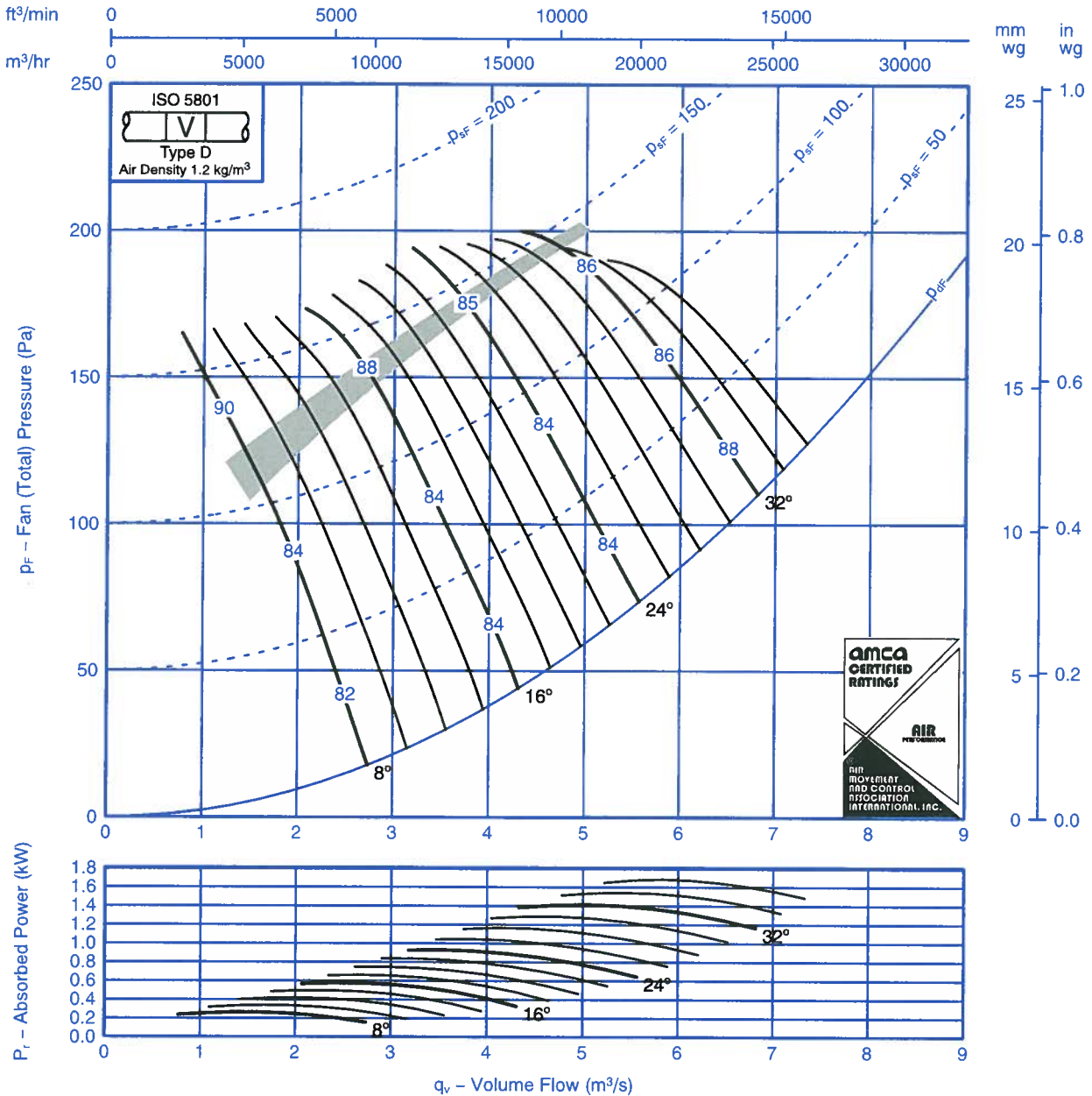
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-8	-4	-6	-8	-17	-22	-28	8	-14	-8	-4	-6	-8	-16	-21	-26
	-16	-10	-7	-5	-5	-14	-19	-26		-16	-10	-7	-5	-5	-13	-19	-24
16	-15	-7	-3	-8	-10	-18	-23	-29	16	-14	-7	-3	-8	-10	-18	-22	-27
	-9	-6	-6	-9	-8	-13	-16	-22		-9	-5	-6	-9	-8	-13	-16	-20
24-36	-9	-6	-6	-9	-8	-12	-15	-21	24-36	-8	-6	-6	-9	-8	-12	-14	-20
	-6	-5	-7	-11	-10	-15	-17	-23		-6	-4	-7	-11	-10	-14	-16	-21

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

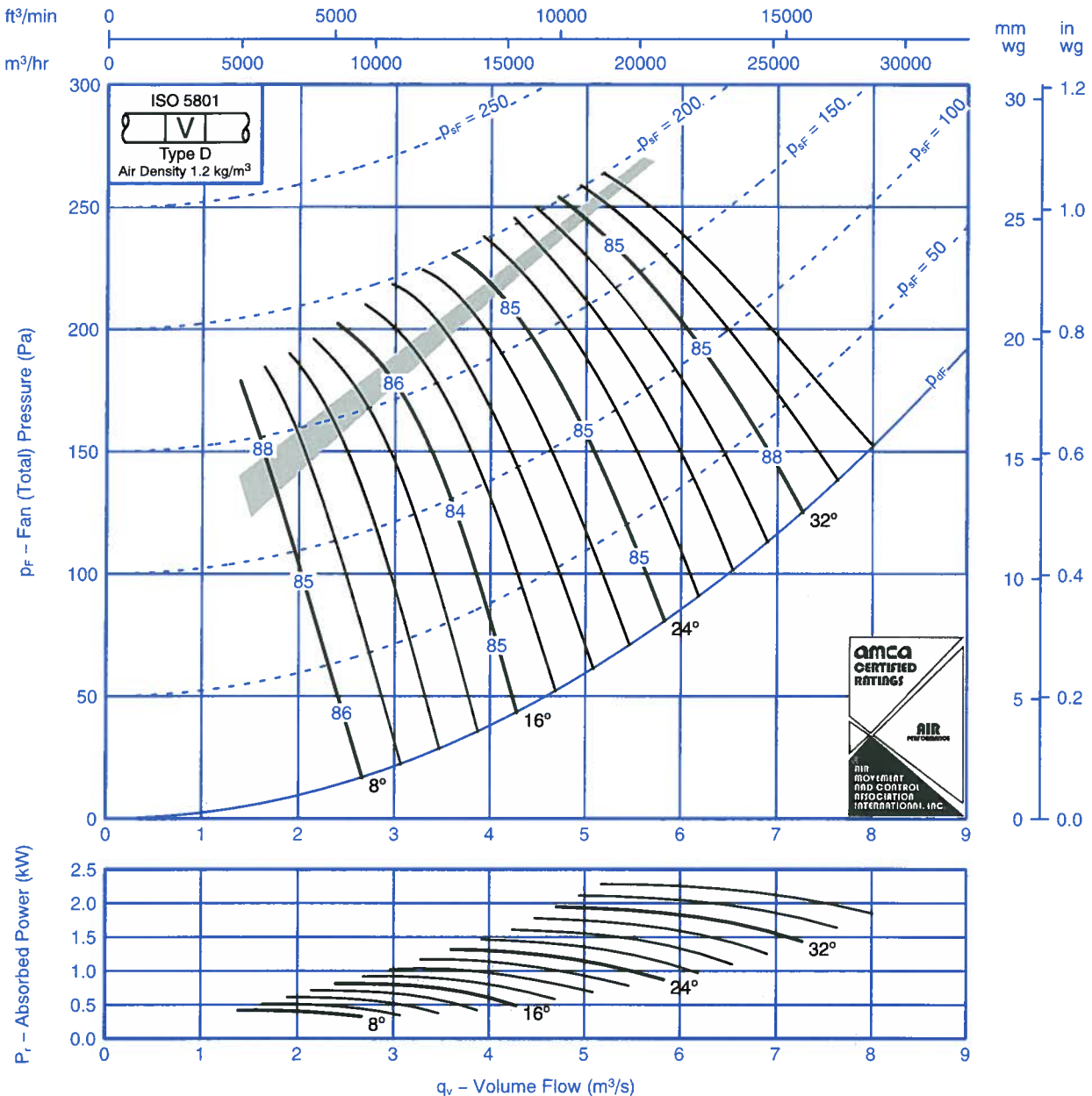
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15 -10	-13 -13	-6 -8	-3 -5	-9 -6	-17 -11	-23 -17	-31 -25	8	-14 -10	-12 -12	-6 -8	-4 -6	-10 -7	-17 -10	-22 -17	-29 -23
16	-7 -4	-8 -5	-8 -9	-4 -11	-10 -13	-15 -15	-21 -19	-28 -25	16	-5 -4	-8 -5	-8 -9	-5 -11	-10 -13	-15 -15	-20 -18	-26 -23
24 – 36	-6 -5	-7 -7	-7 -7	-7 -8	-10 -11	-14 -15	-17 -17	-22 -22	24 – 36	-5 -4	-7 -7	-8 -7	-8 -9	-10 -12	-14 -15	-16 -16	-20 -21



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

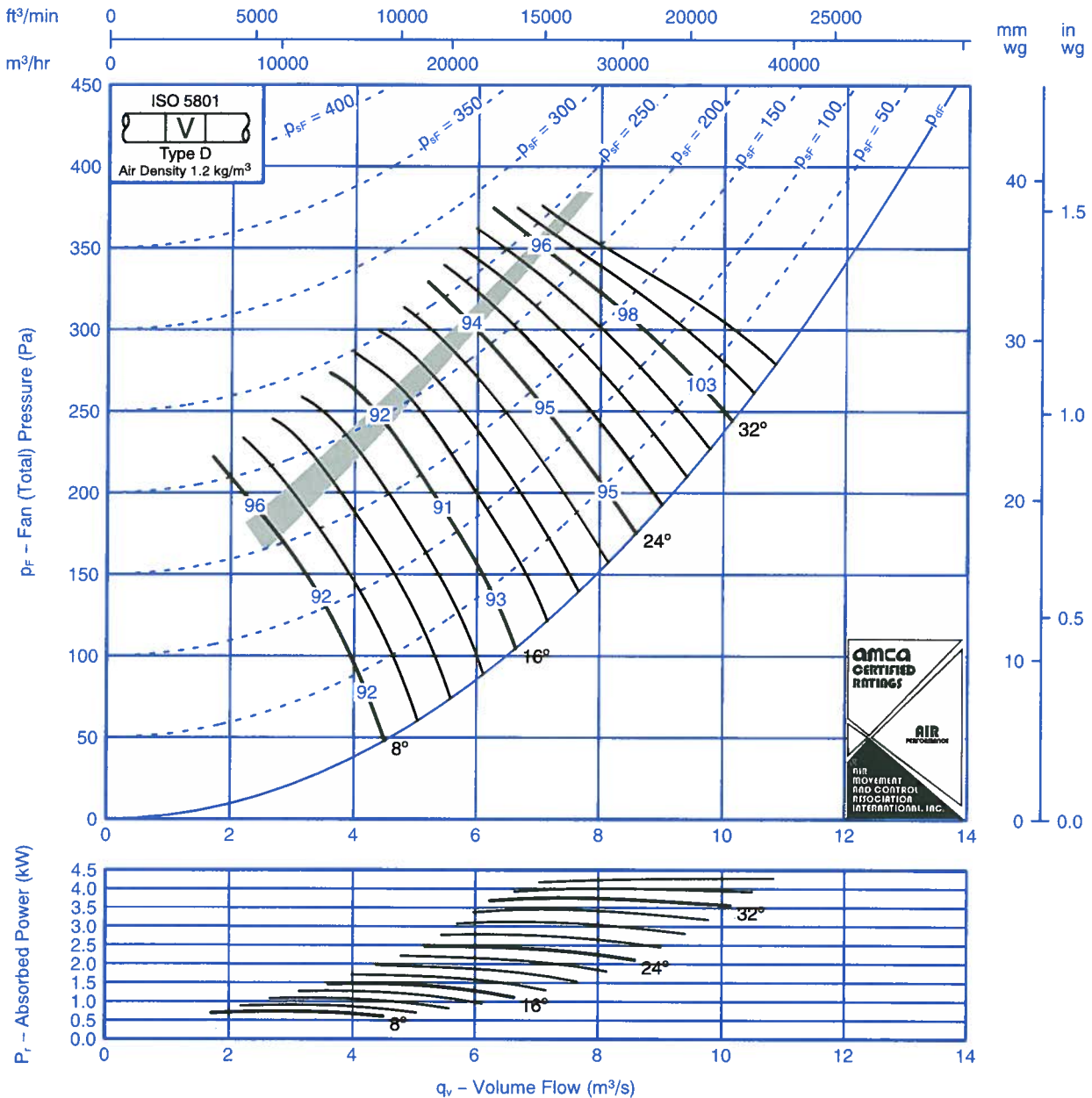
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								Outlet Levels									
Pitch Angle	Octave Band Centre Frequency (Hz)							Pitch Angle	Octave Band Centre Frequency (Hz)								
	63	125	250	500	1k	2k	4k		8k	63	125	250	500	1k	2k	4k	8k
8	-11	-9	-6	-5	-8	-15	-24	-30	8	-9	-7	-6	-6	-9	-15	-24	-28
	-10	-8	-8	-6	-8	-8	-18	-24		-10	-7	-8	-8	-8	-7	-17	-23
16	-9	-8	-5	-6	-10	-16	-21	-27	16	-8	-8	-5	-6	-10	-16	-20	-25
	-10	-7	-5	-8	-9	-13	-18	-24		-9	-6	-5	-9	-9	-13	-17	-23
24 – 36	-10	-9	-6	-6	-10	-13	-16	-20	24 – 36	-8	-8	-6	-7	-10	-13	-15	-19
	-9	-7	-5	-7	-11	-14	-18	-23		-8	-6	-5	-8	-11	-14	-17	-21



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

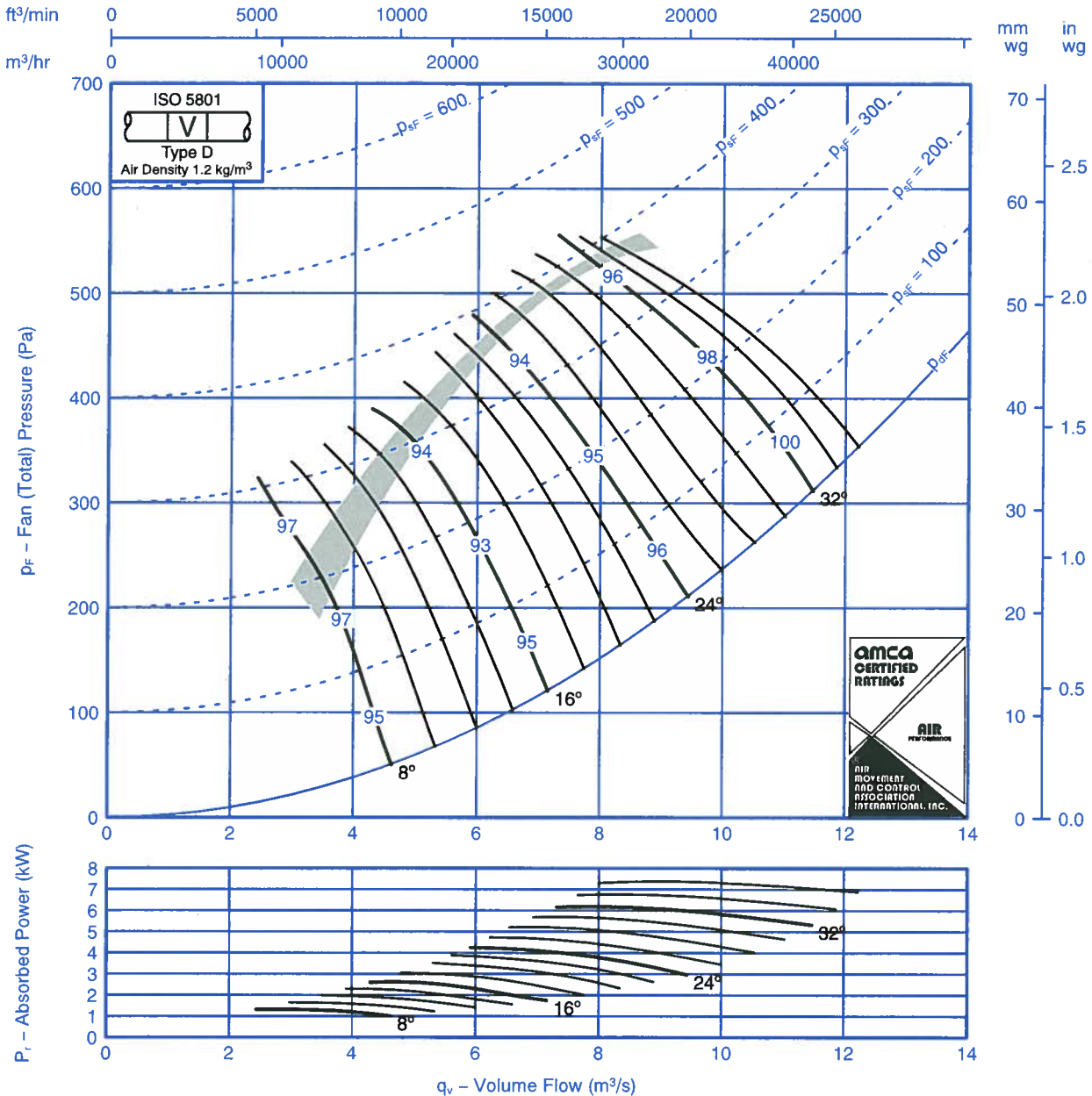
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-17	-8	-3	-8	-11	-19	-24	8	-13	-16	-8	-3	-8	-10	-17	-21
	-8	-12	-9	-7	-7	-8	-15	-20		-7	-12	-9	-6	-7	-7	-14	-18
16	-7	-10	-8	-6	-10	-10	-13	-17	16	-6	-10	-8	-6	-10	-10	-12	-14
	-4	-8	-7	-11	-13	-13	-15	-19		-3	-7	-7	-11	-13	-12	-14	-16
24 - 36	-6	-9	-9	-10	-9	-8	-13	-17	24 - 36	-5	-8	-9	-10	-9	-7	-11	-15
	-4	-8	-8	-11	-12	-11	-16	-20		-3	-7	-8	-11	-12	-11	-14	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

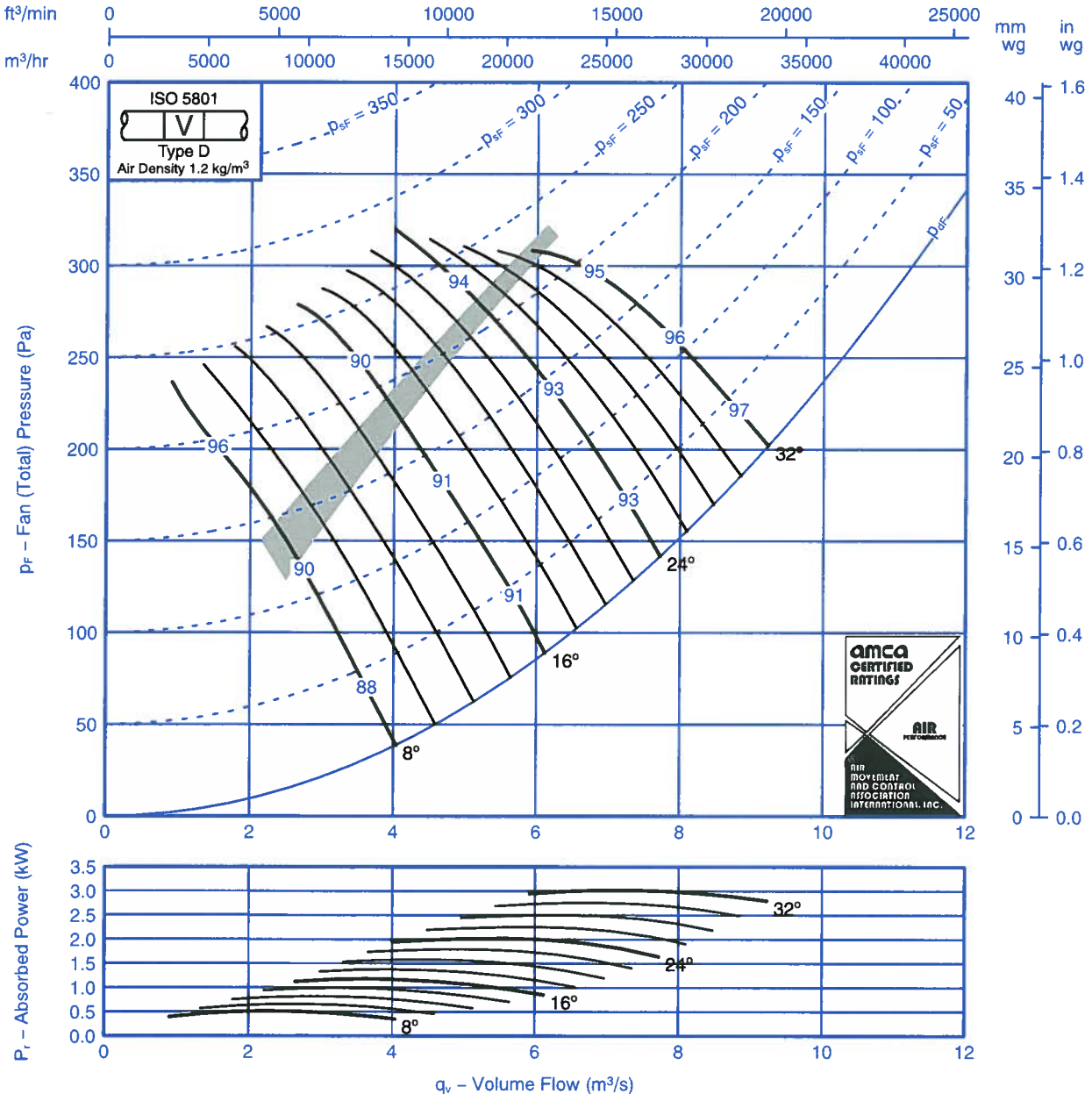
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-14	-8	-5	-7	-10	-19	-24	8	-19	-12	-7	-4	-7	-10	-18	-22
	-21	-14	-10	-6	-5	-7	-16	-21		-21	-13	-10	-6	-5	-5	-15	-19
16	-19	-14	-6	-4	-9	-12	-20	-25	16	-18	-14	-6	-3	-9	-11	-18	-23
	-12	-7	-6	-7	-9	-9	-14	-18		-11	-7	-6	-7	-9	-9	-13	-17
24 – 36	-12	-8	-8	-6	-10	-9	-13	-17	24 – 36	-11	-8	-7	-6	-9	-9	-12	-16
	-9	-6	-6	-8	-12	-11	-15	-19		-9	-5	-6	-8	-12	-11	-14	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

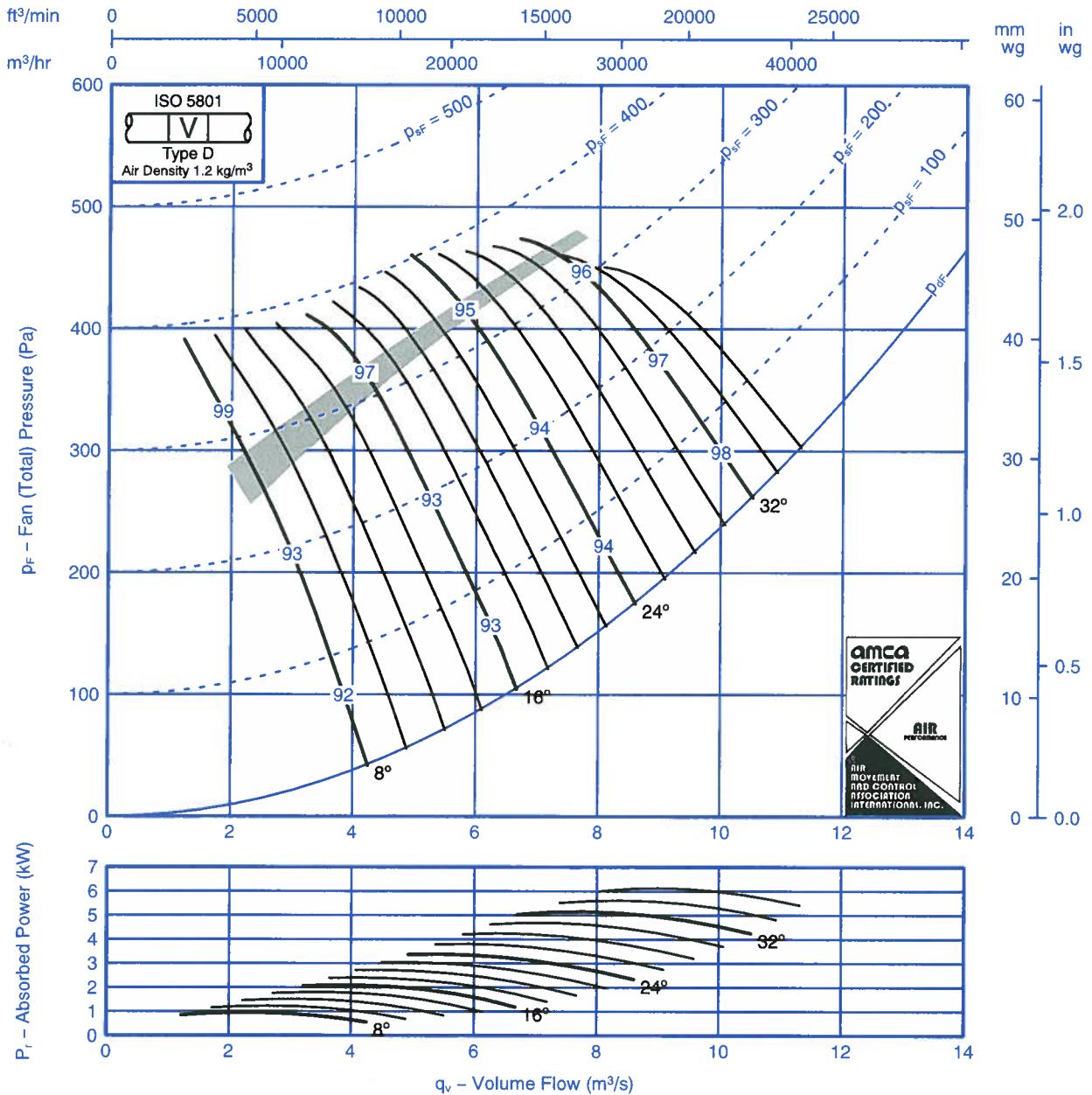
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-16	-11	-4	-5	-14	-19	-25	8	-8	-15	-10	-5	-6	-13	-18	-23
	-4	-11	-10	-8	-8	-12	-14	-18		-3	-10	-10	-9	-8	-11	-13	-16
16	-4	-9	-9	-9	-10	-13	-16	-18	16	-4	-9	-9	-9	-10	-12	-14	-16
	-2	-9	-11	-11	-12	-16	-17	-21		-1	-9	-11	-11	-12	-15	-16	-19
24 – 32	-5	-7	-9	-9	-10	-14	-17	-21	24 – 32	-4	-6	-9	-10	-10	-13	-16	-19
	-4	-8	-10	-9	-9	-13	-16	-19		-3	-7	-10	-10	-10	-12	-14	-16

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

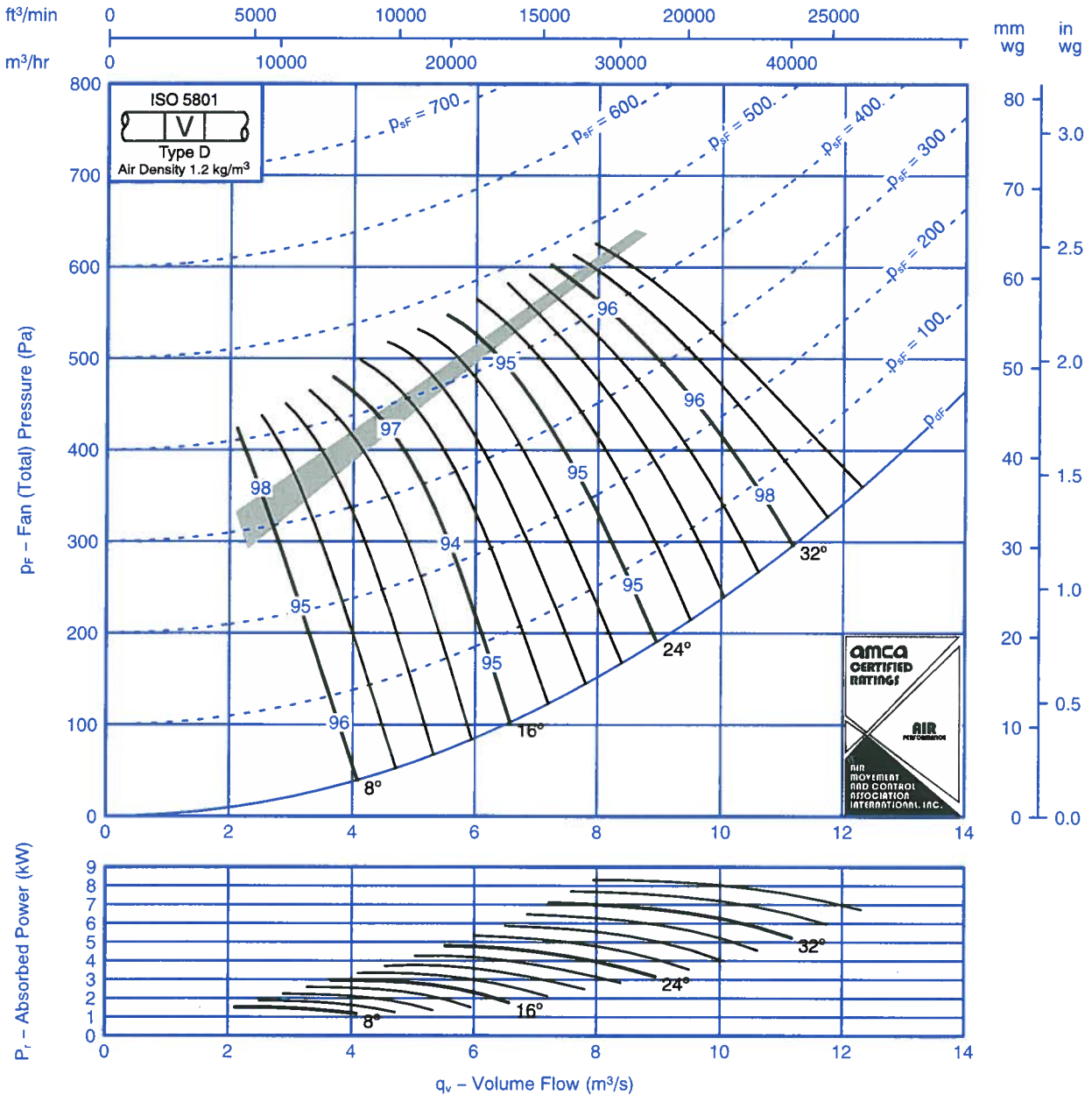
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-17	-11	-4	-4	-13	-19	-26	8	-14	-15	-11	-5	-4	-12	-18	-23
	-10	-15	-12	-7	-4	-8	-13	-19		-10	-14	-12	-9	-4	-7	-13	-18
16	-8	-14	-8	-7	-5	-12	-17	-23	16	-7	-14	-8	-8	-5	-12	-16	-21
	-5	-11	-6	-10	-10	-13	-16	-20		-4	-10	-6	-10	-10	-13	-15	-19
24 - 36	-5	-9	-9	-8	-7	-12	-16	-19	24 - 36	-4	-9	-9	-9	-8	-12	-15	-18
	-5	-9	-9	-8	-9	-13	-16	-20		-5	-8	-8	-9	-9	-13	-15	-18



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-11	-10	-6	-5	-11	-18	-27	8	-9	-11	-8	-7	-5	-10	-17	-24
	-10	-11	-9	-7	-7	-8	-11	-21		-10	-11	-8	-8	-7	-7	-10	-19
16	-8	-11	-7	-6	-7	-13	-18	-23	16	-6	-11	-7	-6	-7	-13	-17	-21
	-7	-12	-7	-6	-8	-12	-15	-21		-7	-12	-7	-6	-8	-12	-15	-19
24 - 36	-5	-13	-10	-7	-7	-12	-15	-19	24 - 36	-3	-13	-10	-8	-7	-12	-14	-18
	-6	-11	-8	-6	-8	-13	-16	-20		-5	-11	-8	-6	-8	-13	-15	-18



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ISO 9001

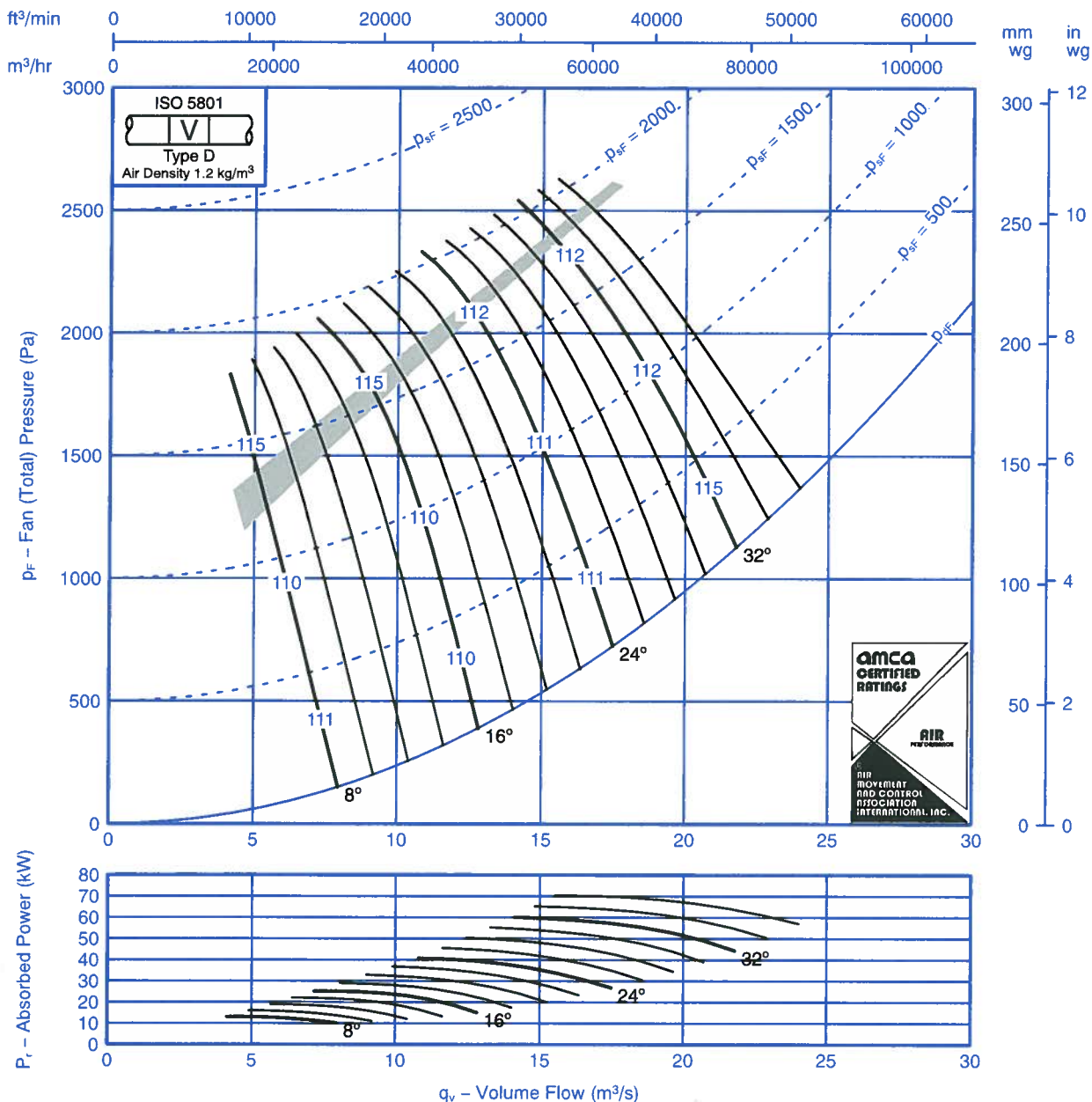
Fan Code: 80JM/31/2/9/...

800 mm 2910 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

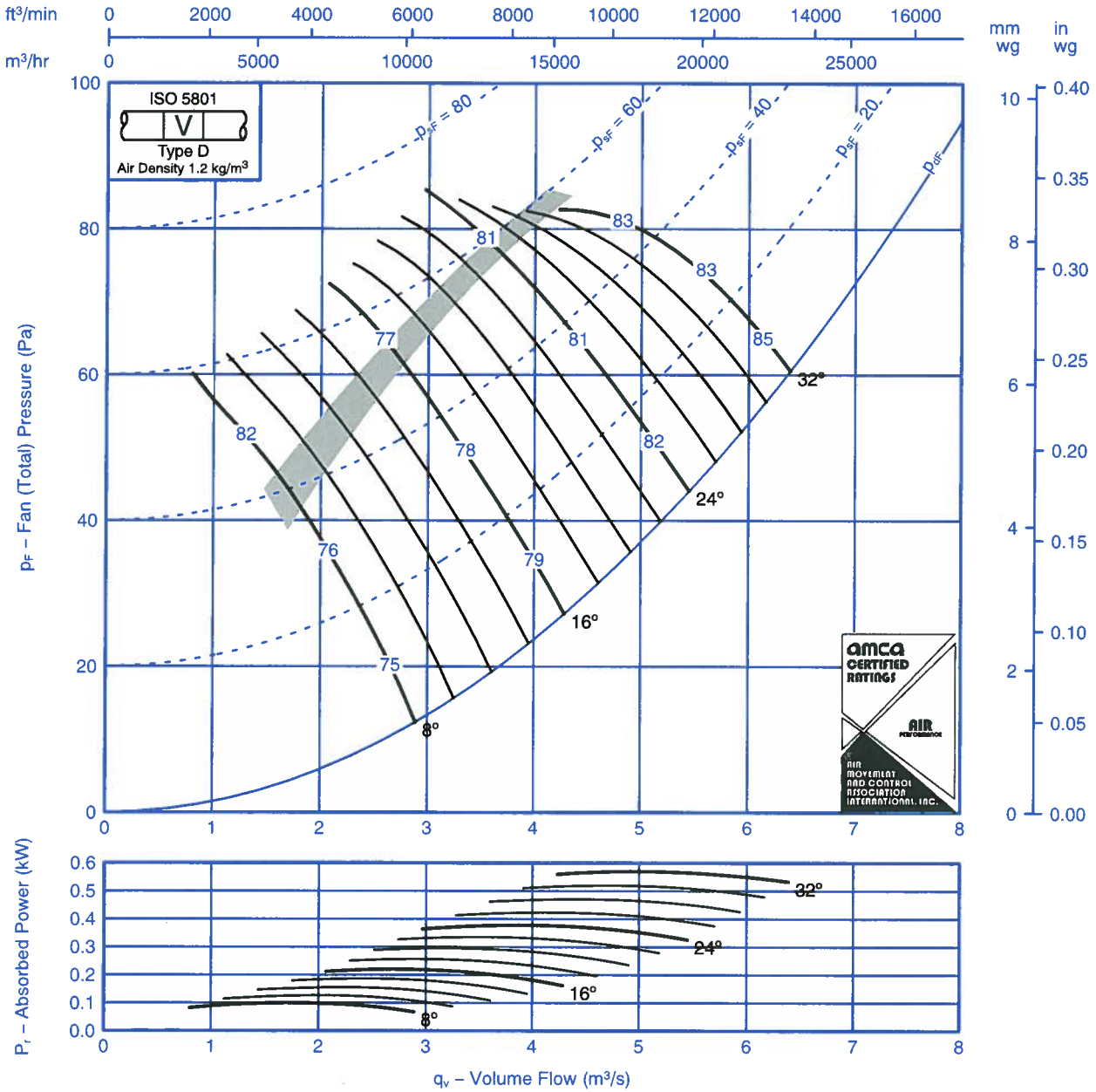
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-10	-12	-10	-6	-5	-12	-19	8	-9	-10	-11	-8	-6	-5	-11	-17
	-11	-10	-12	-10	-7	-7	-9	-12		-11	-10	-11	-9	-7	-6	-8	-10
16	-7	-8	-12	-7	-7	-8	-14	-19	16	-6	-8	-12	-7	-7	-8	-14	-17
	-7	-8	-13	-8	-7	-9	-13	-17		-7	-8	-13	-8	-7	-9	-13	-15
24 – 36	-5	-6	-15	-12	-9	-9	-14	-17	24 – 36	-4	-6	-15	-12	-9	-9	-13	-16
	-7	-7	-13	-9	-7	-9	-14	-17		-6	-7	-12	-8	-7	-9	-13	-15



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

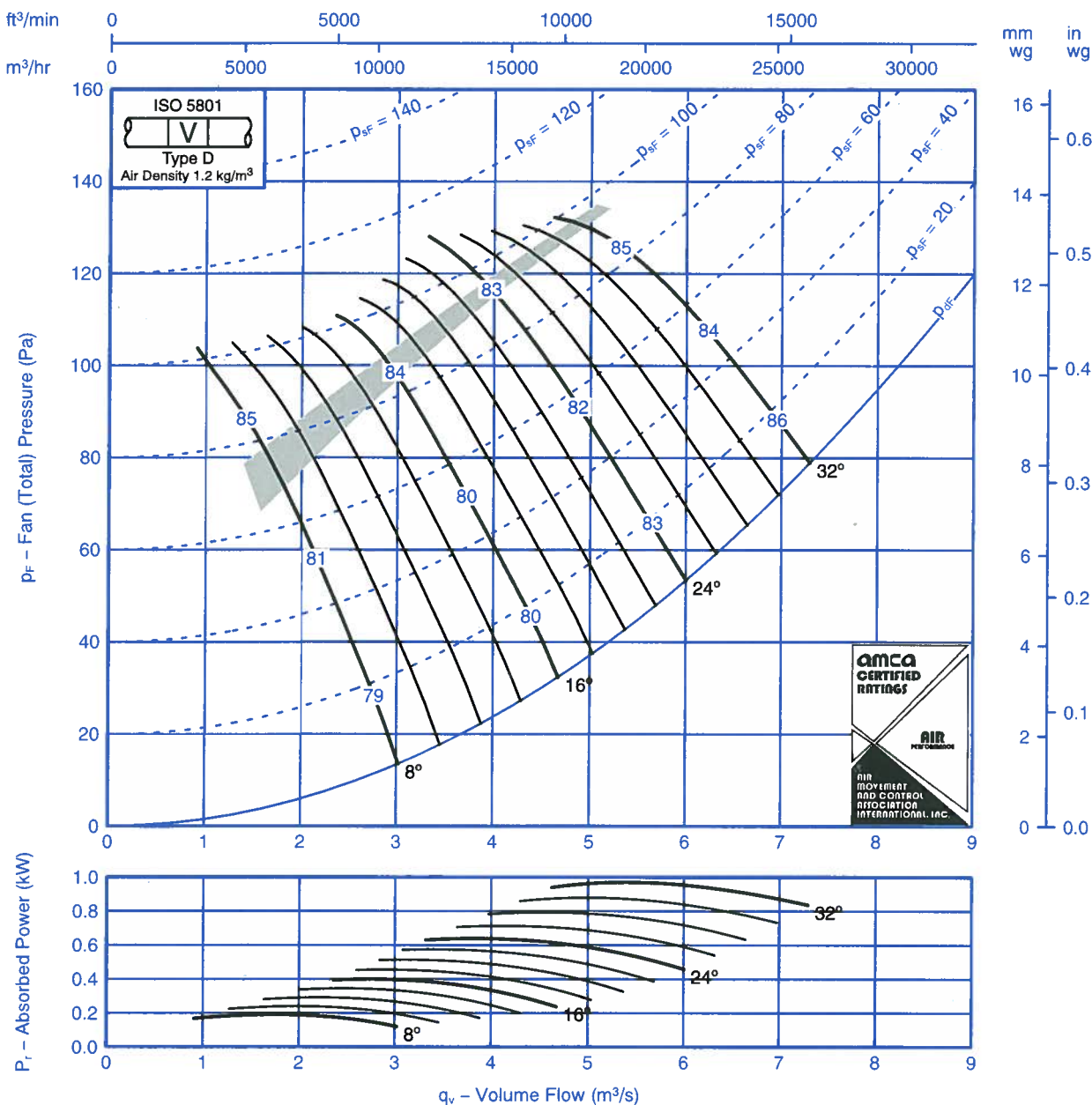
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								Outlet Levels									
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-12	-5	-4	-10	-15	-21	-29	8	-12	-11	-5	-4	-10	-15	-20	-26
	-7	-9	-7	-7	-9	-11	-16	-22		-6	-9	-7	-7	-9	-10	-15	-20
16	-6	-8	-7	-7	-10	-12	-15	-20	16	-4	-8	-7	-7	-10	-12	-14	-18
	-4	-7	-8	-9	-11	-13	-17	-22		-3	-7	-8	-9	-11	-13	-16	-20
24 – 32	-5	-7	-7	-9	-11	-14	-18	-23	24 – 32	-4	-7	-7	-9	-11	-14	-17	-21
	-5	-8	-8	-8	-10	-13	-16	-21		-4	-8	-8	-8	-10	-12	-15	-19



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

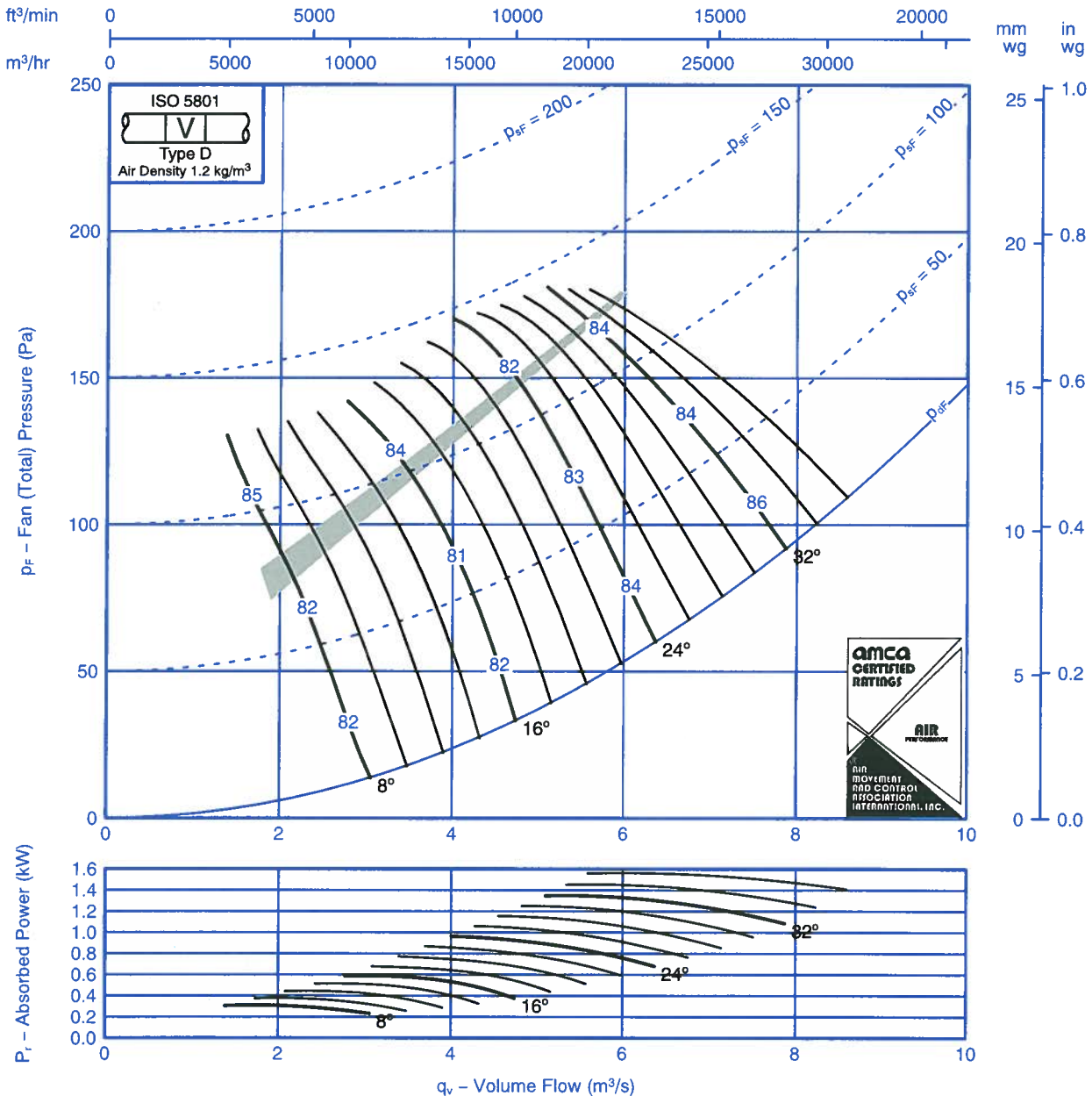
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-12	-5	-4	-9	-15	-22	-31	8	-14	-12	-5	-4	-10	-15	-21	-28
	-12	-10	-9	-5	-6	-10	-16	-24		-11	-10	-9	-5	-6	-9	-16	-22
16	-13	-11	-6	-3	-9	-14	-20	-28	16	-12	-11	-6	-3	-9	-14	-19	-26
	-7	-6	-8	-7	-9	-12	-17	-23		-7	-6	-8	-7	-9	-12	-16	-21
24 – 32	-8	-7	-7	-6	-10	-13	-17	-22	24 – 32	-7	-7	-7	-6	-10	-13	-16	-21
	-6	-7	-7	-8	-10	-13	-17	-22		-5	-7	-7	-8	-10	-13	-16	-20



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

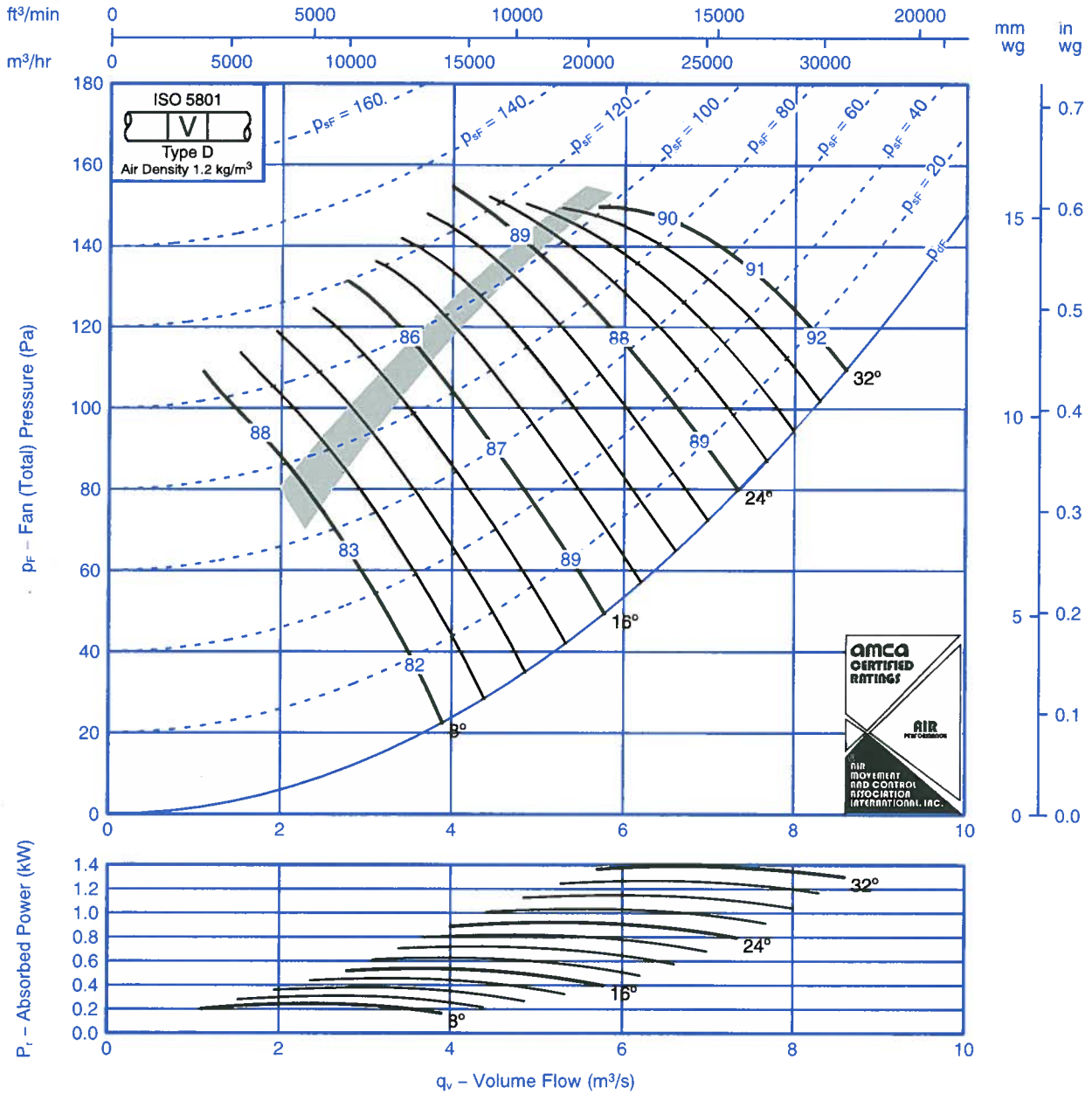
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-10	-7	-4	-7	-13	-22	-30	8	-14	-9	-7	-4	-7	-13	-21	-28
	-14	-8	-8	-6	-6	-9	-17	-24		-14	-7	-8	-6	-6	-8	-16	-22
16	-13	-8	-6	-5	-9	-14	-20	-28	16	-11	-8	-6	-5	-9	-14	-19	-26
	-10	-6	-6	-6	-9	-12	-18	-24		-10	-6	-6	-6	-9	-12	-17	-22
24 – 36	-9	-7	-7	-6	-9	-12	-16	-21	24 – 36	-8	-7	-7	-6	-9	-12	-15	-20
	-8	-6	-6	-8	-10	-13	-17	-23		-7	-6	-6	-8	-10	-13	-16	-21



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Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

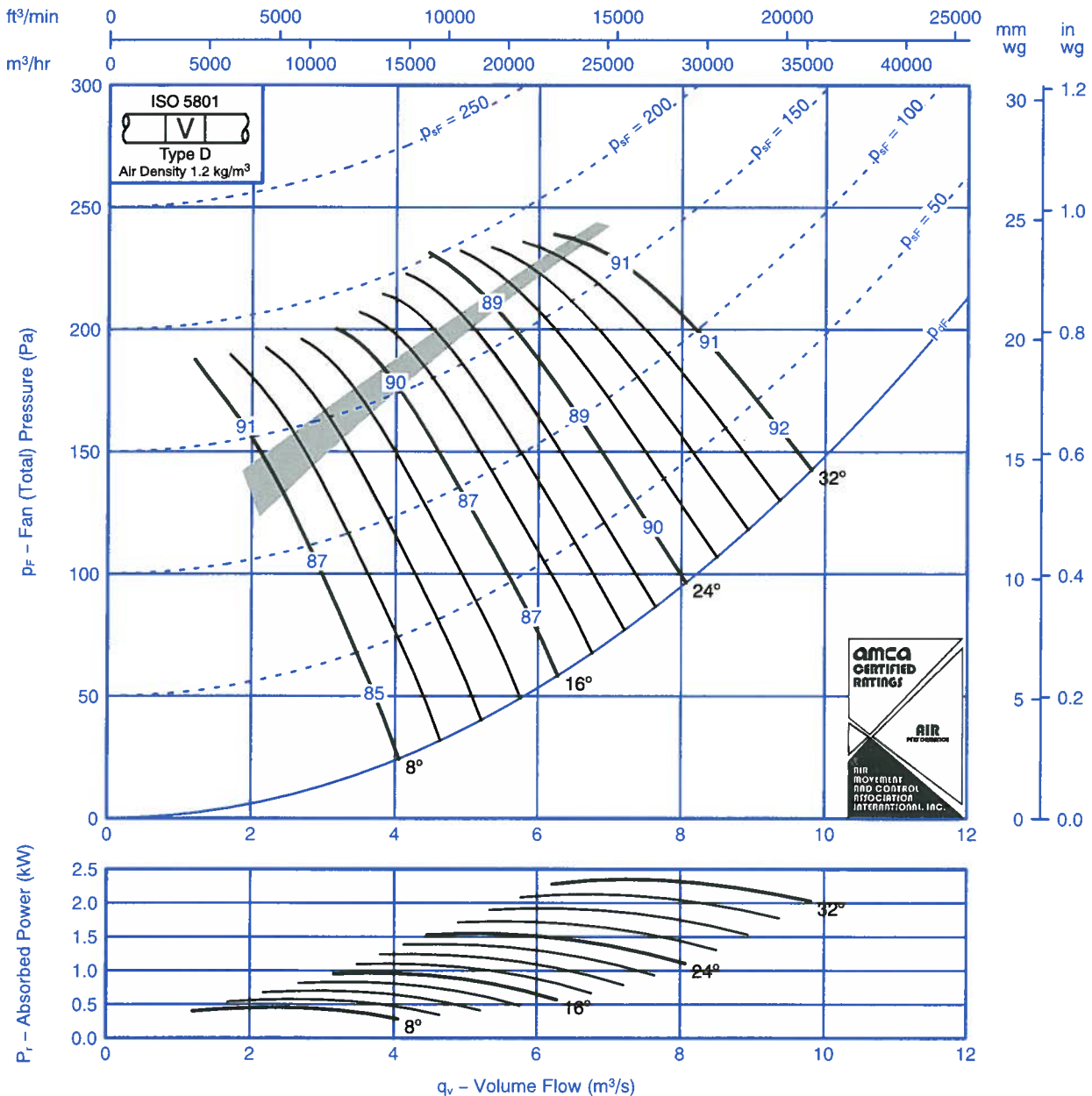
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-14	-6	-4	-8	-14	-20	-27	8	-8	-13	-6	-4	-8	-14	-19	-24
	-4	-10	-8	-8	-9	-12	-15	-21		-2	-10	-8	-8	-9	-10	-15	-19
16	-3	-10	-9	-9	-11	-13	-16	-20	16	-1	-10	-9	-9	-11	-13	-15	-18
	-2	-10	-10	-12	-13	-16	-18	-23		-1	-10	-10	-12	-13	-15	-17	-21
24 – 32	-4	-7	-8	-10	-11	-14	-18	-22	24 – 32	-3	-7	-8	-10	-11	-14	-17	-20
	-4	-8	-9	-10	-10	-13	-16	-20		-2	-8	-9	-10	-10	-13	-15	-18



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16 -10	-14 -12	-6 -8	-3 -7	-8 -5	-14 -9	-20 -15	-27 -21	8	-14 -10	-13 -11	-6 -8	-3 -7	-8 -5	-14 -8	-20 -14	-25 -20
16	-11 -5	-12 -7	-8 -8	-4 -8	-7 -9	-13 -12	-19 -16	-25 -22	16	-9 -5	-12 -7	-8 -8	-4 -8	-7 -9	-13 -12	-18 -16	-24 -20
-32	-7 -5	-8 -7	-7 -8	-7 -8	-9 -10	-13 -13	-16 -17	-21 -21	24 – 32	-5 -4	-8 -7	-7 -8	-7 -8	-9 -10	-13 -13	-15 -16	-20 -19



BS 5750 Pt 1
EN 29001
ISO 9001

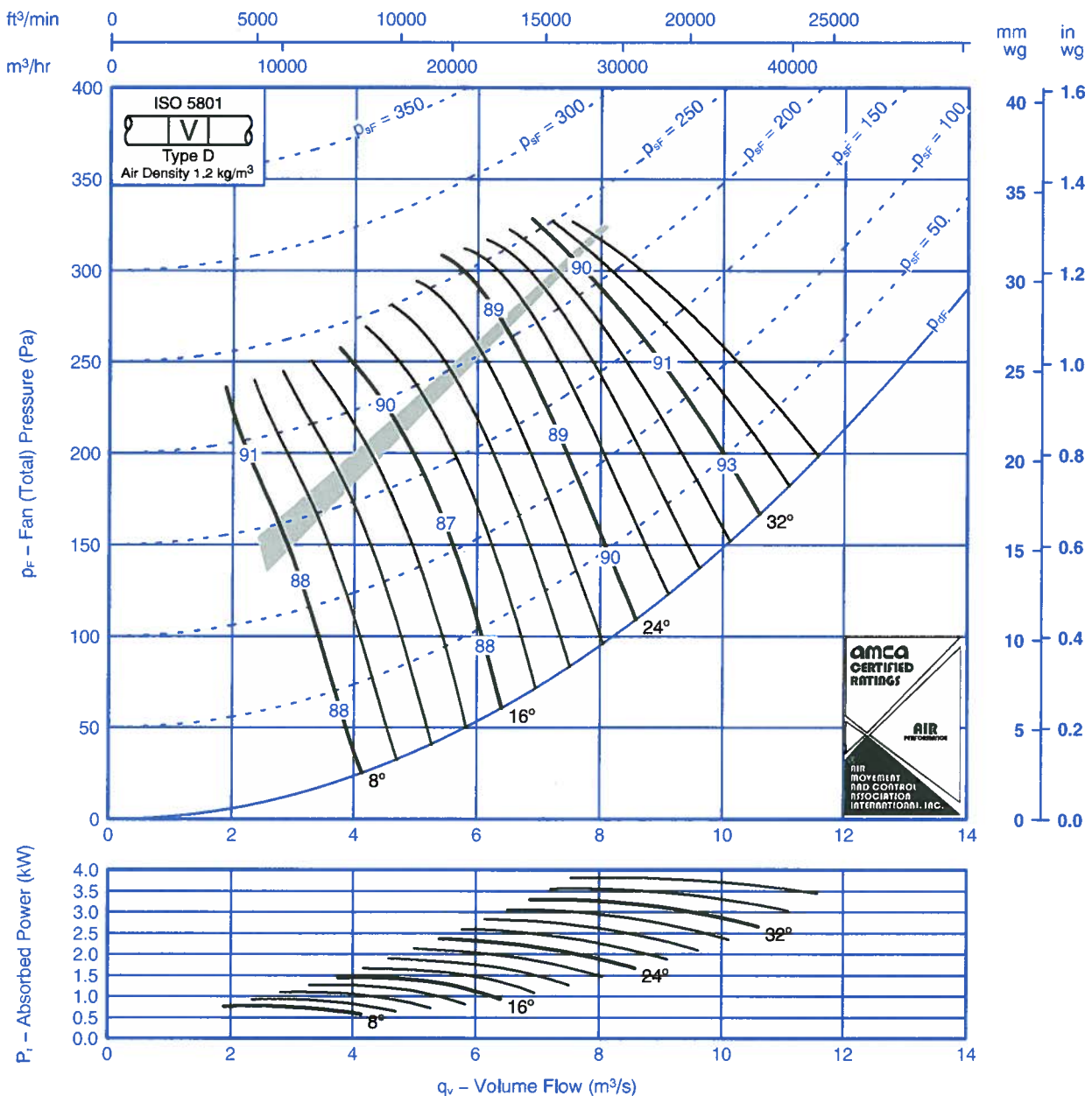
Fan Code: 90JM/25/6/9/...

900 mm 935 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



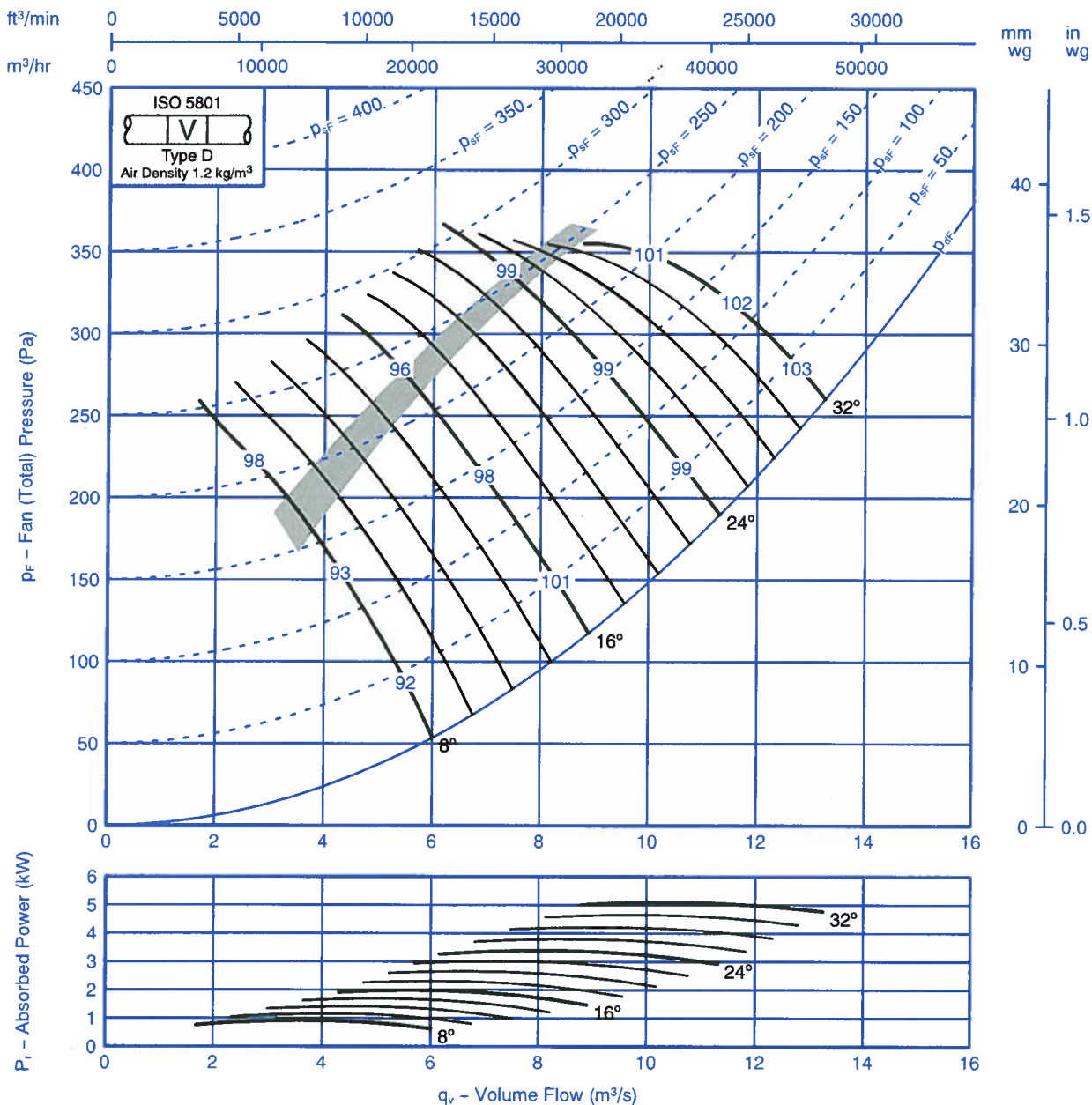
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-11	-8	-4	-6	-12	-20	-26	8	-14	-9	-8	-4	-6	-11	-19	-24
	-14	-8	-9	-7	-6	-8	-15	-21		-14	-7	-9	-7	-6	-7	-15	-20
16	-12	-9	-7	-4	-7	-12	-18	-25	16	-11	-9	-7	-4	-7	-12	-17	-23
	-10	-6	-7	-7	-8	-12	-16	-22		-9	-6	-7	-7	-8	-11	-16	-20
24 - 36	-9	-8	-7	-6	-8	-11	-15	-19	24 - 36	-7	-8	-7	-6	-8	-11	-14	-18
	-7	-6	-7	-8	-10	-13	-16	-21		-7	-6	-7	-8	-10	-13	-15	-19

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

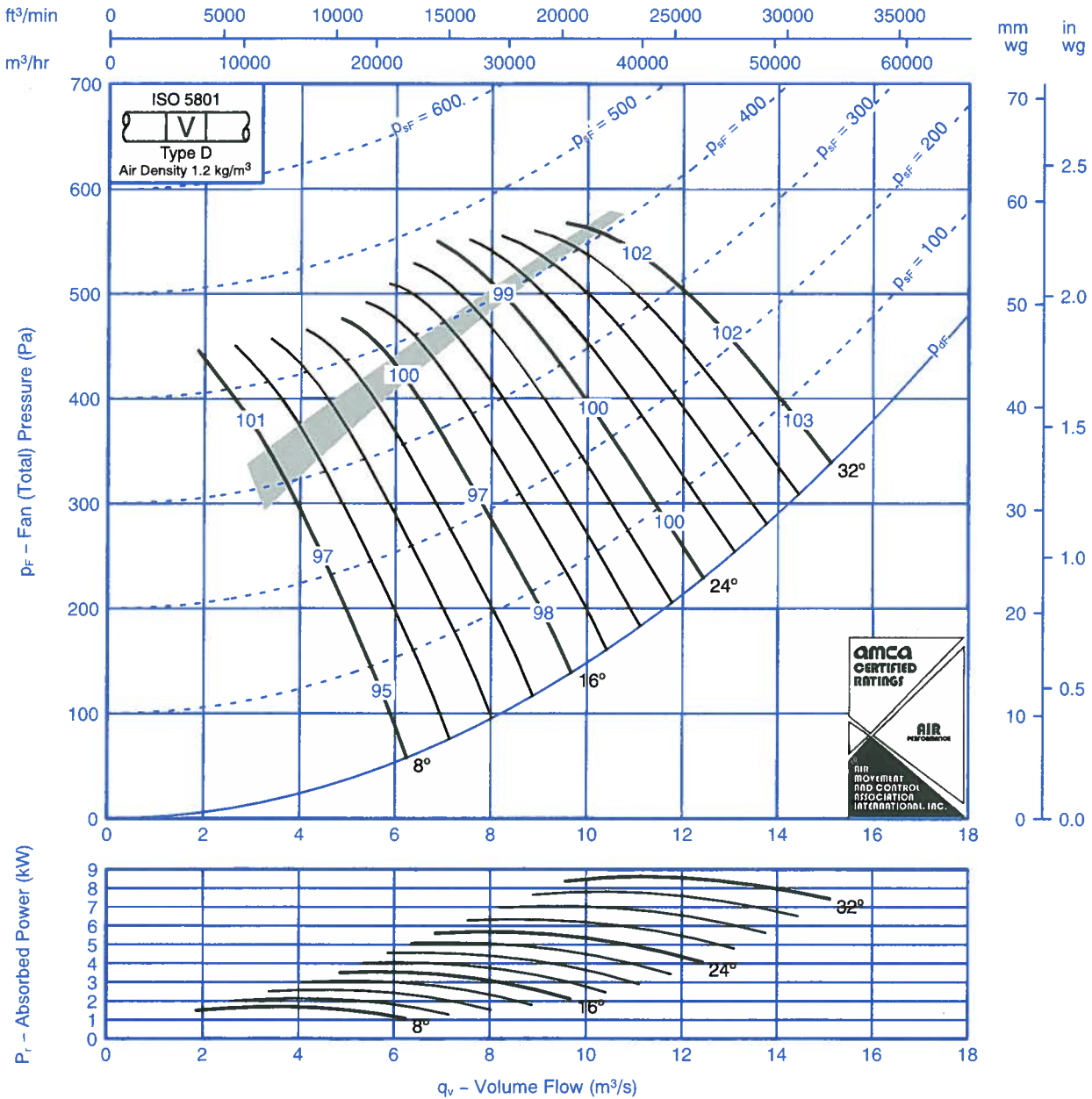
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-16	-12	-5	-5	-11	-17	-23	8	-7	-14	-12	-5	-5	-10	-15	-19
	-4	-11	-11	-9	-9	-11	-14	-18		-2	-10	-11	-9	-9	-9	-13	-16
16	-3	-10	-11	-11	-11	-13	-16	-19	16	-2	-9	-11	-10	-10	-12	-14	-16
	-3	-9	-12	-12	-13	-16	-18	-21		-1	-8	-11	-12	-13	-15	-16	-19
-32	-5	-7	-9	-9	-11	-13	-16	-20	24-32	-4	-7	-9	-9	-10	-12	-15	-18
	-4	-8	-10	-10	-11	-13	-16	-19		-2	-7	-10	-10	-11	-12	-14	-16



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

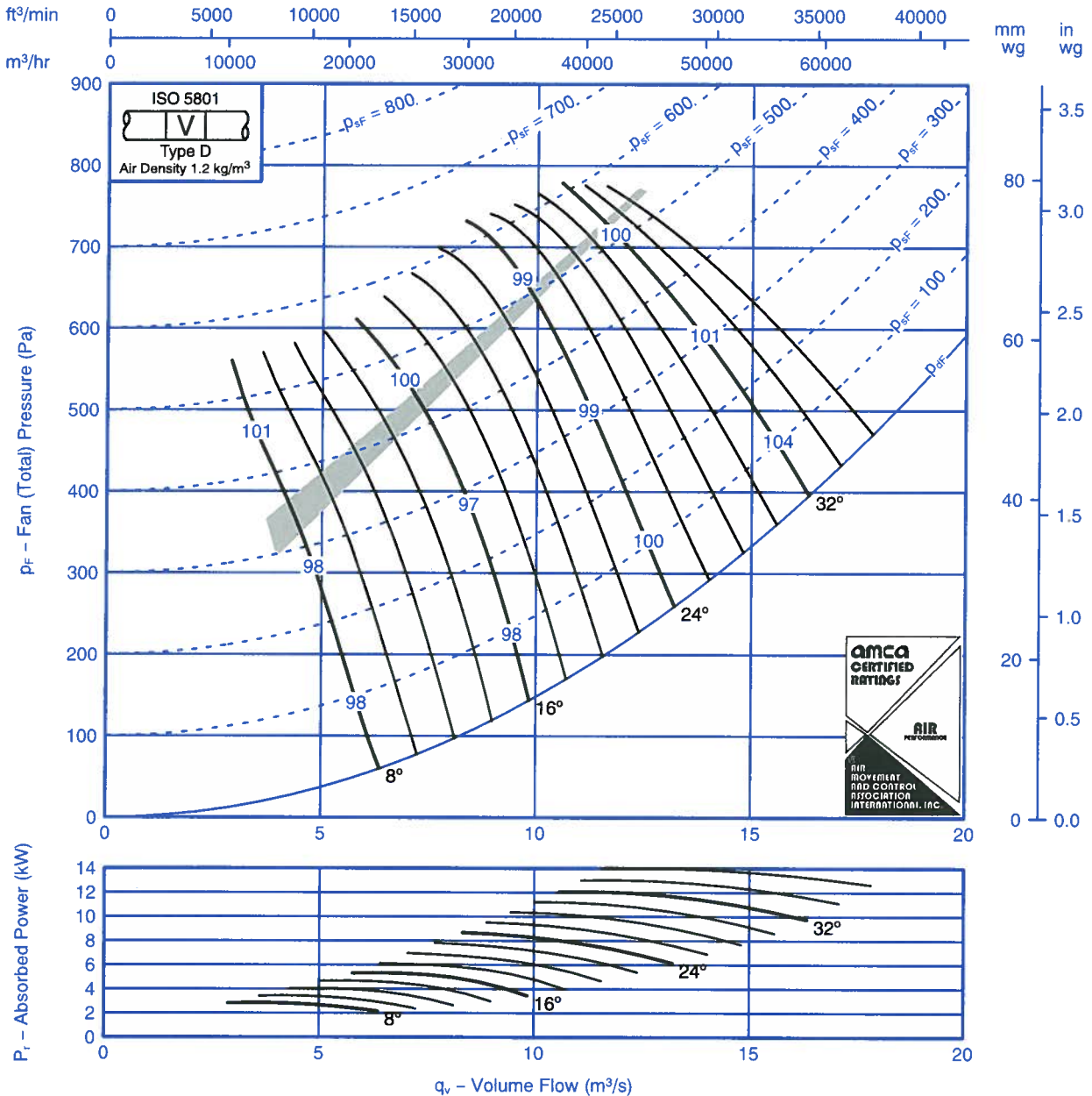
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-17	-12	-5	-4	-10	-17	-23	8	-13	-15	-11	-5	-4	-10	-15	-20
	-9	-14	-12	-10	-7	-7	-12	-18		-8	-12	-11	-9	-6	-5	-10	-16
16	-10	-15	-11	-7	-4	-10	-16	-21	16	-9	-14	-11	-7	-4	-9	-14	-19
	-6	-10	-8	-10	-9	-12	-15	-19		-5	-9	-8	-9	-9	-10	-13	-17
24 – 32	-6	-9	-9	-8	-8	-11	-15	-18	24 – 32	-5	-9	-8	-8	-7	-11	-14	-17
	-5	-8	-9	-9	-10	-12	-15	-19		-4	-8	-8	-9	-9	-12	-14	-17

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

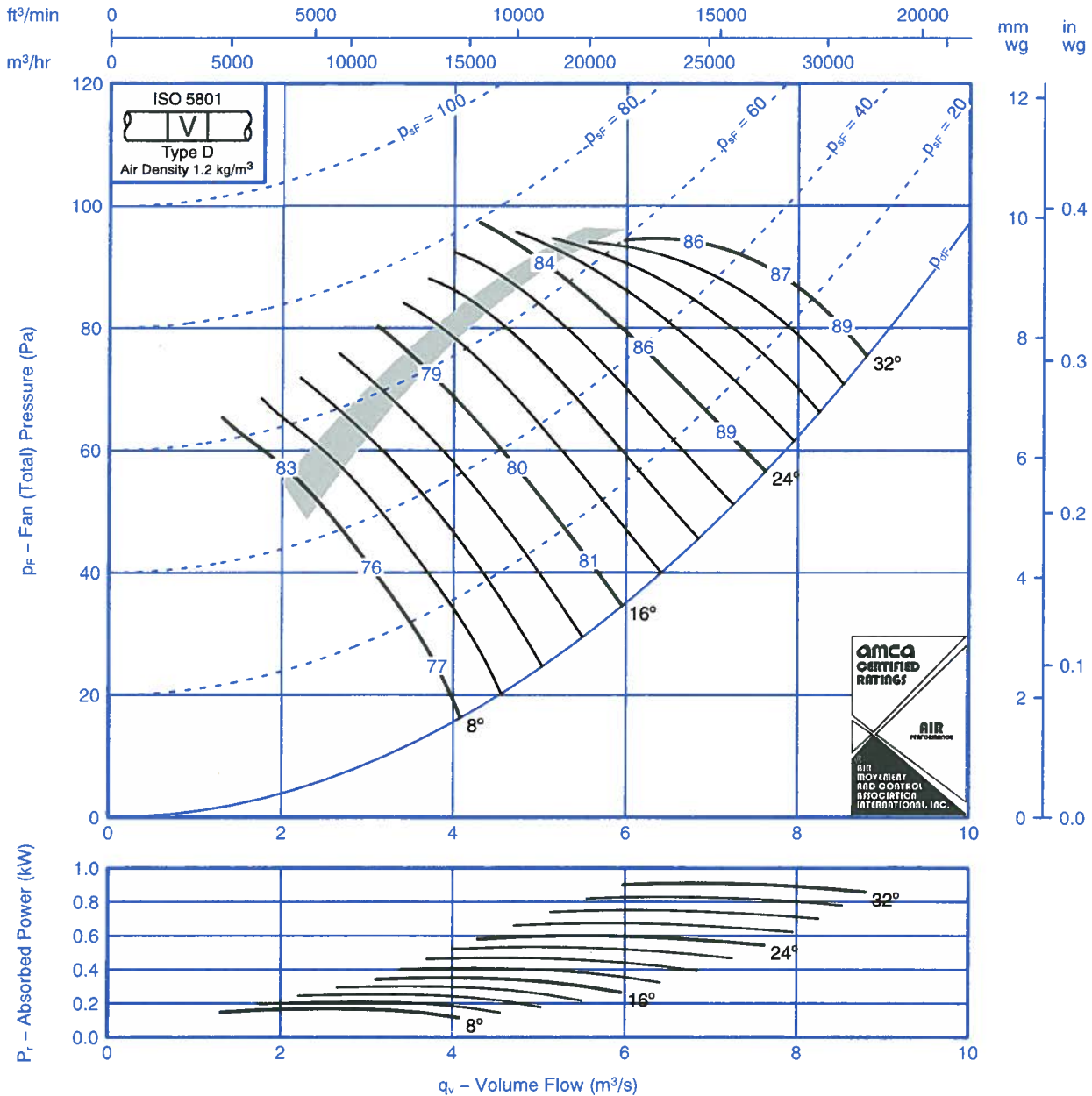
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-16	-11	-8	-4	-8	-15	-23	8	-14	-15	-9	-7	-4	-7	-13	-20
	-14	-15	-8	-9	-7	-7	-10	-18		-14	-14	-7	-8	-6	-5	-9	-16
16	-12	-14	-9	-7	-6	-10	-15	-21	16	-10	-13	-8	-6	-5	-9	-13	-19
	-9	-12	-7	-7	-8	-10	-14	-19		-8	-11	-6	-7	-7	-9	-13	-17
24 - 36	-7	-11	-9	-8	-8	-10	-14	-17	24 - 36	-5	-10	-8	-8	-7	-10	-13	-16
	-6	-9	-8	-8	-9	-12	-15	-19		-6	-9	-7	-7	-9	-11	-14	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

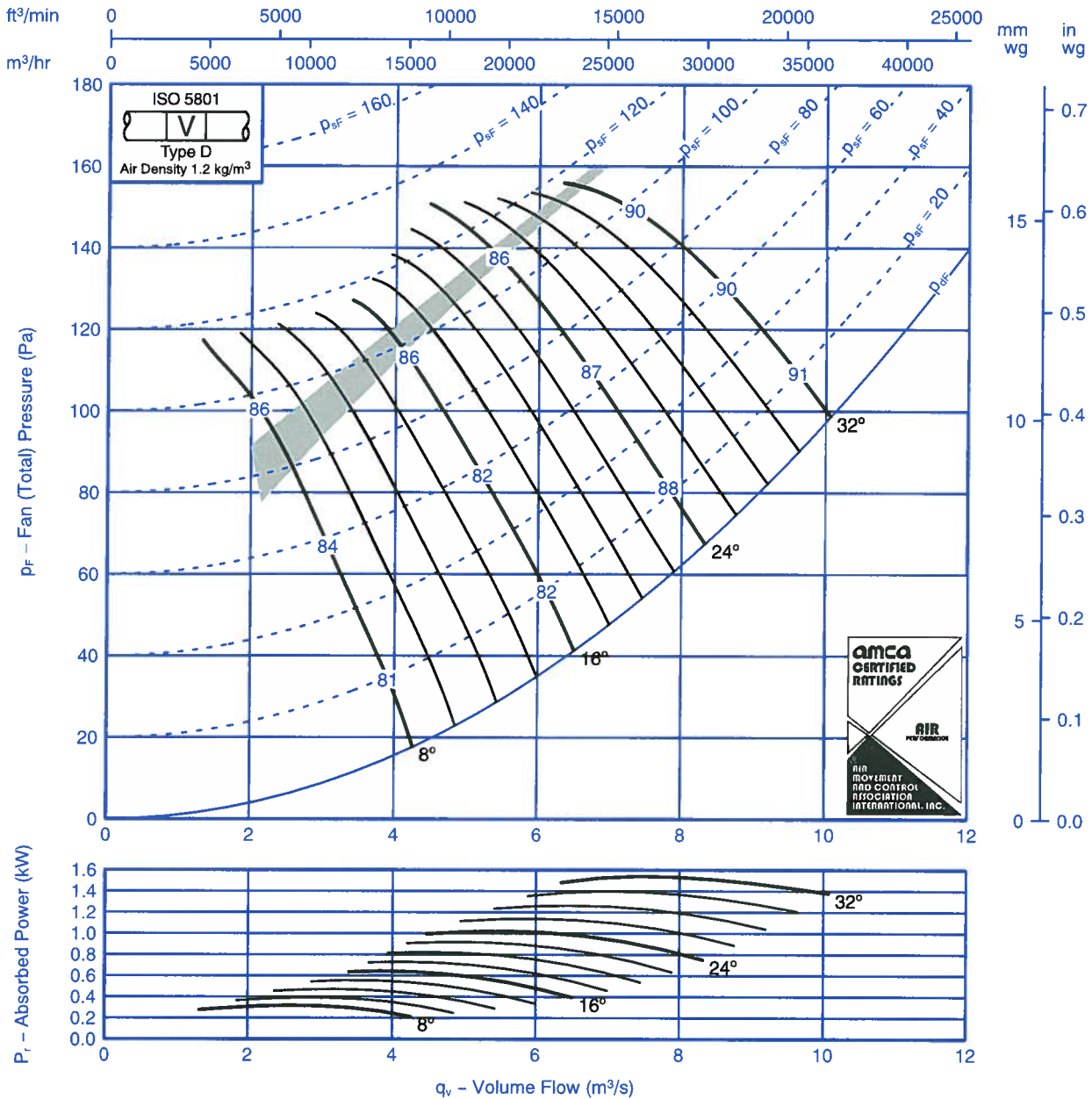
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-13	-6	-4	-7	-13	-18	-26	8	-12	-13	-6	-4	-7	-12	-17	-23
	-7	-9	-8	-7	-7	-11	-15	-20		-5	-9	-8	-7	-7	-9	-14	-19
16	-5	-9	-8	-8	-9	-11	-15	-19	16	-4	-9	-8	-8	-9	-11	-13	-16
	-4	-8	-9	-9	-11	-13	-17	-21		-3	-8	-9	-9	-11	-13	-15	-19
24 - 32	-6	-7	-8	-9	-10	-13	-18	-22	24 - 32	-4	-7	-8	-9	-10	-13	-16	-20
	-4	-8	-9	-9	-10	-13	-16	-20		-3	-8	-9	-9	-10	-12	-15	-18



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

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Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-13	-6	-4	-7	-13	-19	-27	8	-14	-13	-6	-4	-7	-13	-19	-25
	-10	-10	-11	-7	-5	-8	-14	-21		-10	-10	-11	-7	-5	-7	-14	-20
16	-15	-13	-7	-3	-7	-14	-20	-27	16	-13	-13	-7	-3	-7	-14	-19	-26
	-7	-8	-8	-7	-8	-11	-16	-22		-7	-8	-8	-7	-8	-11	-15	-21
24 – 32	-8	-8	-7	-7	-9	-13	-17	-23	24 – 32	-7	-8	-7	-7	-9	-13	-16	-21
	-5	-7	-8	-9	-9	-13	-16	-21		-4	-7	-8	-9	-9	-12	-15	-20



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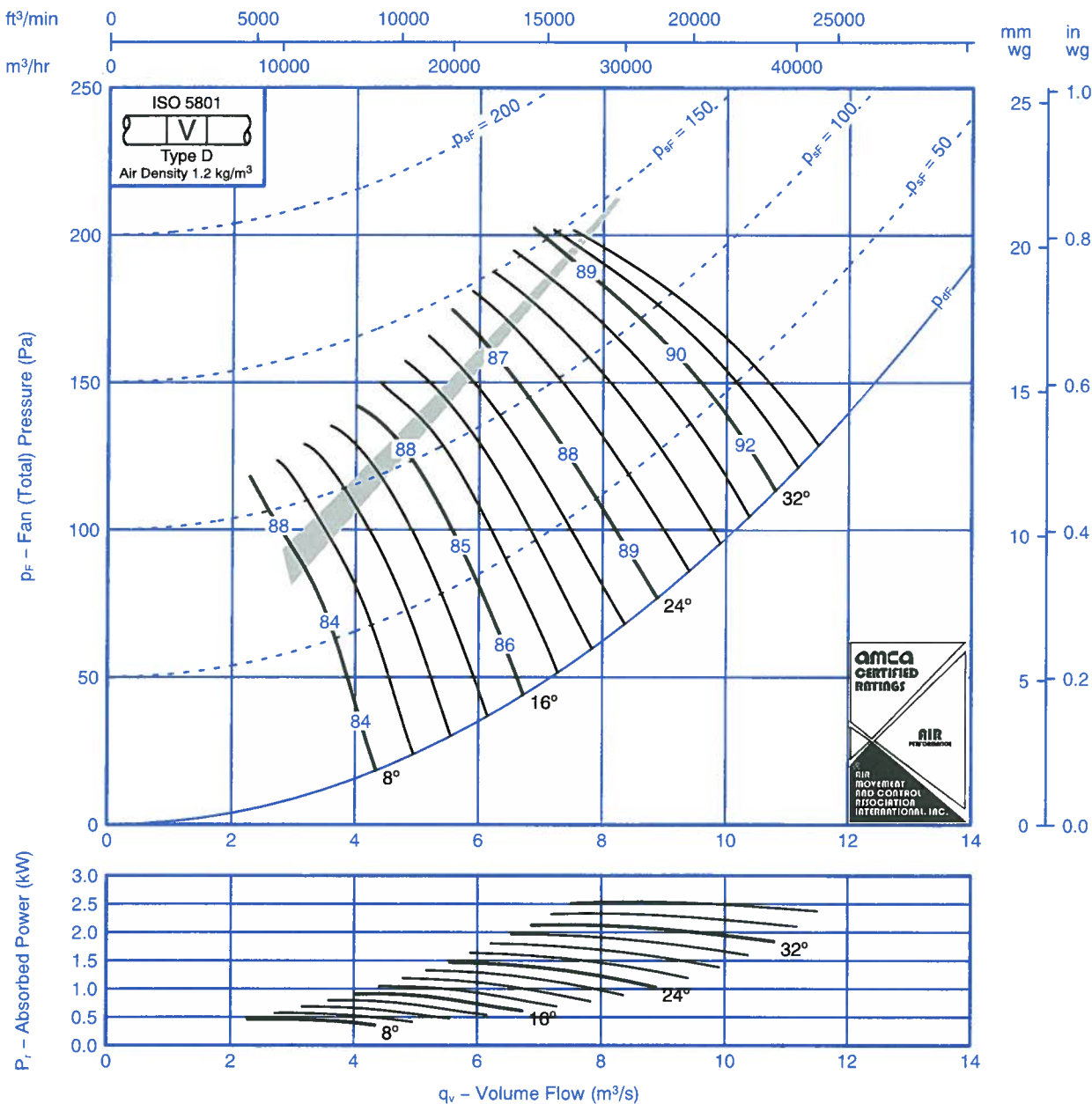
Fan Code: 100JM/25/8/9/...

1000 mm 695 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

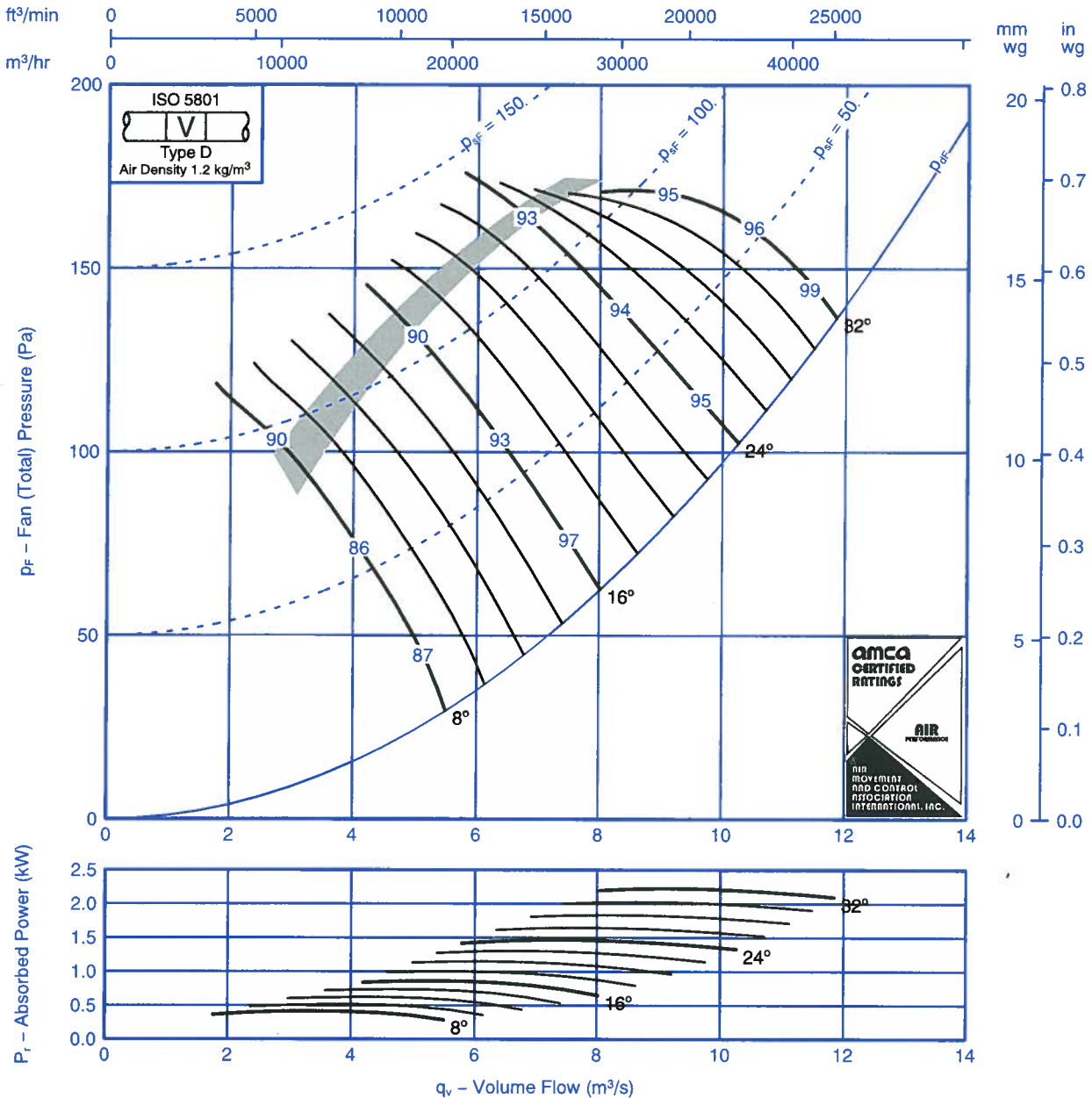
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-14	-9	-4	-5	-11	-18	-27	8	-19	-13	-9	-4	-5	-10	-17	-25
	-18	-10	-10	-7	-4	-8	-14	-21		-18	-10	-10	-7	-4	-7	-14	-20
16	-16	-12	-7	-4	-6	-11	-18	-27	16	-15	-12	-7	-4	-6	-11	-17	-25
	-10	-7	-8	-6	-8	-11	-16	-23		-10	-7	-8	-6	-8	-11	-15	-21
24 – 36	-8	-7	-8	-7	-8	-11	-15	-21	24 – 36	-7	-7	-8	-7	-8	-11	-15	-20
	-6	-6	-8	-9	-9	-13	-17	-22		-6	-5	-8	-9	-9	-12	-16	-21



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

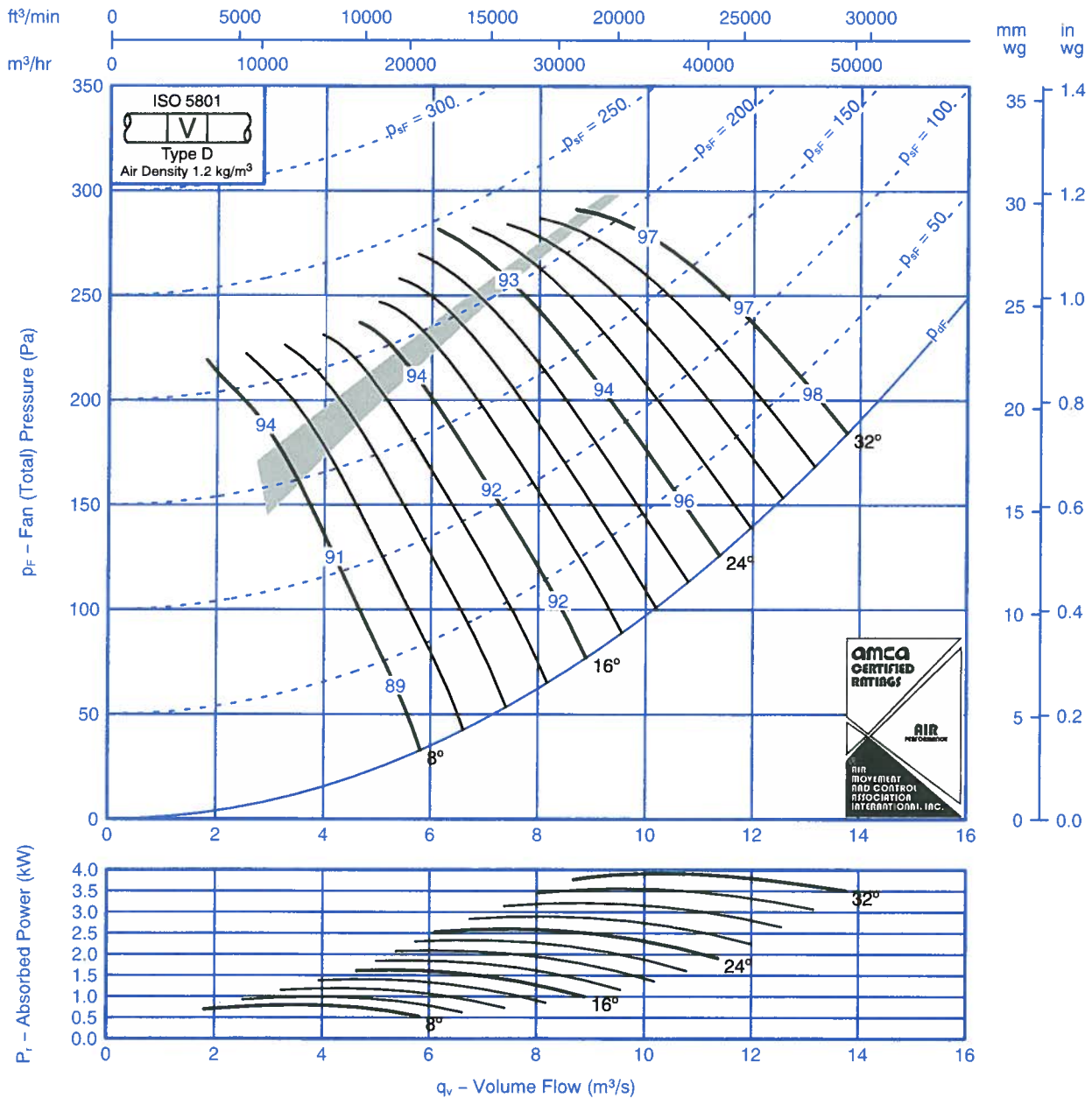
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-15	-8	-4	-6	-12	-17	-23	8	-8	-14	-8	-4	-6	-12	-16	-20
	-4	-11	-9	-9	-8	-11	-15	-19		-2	-11	-9	-9	-8	-10	-14	-18
16	-3	-11	-10	-10	-10	-13	-16	-19	16	-1	-11	-10	-10	-10	-12	-14	-17
	-2	-10	-11	-12	-12	-15	-18	-22		-1	-10	-11	-12	-12	-14	-17	-19
24 – 32	-5	-7	-8	-10	-10	-13	-17	-20	24 – 32	-3	-7	-8	-10	-10	-13	-16	-19
	-3	-9	-9	-11	-10	-13	-17	-19		-2	-9	-9	-11	-10	-12	-15	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

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Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-15	-7	-4	-6	-12	-18	-24	8	-14	-11	-7	-4	-6	-12	-17	-22
	-9	-12	-9	-9	-5	-8	-13	-19		-9	-11	-9	-9	-5	-7	-13	-18
16	-14	-15	-8	-4	-5	-12	-18	-24	16	-13	-15	-8	-4	-5	-12	-17	-22
	-6	-9	-8	-7	-7	-11	-15	-20		-6	-9	-8	-7	-7	-10	-14	-19
24 - 32	-7	-9	-7	-7	-8	-12	-16	-20	24 - 32	-6	-9	-7	-7	-8	-12	-15	-19
	-5	-8	-8	-9	-9	-12	-16	-20		-4	-8	-8	-9	-9	-12	-15	-18



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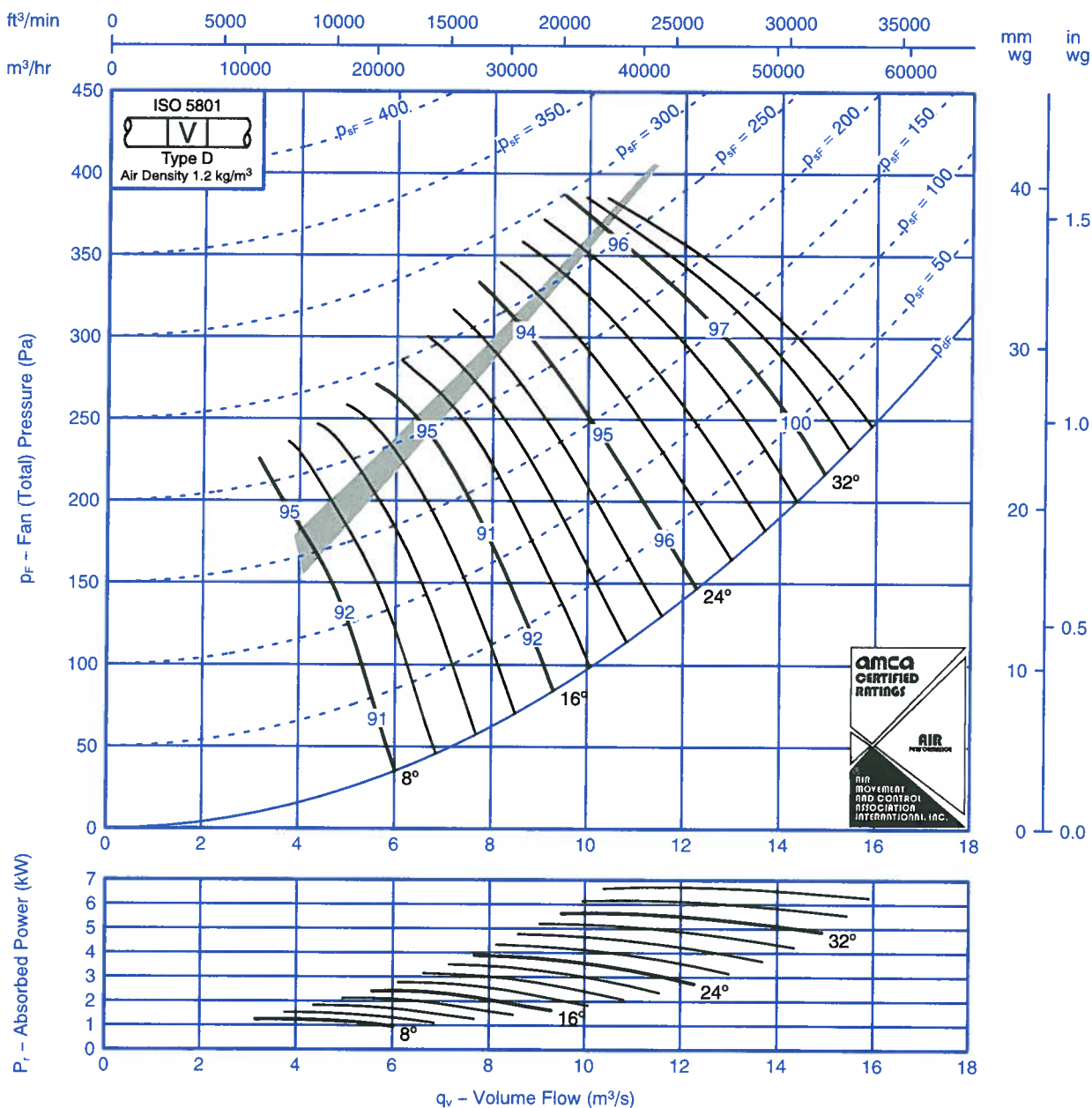
Fan Code: 100JM/25/6/9/...

1000 mm 960 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

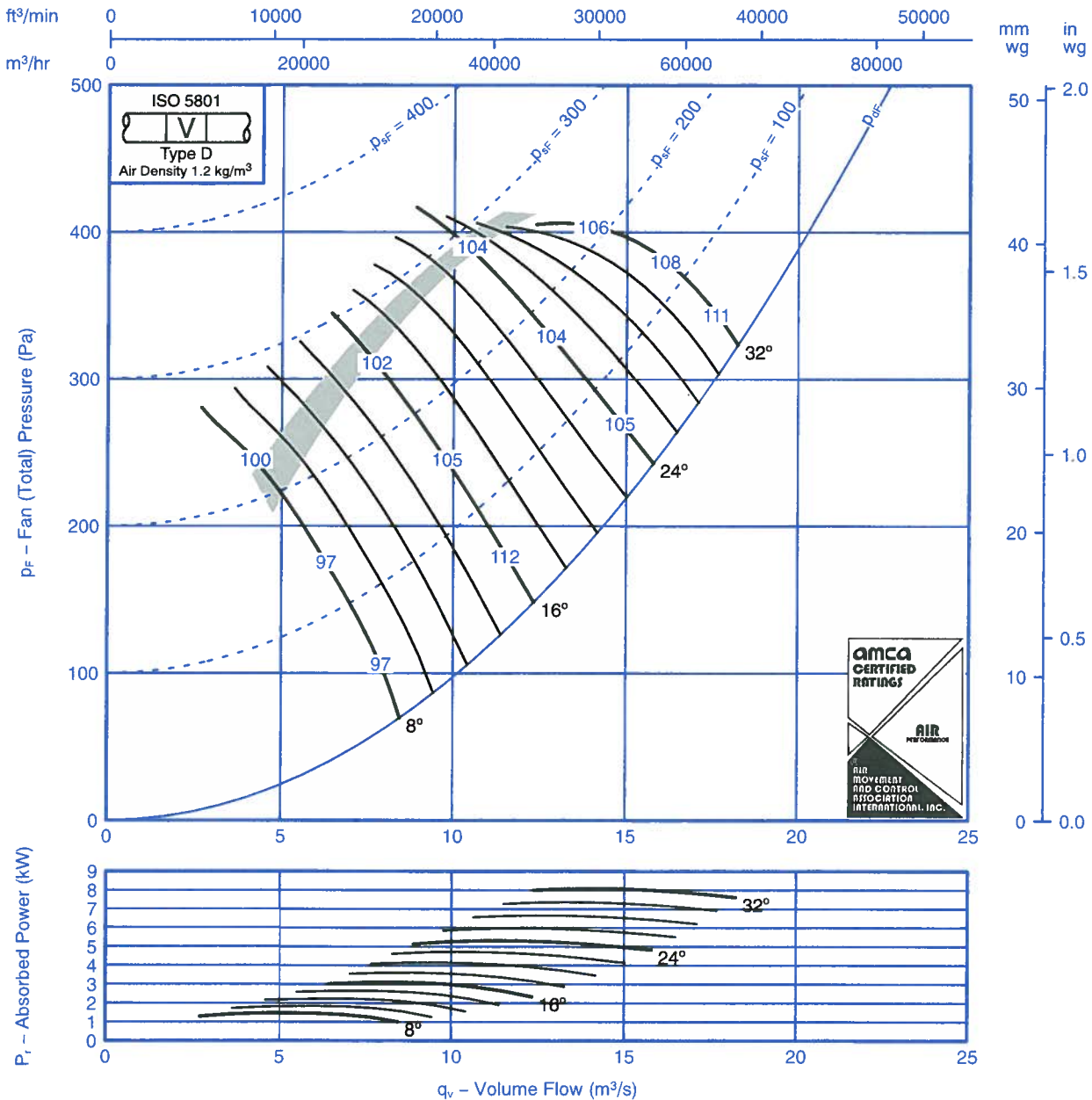
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-14	-11	-4	-4	-9	-17	-23	8	-20	-12	-11	-4	-4	-9	-16	-21
	-18	-10	-10	-8	-4	-8	-13	-18		-18	-8	-10	-8	-4	-6	-13	-17
16	-16	-12	-10	-4	-6	-10	-17	-24	16	-14	-12	-10	-4	-6	-10	-16	-22
	-10	-7	-8	-6	-7	-11	-15	-20		-10	-7	-8	-6	-7	-10	-14	-19
24 - 36	-8	-8	-8	-7	-7	-11	-15	-19	24 - 32	-7	-7	-8	-7	-7	-11	-14	-18
	-6	-6	-8	-9	-9	-12	-16	-20		-5	-6	-8	-9	-9	-12	-15	-18



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Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-16	-14	-7	-5	-9	-14	-20	8	-6	-14	-14	-7	-4	-8	-13	-16
	-3	-10	-13	-11	-10	-10	-14	-18		-2	-10	-12	-11	-10	-9	-13	-16
16	-2	-10	-14	-13	-12	-13	-16	-19	16	-1	-10	-14	-13	-12	-13	-14	-16
	-2	-9	-13	-14	-14	-15	-18	-21		-1	-9	-13	-14	-14	-15	-17	-19
24-32	-5	-8	-9	-9	-11	-12	-16	-19	24-32	-4	-7	-9	-9	-11	-12	-14	-17
	-3	-8	-11	-11	-12	-13	-16	-19		-2	-7	-11	-11	-12	-12	-14	-17



BS 5750 Pt 1
EN 29001
ISO 9001

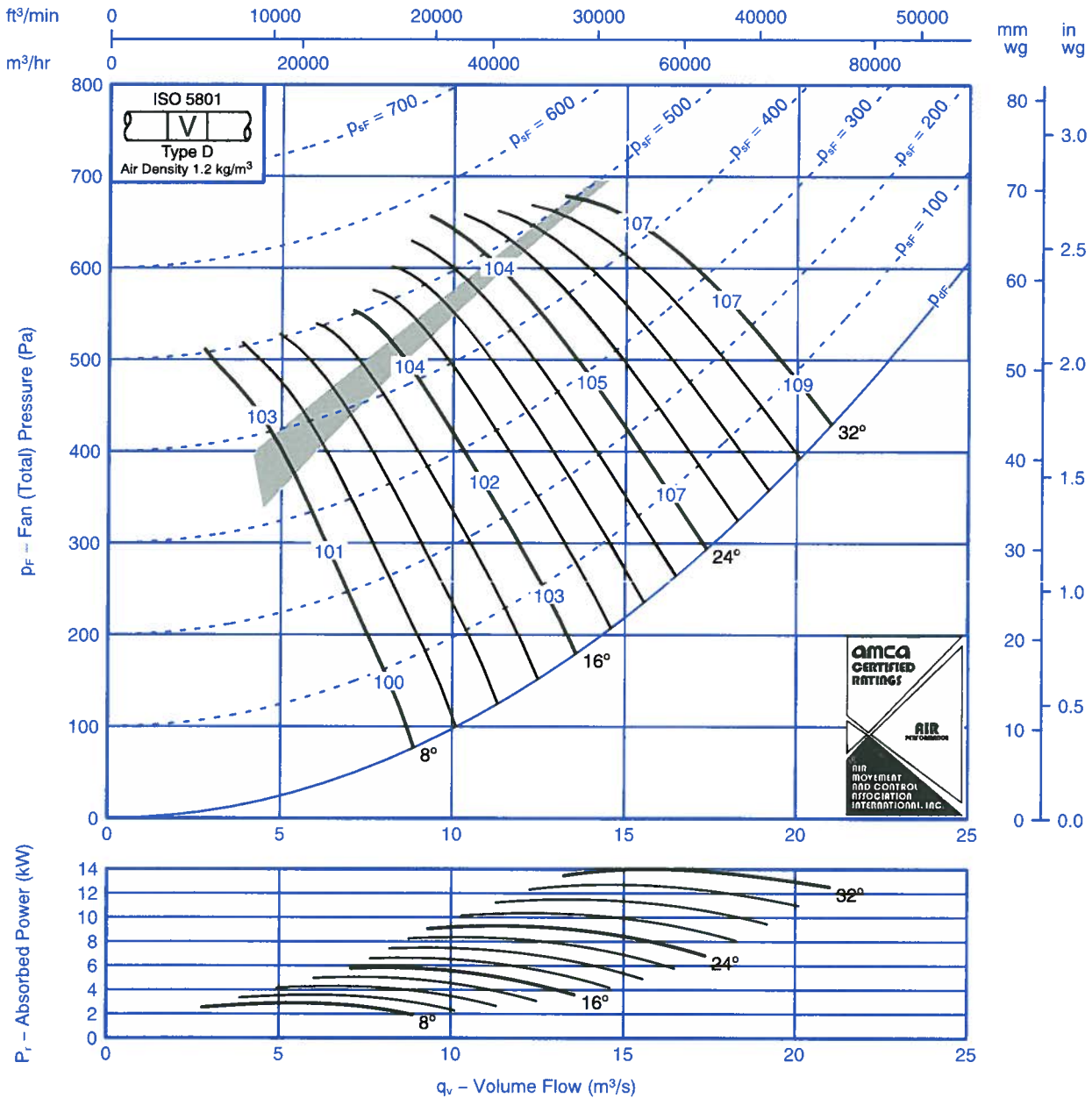
Fan Code: 100JM/25/4/6/...

1000 mm 1450 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

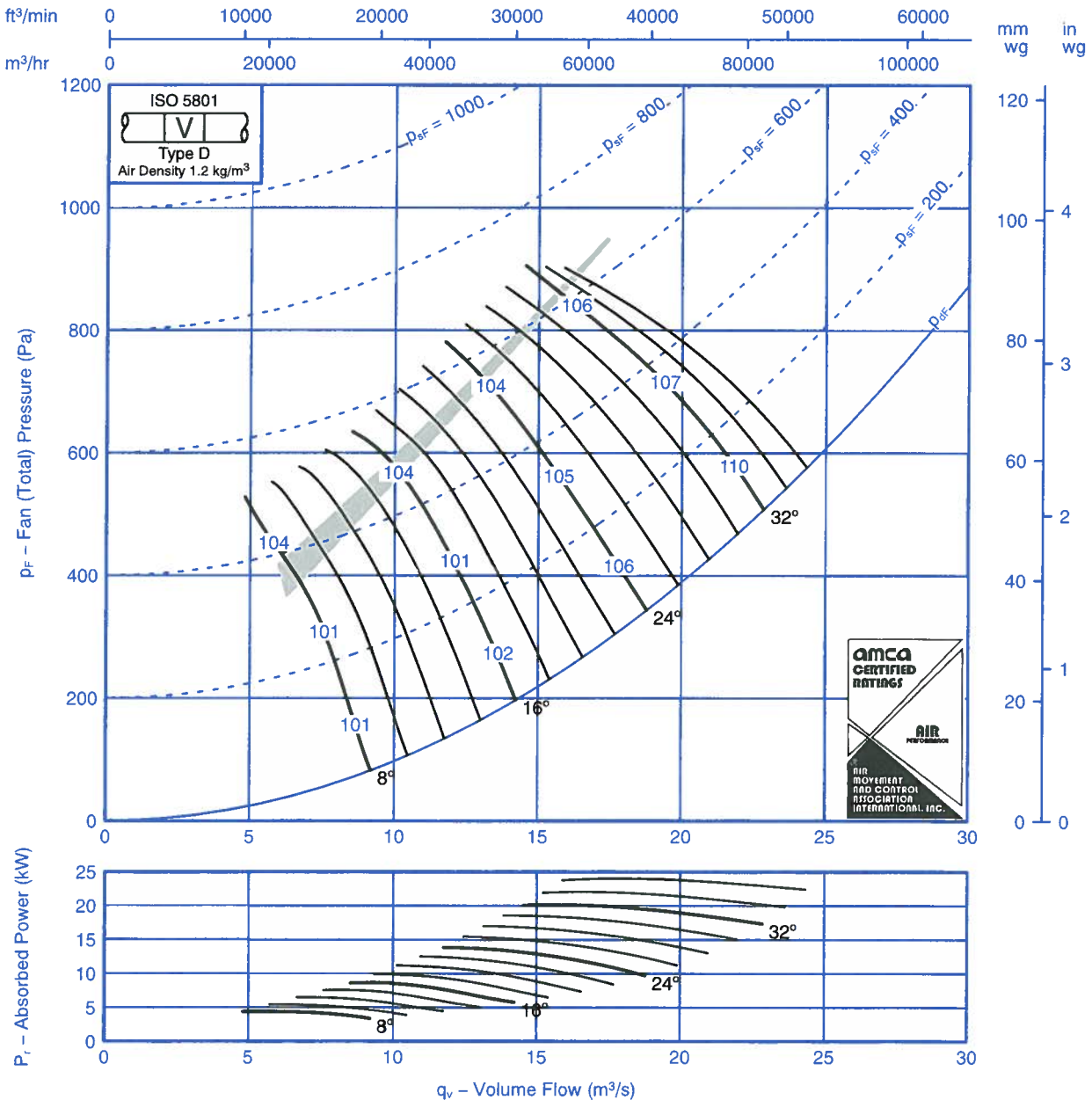
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-17	-13	-6	-5	-8	-14	-20	8	-12	-15	-12	-6	-4	-8	-13	-18
	-7	-12	-12	-12	-8	-6	-10	-16		-6	-11	-11	-12	-8	-5	-9	-14
16	-10	-15	-13	-7	-4	-8	-15	-20	16	-9	-15	-13	-7	-4	-8	-14	-18
	-5	-9	-10	-10	-8	-10	-13	-18		-4	-9	-10	-10	-8	-9	-12	-16
24 - 32	-7	-9	-9	-8	-8	-10	-14	-18	24 - 32	-6	-9	-8	-7	-8	-10	-13	-17
	-5	-7	-9	-10	-11	-11	-15	-18		-4	-7	-9	-10	-10	-11	-14	-16



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Sound Data BS848 Part 2 1985:

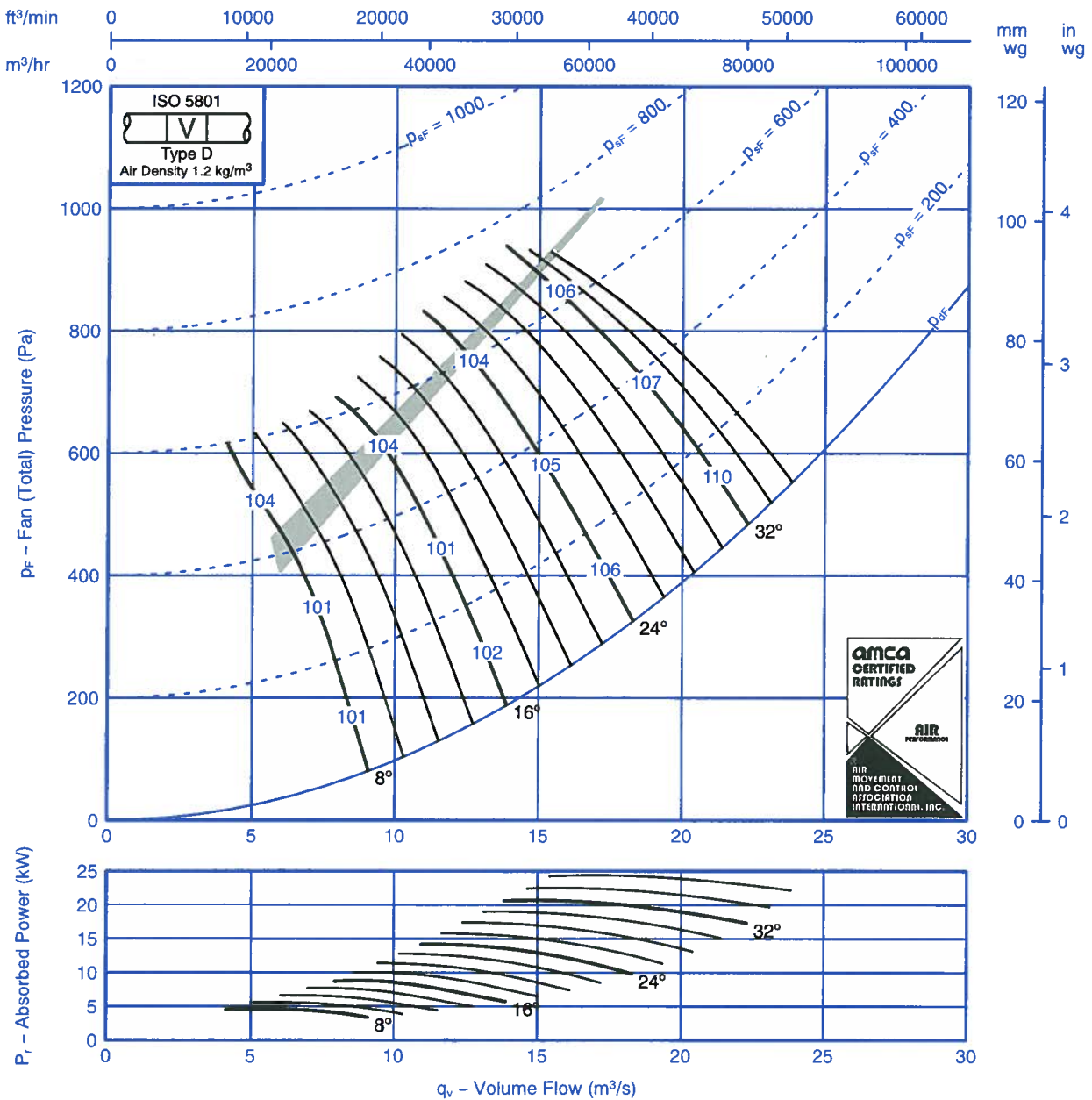
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-21	-14	-9	-4	-6	-12	-19	8	-20	-20	-13	-9	-4	-5	-11	-16
	-17	-18	-10	-10	-6	-5	-9	-15		-17	-18	-9	-10	-6	-3	-8	-13
16	-15	-16	-12	-7	-4	-7	-12	-19	16	-14	-16	-12	-6	-4	-7	-11	-17
	-10	-11	-8	-8	-7	-8	-12	-17		-10	-11	-7	-8	-6	-8	-11	-15
24-36	-8	-9	-8	-8	-8	-8	-13	-16	24-36	-7	-9	-8	-8	-8	-8	-12	-15
	-6	-8	-7	-9	-10	-10	-14	-18		-6	-8	-6	-9	-10	-10	-13	-16



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-21	-14	-9	-4	-6	-12	-19	8	-20	-20	-13	-9	-4	-5	-11	-16
	-17	-18	-10	-10	-6	-5	-9	-15		-17	-18	-9	-10	-6	-3	-8	-13
16	-15	-16	-12	-7	-4	-7	-12	-19	16	-14	-16	-12	-6	-4	-7	-11	-17
	-10	-11	-8	-8	-7	-8	-12	-17		-10	-11	-7	-8	-6	-8	-11	-15
24 - 36	-8	-9	-8	-8	-8	-8	-13	-16	24 - 36	-7	-9	-8	-8	-8	-8	-12	-15
	-6	-8	-7	-9	-10	-10	-14	-18		-6	-8	-6	-9	-10	-10	-13	-16

JM AEROFOIL



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EN 29001
ISO 9001

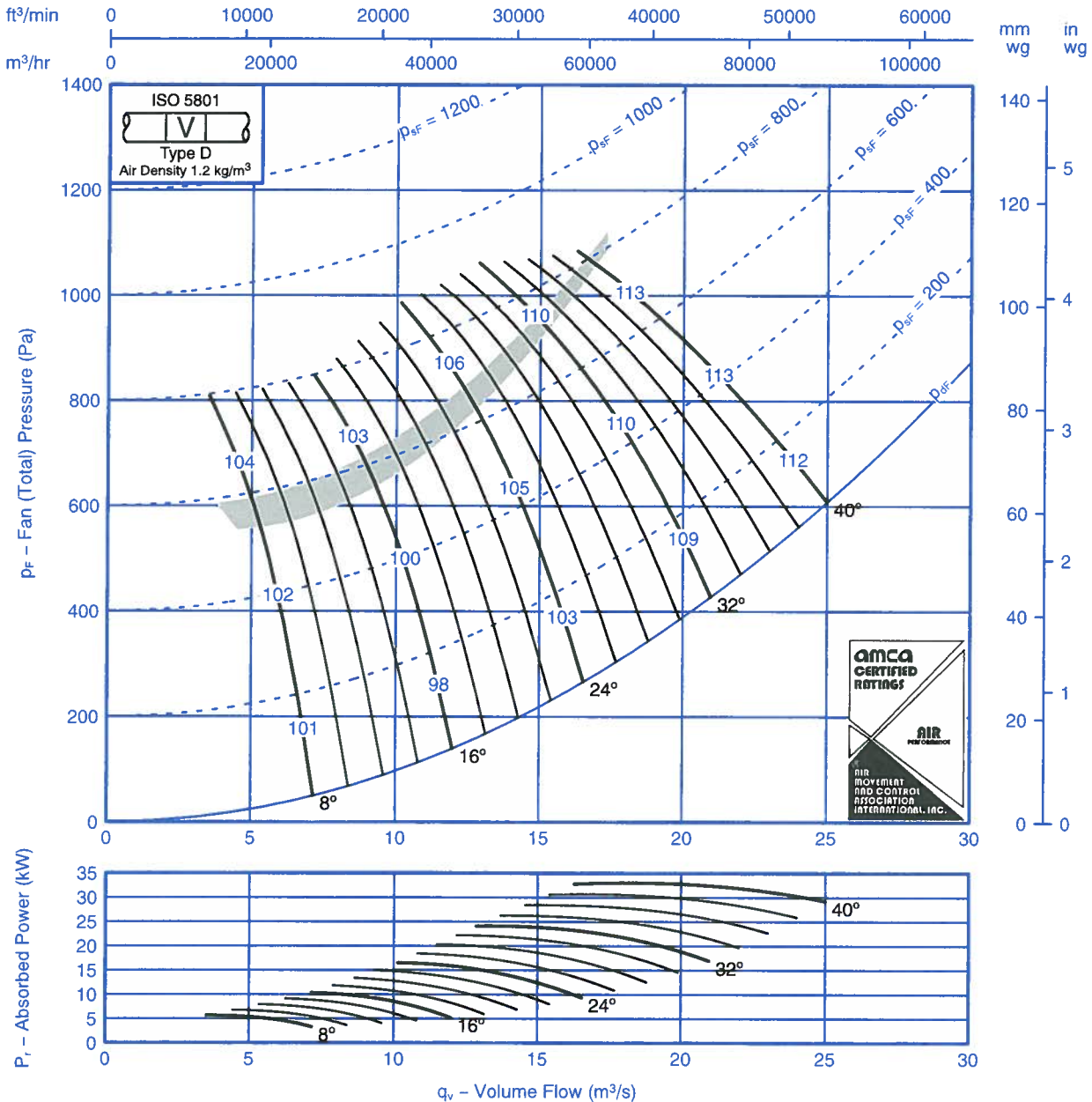
Fan Code: 100JM/40/4/9/...

1000 mm 1470 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-9	-10	-7	-5	-8	-13	-19	-27	8	-7	-7	-6	-4	-9	-13	-18	-25
	-10	-12	-7	-7	-7	-9	-13	-22		-6	-9	-4	-7	-7	-8	-12	-21
16	-7	-11	-8	-5	-8	-11	-15	-23	16	-3	-7	-7	-6	-10	-11	-15	-22
	-6	-10	-6	-7	-10	-10	-12	-21		-2	-6	-5	-8	-12	-11	-11	-20
24 – 40	-5	-9	-9	-5	-15	-16	-17	-20	24 – 40	-2	-5	-7	-4	-14	-15	-16	-19
	-6	-8	-8	-5	-15	-17	-18	-23		-3	-4	-6	-4	-14	-16	-17	-22



BS 5750 Pt 1
EN 29001
ISO 9001

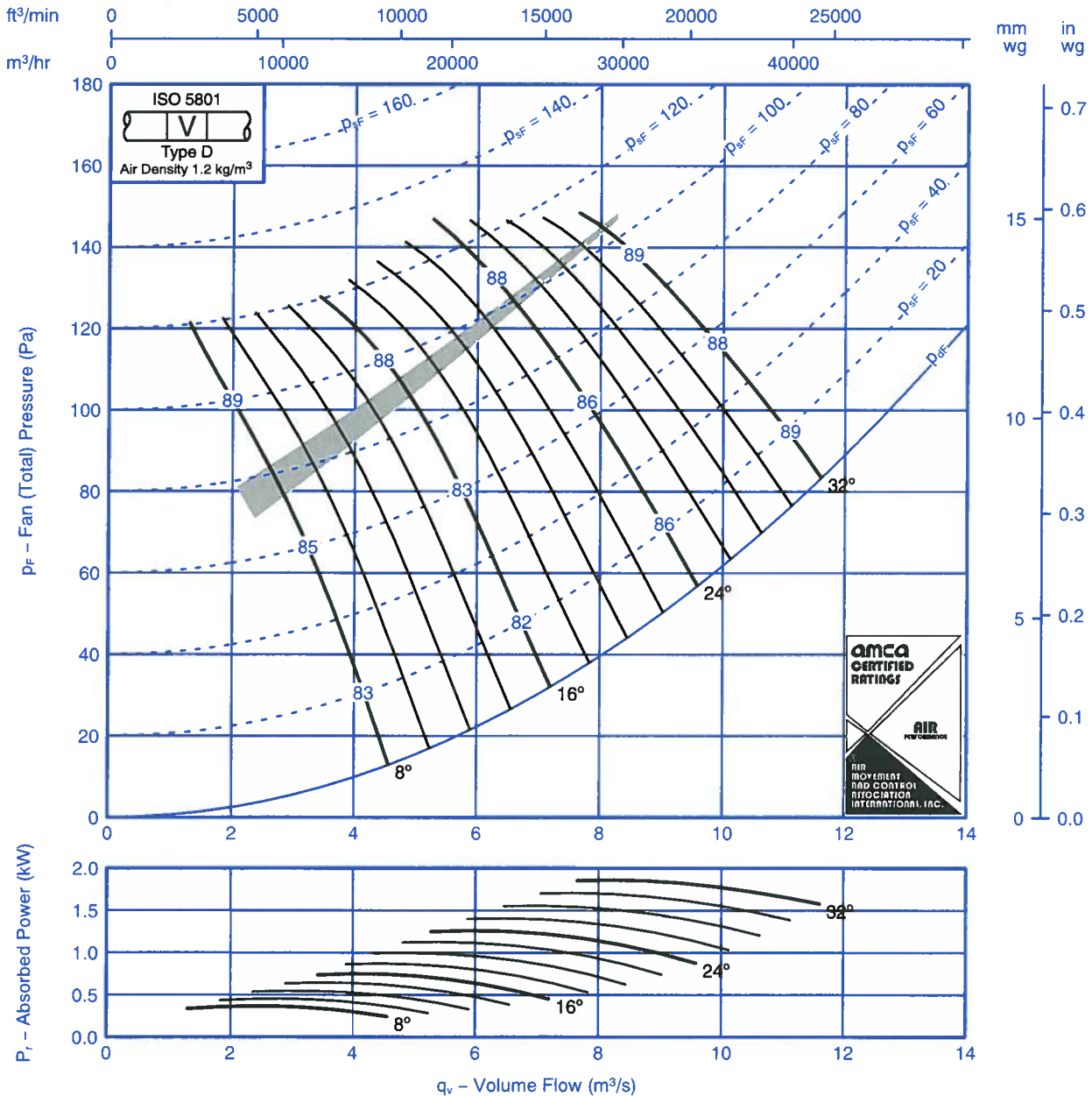
Fan Code: 112JM/40/10/6/...

1120 mm 575 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

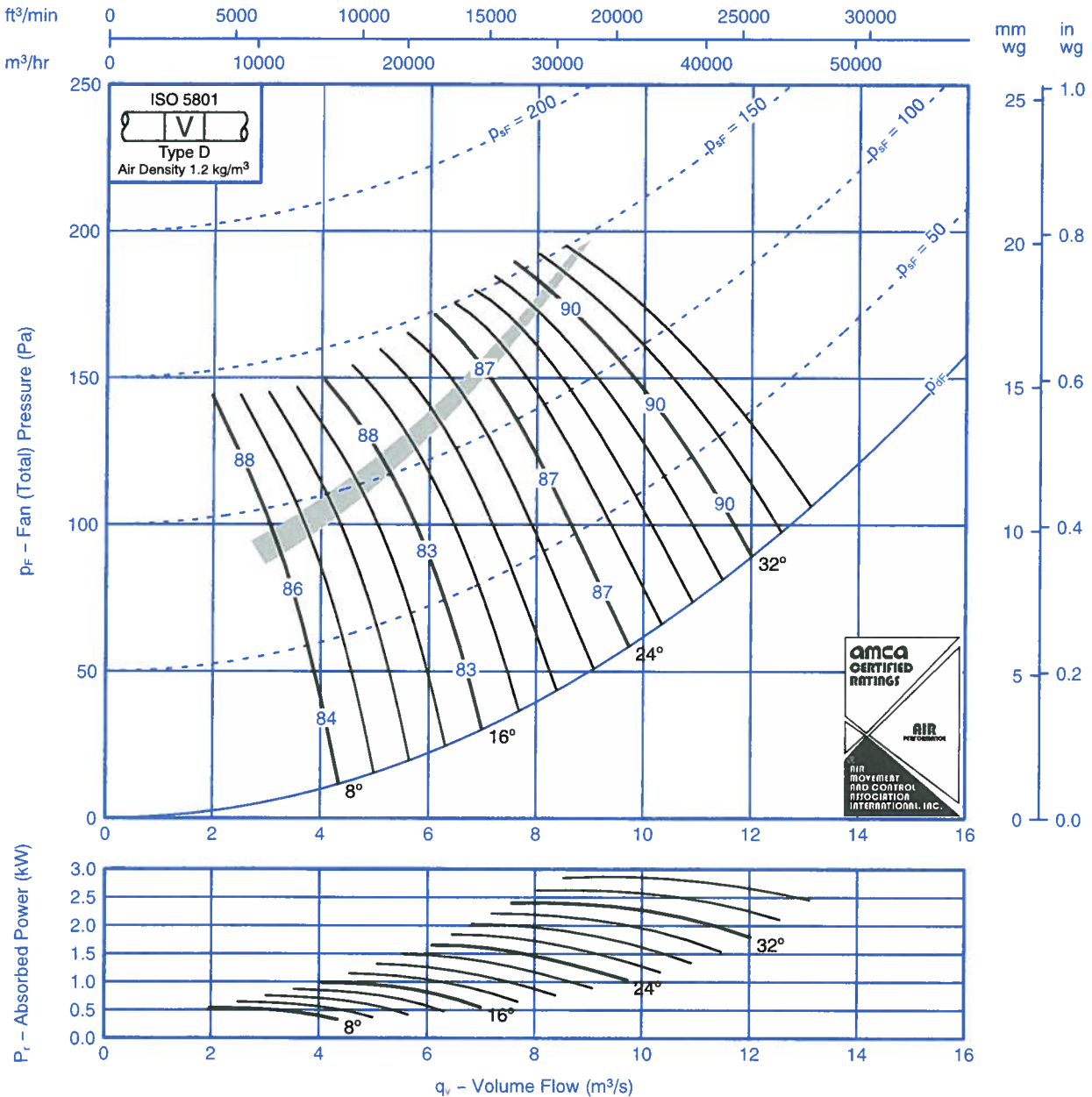
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-5	-4	-8	-16	-21	-28	-34	8	-7	-5	-5	-8	-15	-21	-28	-33
	-7	-8	-6	-6	-11	-16	-22	-30		-4	-7	-6	-6	-10	-15	-22	-29
16	-7	-6	-6	-7	-12	-17	-24	-29	16	-5	-5	-6	-7	-12	-16	-24	-28
	-5	-5	-9	-10	-12	-16	-22	-29		-2	-4	-9	-10	-12	-15	-22	-28
24 – 32	-6	-5	-8	-8	-12	-16	-20	-23	24 – 32	-4	-4	-8	-8	-12	-15	-20	-22
	-6	-4	-9	-9	-13	-17	-20	-23		-3	-3	-9	-9	-13	-16	-20	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

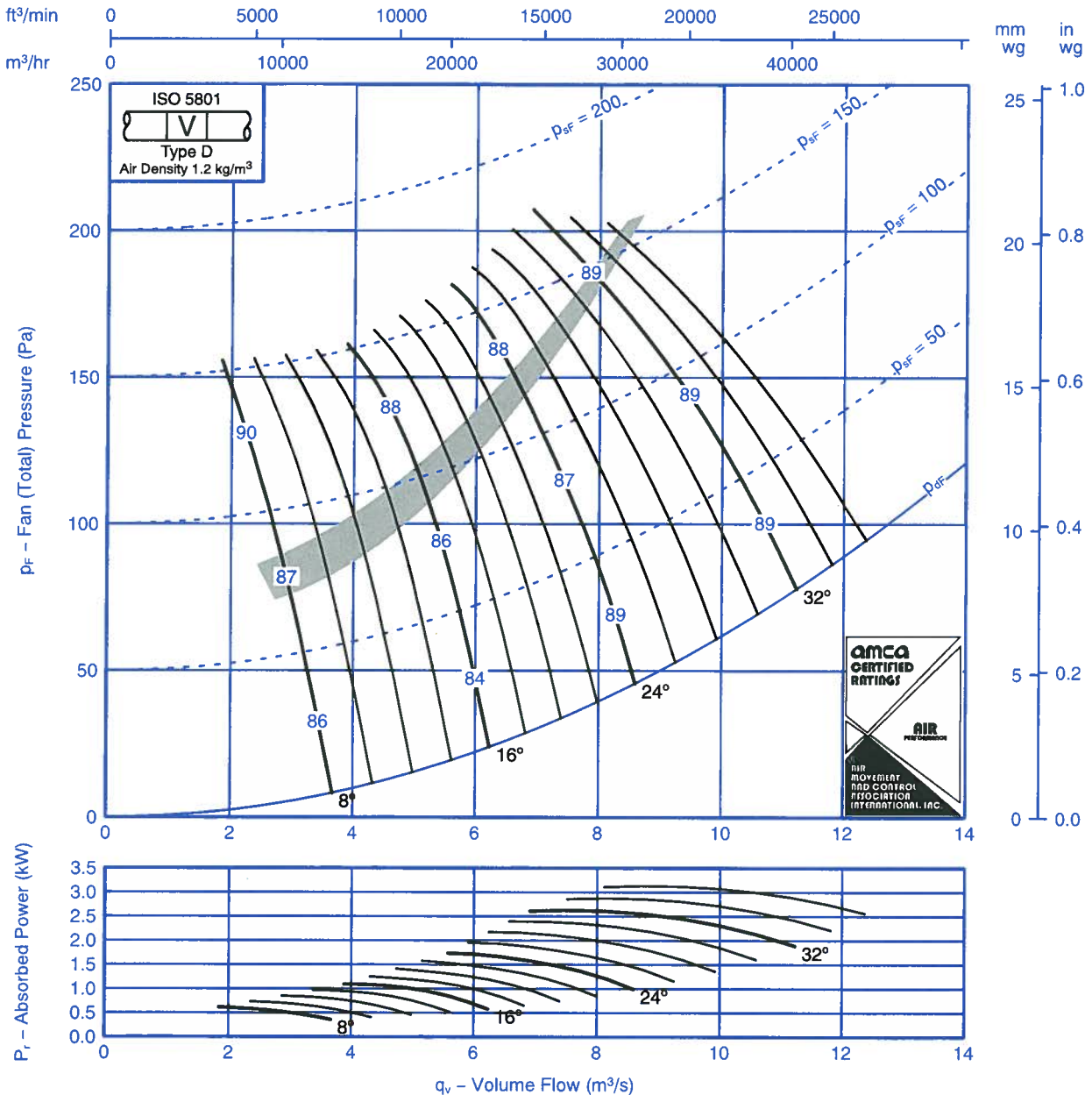
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-5	-4	-7	-15	-21	-29	-35	8	-8	-3	-4	-6	-15	-21	-28	-33
	-10	-9	-6	-4	-10	-15	-23	-31		-6	-6	-6	-4	-10	-15	-22	-30
16	-12	-6	-4	-7	-12	-19	-27	-32	16	-9	-3	-3	-7	-14	-20	-26	-32
	-6	-8	-6	-7	-9	-13	-21	-27		-3	-5	-5	-6	-10	-14	-20	-26
24 – 36	-6	-7	-5	-9	-13	-14	-20	-25	24 – 36	-3	-4	-4	-8	-12	-14	-20	-24
	-5	-7	-6	-10	-13	-14	-21	-26		-2	-4	-5	-9	-12	-14	-20	-25



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

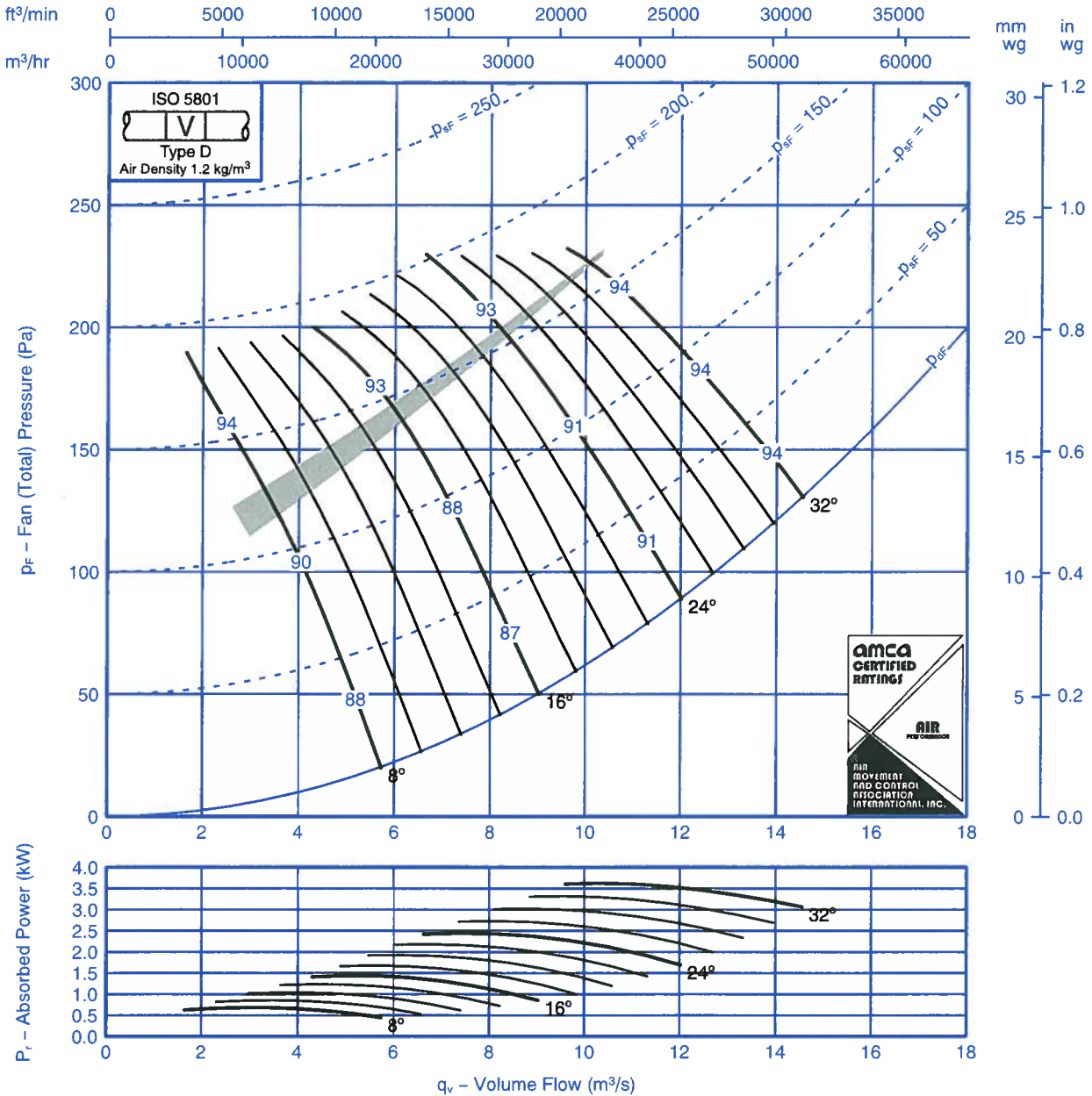
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-5	-6	-6	-11	-18	-24	-33	8	-12	-2	-6	-7	-11	-16	-21	-31
	-14	-4	-7	-6	-11	-16	-21	-31		-11	-2	-6	-8	-11	-14	-18	-29
16	-13	-4	-7	-7	-11	-17	-24	-31	16	-11	-1	-7	-7	-11	-16	-21	-28
	-13	-2	-9	-8	-12	-16	-21	-29		-10	1	-9	-8	-12	-14	-18	-27
24 – 36	-9	-4	-8	-8	-12	-15	-19	-24	24 – 36	-6	-1	-8	-8	-13	-13	-16	-21
	-9	-3	-9	-9	-12	-15	-20	-25		-7	-1	-9	-8	-13	-13	-17	-23



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

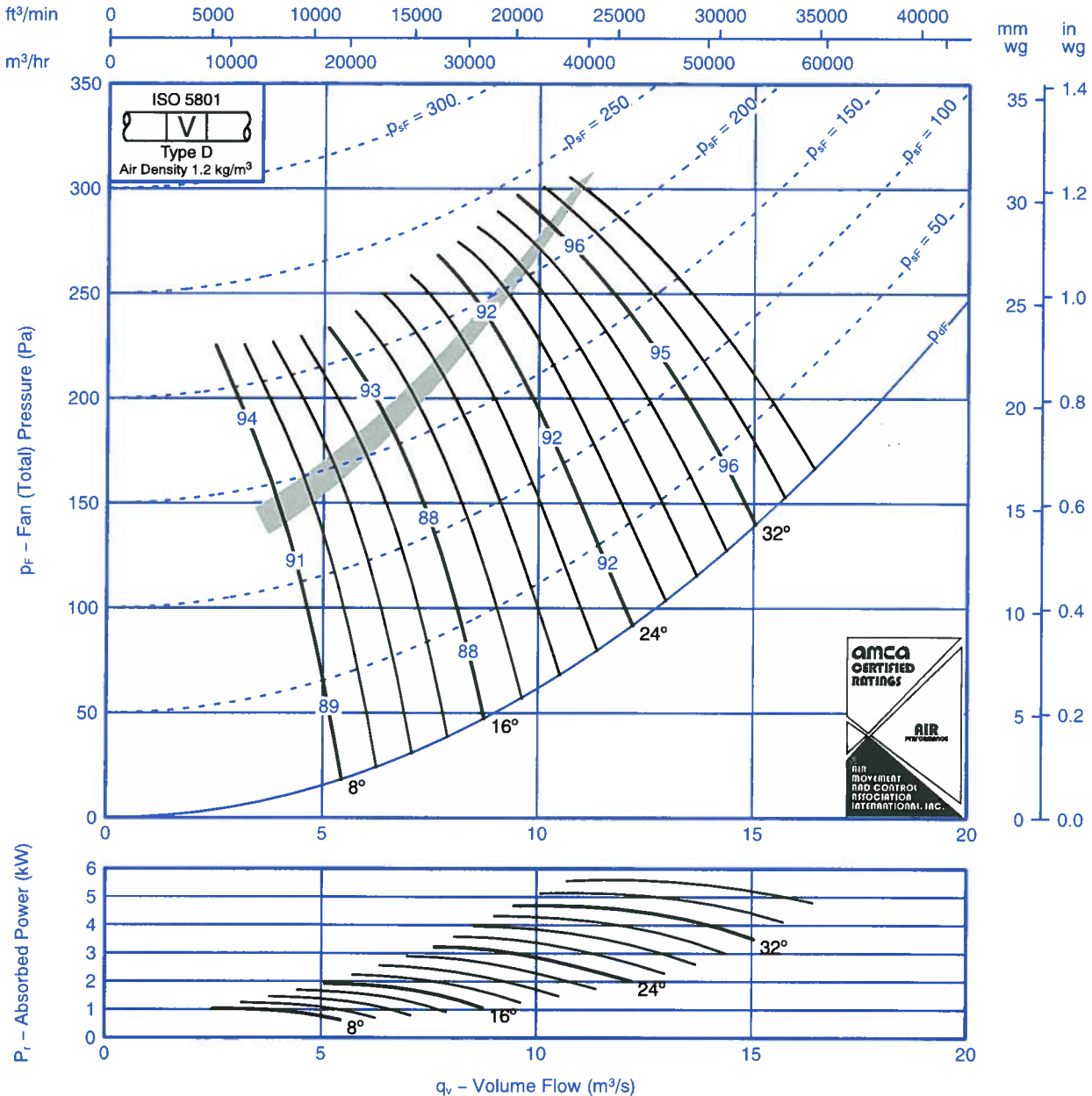
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels								Outlet Levels									
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-7	-4	-6	-13	-20	-25	-32	8	-8	-6	-4	-6	-13	-19	-26	-31
	-7	-8	-7	-6	-9	-14	-19	-28		-4	-8	-7	-6	-9	-14	-20	-27
16	-7	-7	-6	-7	-11	-15	-21	-27	16	-4	-6	-6	-7	-10	-15	-22	-26
	-4	-6	-8	-10	-12	-15	-20	-27		-2	-4	-9	-10	-11	-15	-20	-26
24 – 32	-5	-6	-8	-8	-11	-15	-18	-22	24 – 32	-3	-5	-8	-8	-11	-15	-18	-21
	-5	-5	-8	-9	-12	-16	-19	-23		-3	-4	-8	-10	-12	-15	-19	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

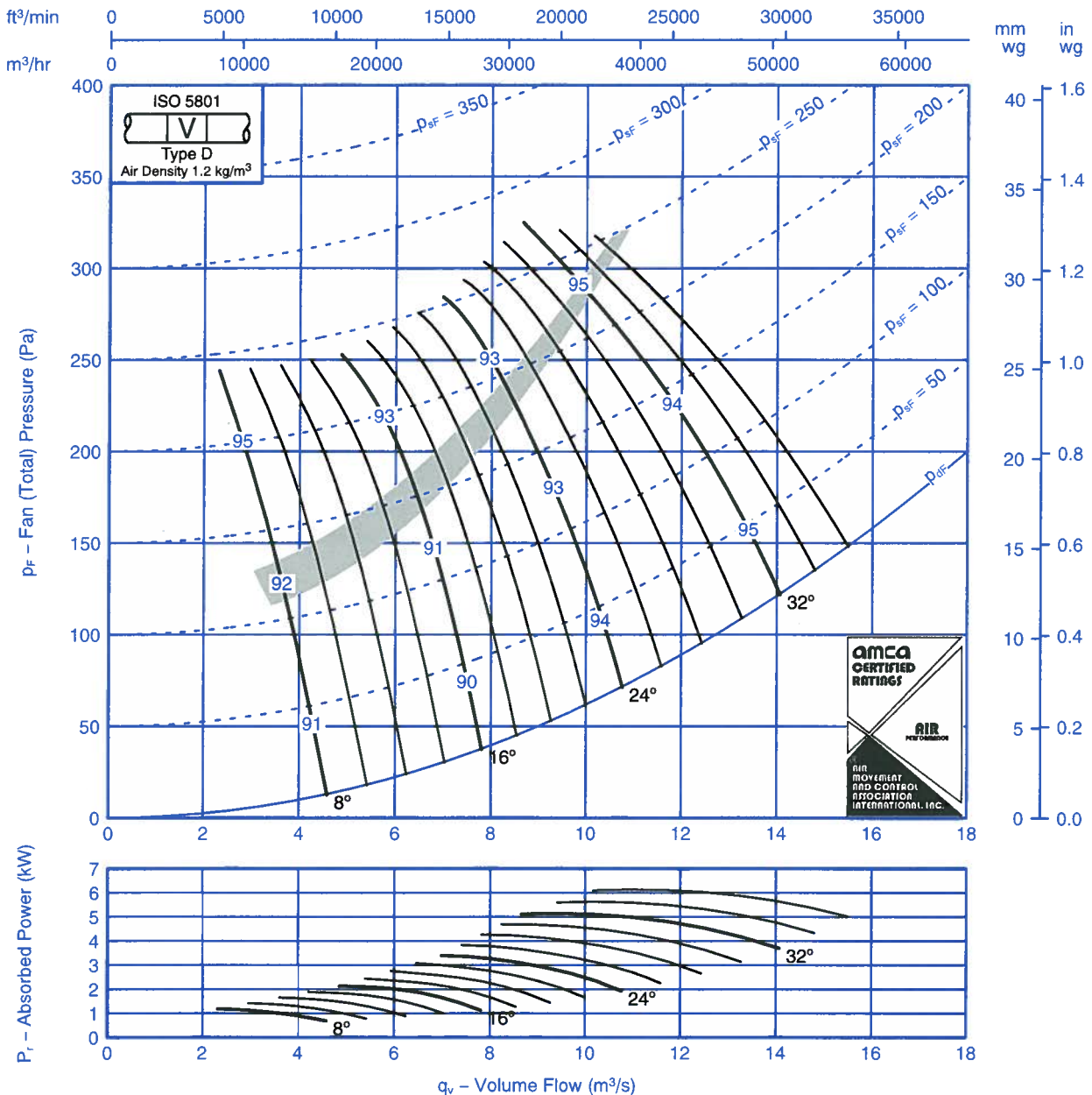
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-7	-4	-6	-12	-19	-26	-33	8	-11	-5	-4	-5	-13	-19	-25	-31
	-16	-8	-7	-4	-8	-13	-20	-29		-13	-4	-7	-4	-8	-13	-19	-27
16	-14	-7	-4	-6	-10	-16	-24	-30	16	-10	-5	-4	-6	-12	-17	-24	-30
	-12	-6	-7	-7	-8	-11	-18	-25		-7	-2	-6	-6	-9	-12	-17	-24
24 – 36	-8	-6	-5	-9	-12	-14	-18	-24	24 – 36	-5	-3	-3	-8	-11	-13	-18	-23
	-7	-5	-5	-10	-13	-14	-18	-25		-4	-1	-4	-9	-12	-13	-18	-24



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

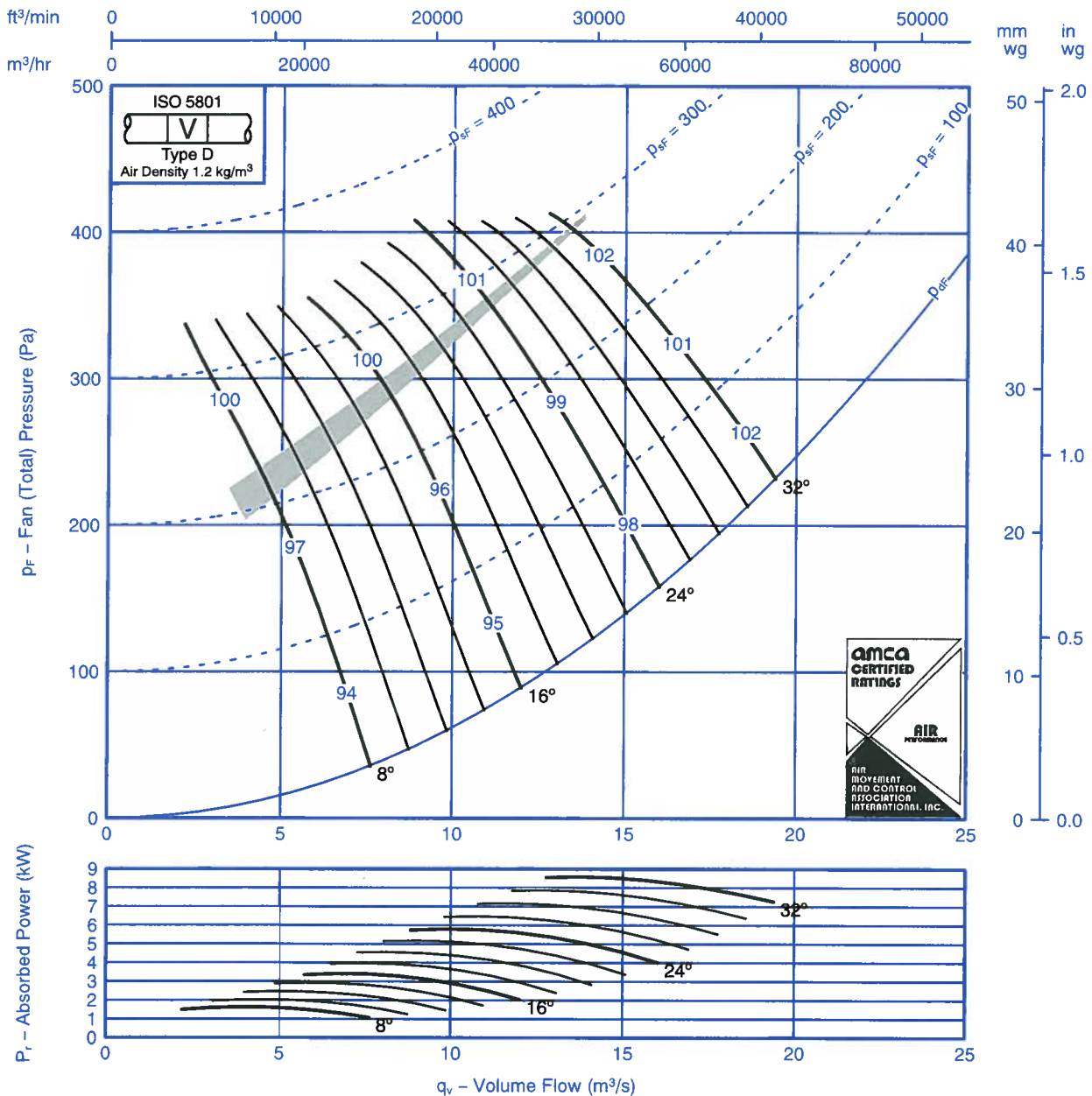
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-18	-5	-8	-5	-9	-16	-22	-30	8	-15	-2	-8	-6	-9	-14	-19	-28
	-17	-4	-8	-5	-10	-15	-19	-28		-14	-2	-7	-7	-10	-13	-16	-26
16	-15	-4	-8	-6	-10	-16	-22	-29	16	-13	-1	-7	-6	-10	-14	-19	-27
	-14	-2	-10	-8	-11	-14	-19	-27		-12	1	-9	-8	-11	-13	-16	-25
24 – 36	-9	-4	-8	-8	-11	-14	-18	-22	24 – 36	-7	-2	-7	-8	-12	-12	-15	-20
	-10	-3	-9	-9	-11	-15	-19	-24		-7	-1	-8	-9	-12	-12	-16	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

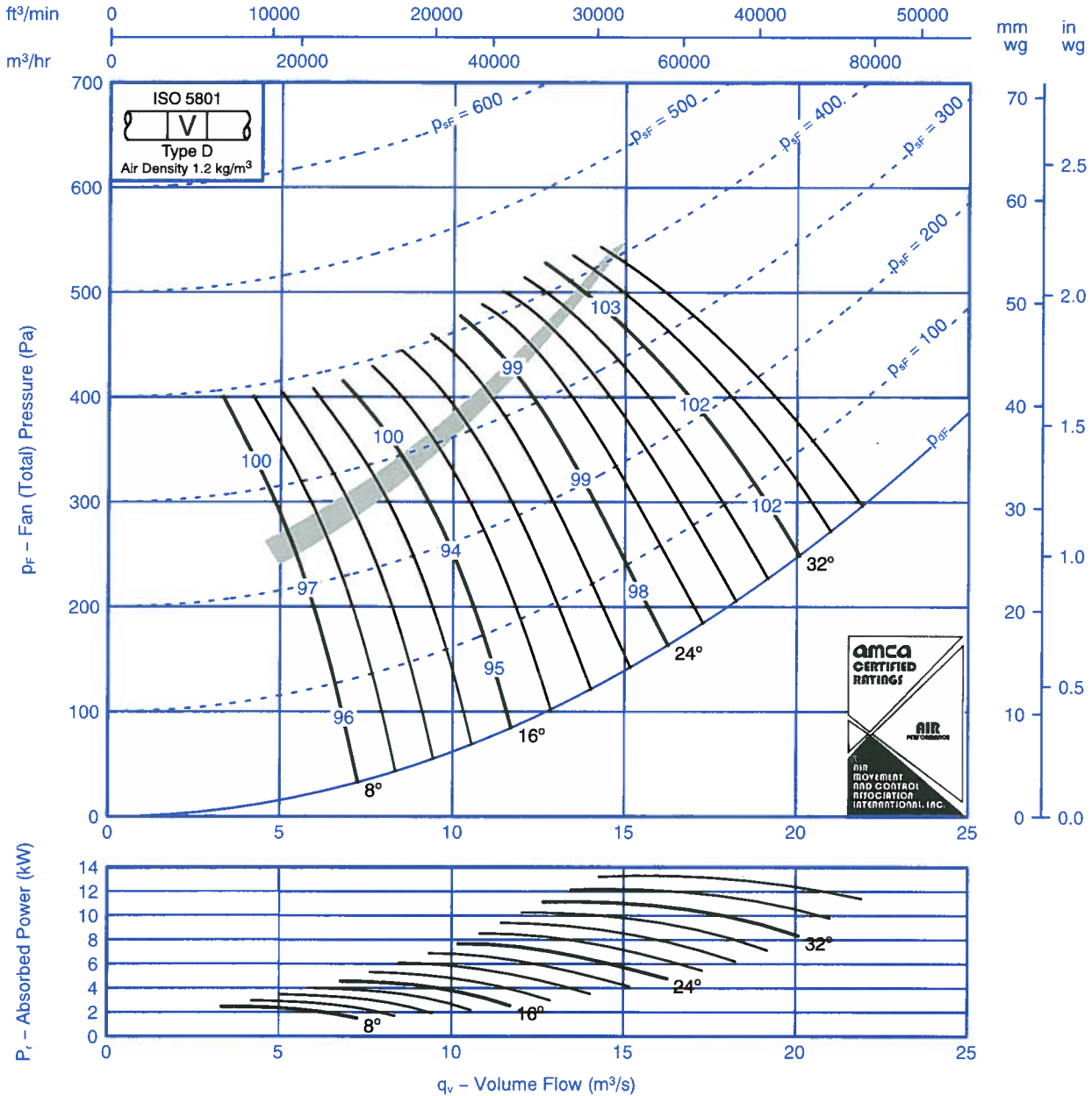
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-10	-10	-5	-6	-11	-19	-23	-31	8	-8	-7	-5	-5	-10	-18	-23	-29
	-9	-10	-10	-7	-9	-14	-19	-27		-5	-6	-9	-6	-8	-12	-18	-25
16	-6	-10	-8	-8	-11	-16	-21	-28	16	-2	-8	-8	-7	-10	-15	-20	-26
	-4	-7	-9	-13	-13	-16	-20	-27		-1	-5	-9	-12	-12	-16	-20	-26
24 – 32	-4	-9	-8	-10	-12	-15	-19	-23	24 – 32	-2	-7	-9	-9	-12	-14	-18	-22
	-4	-7	-7	-11	-12	-16	-20	-24		-2	-6	-8	-11	-12	-15	-20	-22



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

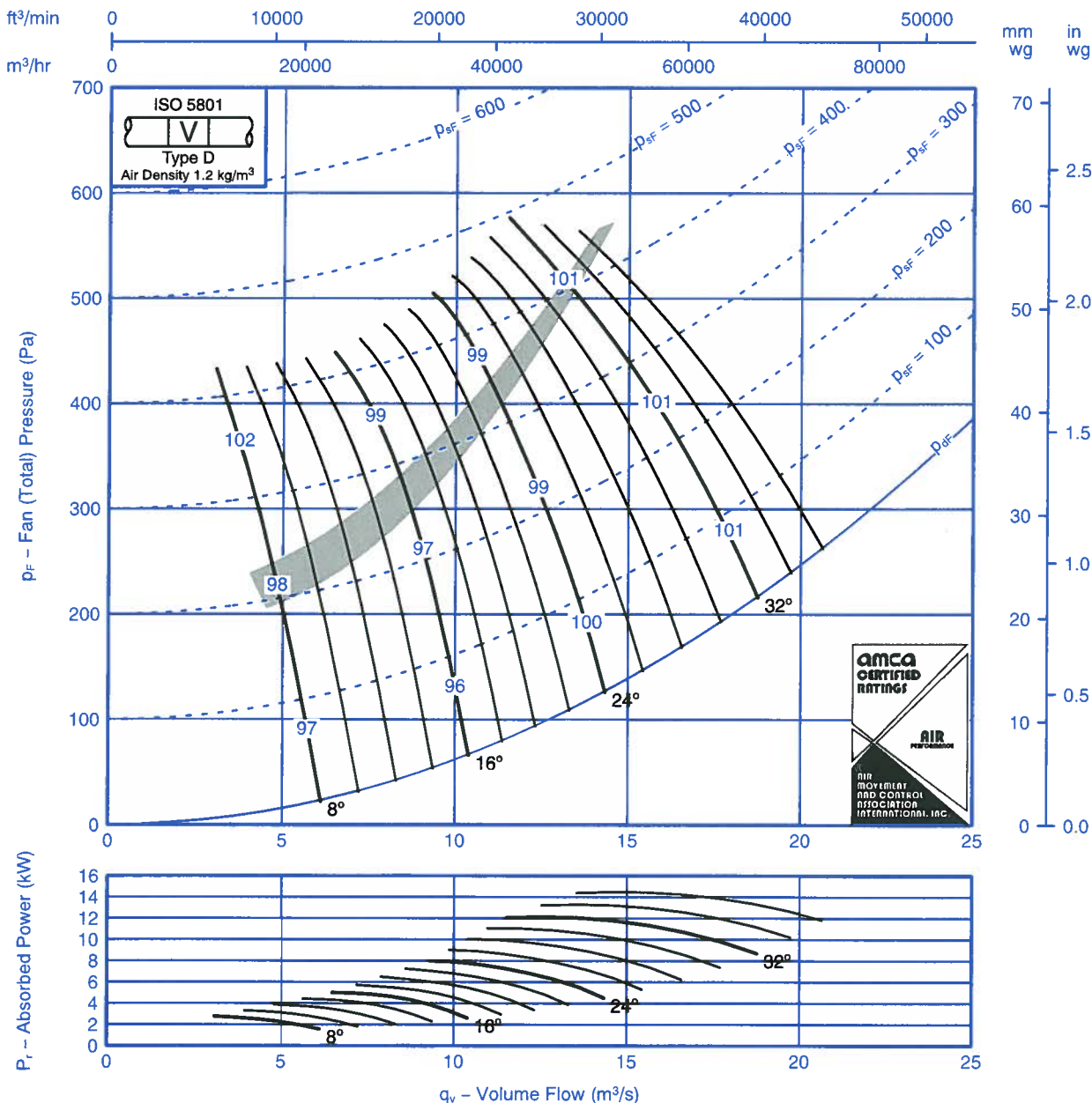
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-11	-6	-5	-10	-18	-24	-31	8	-12	-7	-4	-4	-10	-17	-22	-29
	-15	-9	-9	-6	-7	-12	-18	-27		-10	-6	-8	-5	-6	-11	-16	-24
16	-14	-13	-5	-5	-9	-14	-21	-29	16	-10	-10	-4	-5	-9	-15	-20	-28
	-12	-7	-7	-8	-9	-11	-16	-24		-7	-4	-5	-7	-9	-11	-14	-22
24 - 36	-8	-8	-5	-11	-12	-15	-17	-24	24 - 36	-4	-5	-3	-9	-11	-14	-16	-22
	-8	-6	-5	-11	-13	-15	-17	-25		-4	-3	-3	-10	-11	-14	-16	-23



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

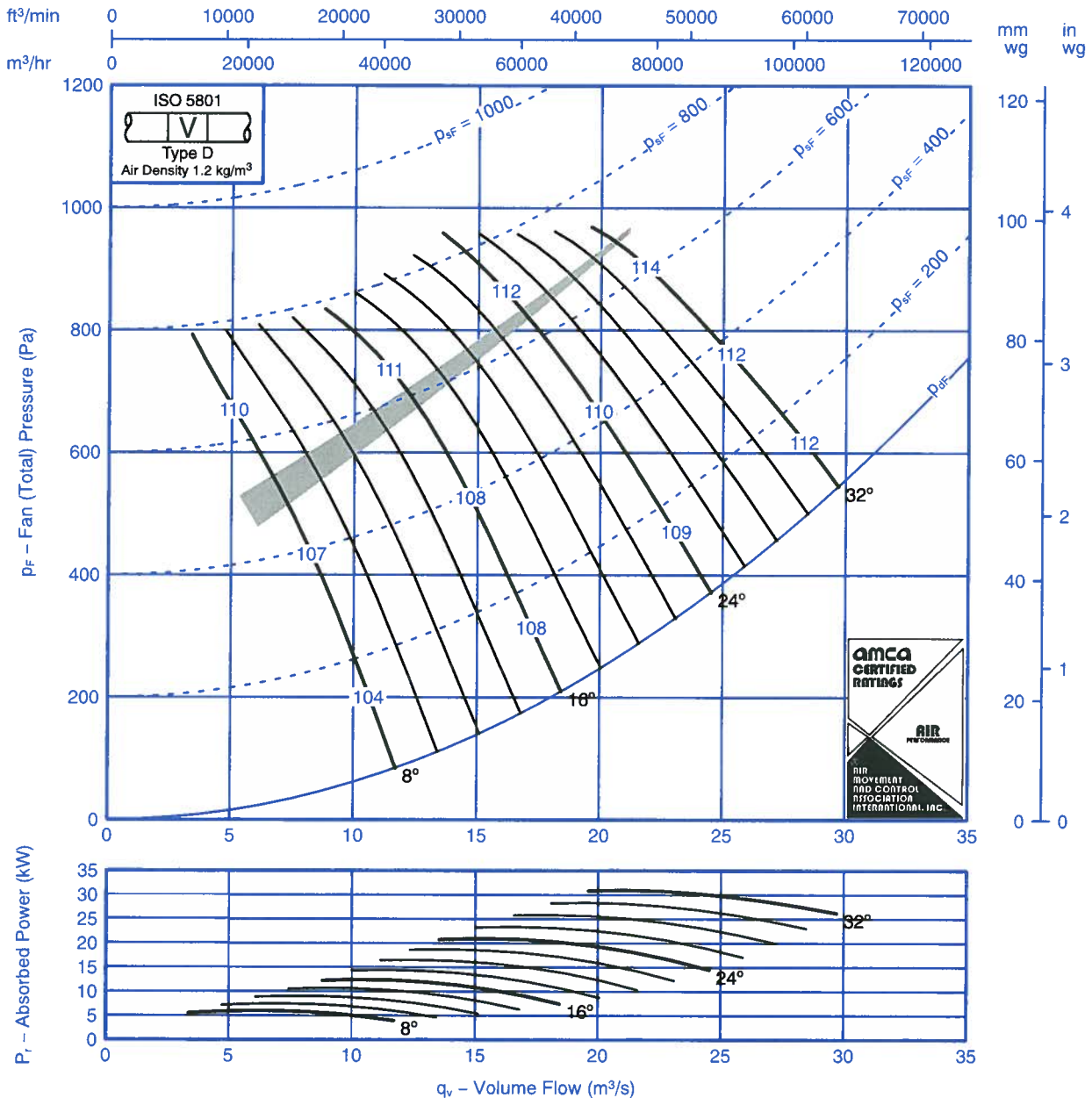
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-18	-10	-6	-5	-8	-14	-19	-27	8	-14	-8	-4	-6	-7	-12	-16	-24
	-17	-10	-5	-5	-7	-13	-17	-24		-13	-8	-3	-7	-7	-11	-14	-22
16	-13	-9	-5	-7	-8	-14	-20	-27	16	-10	-7	-3	-6	-8	-12	-16	-24
	-12	-8	-4	-8	-9	-13	-17	-24		-9	-7	-1	-8	-9	-11	-14	-21
24 – 36	-7	-8	-6	-8	-10	-14	-16	-21	24 – 36	-5	-6	-4	-8	-10	-12	-13	-19
	-8	-7	-5	-9	-10	-14	-17	-22		-6	-5	-3	-9	-10	-12	-14	-20



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-8	-11	-8	-5	-7	-13	-21	-26	8	-6	-9	-8	-5	-7	-13	-21	-25
	-6	-8	-10	-8	-7	-10	-15	-20		-5	-6	-9	-8	-7	-10	-16	-19
16	-3	-10	-10	-9	-9	-13	-18	-24	16	-1	-8	-10	-9	-9	-13	-19	-23
	-2	-9	-9	-12	-14	-16	-19	-23		0	-7	-9	-12	-13	-15	-19	-22
24 – 32	-3	-9	-9	-11	-11	-14	-18	-21	24 – 32	-1	-7	-8	-11	-11	-13	-18	-20
	-3	-9	-8	-11	-13	-15	-19	-22		-1	-7	-7	-11	-13	-14	-19	-21



BS 5750 Pt 1
EN 29001
ISO 9001

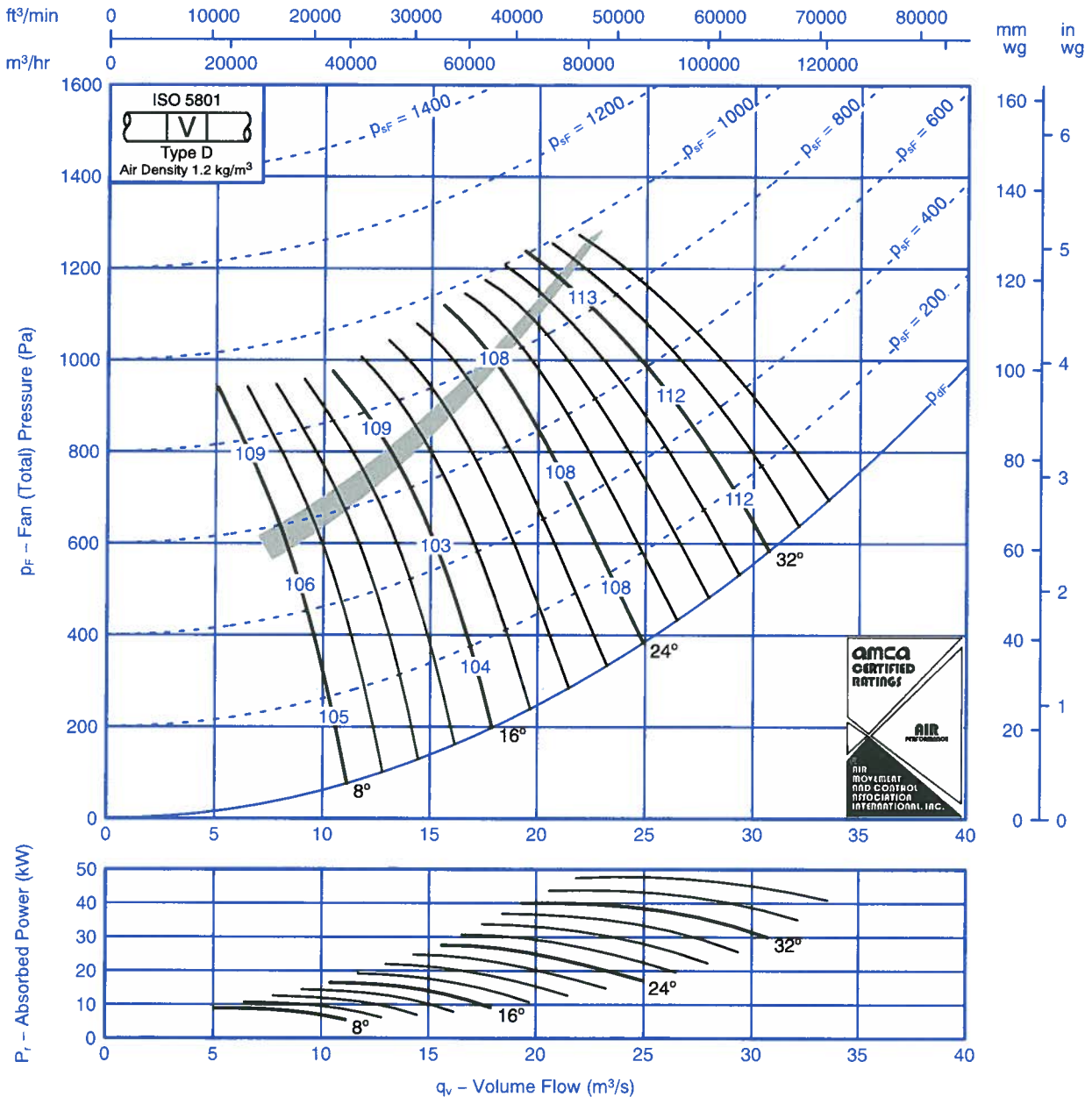
Fan Code: 112JM/40/4/9/...

1120 mm 1470 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

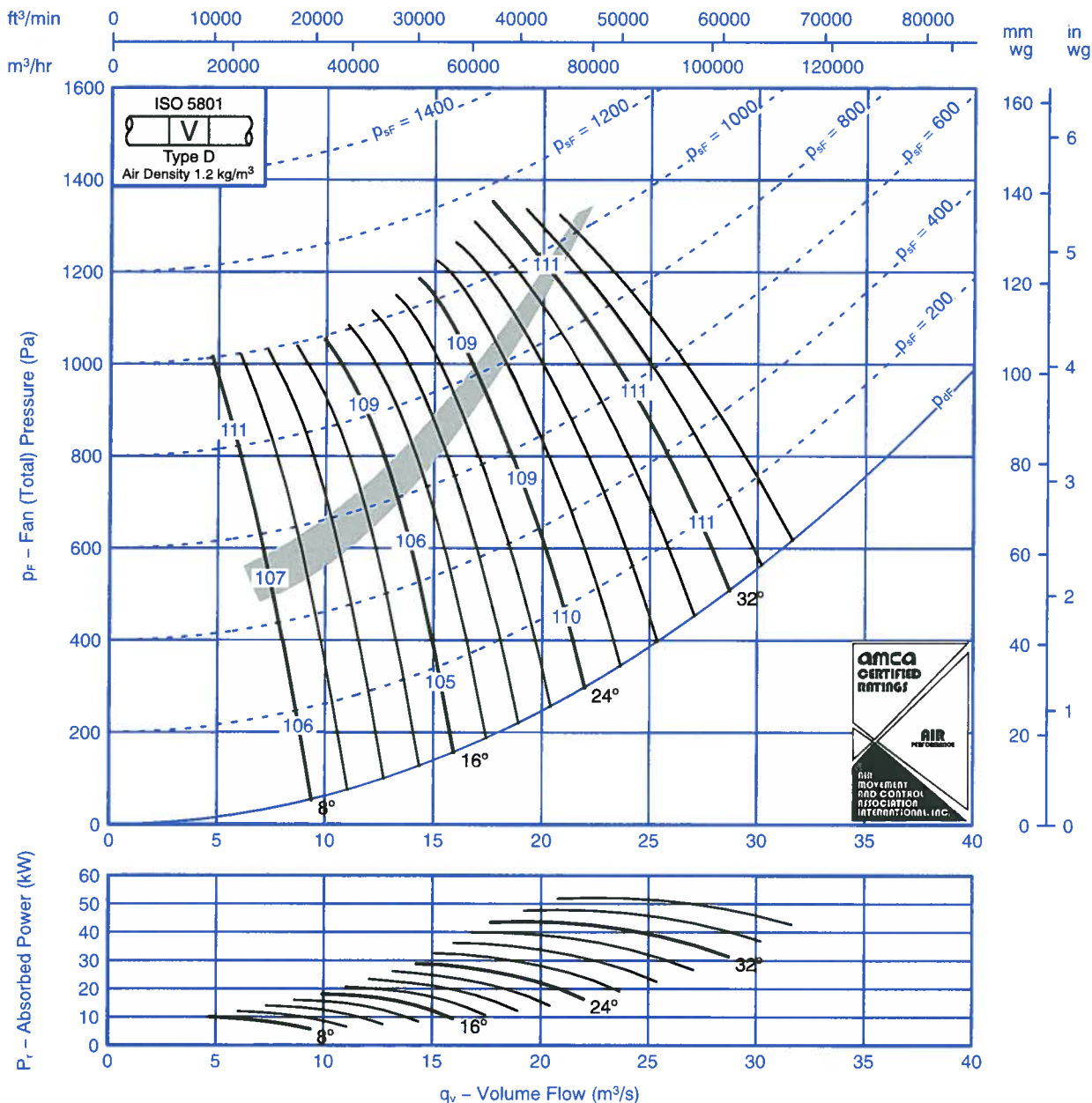
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-14	-7	-4	-6	-12	-19	-26	8	-12	-11	-6	-4	-6	-12	-18	-25
	-13	-17	-8	-8	-4	-8	-13	-20		-9	-14	-6	-7	-5	-8	-12	-18
16	-15	-14	-7	-4	-6	-10	-16	-24	16	-11	-11	-6	-5	-7	-11	-16	-24
	-12	-12	-6	-7	-7	-9	-11	-18		-7	-9	-4	-7	-8	-9	-10	-17
24-36	-7	-9	-8	-6	-10	-13	-15	-19	24-36	-4	-6	-6	-5	-10	-13	-14	-18
	-7	-8	-6	-6	-11	-14	-15	-19		-4	-5	-4	-5	-10	-13	-14	-18



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

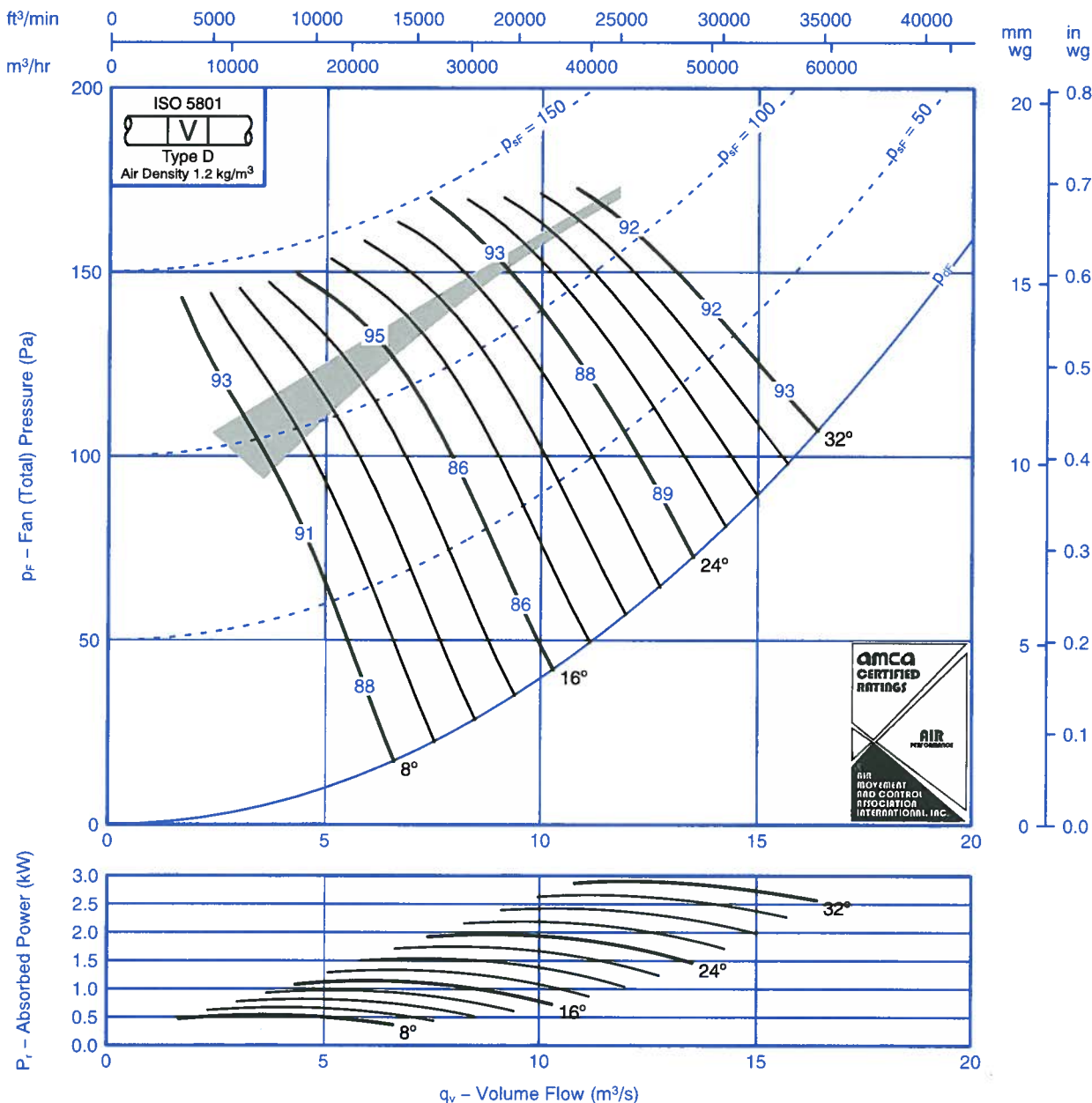
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-18	-5	-8	-5	-9	-16	-21	8	-13	-17	-3	-8	-4	-7	-13	-19
	-16	-17	-5	-8	-5	-10	-15	-19		-13	-16	-3	-8	-5	-7	-12	-17
16	-11	-15	-5	-8	-6	-10	-16	-22	16	-8	-13	-3	-7	-6	-8	-13	-19
	-11	-14	-3	-10	-8	-11	-14	-19		-8	-12	-1	-9	-8	-9	-12	-17
24 - 36	-6	-10	-5	-9	-9	-12	-15	-19	24 - 36	-4	-8	-4	-8	-9	-10	-12	-16
	-7	-10	-4	-10	-10	-12	-15	-19		-5	-8	-3	-9	-10	-10	-12	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

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Sound Data BS848 Part 2 1985:

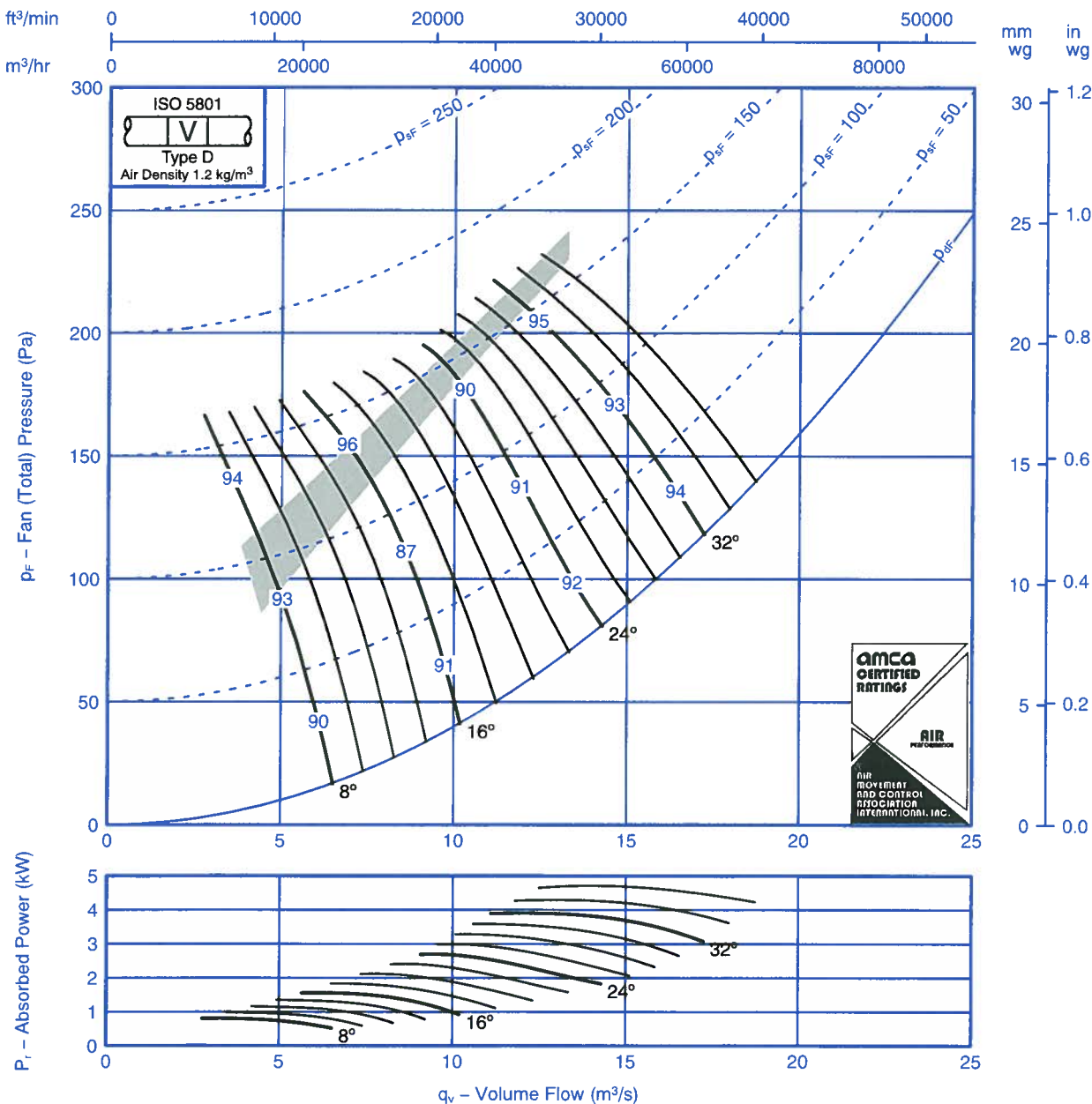
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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-4	-4	-9	-17	-23	-27	-32	8	-8	-4	-4	-9	-17	-22	-28	-31
	-14	-10	-4	-5	-11	-16	-21	-31		-11	-9	-4	-5	-11	-16	-21	-30
16	-11	-8	-4	-6	-11	-17	-23	-28	16	-8	-7	-4	-6	-11	-17	-24	-27
	-6	-5	-8	-8	-11	-14	-19	-26		-4	-4	-9	-8	-11	-14	-19	-25
24 – 32	-8	-6	-6	-6	-13	-17	-20	-22	24 – 32	-6	-5	-6	-6	-13	-16	-20	-21
	-6	-4	-9	-9	-13	-15	-18	-22		-3	-3	-9	-9	-13	-15	-18	-21



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

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Sound Data BS848 Part 2 1985:

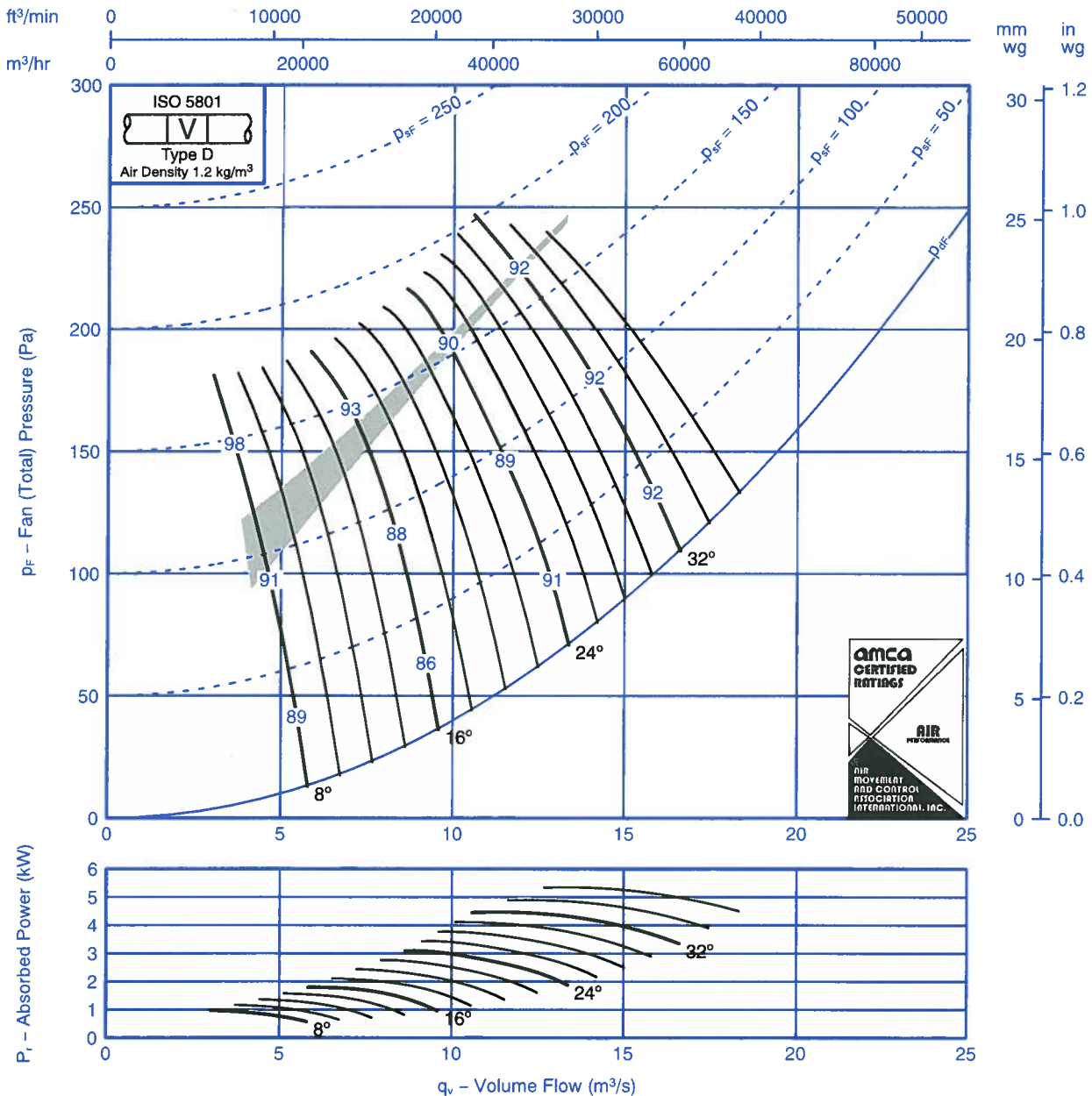
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Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-6	-3	-7	-15	-23	-29	-36	8	-11	-4	-3	-6	-15	-23	-28	-34
	-14	-10	-5	-4	-11	-16	-21	-32		-11	-8	-5	-3	-11	-16	-20	-30
16	-15	-7	-4	-6	-14	-22	-29	-34	16	-12	-4	-3	-6	-15	-22	-28	-34
	-8	-9	-6	-5	-9	-14	-19	-27		-5	-7	-5	-5	-10	-14	-18	-26
24 – 36	-7	-7	-6	-7	-12	-15	-22	-25	24 – 36	-4	-4	-5	-6	-12	-14	-21	-24
	-6	-7	-7	-7	-12	-13	-18	-24		-2	-4	-6	-6	-11	-12	-18	-23



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Sound Data BS848 Part 2 1985:

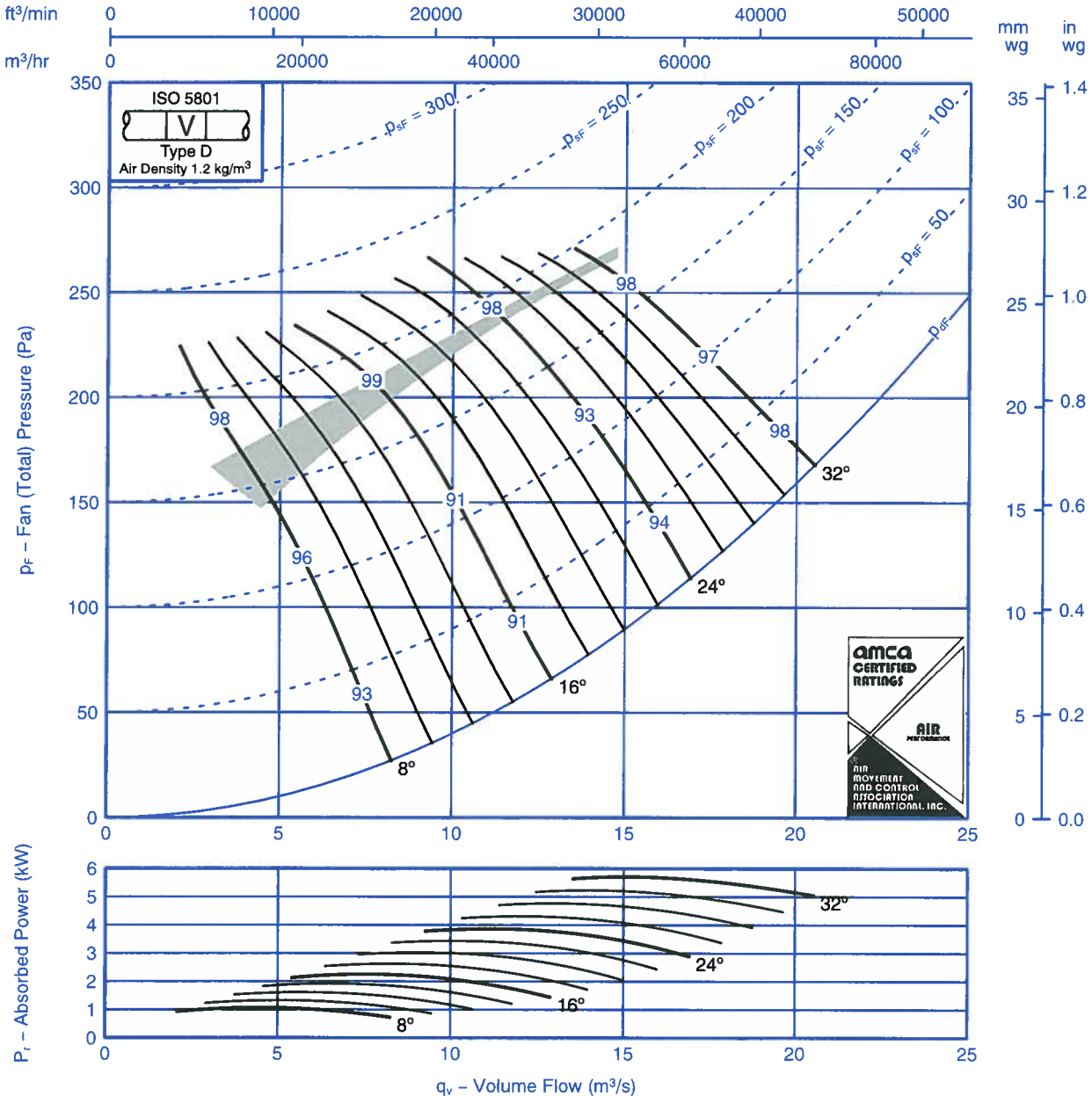
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-6	-5	-6	-11	-19	-25	-35	8	-13	-3	-5	-7	-11	-16	-23	-32
	-14	-4	-7	-6	-11	-17	-22	-31		-11	-1	-6	-8	-11	-14	-19	-29
16	-14	-5	-6	-5	-11	-19	-25	-33	16	-11	-3	-5	-5	-11	-17	-22	-30
	-13	-3	-9	-8	-12	-16	-21	-29		-10	1	-9	-8	-12	-15	-18	-27
24 – 36	-9	-4	-7	-7	-12	-15	-19	-23	24 – 36	-7	-2	-7	-7	-12	-13	-16	-21
	-9	-4	-8	-8	-12	-15	-19	-24		-6	-1	-8	-8	-12	-13	-17	-22



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Sound Data BS848 Part 2 1985:

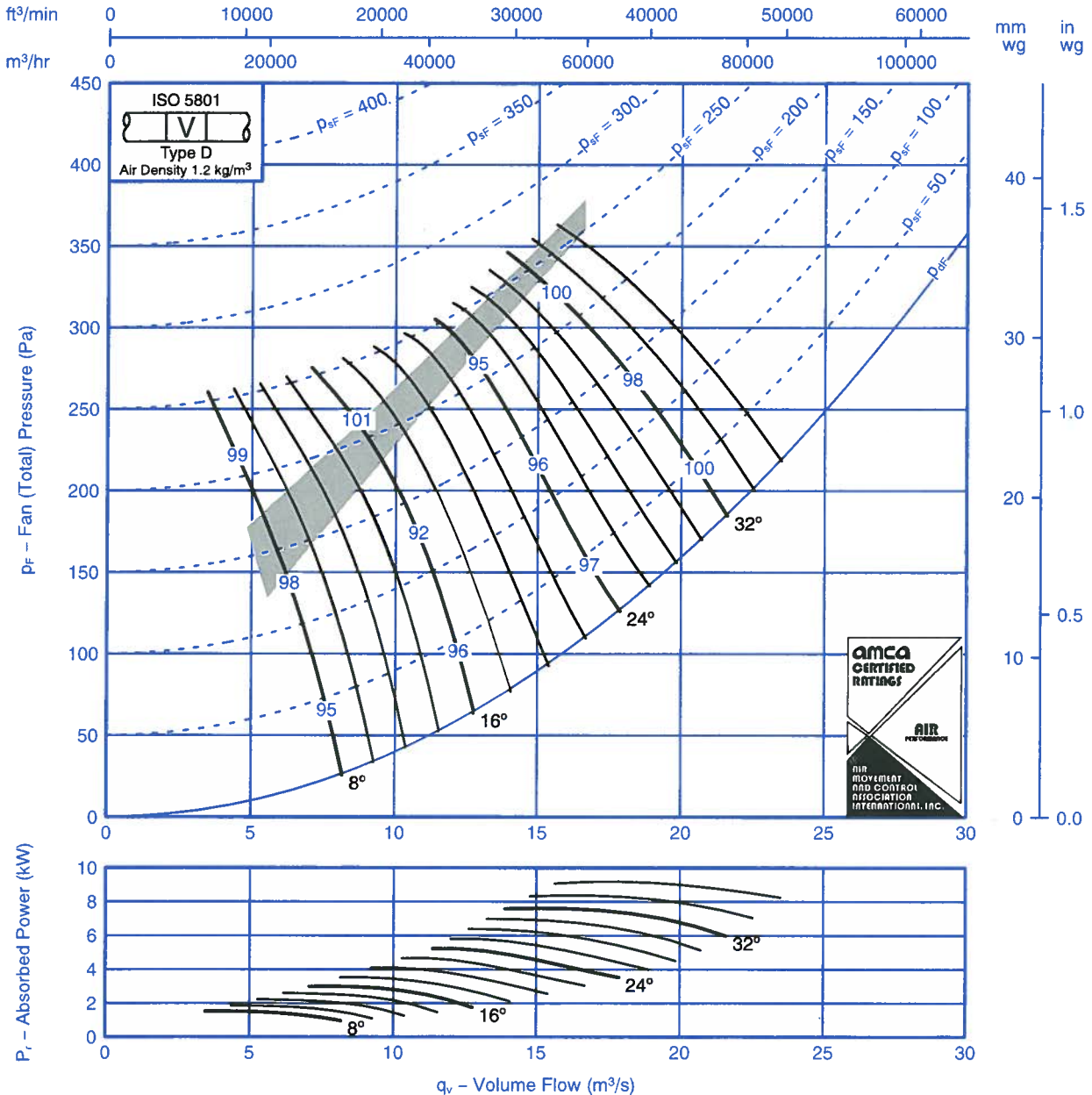
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-6	-3	-7	-15	-21	-26	-31	8	-12	-5	-4	-7	-14	-21	-26	-30
	-14	-11	-5	-4	-9	-15	-19	-28		-12	-10	-5	-4	-8	-15	-19	-27
16	-11	-9	-6	-4	-9	-15	-22	-26	16	-9	-8	-5	-4	-9	-15	-22	-25
	-7	-5	-8	-8	-10	-13	-16	-24		-5	-3	-8	-8	-10	-13	-17	-23
24 – 32	-9	-7	-7	-5	-12	-16	-19	-21	24 – 32	-6	-5	-7	-5	-12	-15	-19	-20
	-6	-4	-8	-9	-12	-15	-17	-21		-4	-3	-9	-9	-12	-14	-17	-20



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Sound Data BS848 Part 2 1985:

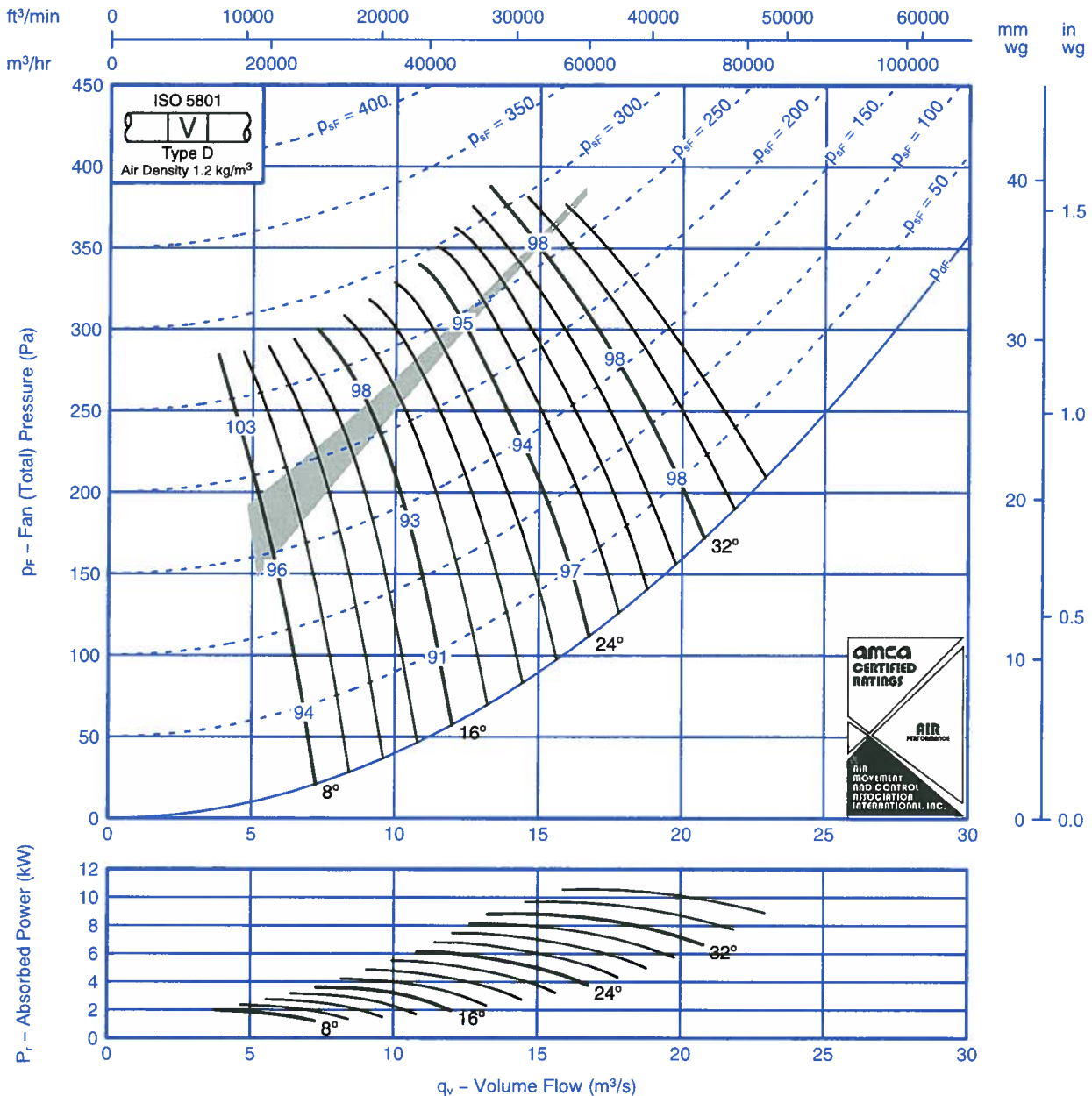
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-18	-8	-5	-4	-12	-20	-27	-34	8	-16	-6	-5	-3	-13	-20	-26	-32
	-23	-10	-9	-2	-9	-15	-19	-29		-19	-7	-9	-2	-9	-15	-18	-28
16	-19	-8	-5	-4	-11	-19	-27	-32	16	-14	-5	-4	-5	-13	-20	-26	-32
	-15	-7	-8	-4	-8	-12	-17	-25		-11	-3	-7	-4	-9	-13	-16	-23
24 – 36	-9	-6	-6	-7	-12	-14	-20	-24	24 – 36	-6	-3	-5	-5	-11	-13	-19	-23
	-8	-5	-7	-7	-11	-13	-16	-23		-5	-2	-6	-6	-10	-12	-15	-22



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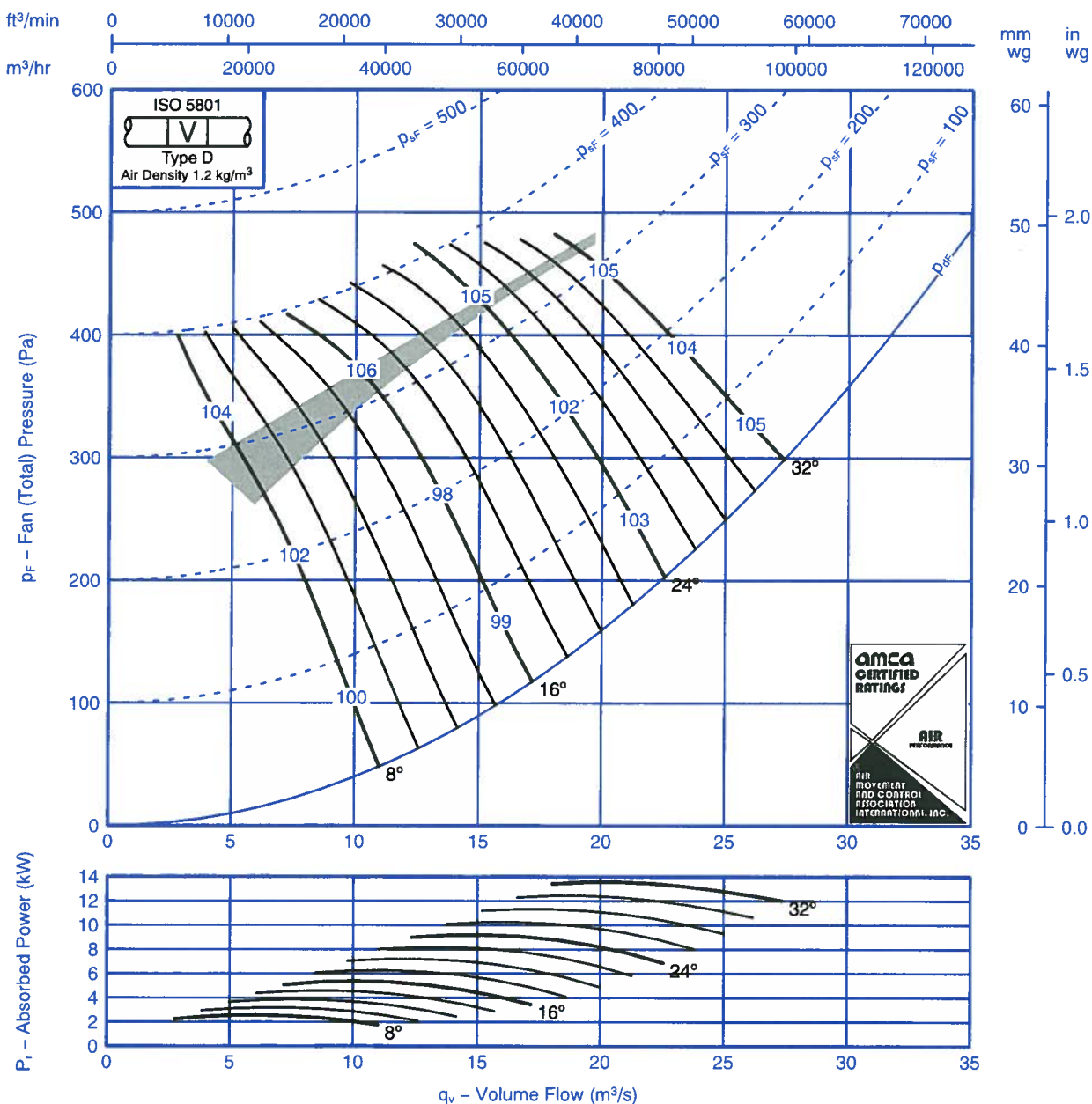
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-19	-6	-8	-4	-9	-17	-23	-32	8	-16	-4	-7	-5	-8	-14	-20	-30
	-17	-4	-8	-5	-10	-15	-20	-29		-14	-2	-7	-7	-10	-13	-17	-27
16	-16	-7	-6	-5	-8	-16	-23	-30	16	-14	-4	-6	-5	-8	-15	-20	-28
	-14	-3	-10	-8	-11	-15	-20	-27		-11	1	-9	-8	-11	-13	-17	-25
24 - 36	-9	-5	-7	-7	-11	-14	-18	-22	24 - 36	-7	-3	-7	-7	-11	-12	-15	-20
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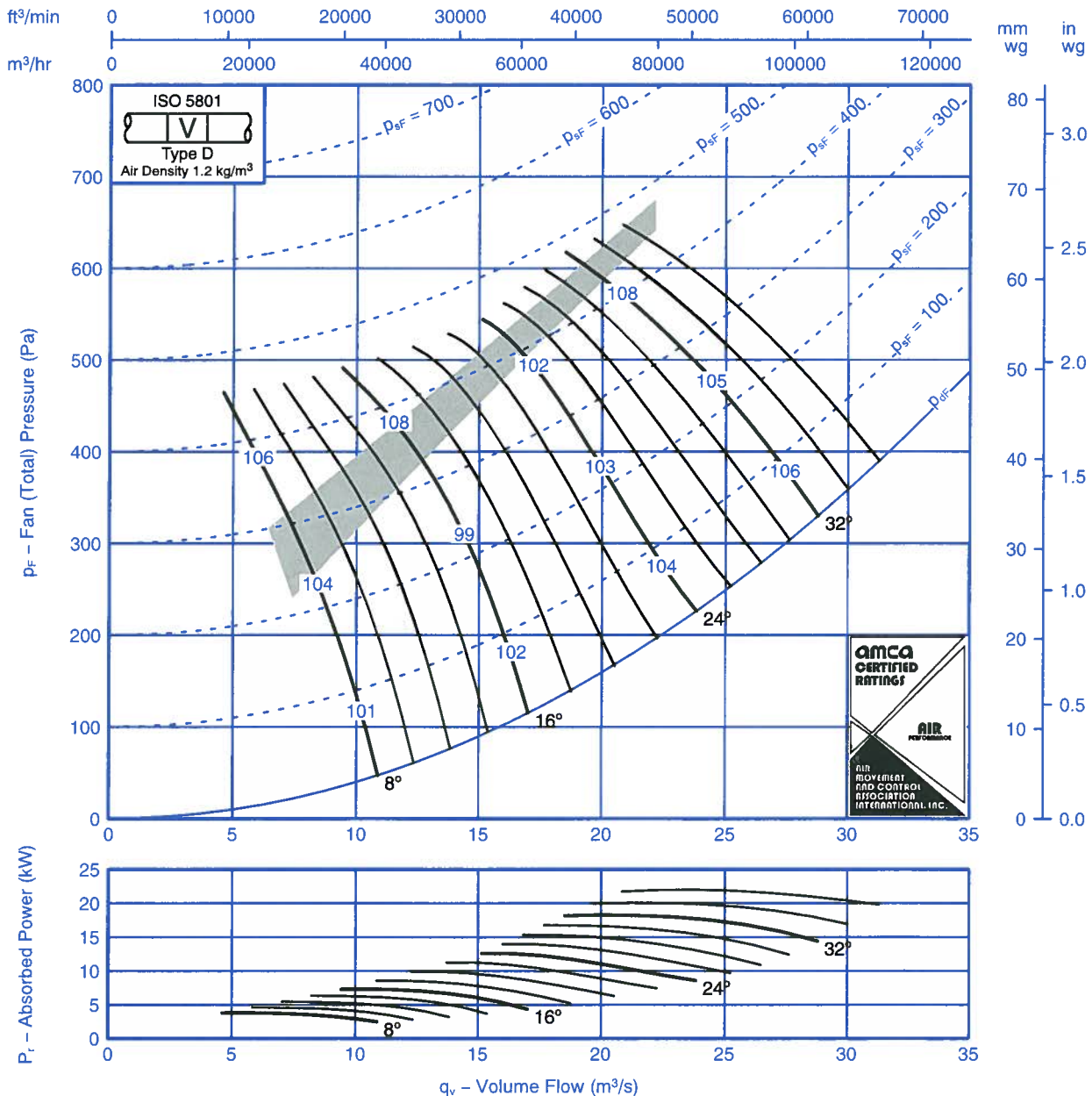
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-8	-5	-6	-12	-20	-24	-29	8	-11	-6	-4	-5	-11	-19	-24	-28
	-12	-13	-10	-3	-7	-14	-18	-25		-10	-10	-10	-3	-6	-13	-18	-24
16	-9	-10	-8	-5	-8	-14	-20	-26	16	-7	-8	-8	-4	-7	-13	-20	-24
	-5	-6	-8	-10	-11	-14	-16	-23		-3	-5	-8	-10	-10	-13	-17	-22
24 - 32	-7	-8	-8	-5	-10	-15	-18	-22	24 - 32	-5	-6	-9	-5	-10	-15	-18	-21
	-5	-6	-8	-10	-12	-16	-18	-21		-3	-4	-9	-10	-12	-15	-18	-20



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Sound Data BS848 Part 2 1985:

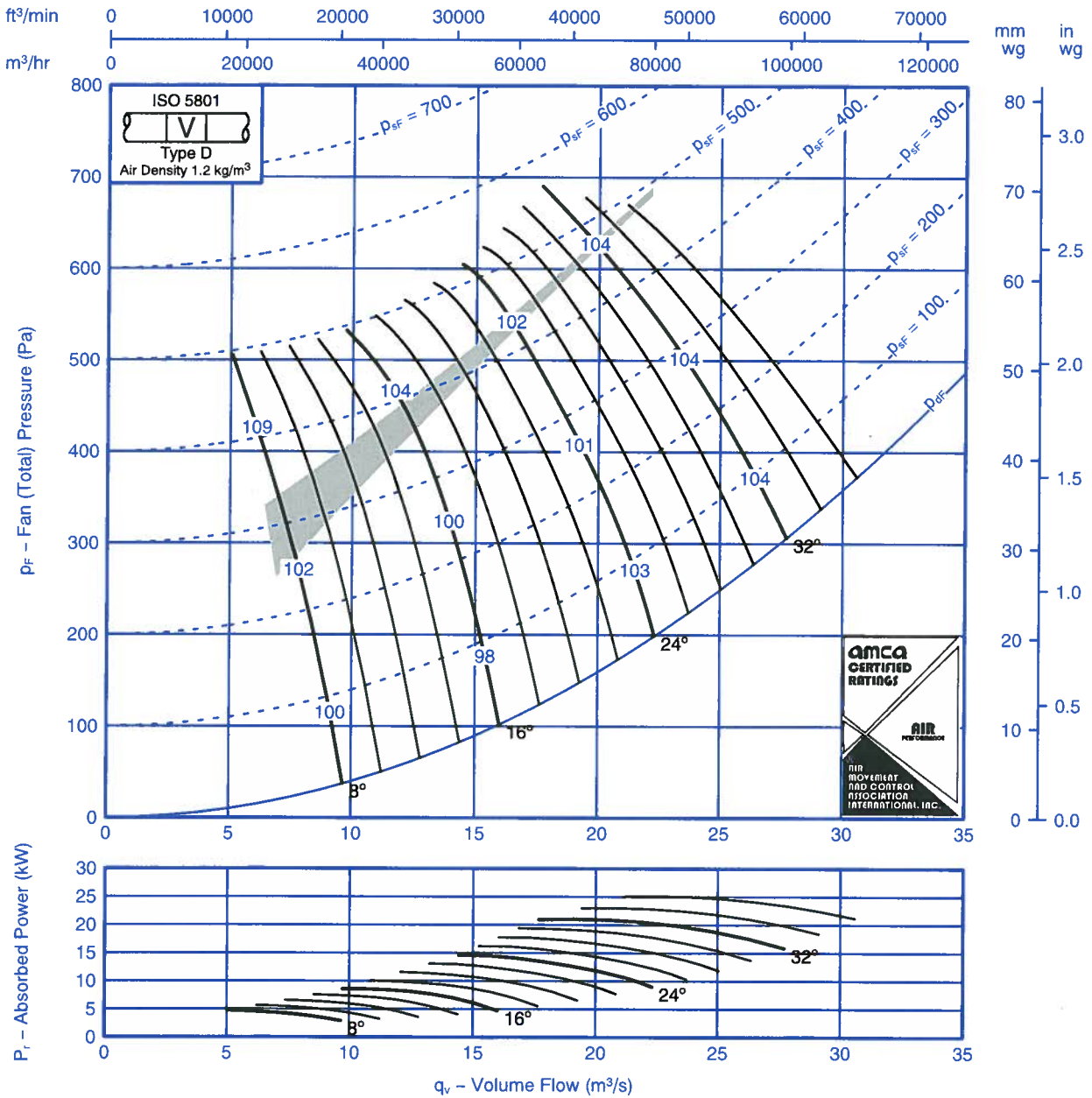
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-22	-13	-6	-3	-9	-17	-25	-31	8	-20	-9	-5	-2	-9	-17	-23	-30
	-20	-13	-10	-3	-6	-13	-17	-25		-15	-10	-10	-3	-6	-12	-16	-23
16	-20	-15	-6	-4	-8	-16	-24	-30	16	-16	-12	-4	-4	-9	-17	-23	-29
	-17	-7	-8	-6	-7	-11	-15	-22		-12	-5	-7	-5	-8	-11	-14	-21
24 - 36	-8	-7	-6	-7	-9	-13	-17	-24	24 - 36	-5	-4	-5	-6	-8	-13	-17	-23
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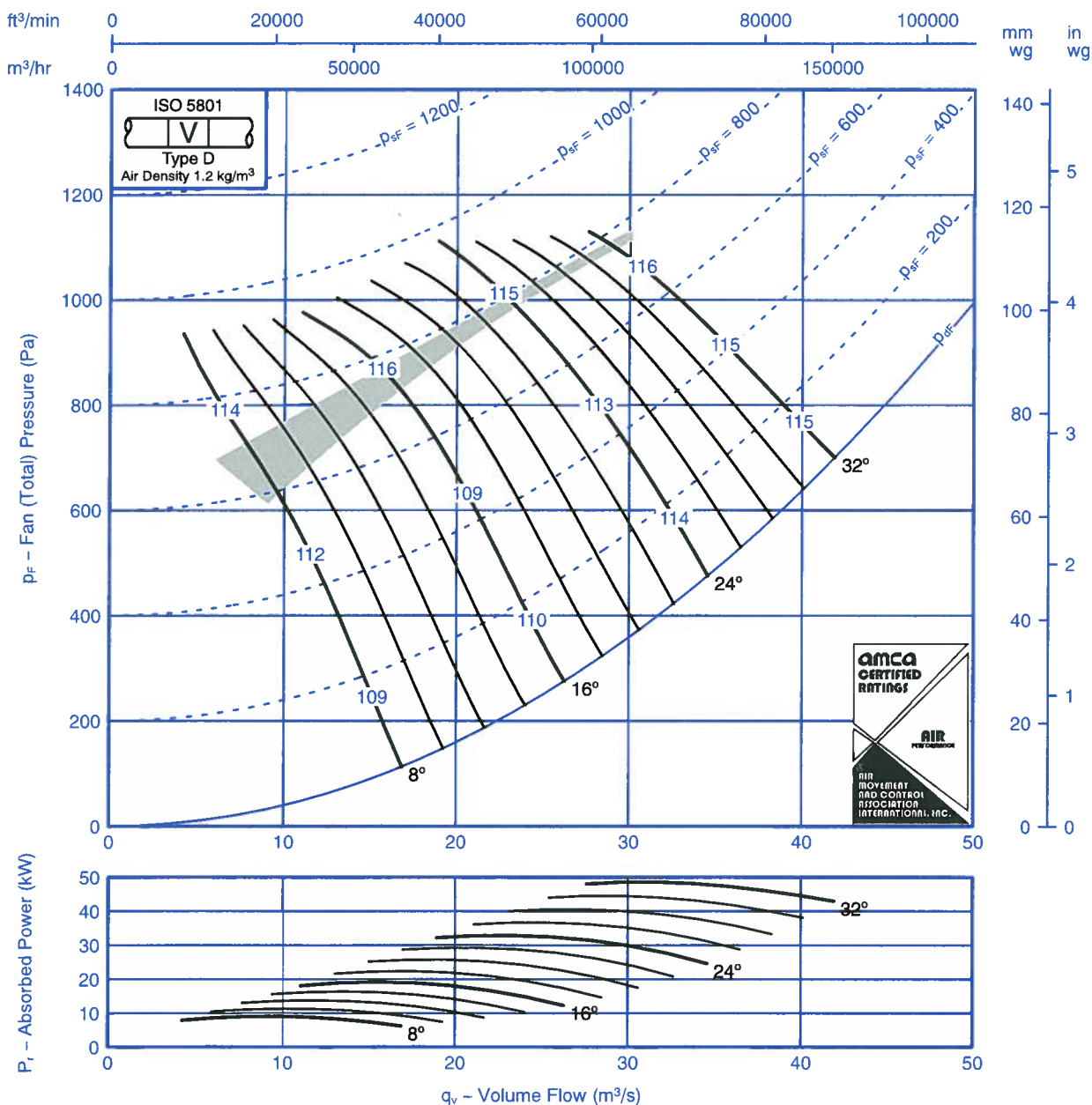
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-11	-7	-4	-7	-14	-20	-28	8	-15	-9	-5	-6	-7	-12	-17	-26
	-17	-9	-5	-6	-8	-14	-18	-24		-13	-8	-3	-7	-7	-11	-15	-22
16	-14	-10	-6	-5	-6	-14	-21	-28	16	-11	-9	-4	-5	-6	-12	-17	-25
	-12	-8	-4	-8	-9	-13	-18	-24		-9	-6	-1	-8	-9	-11	-14	-22
24 – 36	-7	-9	-6	-7	-9	-14	-16	-21	24 – 36	-5	-7	-4	-7	-10	-12	-13	-19
	-7	-8	-5	-8	-10	-13	-16	-22		-5	-6	-3	-8	-10	-11	-13	-19



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Sound Data BS848 Part 2 1985:

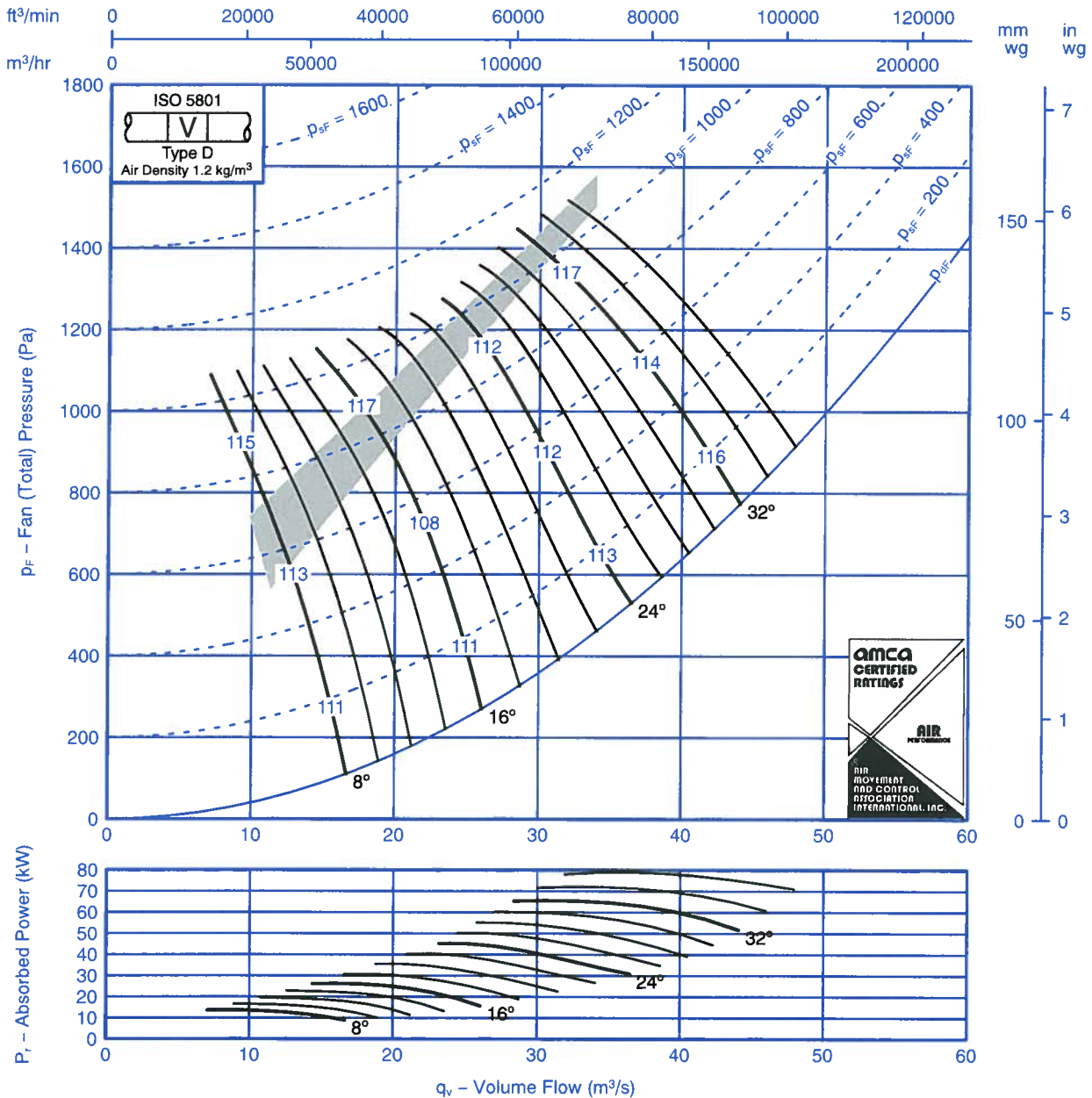
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-11	-15	-6	-4	-7	-15	-21	-26	8	-10	-13	-5	-4	-7	-14	-22	-25
	-9	-15	-11	-5	-5	-9	-16	-19		-8	-13	-11	-5	-5	-9	-16	-18
16	-6	-12	-10	-7	-5	-10	-16	-22	16	-4	-11	-9	-7	-5	-10	-17	-21
	-3	-10	-8	-11	-11	-13	-16	-19		-1	-8	-7	-11	-11	-13	-17	-18
24 - 32	-5	-10	-8	-9	-6	-13	-17	-20	24 - 32	-3	-9	-7	-9	-6	-13	-17	-19
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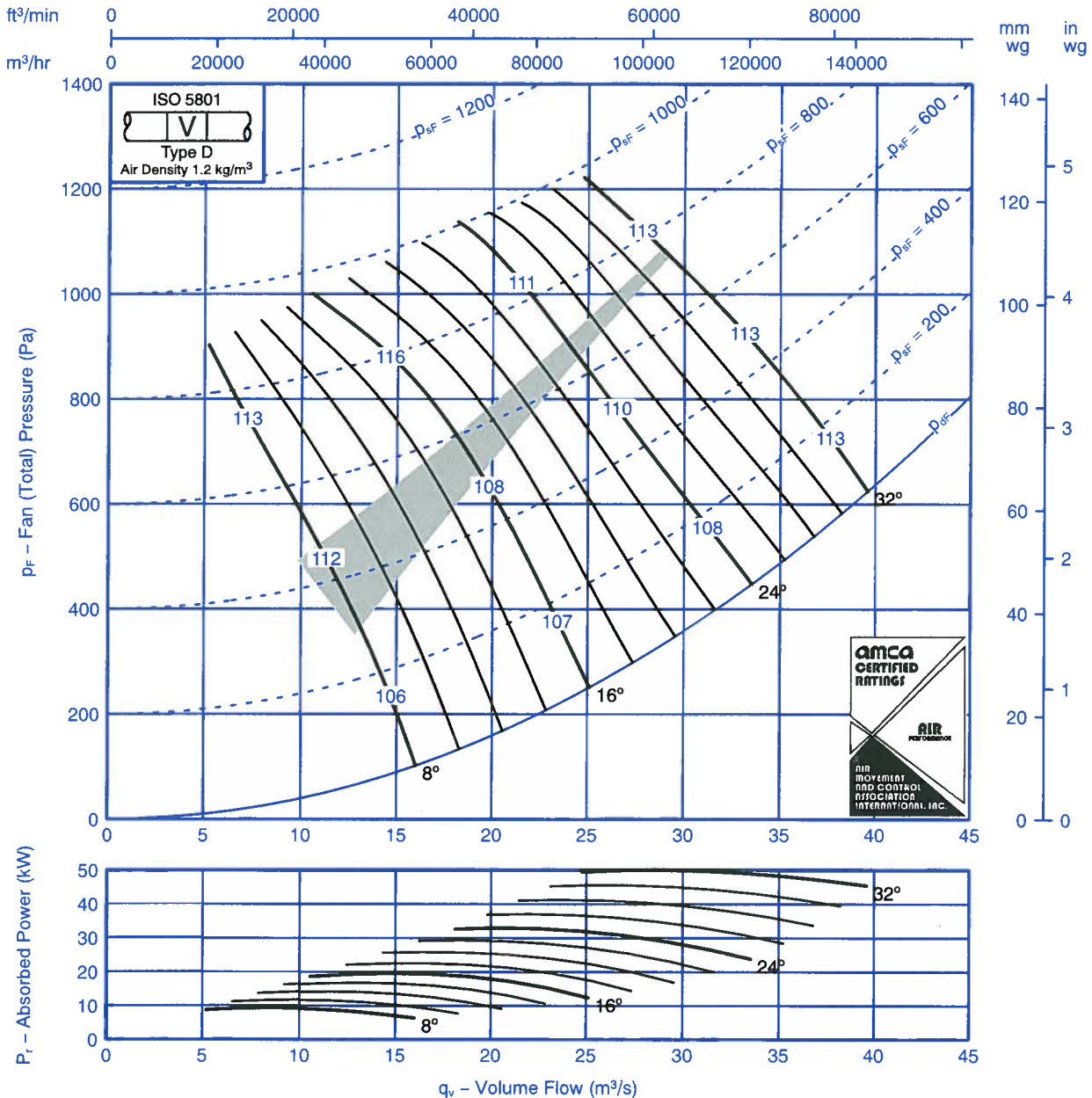
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	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-22	-18	-8	-5	-4	-12	-20	-27	8	-20	-16	-7	-4	-4	-12	-19	-25
	-17	-23	-10	-9	-2	-9	-15	-19		-14	-20	-9	-9	-3	-9	-14	-17
16	-24	-19	-8	-5	-4	-11	-19	-27	16	-20	-16	-6	-6	-6	-12	-18	-26
	-18	-16	-7	-8	-5	-8	-12	-16		-14	-13	-5	-8	-6	-9	-11	-15
24 - 36	-9	-9	-7	-7	-7	-12	-14	-20	24 - 36	-6	-6	-5	-6	-7	-12	-14	-19
	-8	-9	-6	-8	-8	-12	-13	-16		-5	-6	-4	-6	-7	-11	-12	-15



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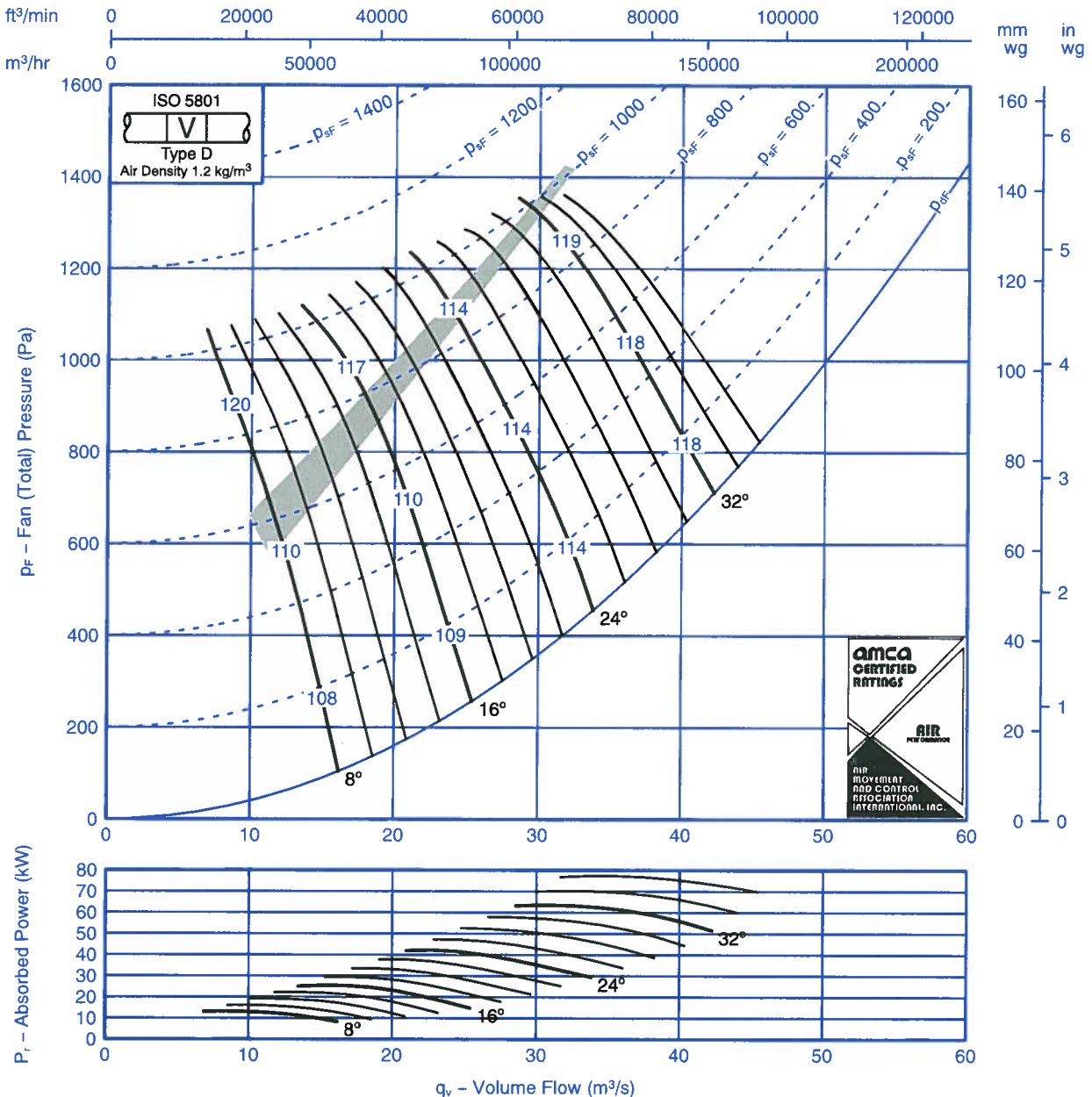
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Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-18	-11	-10	-11	-2	-10	-19	-24	8	-16	-9	-9	-11	-1	-10	-18	-23
	-14	-8	-8	-8	-5	-9	-13	-15		-12	-6	-8	-8	-4	-9	-12	-13
16	-17	-10	-8	-6	-4	-12	-17	-23	16	-15	-8	-8	-6	-5	-12	-17	-23
	-10	-5	-5	-10	-11	-12	-16	-19		-8	-4	-5	-9	-12	-12	-16	-19
24 - 32	-7	-6	-7	-9	-9	-13	-15	-17	24 - 32	-4	-5	-7	-8	-10	-12	-13	-17
	-6	-7	-7	-9	-10	-13	-15	-17		-3	-5	-7	-9	-11	-12	-14	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-14	-10	-6	-3	-10	-16	-23	8	-18	-13	-9	-6	-3	-8	-15	-22
	-15	-10	-6	-10	-6	-9	-12	-15		-12	-9	-4	-9	-5	-8	-12	-14
16	-17	-12	-6	-4	-6	-12	-18	-25	16	-14	-11	-4	-4	-6	-12	-17	-24
	-13	-9	-3	-10	-9	-12	-14	-17		-10	-8	-1	-9	-9	-11	-13	-16
24-36	-8	-9	-6	-9	-9	-13	-17	-20	24-36	-4	-7	-4	-8	-9	-12	-16	-19
	-10	-8	-3	-10	-11	-13	-17	-20		-6	-7	-1	-8	-10	-12	-15	-19



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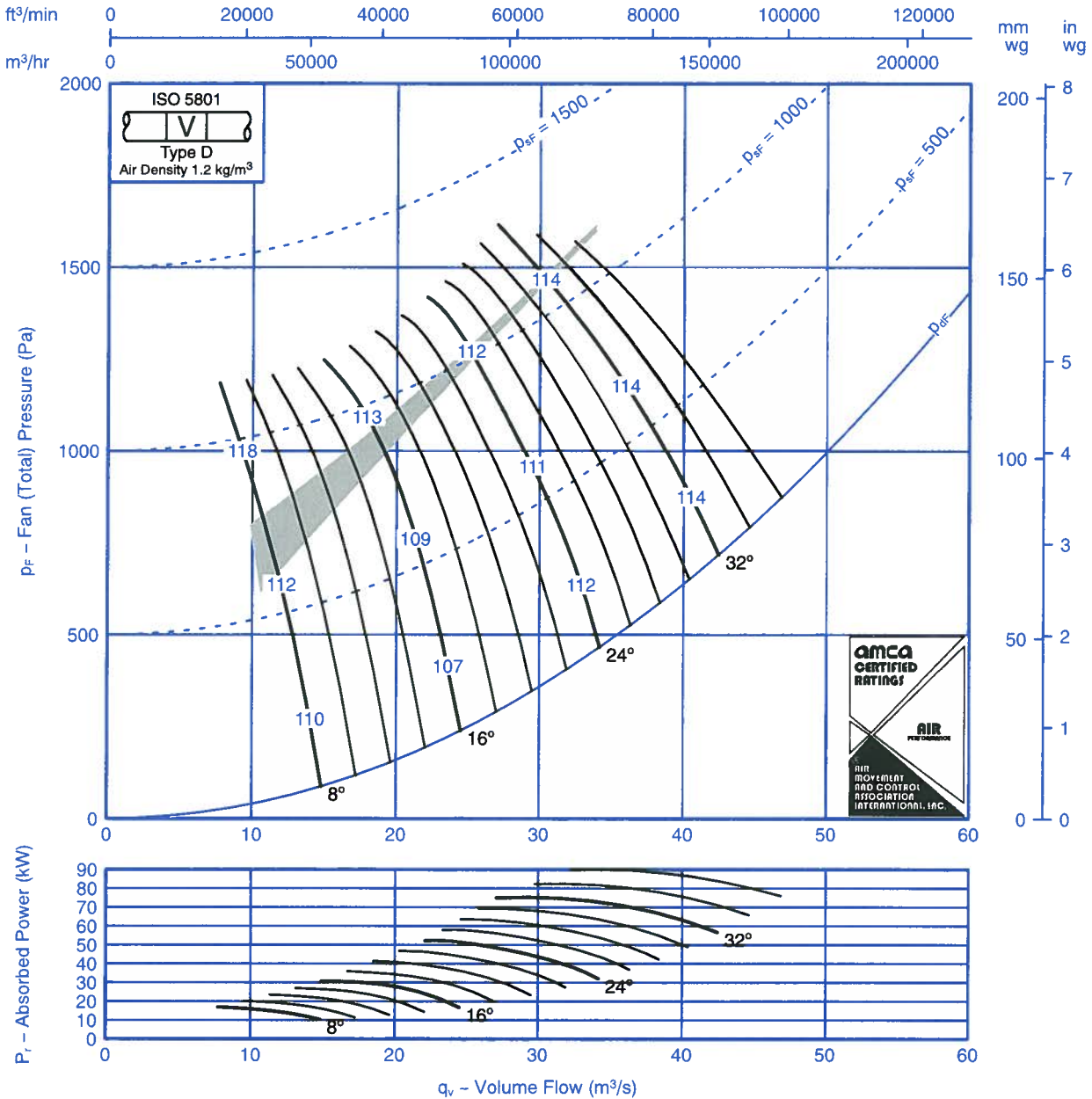
Fan Code: 125JM/50/4/12/...

1250 mm 1470 rev/min 12 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type D – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

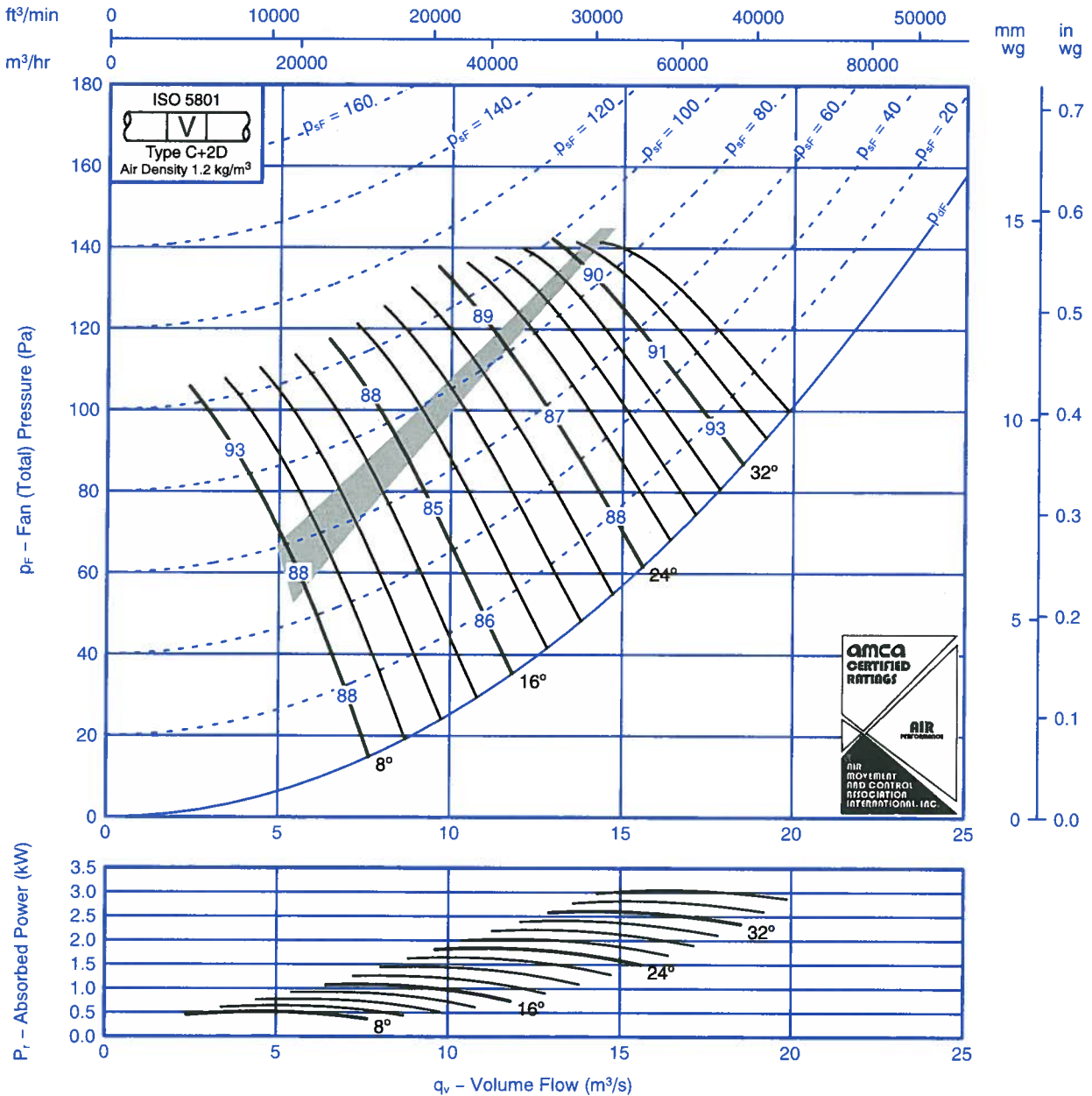
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-18	-19	-7	-8	-4	-8	-16	-23	8	-15	-18	-5	-8	-4	-6	-13	-20
	-16	-17	-4	-8	-5	-10	-15	-19		-13	-16	-3	-8	-5	-8	-12	-17
16	-12	-16	-7	-6	-5	-8	-16	-23	16	-9	-15	-5	-6	-5	-7	-13	-21
	-10	-14	-3	-10	-8	-11	-15	-20		-8	-12	-1	-9	-8	-9	-12	-17
24 - 36	-6	-10	-7	-8	-8	-12	-15	-19	24 - 36	-4	-8	-5	-8	-9	-10	-12	-16
	-7	-10	-5	-9	-9	-11	-15	-18		-5	-8	-3	-9	-10	-9	-12	-16

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-11	-3	-6	-11	-13	-26	-32	8	-11	-9	-3	-5	-10	-11	-25	-30
	-10	-12	-8	-5	-7	-8	-23	-30		-8	-10	-7	-5	-7	-7	-22	-29
16	-10	-10	-3	-7	-13	-17	-22	-26	16	-9	-9	-2	-7	-12	-17	-20	-25
	-5	-8	-8	-11	-9	-8	-20	-24		-3	-6	-8	-11	-8	-8	-19	-23
24 – 36	-5	-8	-7	-8	-13	-15	-17	-19	24 – 36	-3	-7	-6	-7	-12	-14	-15	-17
	-5	-7	-7	-10	-13	-14	-16	-18		-3	-6	-5	-8	-13	-13	-14	-16



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EN 29001
ISO 9001

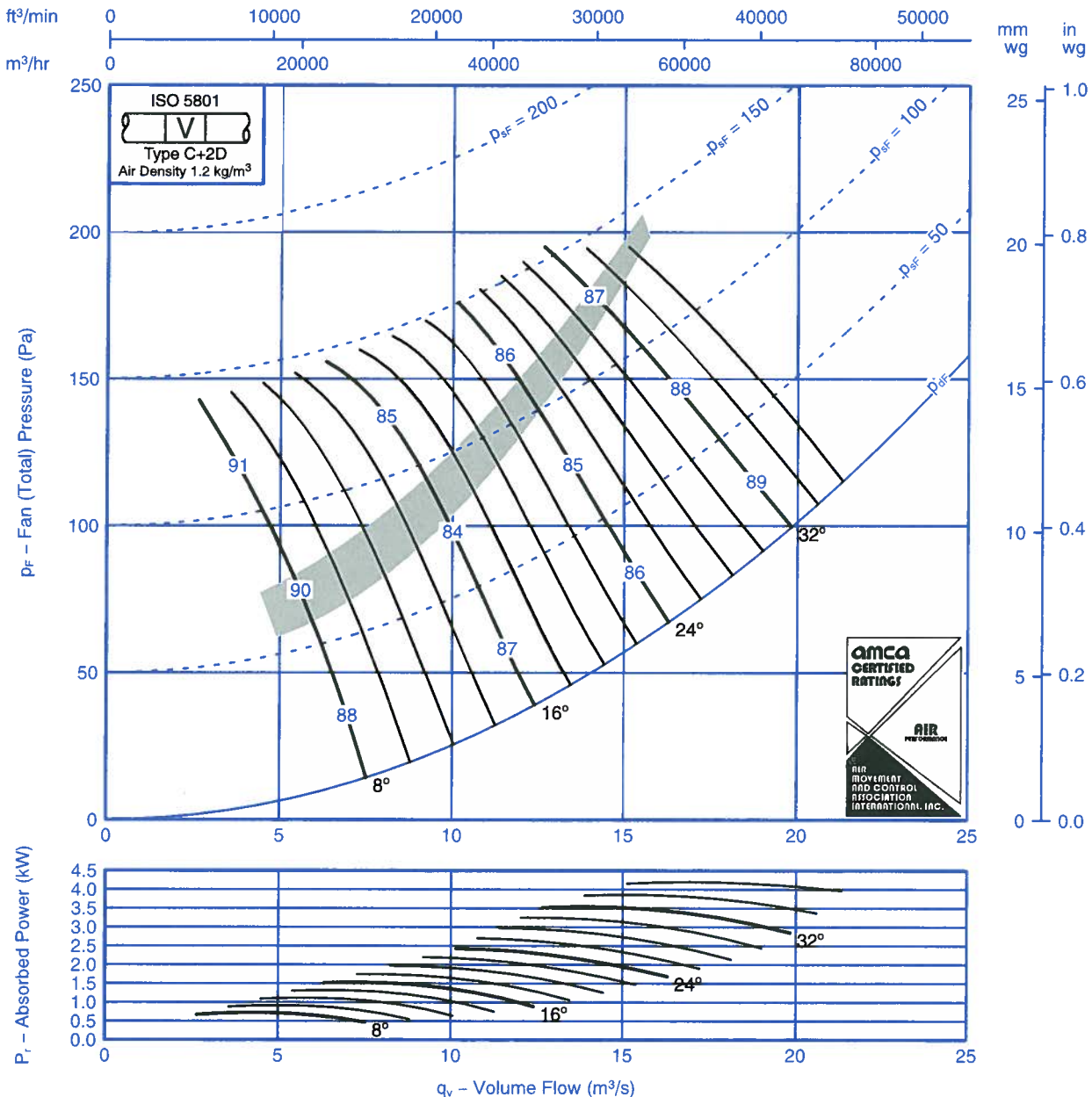
Fan Code: 140JM/40/12/9/...

1400 mm 480 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

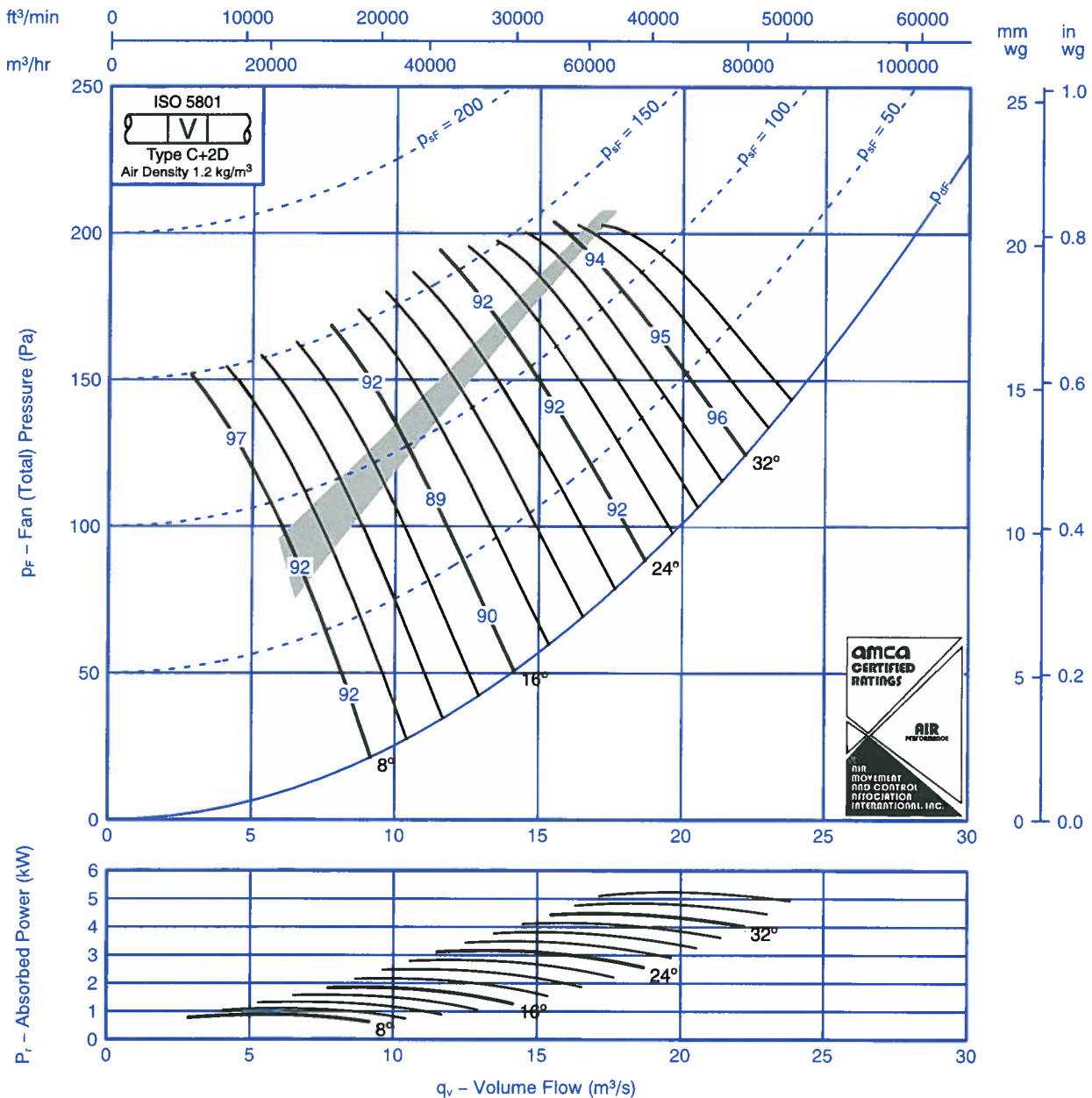
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-11	-4	-5	-10	-14	-25	-31	8	-11	-9	-3	-3	-9	-12	-25	-30
	-13	-13	-8	-6	-5	-7	-22	-28		-10	-11	-8	-5	-4	-5	-21	-27
16	-8	-10	-6	-7	-9	-10	-17	-20	16	-5	-8	-5	-7	-7	-10	-15	-19
	-9	-11	-9	-8	-5	-7	-19	-24		-5	-9	-8	-8	-4	-6	-19	-22
24 – 36	-5	-9	-7	-8	-11	-14	-14	-15	24 – 36	-1	-6	-5	-7	-11	-13	-13	-14
	-5	-8	-7	-8	-10	-14	-17	-19		-1	-5	-4	-7	-9	-13	-15	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-12	-5	-4	-9	-11	-22	-29	8	-14	-10	-4	-4	-9	-10	-22	-28
	-15	-10	-9	-5	-7	-7	-19	-28		-12	-8	-8	-4	-6	-5	-18	-27
16	-13	-10	-4	-4	-11	-16	-21	-24	16	-11	-9	-4	-4	-11	-16	-19	-23
	-8	-6	-8	-10	-9	-8	-17	-23		-5	-4	-7	-10	-9	-7	-16	-22
24 – 36	-8	-5	-7	-8	-12	-15	-16	-18	24 – 36	-6	-4	-6	-6	-11	-13	-15	-16
	-7	-5	-7	-8	-12	-14	-16	-17		-4	-4	-5	-7	-12	-13	-14	-16



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EN 29001
ISO 9001

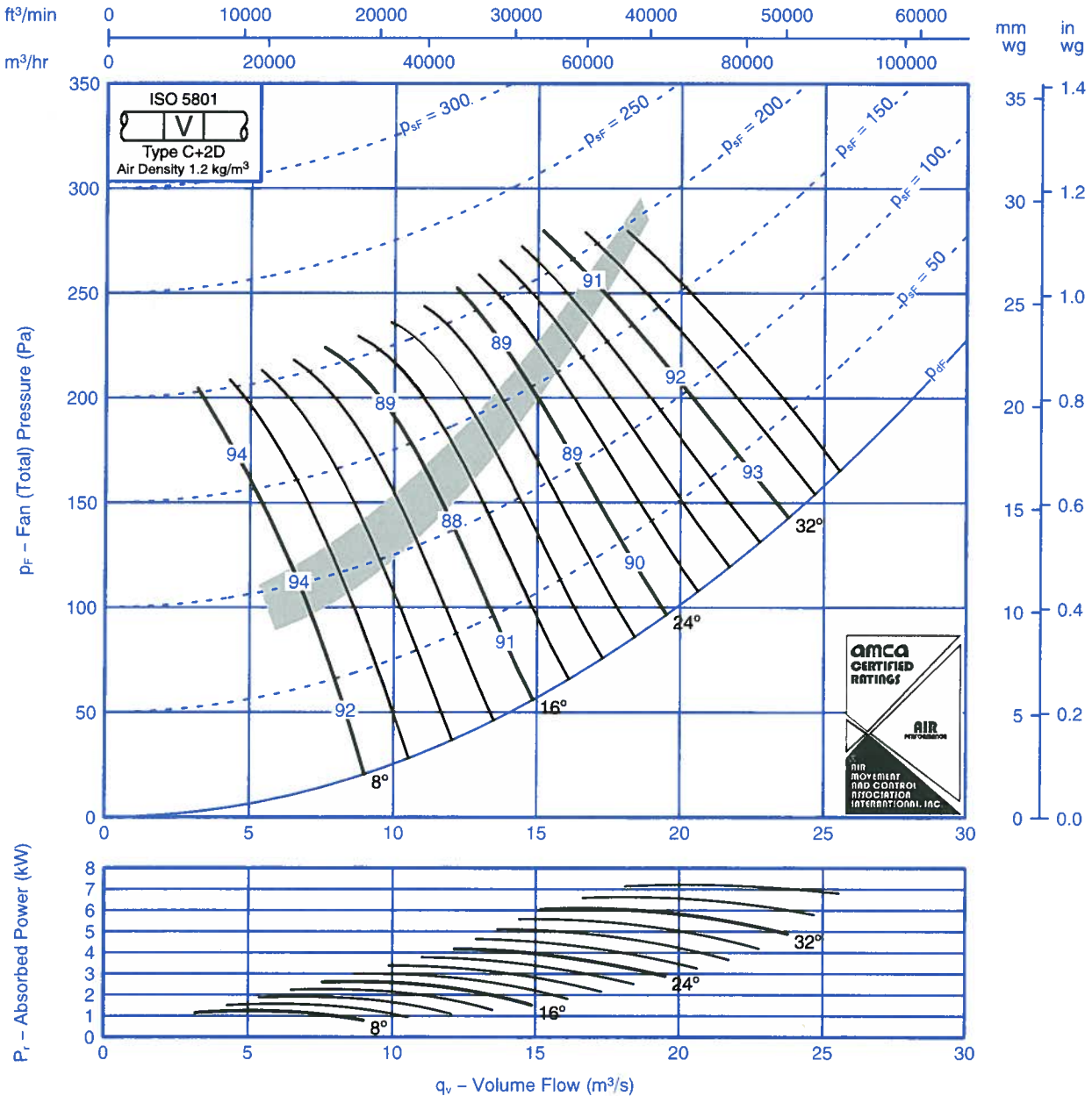
Fan Code: 140JM/40/10/9/...

1400 mm 575 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

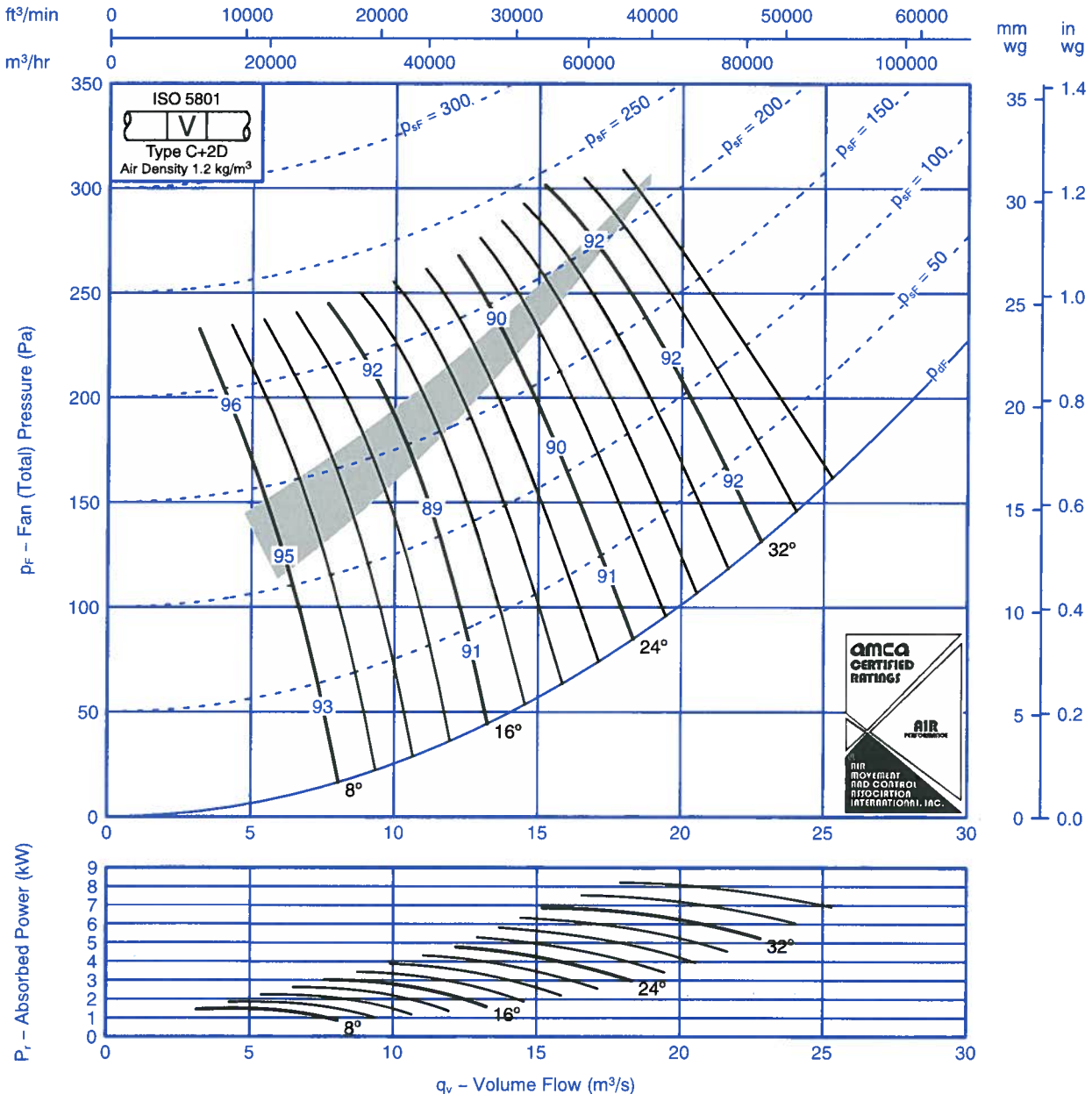
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-12	-6	-4	-9	-12	-23	-28	8	-12	-10	-5	-2	-8	-11	-24	-28
	-14	-15	-9	-6	-6	-5	-18	-26		-11	-12	-9	-5	-5	-3	-18	-25
16	-8	-12	-6	-6	-9	-9	-16	-19	16	-5	-10	-6	-6	-7	-8	-14	-18
	-9	-13	-9	-8	-7	-5	-17	-22		-6	-10	-7	-8	-5	-5	-17	-20
24 – 36	-6	-10	-7	-7	-10	-14	-14	-14	24 – 36	-1	-7	-5	-7	-9	-13	-13	-13
	-6	-9	-6	-8	-10	-13	-16	-17		-1	-6	-4	-7	-8	-12	-14	-16



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

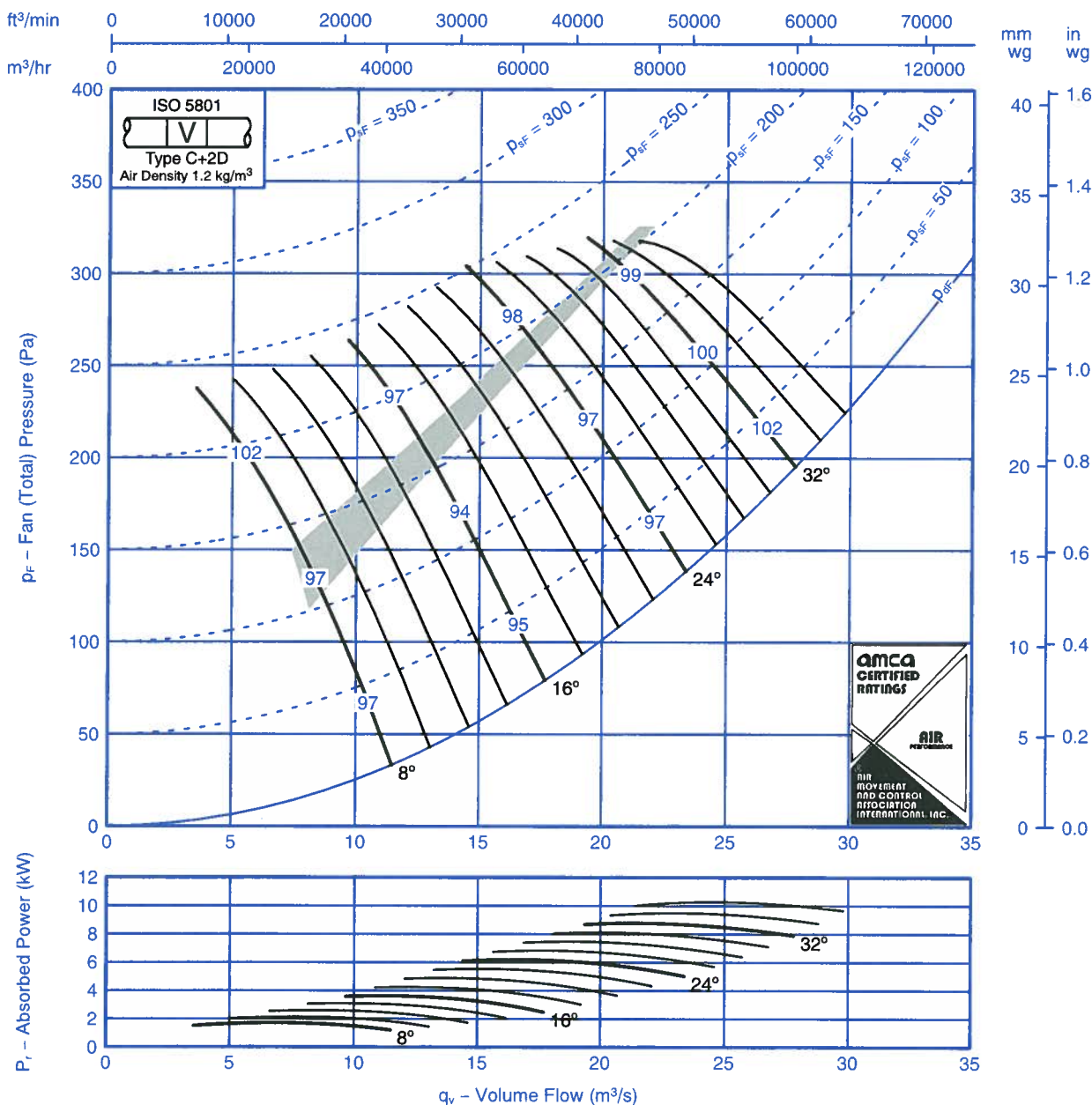
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-13	-8	-5	-5	-11	-16	-27	-32	8	-11	-5	-5	-4	-10	-14	-25	-30
	-15	-12	-8	-4	-7	-8	-20	-26		-13	-10	-8	-4	-6	-6	-18	-24
16	-16	-10	-3	-5	-12	-19	-26	-29	16	-12	-7	-2	-5	-11	-19	-24	-28
	-12	-6	-9	-7	-8	-8	-18	-22		-8	-3	-9	-8	-7	-6	-15	-19
24 – 36	-7	-6	-8	-7	-11	-15	-16	-16	24 – 36	-4	-2	-7	-6	-10	-14	-14	-15
	-8	-5	-8	-8	-10	-12	-18	-20		-4	0	-6	-7	-9	-12	-17	-19



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-19	-13	-8	-3	-8	-11	-17	-27	8	-15	-11	-7	-3	-7	-9	-16	-26
	-17	-11	-11	-6	-6	-6	-13	-25		-13	-9	-10	-5	-6	-5	-11	-24
16	-15	-10	-7	-3	-9	-14	-20	-23	16	-12	-8	-7	-3	-9	-14	-18	-22
	-9	-6	-8	-9	-10	-8	-13	-21		-6	-4	-8	-9	-10	-7	-12	-21
24 – 36	-9	-5	-7	-7	-11	-14	-16	-17	24 – 36	-6	-4	-7	-6	-10	-13	-14	-16
	-7	-5	-7	-8	-12	-14	-15	-17		-4	-4	-6	-6	-12	-13	-13	-16



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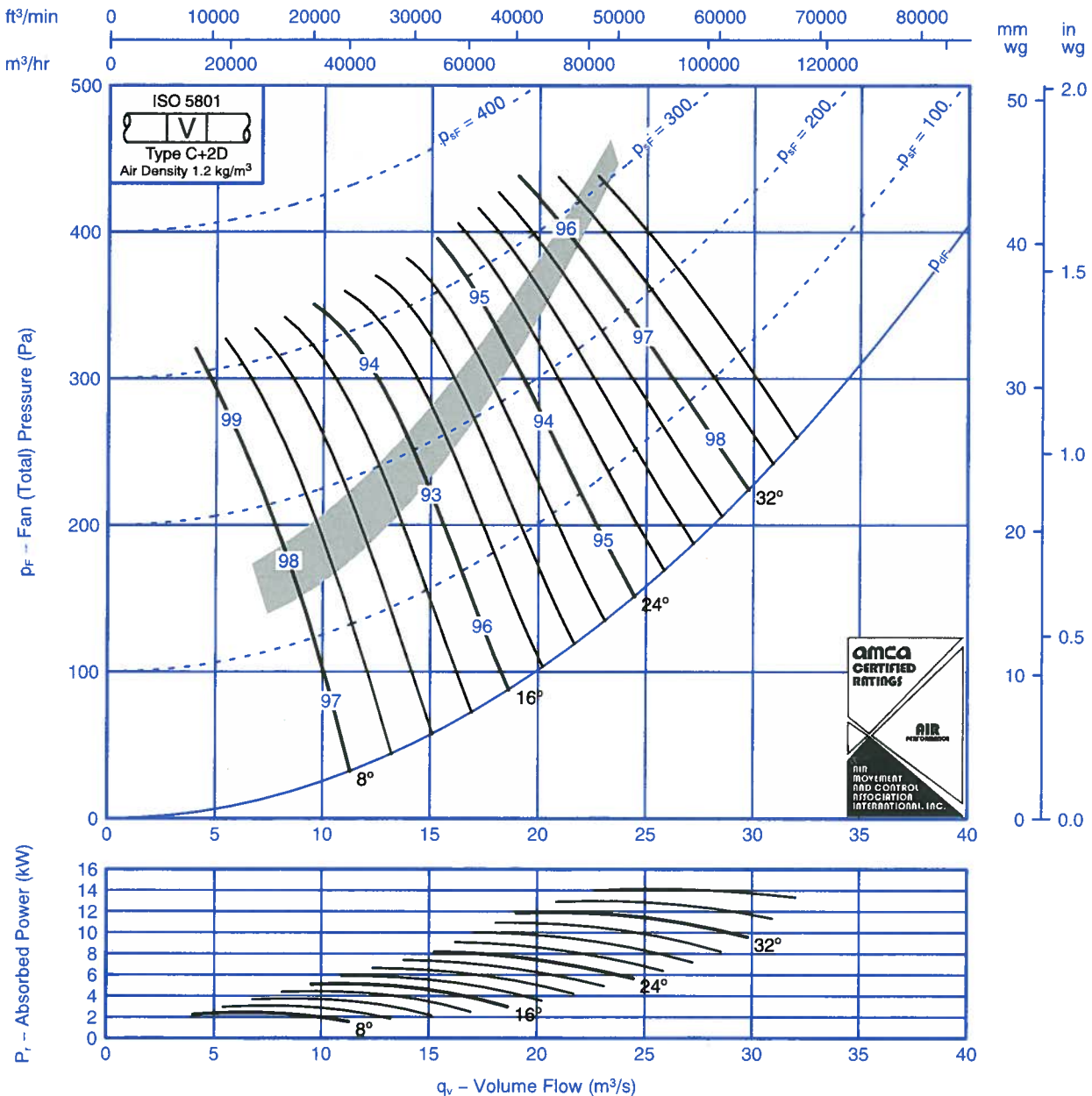
Fan Code: 140JM/40/8/9/...

1400 mm 720 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

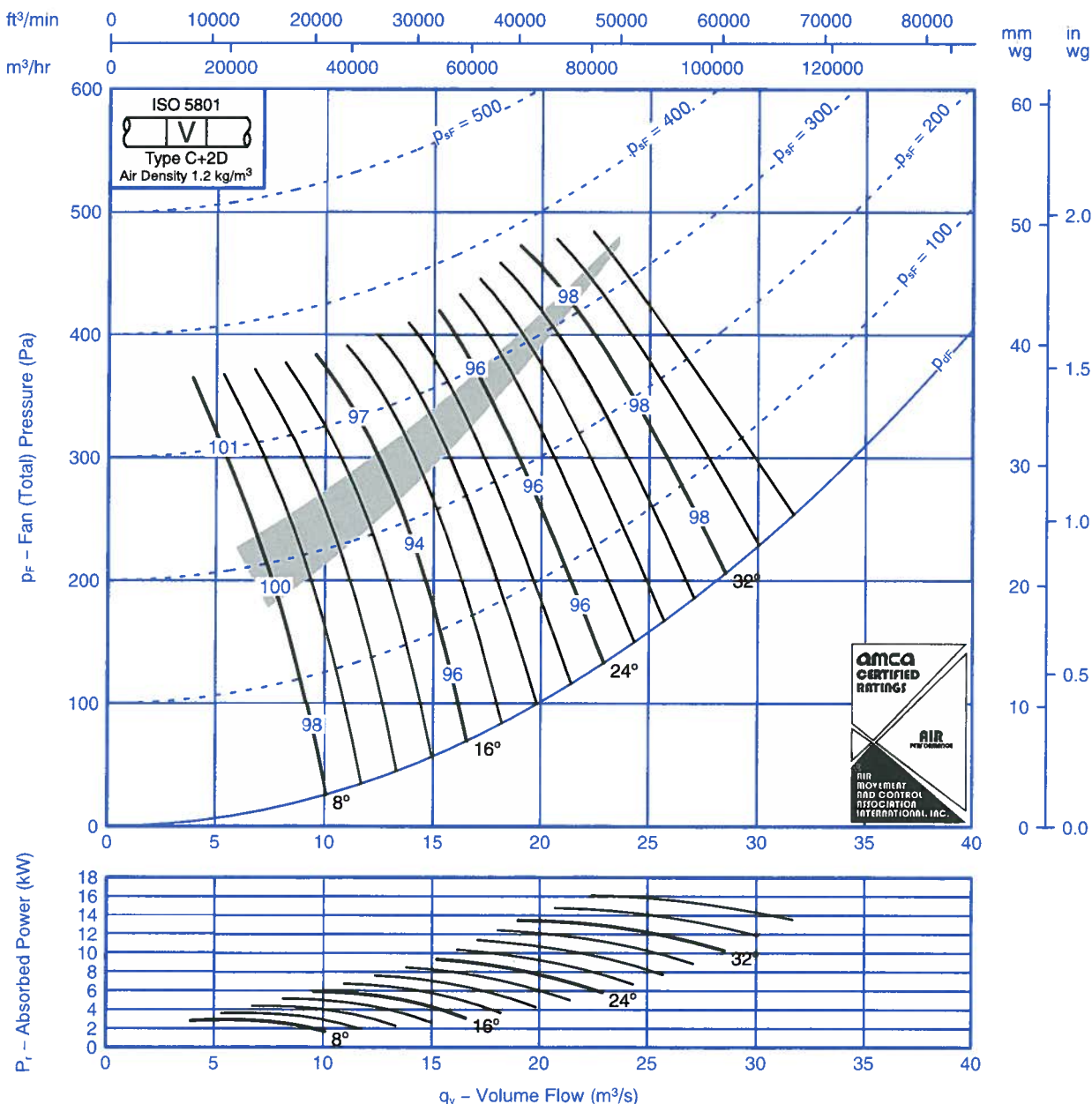
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-13	-8	-3	-7	-11	-19	-27	8	-14	-11	-8	-2	-6	-10	-19	-26
	-18	-13	-11	-7	-7	-4	-12	-24		-15	-10	-11	-5	-5	-3	-12	-23
16	-8	-10	-9	-6	-8	-9	-14	-18	16	-4	-8	-8	-6	-7	-8	-12	-17
	-12	-10	-10	-8	-8	-5	-12	-20		-8	-7	-8	-8	-7	-4	-12	-18
24 - 36	-7	-7	-8	-7	-9	-13	-15	-14	24 - 36	-3	-3	-6	-7	-9	-12	-13	-13
	-7	-7	-7	-7	-9	-12	-15	-17		-3	-3	-5	-6	-8	-11	-13	-16



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



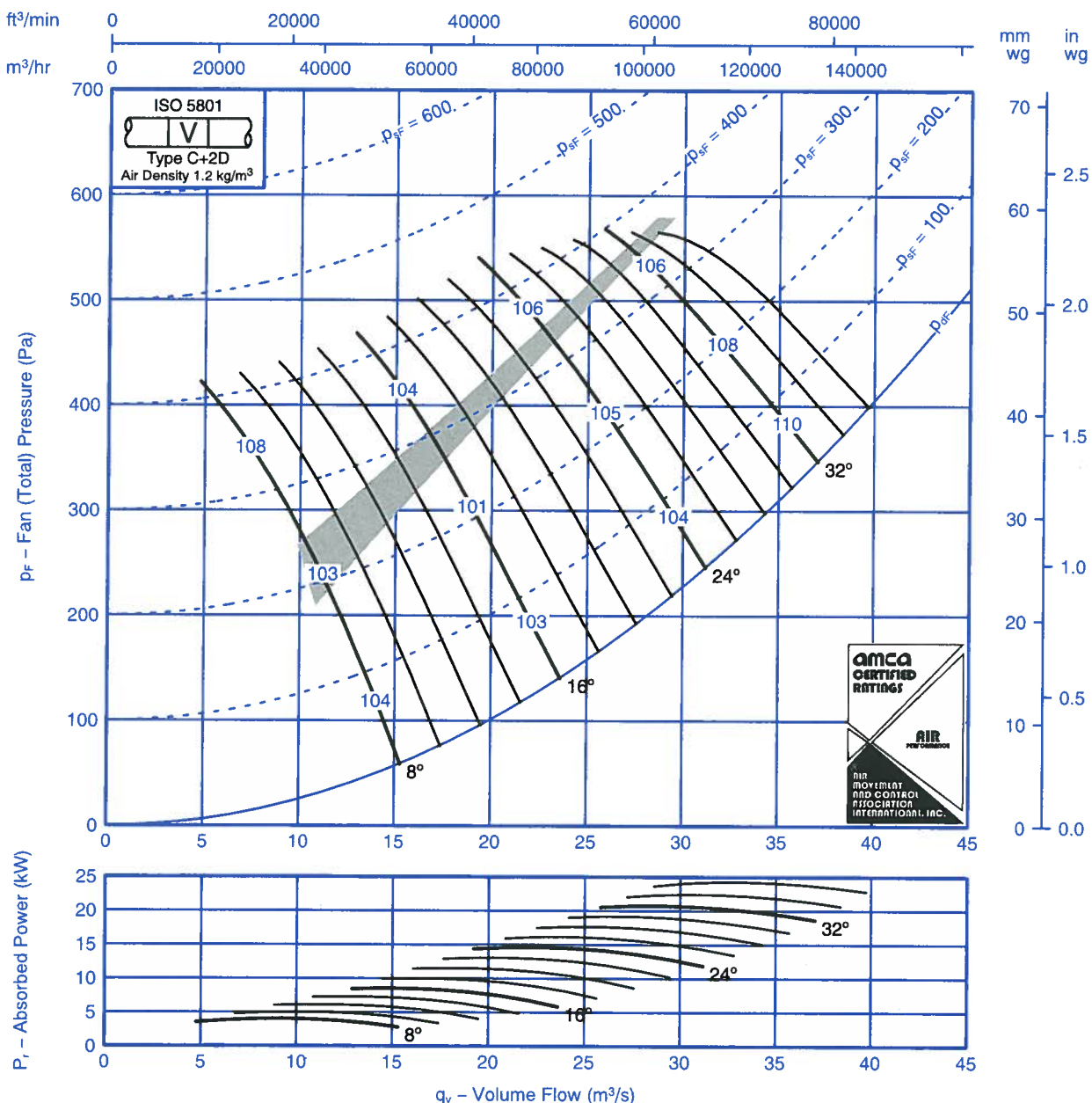
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-8	-8	-4	-8	-14	-23	-30	8	-14	-5	-8	-3	-7	-12	-21	-28
	-18	-12	-10	-5	-6	-7	-14	-24		-15	-9	-10	-4	-5	-5	-12	-22
16	-16	-12	-5	-4	-9	-17	-25	-28	16	-13	-9	-4	-4	-9	-16	-22	-26
	-11	-5	-11	-8	-8	-7	-14	-21		-8	-2	-10	-8	-8	-6	-11	-18
24 – 36	-6	-6	-10	-8	-10	-14	-17	-16	24 – 36	-3	-2	-8	-7	-9	-14	-15	-15
	-7	-5	-9	-8	-10	-12	-17	-20		-3	-1	-7	-7	-9	-11	-16	-19

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

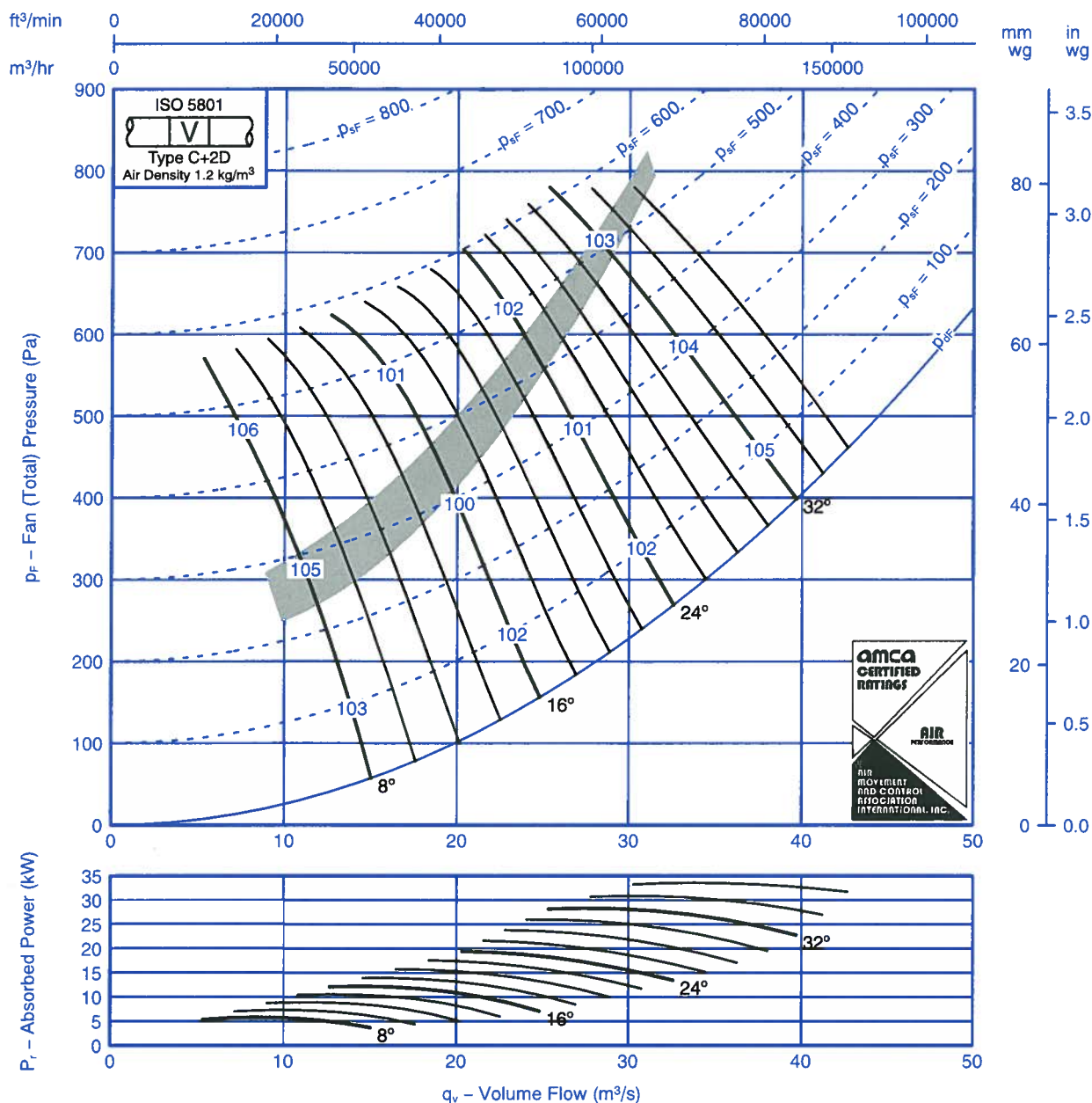
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-14	-12	-4	-6	-11	-13	-26	8	-12	-11	-11	-3	-5	-9	-12	-24
	-12	-11	-12	-8	-6	-7	-8	-23		-9	-9	-11	-7	-5	-6	-7	-22
16	-12	-10	-11	-4	-7	-13	-18	-23	16	-10	-9	-10	-3	-7	-13	-16	-21
	-6	-7	-9	-10	-12	-10	-10	-22		-2	-5	-9	-10	-12	-10	-9	-21
24 - 36	-7	-5	-9	-8	-10	-14	-16	-18	24 - 36	-4	-4	-8	-7	-9	-12	-14	-16
	-5	-7	-9	-8	-11	-14	-16	-18		-1	-5	-7	-7	-11	-13	-14	-17



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

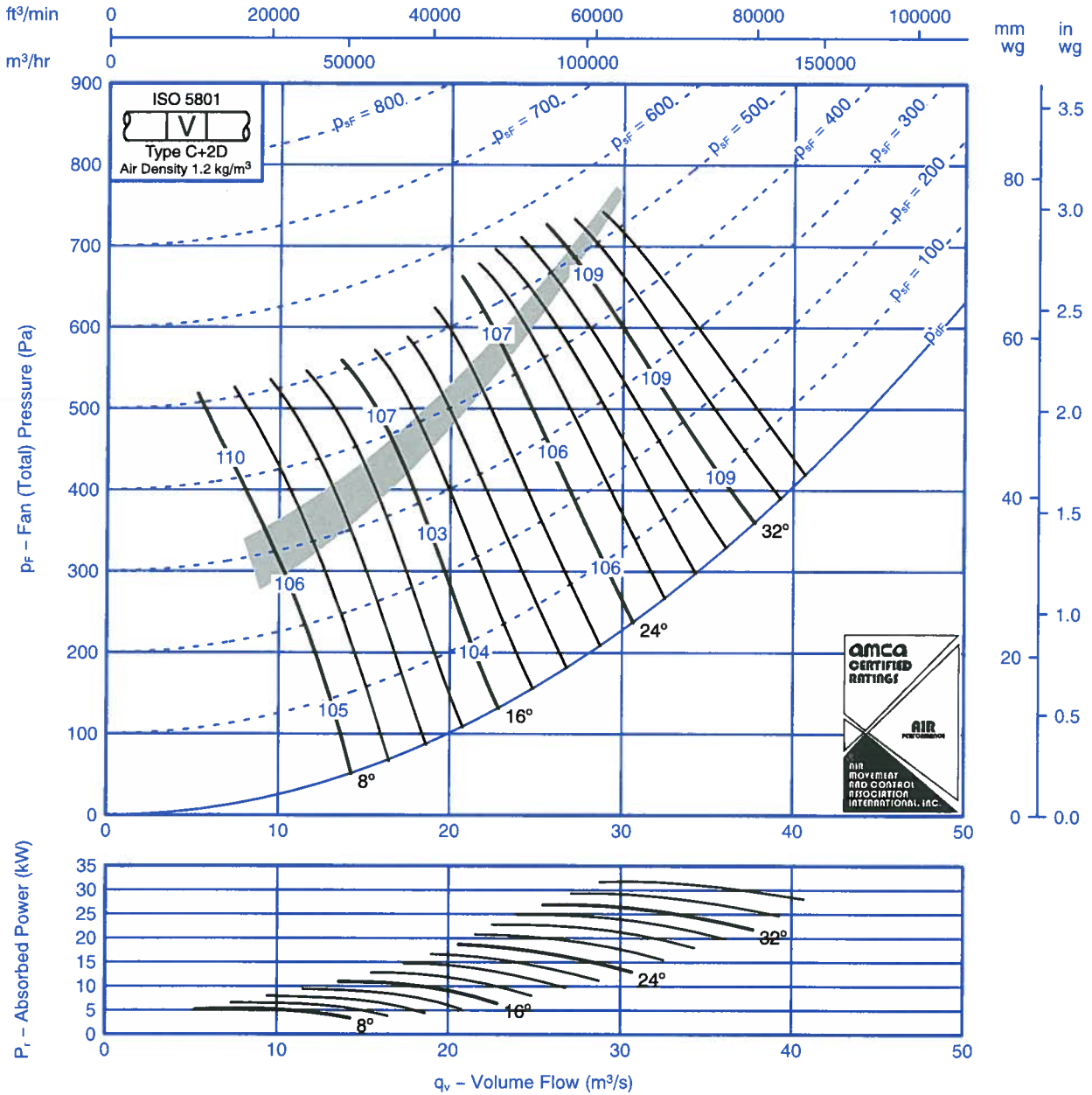
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-19	-15	-12	-4	-5	-11	-14	-26	8	-15	-12	-10	-2	-4	-9	-14	-25
	-18	-13	-14	-9	-7	-6	-7	-22		-15	-10	-13	-7	-5	-4	-6	-20
16	-7	-9	-11	-7	-8	-10	-11	-18	16	-4	-6	-10	-7	-7	-9	-9	-17
	-12	-9	-11	-10	-9	-6	-7	-20		-8	-6	-10	-9	-8	-5	-7	-17
24 - 36	-6	-6	-10	-8	-9	-12	-15	-15	24 - 36	-2	-3	-8	-7	-8	-11	-14	-14
	-7	-6	-9	-8	-9	-11	-14	-18		-3	-3	-6	-7	-8	-11	-12	-16



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-15	-10	-9	-4	-6	-12	-15	-27	8	-12	-8	-8	-3	-5	-11	-15	-25
	-12	-11	-11	-6	-6	-8	-11	-24		-9	-8	-10	-5	-5	-7	-9	-22
16	-12	-12	-9	-3	-8	-13	-18	-24	16	-9	-9	-7	-3	-6	-12	-16	-23
	-7	-8	-8	-9	-9	-9	-11	-20		-5	-5	-6	-7	-8	-7	-10	-19
24 – 36	-6	-5	-9	-9	-11	-14	-16	-18	24 – 36	-4	-2	-8	-7	-10	-13	-15	-17
	-5	-5	-9	-10	-13	-14	-16	-19		-3	-2	-7	-8	-11	-13	-14	-18



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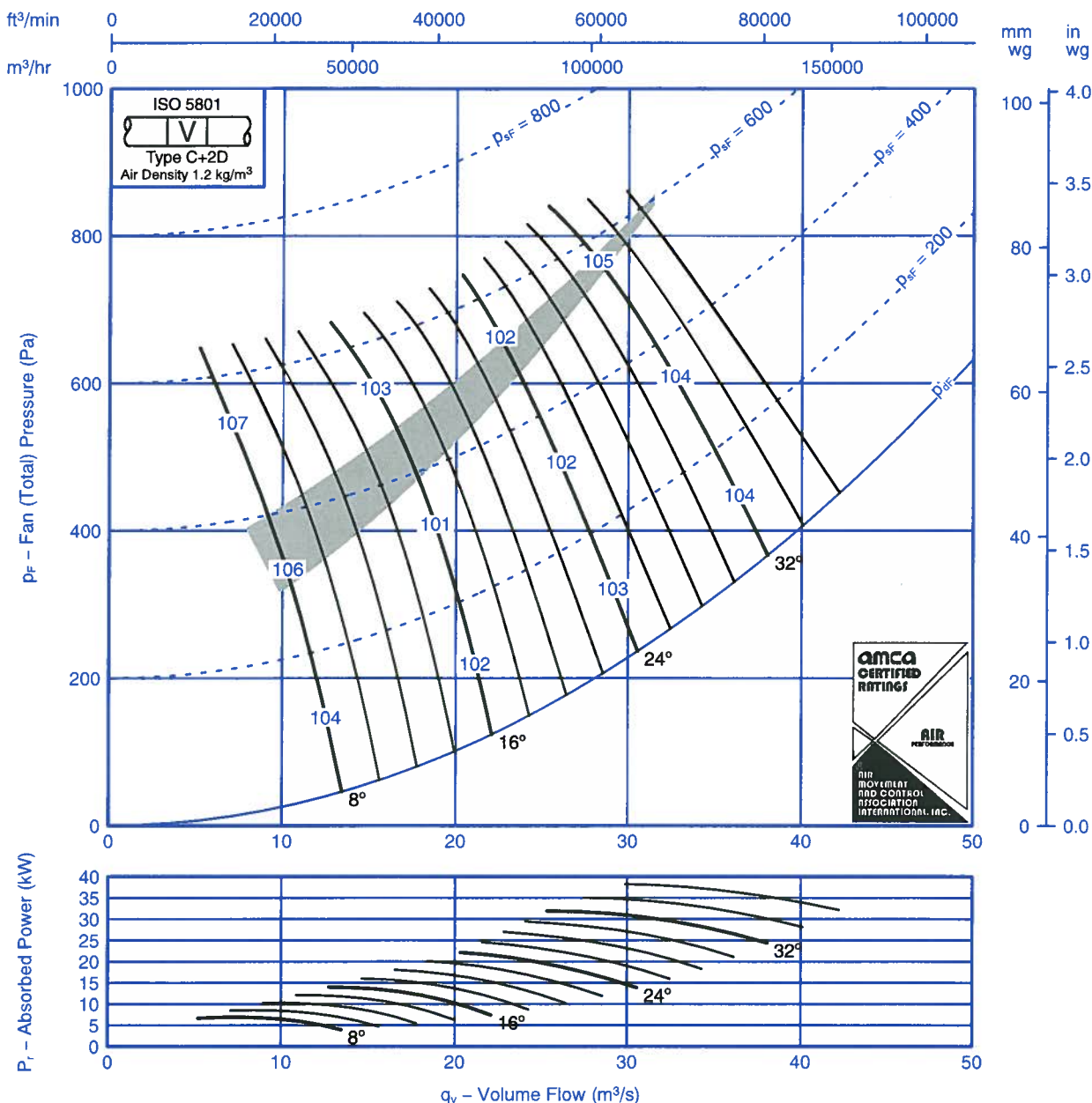
Fan Code: 140JM/50/6/12/...

1400 mm 960 rev/min 12 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

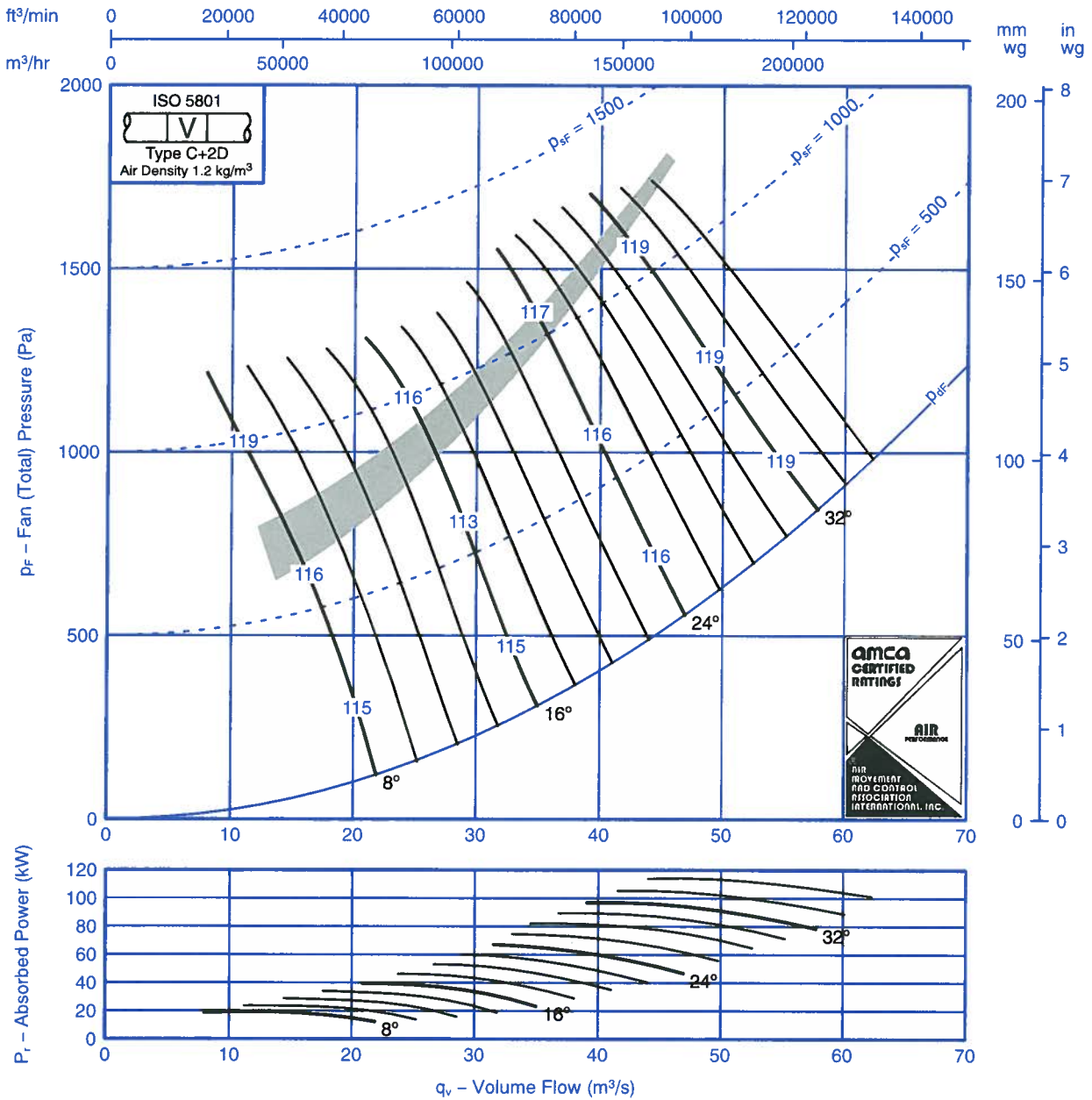
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-11	-9	-4	-6	-13	-18	-29	8	-15	-9	-7	-3	-5	-10	-16	-27
	-19	-14	-12	-6	-5	-7	-9	-22		-16	-13	-10	-6	-4	-5	-7	-20
16	-16	-15	-9	-3	-7	-14	-21	-27	16	-12	-13	-7	-3	-6	-13	-19	-26
	-10	-11	-7	-9	-8	-8	-9	-20		-7	-9	-4	-9	-8	-6	-6	-17
24 – 36	-5	-8	-8	-9	-9	-13	-16	-17	24 – 36	-2	-5	-6	-8	-8	-13	-15	-16
	-7	-9	-7	-8	-9	-11	-14	-20		-2	-5	-4	-7	-8	-11	-13	-19



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installation type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-16	-10	-7	-4	-8	-12	-20	8	-11	-14	-8	-6	-3	-7	-12	-18
	-10	-15	-10	-10	-5	-7	-8	-15		-7	-11	-8	-9	-5	-6	-7	-13
16	-11	-14	-10	-5	-5	-9	-14	-21	16	-8	-13	-8	-5	-4	-8	-13	-20
	-6	-10	-7	-10	-9	-10	-9	-15		-3	-7	-4	-8	-9	-8	-8	-14
24 – 36	-6	-9	-6	-9	-10	-13	-15	-17	24 – 36	-3	-6	-4	-8	-9	-12	-14	-16
	-5	-8	-6	-10	-11	-14	-15	-18		-2	-7	-3	-9	-10	-13	-14	-16



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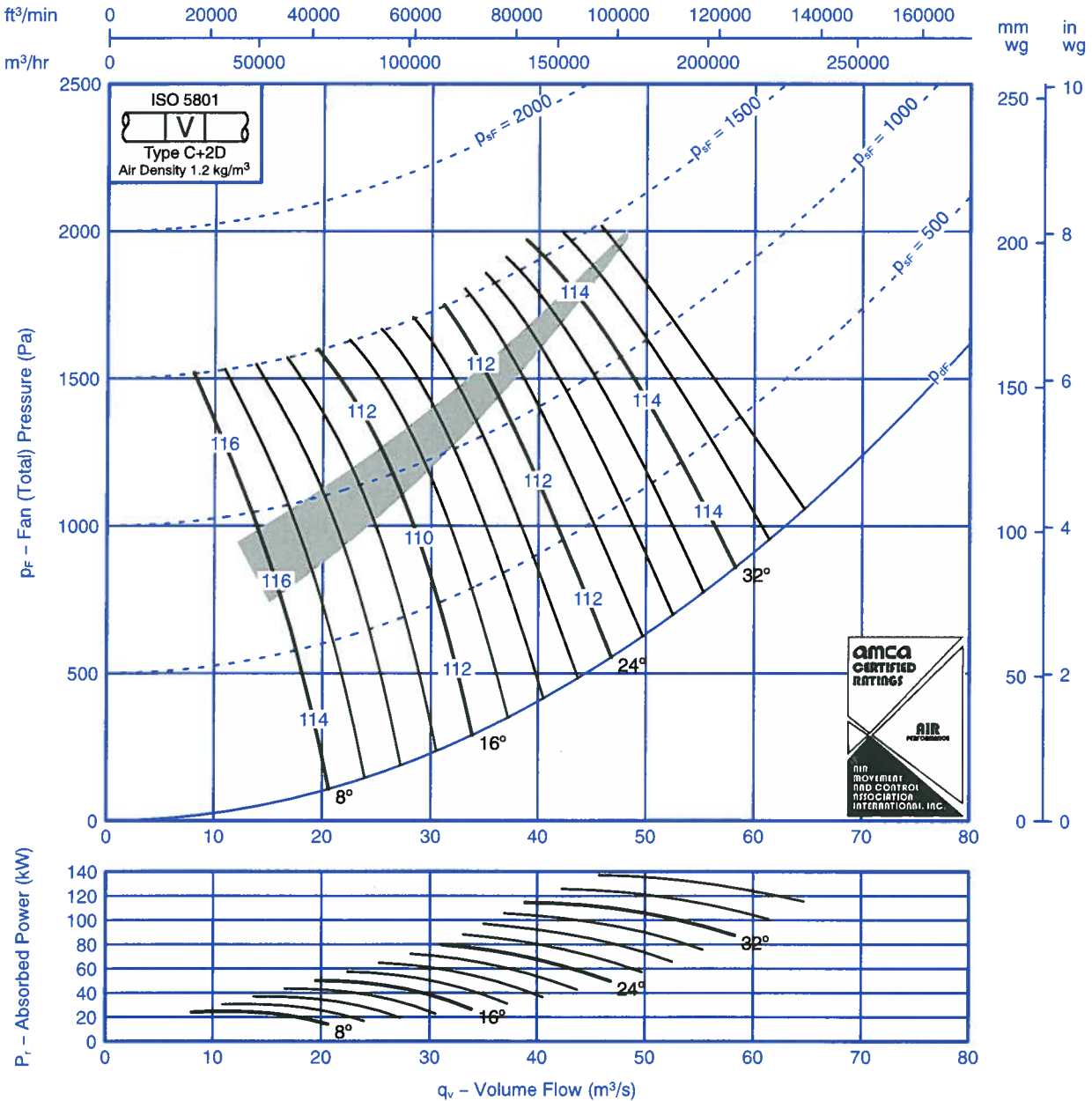
Fan Code: 140JM/50/4/12/...

1400 mm 1470 rev/min 12 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

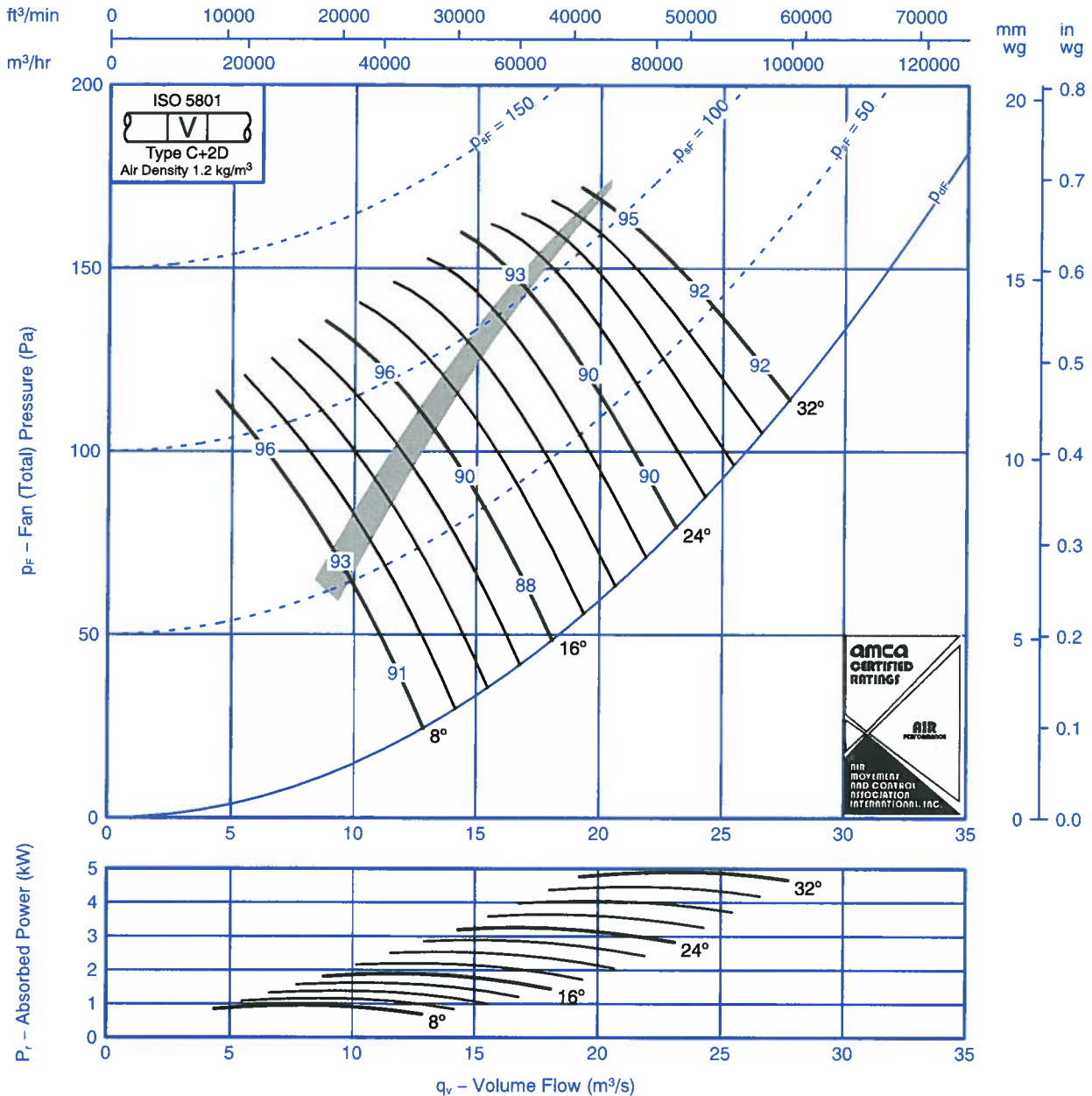
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-16	-8	-9	-3	-8	-14	-22	8	-18	-14	-6	-8	-3	-5	-13	-21
	-21	-18	-12	-10	-5	-6	-7	-14		-19	-17	-10	-9	-3	-4	-5	-12
16	-18	-16	-12	-5	-4	-9	-16	-25	16	-15	-14	-11	-4	-3	-8	-14	-23
	-12	-11	-6	-11	-8	-8	-7	-14		-8	-9	-3	-10	-8	-7	-4	-11
24 - 36	-7	-6	-7	-10	-9	-11	-15	-17	24 - 36	-4	-3	-5	-9	-8	-11	-14	-17
	-8	-8	-6	-10	-9	-10	-12	-17		-5	-4	-3	-9	-8	-10	-11	-16



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

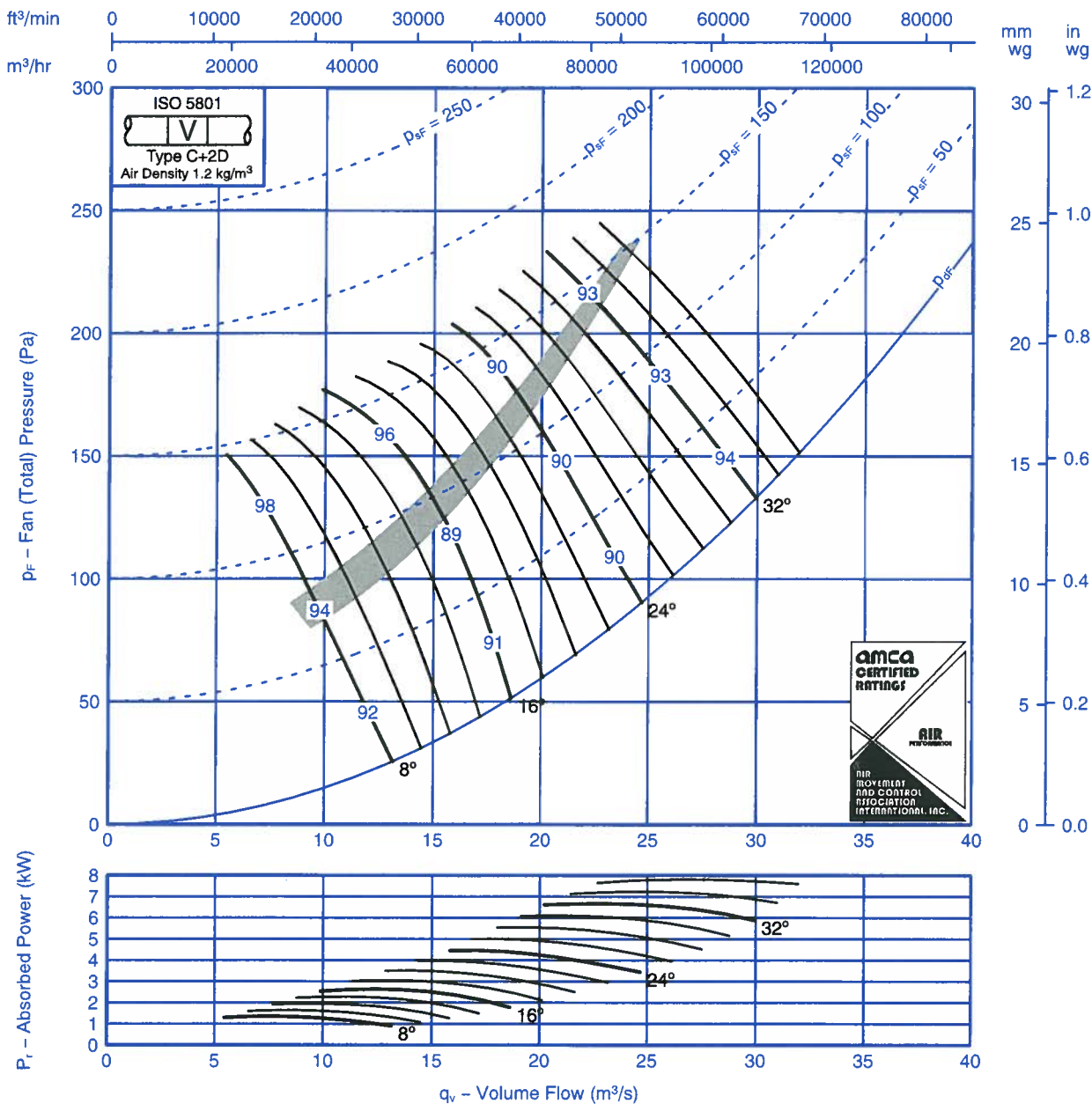
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-8	-3	-6	-13	-16	-23	-29	8	-12	-6	-2	-6	-12	-14	-22	-28
	-13	-13	-8	-4	-7	-9	-19	-27		-10	-11	-7	-3	-7	-7	-18	-26
16	-14	-12	-5	-5	-9	-12	-15	-19	16	-12	-11	-4	-5	-8	-12	-13	-18
	-8	-9	-8	-7	-8	-9	-13	-17		-5	-8	-7	-7	-8	-8	-12	-16
24 – 32	-9	-6	-5	-9	-13	-17	-18	-21	24 – 32	-7	-6	-5	-7	-12	-15	-16	-20
	-7	-8	-7	-8	-9	-12	-12	-14		-4	-7	-6	-6	-9	-11	-10	-13



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

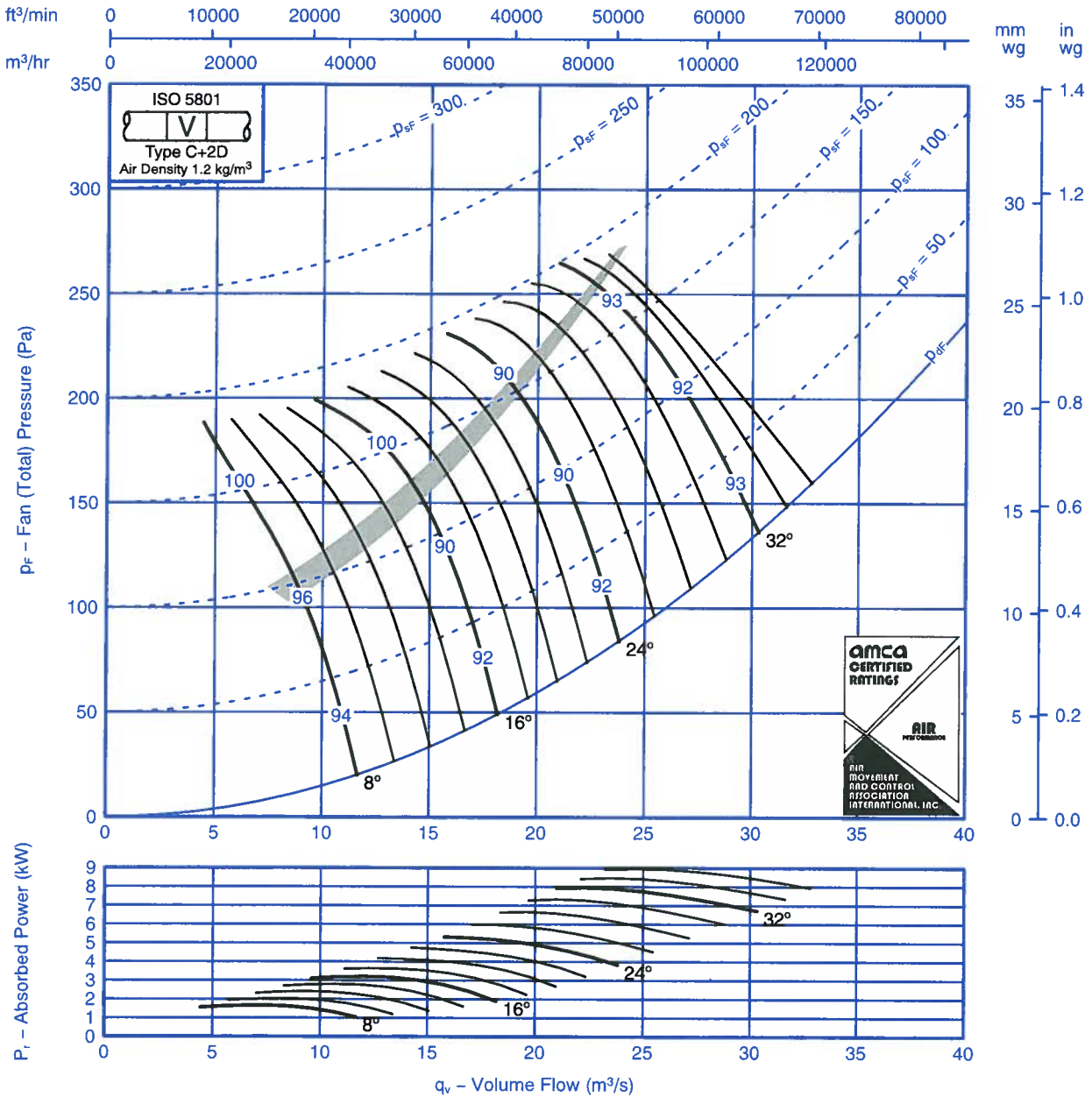
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-10	-2	-6	-14	-17	-26	-32	8	-14	-7	-2	-5	-13	-15	-26	-32
	-13	-14	-7	-4	-7	-8	-19	-28		-10	-12	-7	-3	-6	-7	-19	-27
16	-16	-10	-3	-7	-12	-16	-21	-25	16	-13	-8	-2	-7	-11	-15	-19	-24
	-6	-11	-10	-9	-8	-7	-15	-20		-2	-9	-9	-9	-7	-6	-15	-18
24 - 36	-9	-10	-7	-7	-8	-11	-11	-14	24 - 36	-5	-7	-5	-6	-7	-10	-10	-13
	-6	-8	-8	-8	-9	-11	-12	-14		-2	-5	-6	-7	-7	-10	-10	-13



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-14	-7	-3	-8	-15	-16	-27	-33	8	-12	-6	-2	-7	-14	-14	-25	-32
	-17	-13	-6	-4	-8	-9	-22	-31		-15	-11	-7	-4	-6	-7	-20	-29
16	-17	-12	-4	-5	-9	-12	-20	-26	16	-14	-10	-3	-5	-8	-12	-18	-24
	-14	-9	-10	-7	-7	-5	-16	-21		-10	-6	-9	-7	-6	-4	-13	-18
24 – 36	-11	-8	-6	-7	-9	-13	-14	-17	24 – 36	-8	-4	-4	-6	-8	-12	-13	-16
	-9	-7	-7	-7	-8	-10	-14	-16		-5	-3	-6	-6	-7	-10	-12	-15



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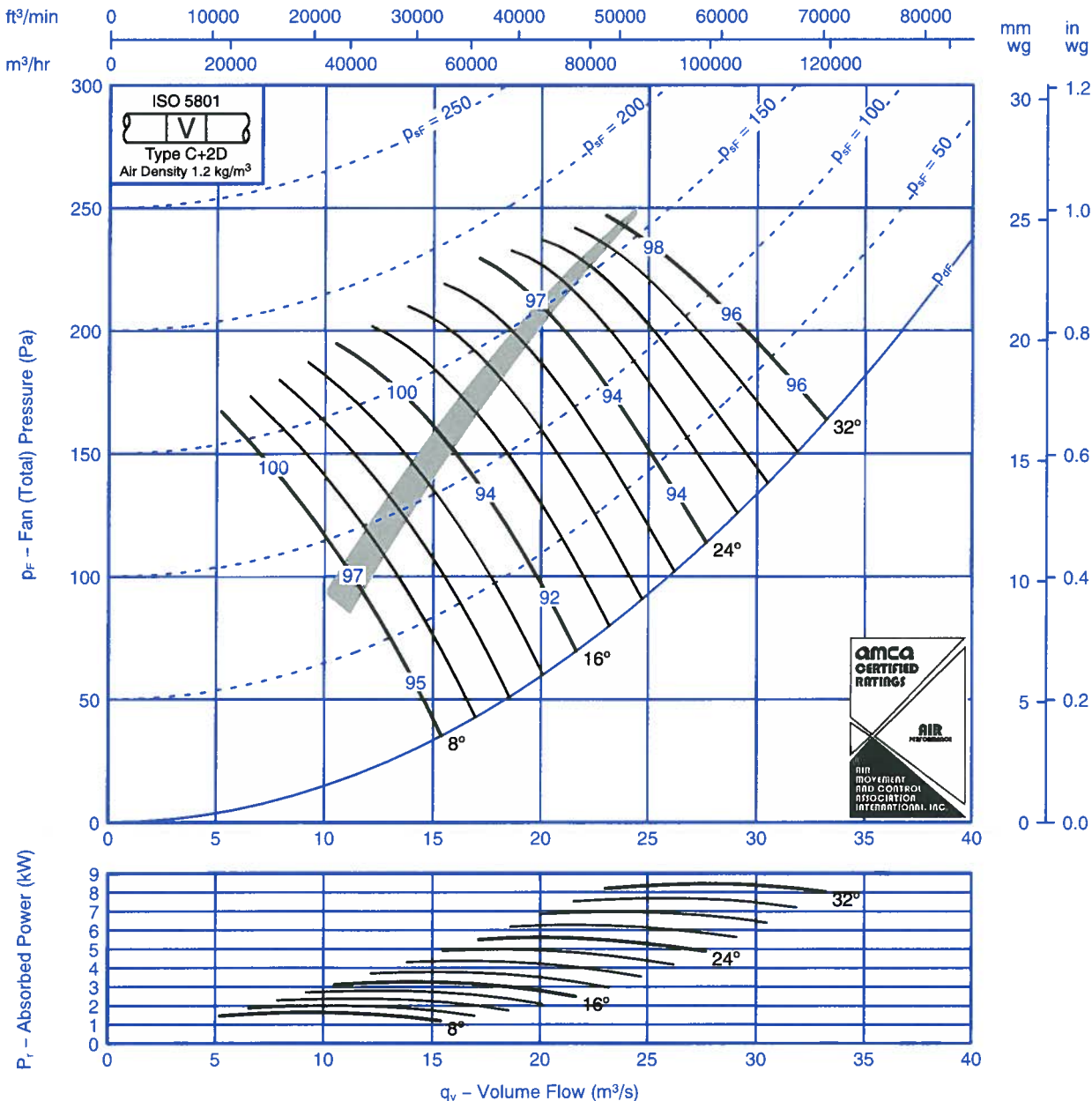
Fan Code: 160JM/40/10/6/...

1600 mm 575 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



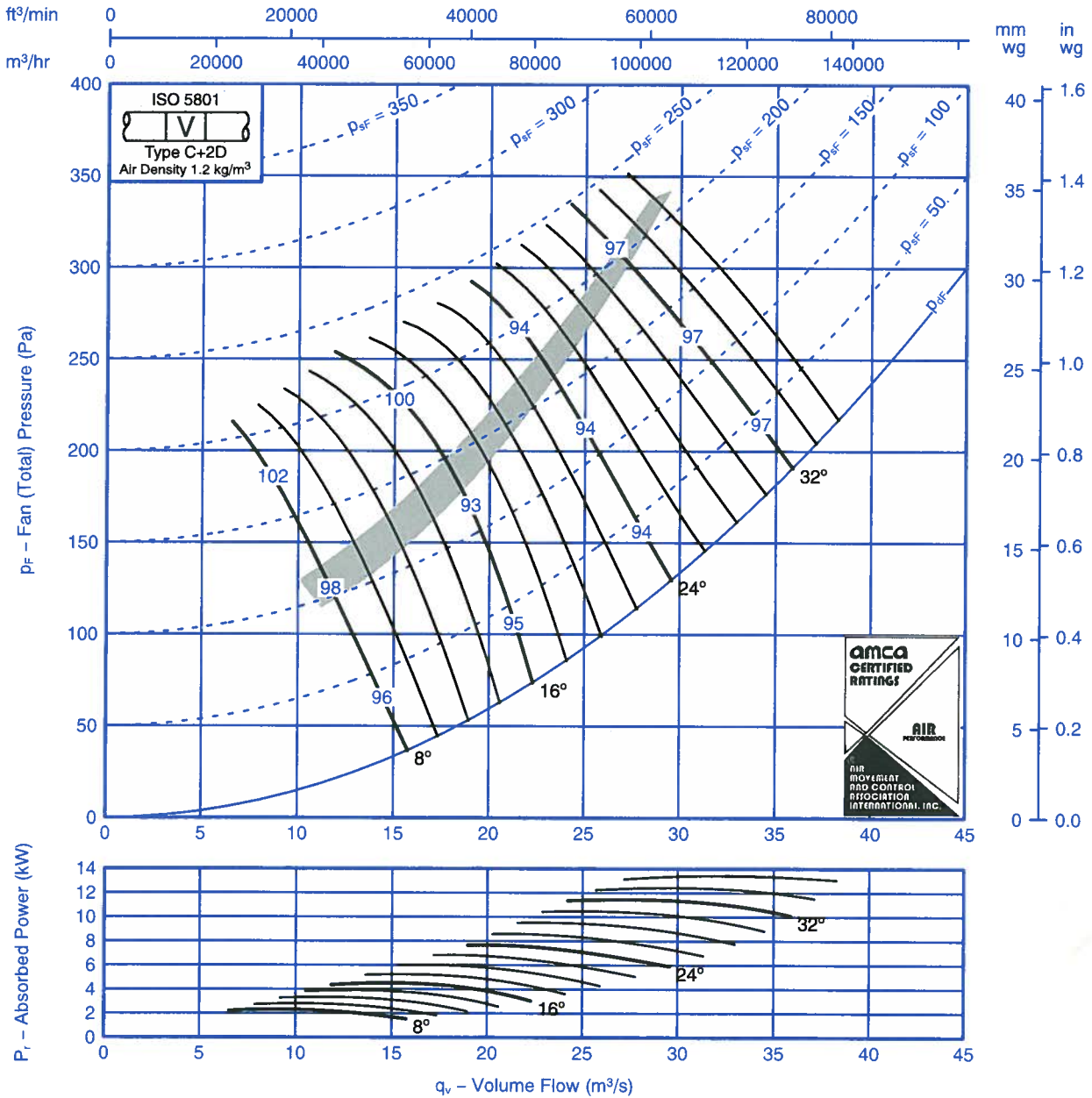
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-17	-9	-4	-6	-11	-15	-21	-27	8	-14	-7	-3	-5	-10	-14	-20	-26
	-15	-13	-9	-4	-6	-8	-15	-25		-12	-11	-8	-4	-6	-7	-14	-24
16	-15	-12	-6	-4	-8	-12	-14	-18	16	-12	-11	-6	-4	-7	-11	-12	-17
	-10	-9	-9	-7	-8	-8	-12	-16		-7	-7	-8	-7	-7	-8	-11	-15
24 – 32	-11	-6	-5	-8	-11	-16	-18	-20	24 – 32	-9	-6	-5	-7	-11	-15	-16	-19
	-8	-7	-8	-8	-9	-12	-12	-14		-6	-6	-6	-6	-9	-11	-10	-12

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-18	-11	-3	-5	-12	-16	-22	-30	8	-15	-9	-3	-4	-11	-15	-22	-29
	-14	-16	-9	-4	-6	-7	-15	-26		-11	-14	-9	-3	-5	-6	-15	-25
16	-17	-12	-3	-5	-10	-15	-19	-23	16	-14	-11	-3	-5	-9	-14	-17	-23
	-6	-13	-10	-9	-8	-6	-11	-18		-3	-11	-8	-9	-7	-6	-11	-16
24-36	-10	-11	-7	-7	-7	-11	-11	-13	24-36	-6	-8	-5	-6	-7	-10	-10	-12
	-7	-10	-8	-8	-8	-11	-11	-14		-2	-7	-5	-7	-7	-10	-10	-12



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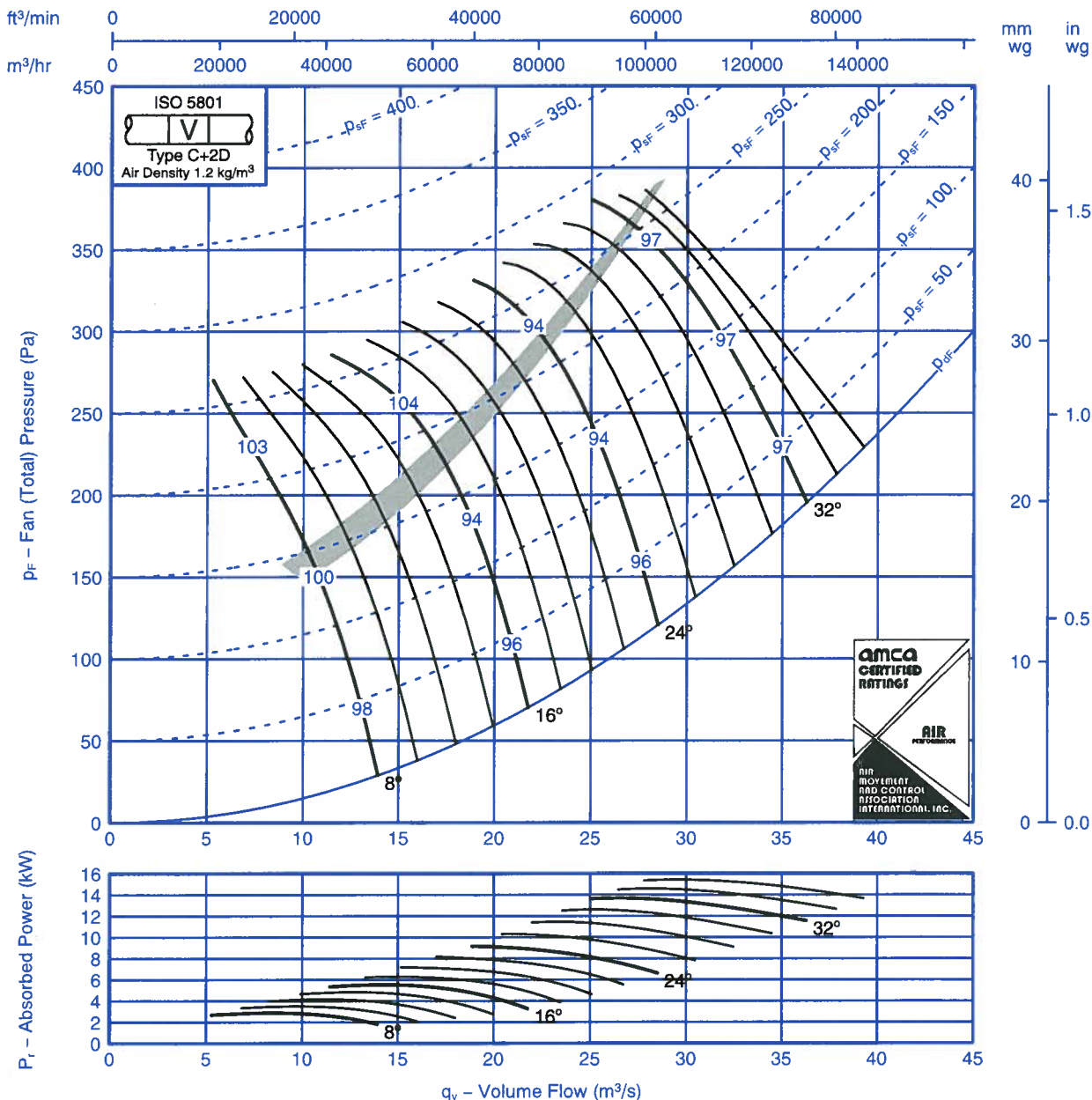
Fan Code: 160JM/50/10/12/...



1600 mm 575 rev/min 12 Blades 50 Hz

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



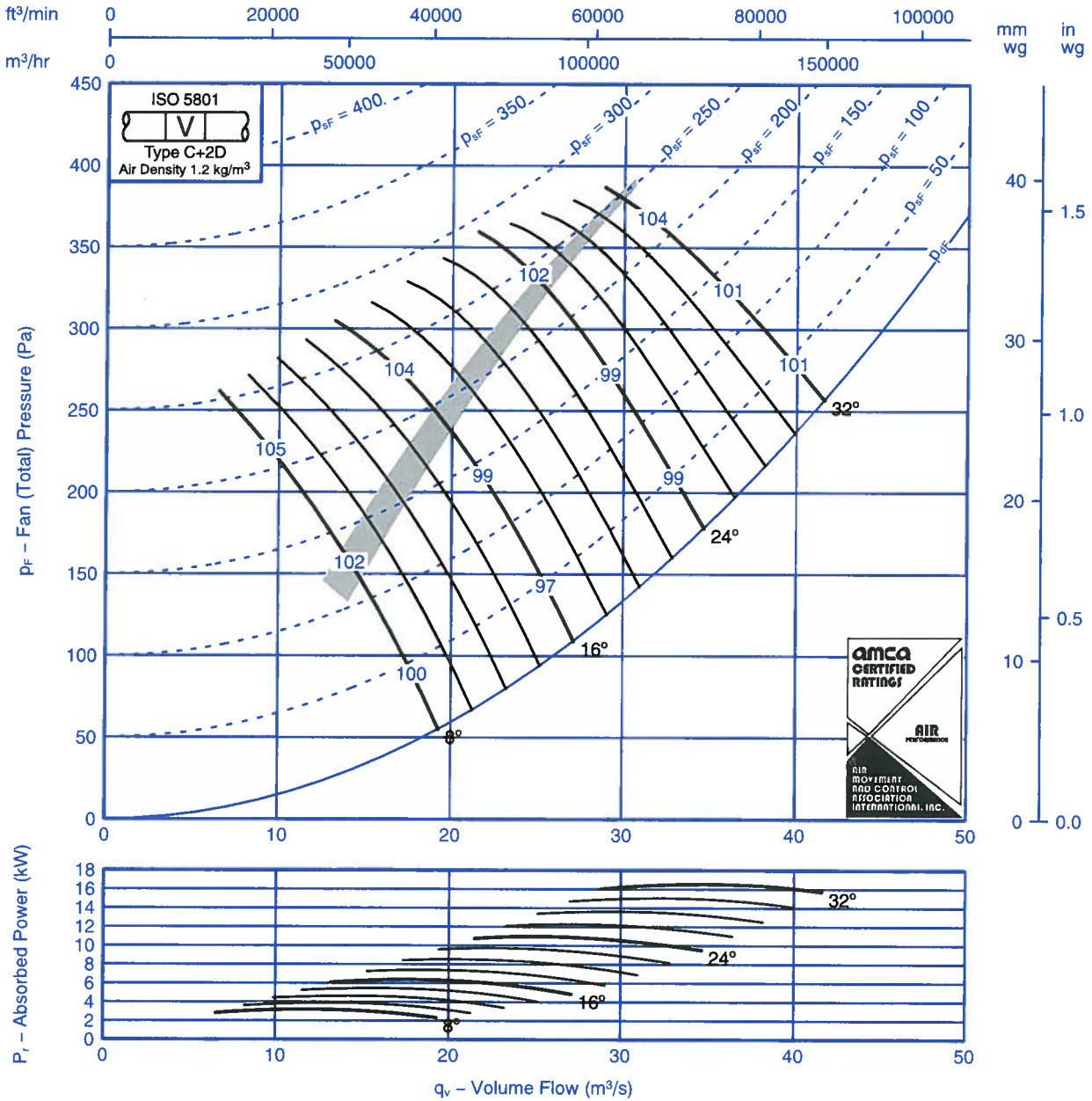
Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under duct conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-16	-11	-3	-6	-13	-15	-24	-31	8	-15	-8	-3	-5	-12	-13	-22	-29
	-19	-14	-8	-4	-7	-8	-18	-28		-17	-11	-8	-3	-6	-6	-16	-26
16	-18	-13	-6	-4	-7	-12	-18	-24	16	-15	-10	-5	-4	-7	-11	-16	-22
	-15	-9	-11	-7	-7	-5	-12	-19		-11	-6	-10	-8	-7	-4	-9	-17
24 – 36	-11	-8	-6	-7	-8	-12	-14	-16	24 – 36	-8	-5	-5	-6	-7	-12	-12	-15
	-9	-7	-8	-8	-8	-10	-13	-16		-5	-2	-6	-7	-7	-9	-12	-15

Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C—Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-19	-12	-5	-4	-9	-14	-18	-26	8	-16	-9	-4	-4	-8	-13	-17	-24
	-16	-13	-11	-6	-5	-8	-11	-23		-13	-11	-10	-5	-4	-6	-10	-22
16	-15	-13	-10	-4	-6	-10	-13	-17	16	-13	-12	-9	-4	-6	-10	-12	-16
	-10	-9	-9	-7	-8	-8	-10	-15		-7	-7	-9	-7	-7	-8	-9	-14
24-32	-13	-7	-6	-6	-10	-15	-17	-19	24-32	-10	-6	-6	-5	-9	-13	-15	-18
	-9	-7	-8	-7	-8	-11	-12	-13		-6	-6	-7	-6	-8	-10	-12	-12



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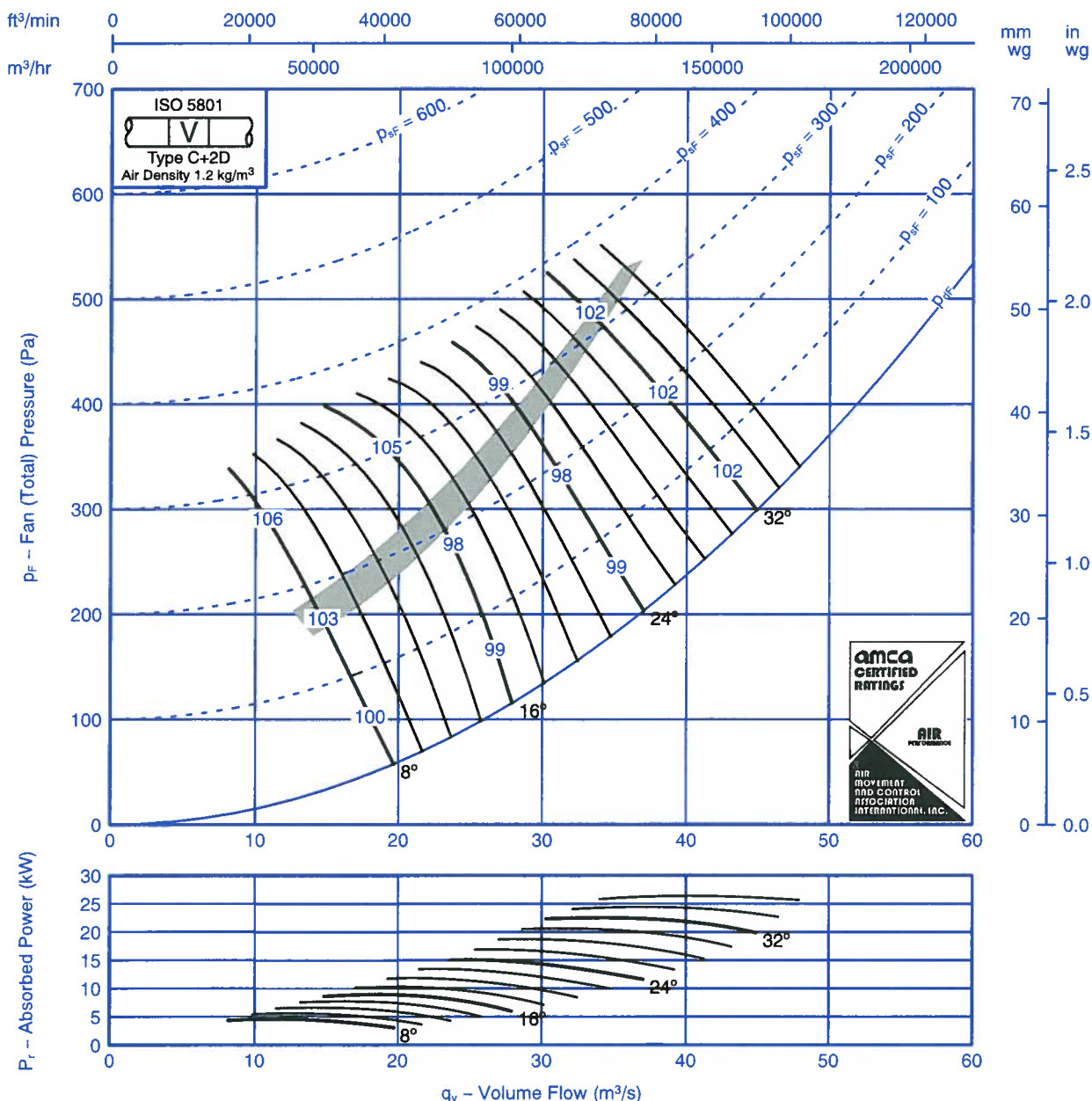
Fan Code: 160JM/40/8/9/...

1600 mm 720 rev/min 9 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

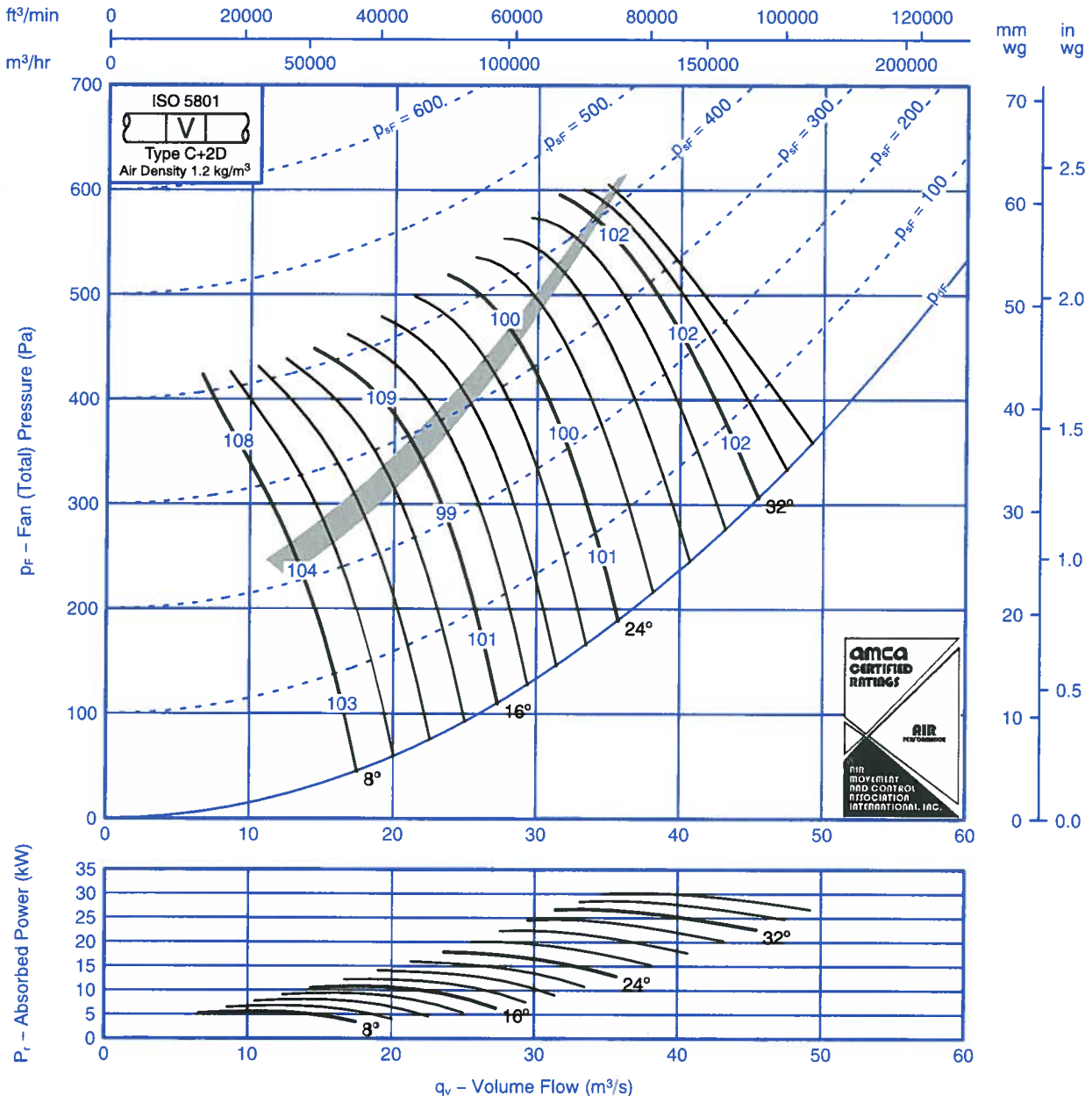
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-14	-5	-3	-9	-15	-19	-28	8	-18	-12	-5	-2	-8	-14	-19	-27
	-19	-14	-12	-5	-6	-7	-11	-24		-16	-10	-11	-3	-4	-6	-11	-23
16	-19	-14	-6	-3	-8	-14	-18	-22	16	-16	-12	-6	-3	-7	-13	-16	-21
	-13	-7	-10	-9	-8	-7	-8	-17		-9	-4	-9	-9	-7	-6	-8	-15
24 – 36	-10	-10	-9	-7	-7	-9	-11	-12	24 – 36	-6	-7	-7	-6	-6	-8	-10	-11
	-8	-8	-8	-8	-8	-10	-11	-13		-4	-4	-6	-7	-7	-9	-9	-12



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-11	-6	-3	-11	-15	-20	-29	8	-19	-9	-6	-2	-10	-13	-18	-27
	-21	-14	-11	-4	-6	-8	-12	-26		-19	-12	-11	-4	-4	-5	-10	-24
16	-18	-14	-9	-4	-6	-11	-15	-22	16	-15	-11	-8	-4	-5	-10	-13	-21
	-14	-8	-12	-8	-7	-6	-8	-18		-11	-6	-11	-9	-7	-4	-5	-16
24 – 36	-11	-10	-8	-6	-7	-11	-13	-15	24 – 36	-8	-7	-6	-5	-6	-11	-12	-14
	-8	-7	-9	-8	-8	-10	-12	-15		-4	-3	-7	-7	-7	-9	-11	-14



BS 5750 Pt 1
EN 29001
ISO 9001

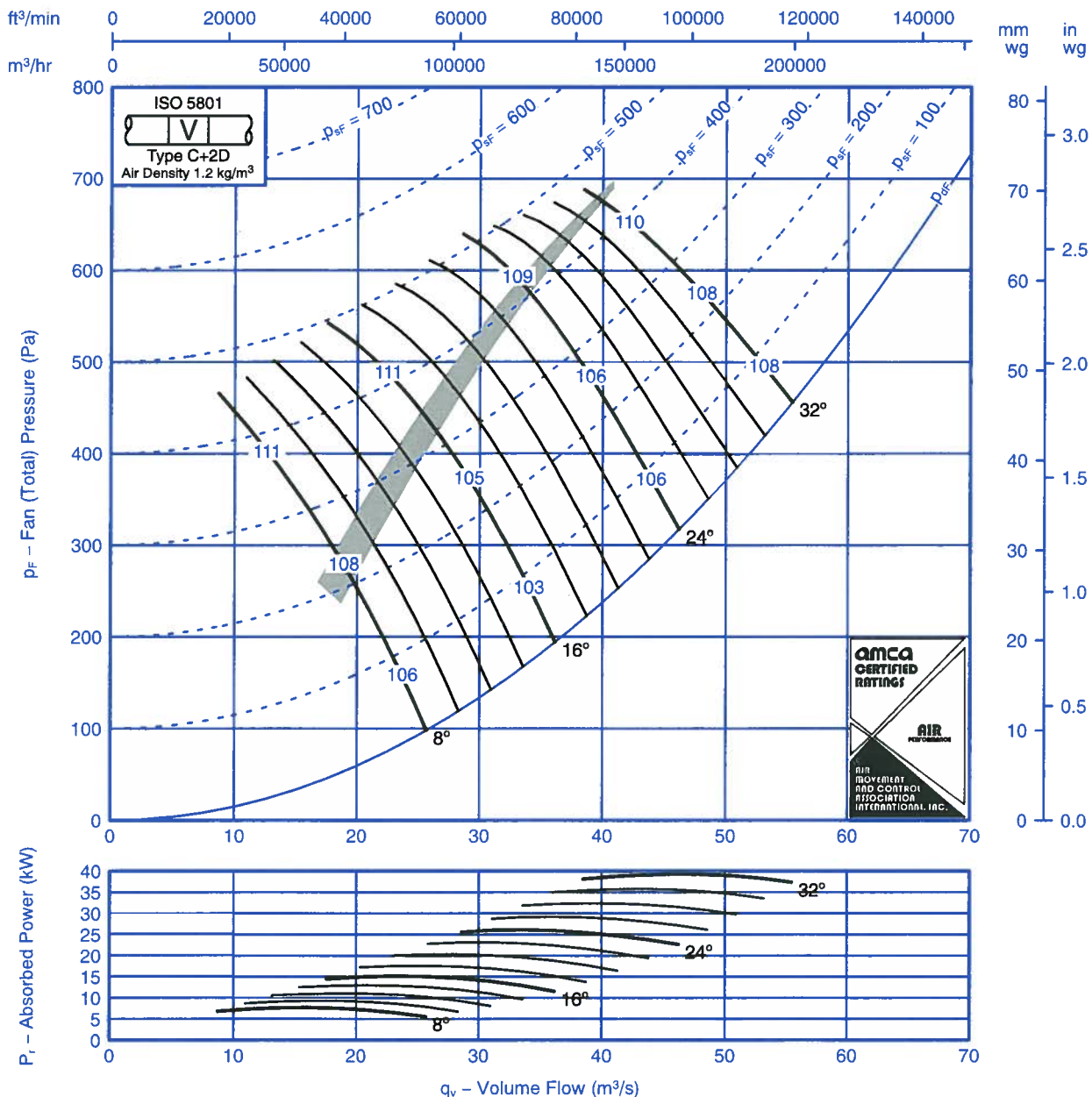
Fan Code: 160JM/40/6/6/...

1600 mm 960 rev/min 6 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

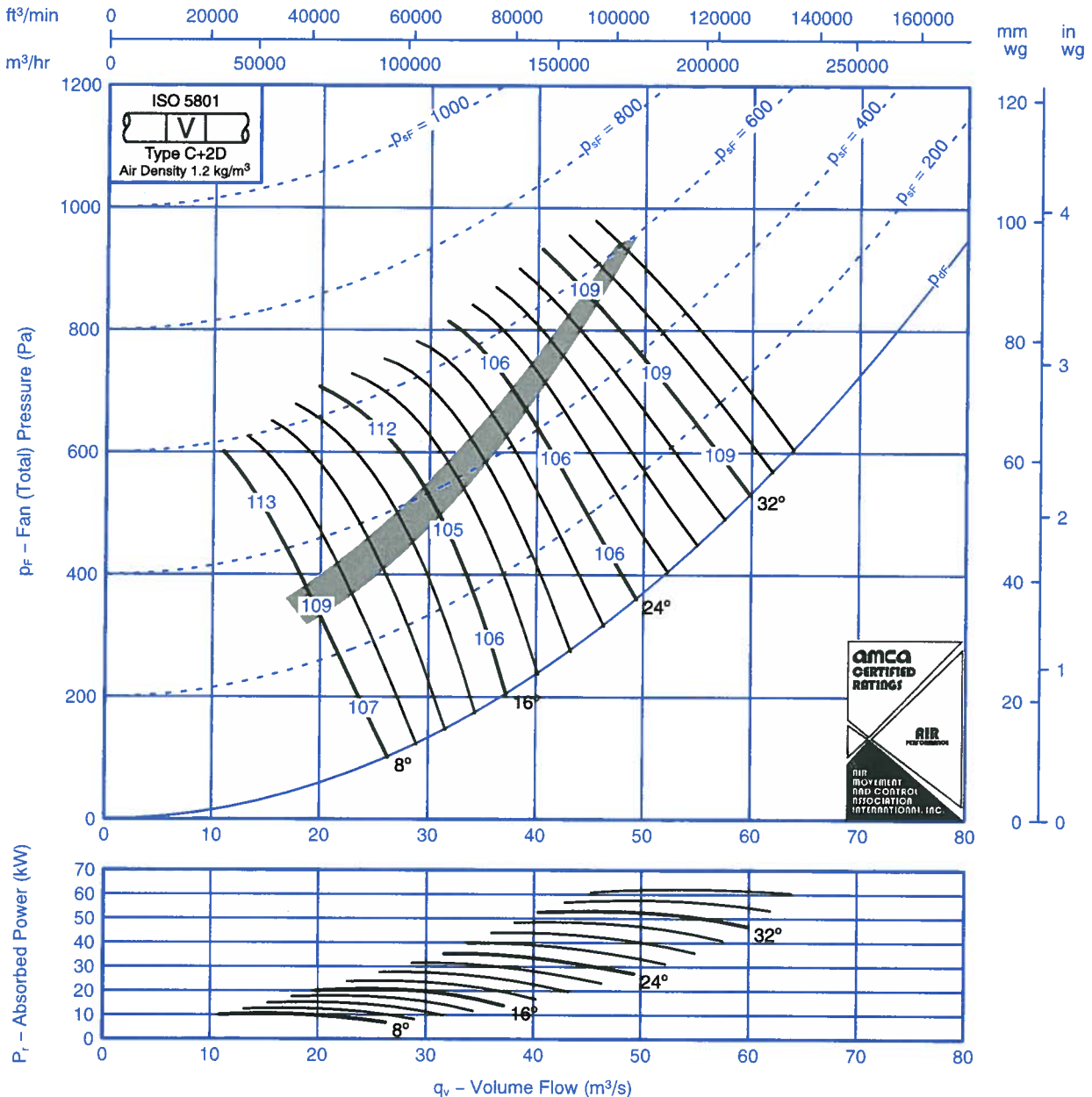
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-21	-15	-8	-4	-7	-13	-16	-23	8	-17	-12	-7	-2	-6	-11	-15	-22
	-19	-13	-13	-8	-4	-7	-9	-19		-15	-11	-13	-7	-4	-6	-7	-18
16	-15	-14	-12	-5	-5	-9	-13	-16	16	-13	-12	-12	-5	-5	-8	-10	-15
	-12	-8	-10	-8	-7	-8	-9	-14		-9	-7	-9	-8	-7	-8	-8	-13
24 - 32	-14	-9	-7	-5	-9	-13	-17	-18	24 - 32	-11	-7	-6	-4	-8	-12	-15	-17
	-10	-7	-9	-8	-8	-10	-13	-13		-6	-6	-7	-6	-8	-9	-10	-11



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

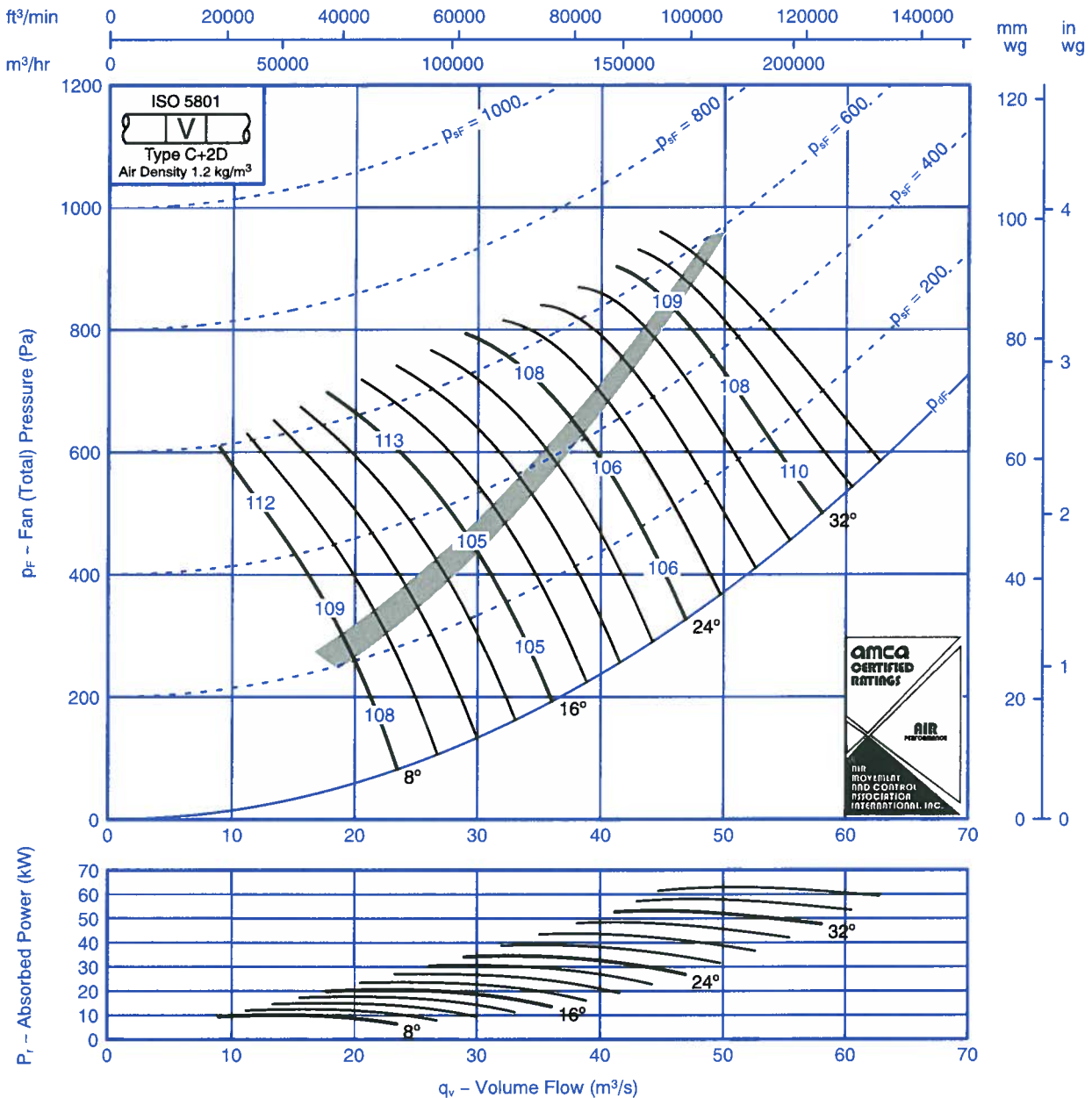
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-24	-17	-10	-3	-7	-14	-17	-26	8	-21	-14	-9	-1	-5	-12	-17	-25
	-21	-13	-15	-8	-4	-7	-9	-19		-18	-10	-14	-6	-3	-6	-8	-18
16	-19	-17	-11	-3	-7	-12	-17	-21	16	-15	-14	-10	-3	-5	-11	-14	-20
	-13	-6	-11	-11	-9	-8	-7	-15		-9	-3	-10	-10	-8	-8	-7	-13
24 – 36	-8	-10	-10	-8	-7	-8	-12	-12	24 – 36	-4	-6	-8	-7	-7	-7	-10	-11
	-8	-7	-9	-9	-9	-9	-12	-13		-3	-4	-7	-8	-7	-9	-10	-12



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-20	-13	-8	-4	-7	-12	-14	-25	8	-17	-10	-7	-3	-5	-11	-13	-23
	-20	-16	-14	-8	-4	-7	-7	-21		-16	-13	-13	-7	-4	-6	-6	-19
16	-18	-13	-7	-4	-8	-13	-18	-23	16	-14	-11	-5	-3	-6	-12	-16	-21
	-11	-11	-10	-9	-8	-7	-7	-17		-8	-7	-8	-7	-7	-5	-6	-16
24 – 36	-11	-11	-8	-5	-7	-11	-15	-16	24 – 36	-8	-8	-6	-4	-6	-9	-13	-15
	-8	-9	-8	-8	-9	-10	-12	-14		-5	-6	-6	-6	-8	-8	-10	-12

JM AEROFOIL



BS 5750 Pt 1
EN 29001
ISO 9001

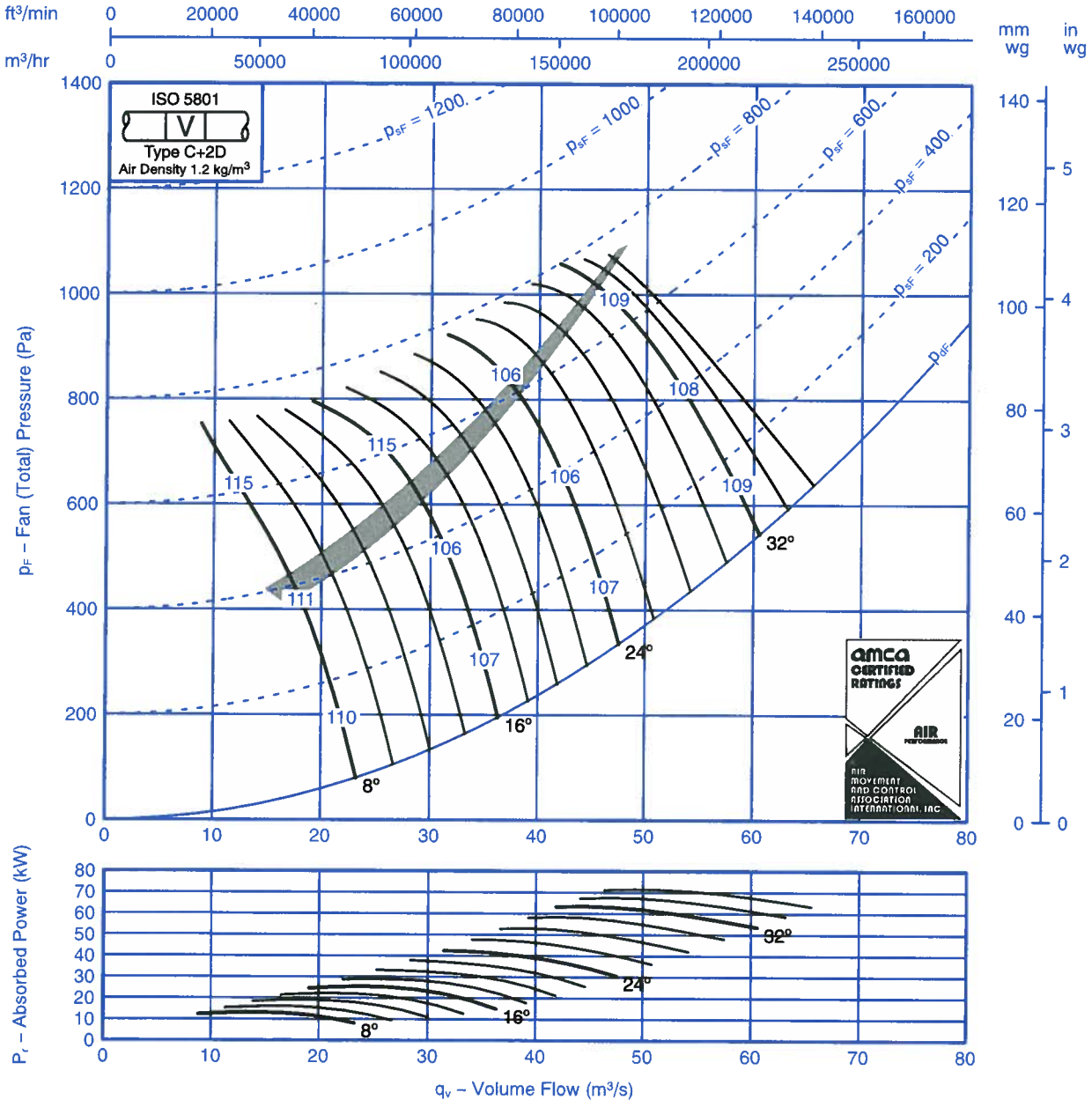
Fan Code: 160JM/50/6/12/...

1600 mm 960 rev/min 12 Blades 50 Hz



Performance Data ISO 5801: The AMCA Certified Ratings Seal applies to air performance only

Performance shown is for installations type C – Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.

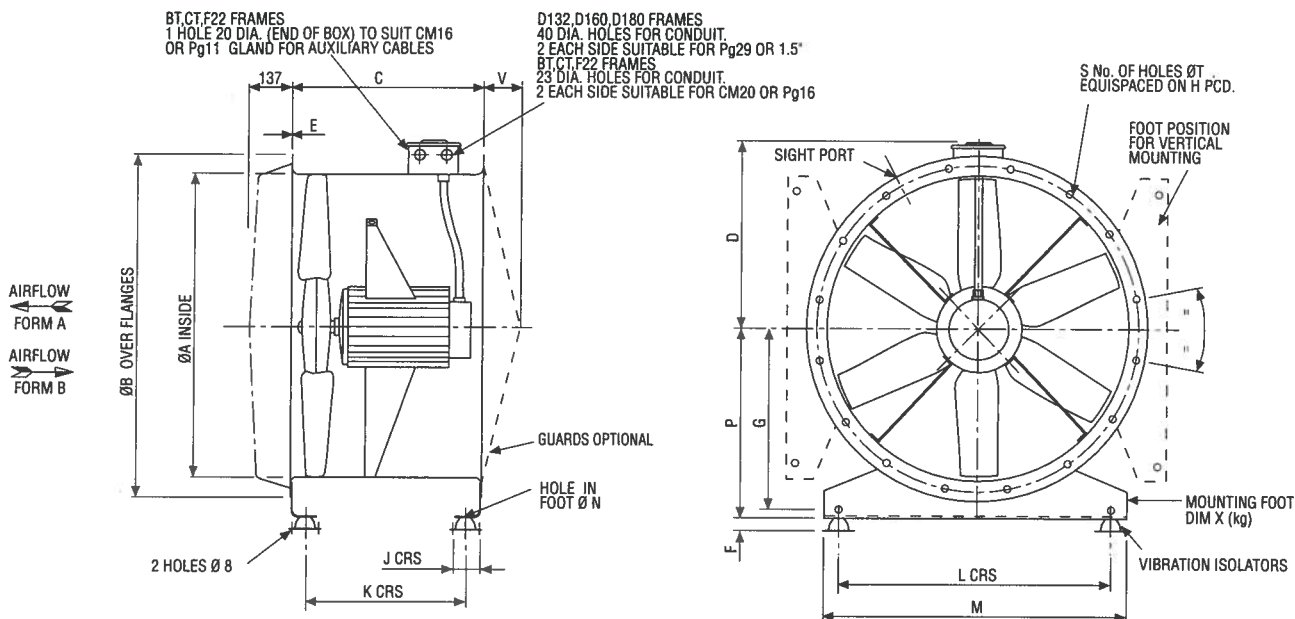


If it is intended to run this fan in reverse for other than emergency operation, please refer to Woods Air Movement.

Sound Data BS848 Part 2 1985:

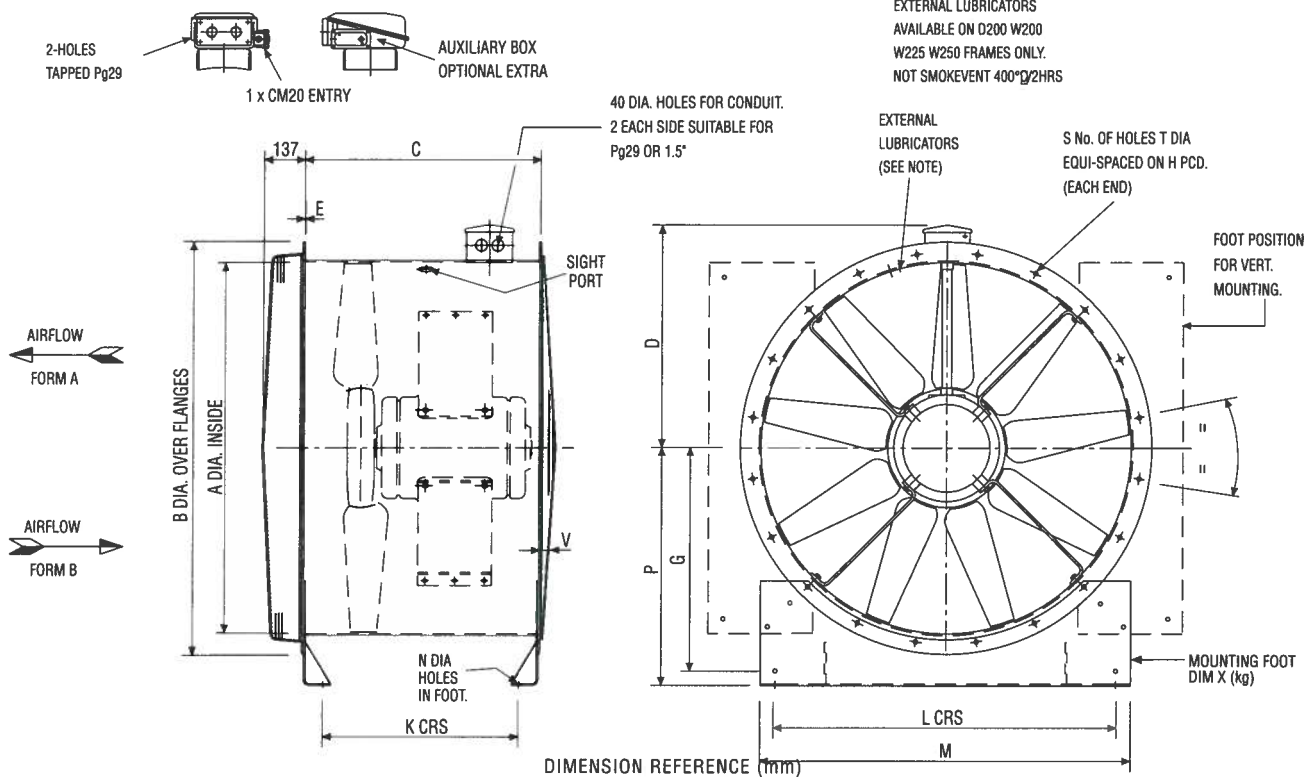
Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in Woods laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall level. Use upper corrections when operating point is above shaded area, or lower corrections when operating point is below shaded area.

Inlet Levels									Outlet Levels								
Pitch Angle	Octave Band Centre Frequency (Hz)								Pitch Angle	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k		63	125	250	500	1k	2k	4k	8k
8	-23	-14	-7	-3	-8	-15	-17	-27	8	-21	-12	-6	-2	-7	-12	-15	-25
	-22	-17	-13	-6	-5	-8	-9	-23		-19	-16	-11	-6	-3	-5	-6	-21
16	-17	-17	-12	-4	-5	-9	-13	-21	16	-14	-15	-10	-4	-4	-9	-10	-19
	-13	-14	-10	-10	-7	-7	-6	-16		-9	-12	-7	-10	-7	-6	-3	-13
24 – 36	-9	-12	-9	-7	-7	-10	-13	-15	24 – 36	-6	-9	-6	-5	-6	-9	-12	-14
	-7	-10	-8	-8	-9	-9	-11	-15		-3	-6	-6	-7	-8	-9	-10	-14



Code	Motor Frame	DIMENSION REFERENCE (mm)																	X (kg)	Fan Weight (kg)
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	S	T	V		
315	BT4/5/9	315	395	375	235	2.5	25	175	355	66	289	265	315	10	200	8	10	30	0.7	22
	CT5/9	315	395	375	235	2.5	25	175	355	66	289	265	315	10	200	8	10	30	0.7	27
355	BT4/5/9	355	435	375	256	2.5	25	200	395	66	289	305	355	10	225	8	10	30	0.9	24
	CT5/9	355	435	375	256	2.5	25	200	395	66	289	305	355	10	225	8	10	30	0.9	28
400	BT4/5/9	400	480	375	279	2.5	25	225	450	66	289	350	400	10	250	8	12	30	1.0	26
	CT5/9	400	480	375	279	2.5	25	225	450	66	289	350	400	10	250	8	12	30	1.0	30
450	BT4/5/9	450	530	375	306	2.5	25	255	500	66	289	400	450	10	280	8	12	30	1.2	28
	CT5/9	450	530	375	306	2.5	25	255	500	66	289	400	450	10	280	8	12	30	1.2	32
	F2225/45/65	450	530	520	306	3	25	255	500	66	434	400	450	10	280	8	12	30	1.2	44
	F2229/49/69	450	530	520	306	3	25	255	500	66	434	400	450	10	280	8	12	30	1.2	55
500	BT5/9	500	594	375	338	2.5	25	290	560	66	289	450	500	10	315	12	12	30	1.7	28
	CT5/9	500	594	375	338	2.5	25	290	560	66	289	450	500	10	315	12	12	30	1.7	34
	F2225/45/65	500	594	520	338	3	25	290	560	66	434	450	500	10	315	12	12	30	1.7	54
	F2229/49/69	500	594	520	338	3	25	290	560	66	434	450	500	10	315	12	12	30	1.7	65
560	BT5/9	560	654	375	368	2.5	25	330	620	66	289	510	560	10	355	12	12	50	2.0	34
	CT5/9	560	654	375	368	2.5	25	330	620	66	289	510	560	10	355	12	12	50	2.0	38
	F2225/45/65	560	654	520	368	3	25	330	620	66	434	510	560	10	355	12	12	50	2.0	56
	F2229/49/69	560	654	520	368	3	25	330	620	66	434	510	560	10	355	12	12	50	2.0	67
630	BT5/9	630	724	375	403	3	25	375	690	66	289	580	630	10	400	12	12	50	2.5	48
	CT5/9	630	724	375	403	3	25	375	690	66	289	580	630	10	400	12	12	50	2.5	52
	F2225/45/65	630	724	520	403	3	25	375	690	66	434	580	630	10	400	12	12	50	2.5	70
	F2225/49/69	630	724	520	403	3	25	375	690	66	434	580	630	10	400	12	12	50	2.5	81
D132		630	724	520	440	3	25	375	690	66	434	580	630	12	400	12	12	50	4.8	117
		630	724	625	440	3	25	375	690	66	529	580	630	12	400	12	12	50	4.8	195
710	CT5/9	710	804	375	443	3	25	415	770	66	259	660	710	10	440	16	12	50	4.5	54
	F2225/45/65	710	804	520	443	3	25	415	770	66	404	660	710	10	440	16	12	50	4.5	74
	F2229/49/69	710	804	520	443	3	25	415	770	66	404	660	710	10	440	16	12	50	4.5	85
	D132	710	804	520	480	4	25	415	770	66	402	660	710	12	440	16	12	50	5.3	139
D160 *		710	804	625	480	5	45	415	770	124	505	660	710	10	440	16	12	50	5.3	205
	D180 *	710	804	711	480	6	45	415	770	124	589	660	710	16	450	16	12	50	7.4	280
800	CT5/9	800	894	375	488	3	25	485	860	66	259	750	800	10	510	16	12	50	7.0	63
	F2225/45/65	800	894	520	488	3	25	485	860	66	404	750	800	10	510	16	12	50	7.0	83
	F2229/49/69	800	894	520	488	3	25	485	860	66	404	750	800	10	510	16	12	50	7.0	94
	D132	800	894	520	525	5	45	485	860	124	400	750	800	12	510	16	12	50	7.0	163
D160		800	894	625	525	5	45	485	860	124	499	750	800	12	510	16	12	50	7.0	220
	D180 *	800	894	711	525	6	45	485	860	124	589	750	800	12	510	16	12	50	8.5	300
900	F2225/45/65	900	1006	520	538	3	25	491	970	66	444	850	900	10	518	16	15	50	4.5	88
	F2229/49/69	900	1006	520	538	3	25	491	970	66	444	850	900	10	518	16	15	50	4.5	99
	D132	900	1006	520	575	5	45	491	970	124	444	850	900	12	518	16	15	50	5.3	183
	D160	900	1006	625	575	5	45	491	970	124	539	850	900	12	518	16	15	50	5.3	252
1000	F2225/45/65	1000	1106	520	588	3	25	547	1070	66	444	950	1000	10	574	16	15	50	5.3	96
	F2229/49/69	1000	1106	520	588	3	25	547	1070	66	444	950	1000	10	574	16	15	50	5.3	107
	D132	1000	1106	520	625	5	45	547	1070	124	444	950	1000	12	574	16	15	50	6.2	198
	D160	1000	1106	625	625	5	45	547	1070	124	539	950	1000	12	574	16	15	50	6.2	268
D180 *		1000	1106	711	625	6	45	547	1070	124	629	950	1000	12	574	16	15	50	12.5	328

T/BOX D200, W200, W225, W250 FRAMES



Code	Motor Frame																	Fan Weight (kg)	Fan Weight (kg)
		A	B	C	D	E	G	H	K	L	M	N	P	S	T	V	X (kg)	400 Hub	500 Hub
1000	DF132/M/MA/MS/MK/MSA/MSB	1000	1106	610	629	5	547	1070	530	950	1000	16	574	16	15	50	12.5	230	
1000	D132/18 - 26	1000	1106	610	629	5	547	1070	530	950	1000	16	574	16	15	50	12.5	200	
1000	W132/M	1000	1106	610	629	5	547	1070	530	950	1000	16	574	16	15	50	12.5	199	
1000	DF160/MA/MB/L/LM	1000	1106	750	630	6	547	1070	668	950	1000	16	574	16	15	50	12.5	324	
1000	D160/20 - 40	1000	1106	750	630	6	547	1070	668	950	1000	16	574	16	15	50	12.5	321	
1000	DF160/LKE	1000	1106	750	630	6	547	1070	668	950	1000	16	574	16	15	50	12.5	330	
1000	W160/L	1000	1106	750	630	6	547	1070	668	950	1000	16	574	16	15	50	12.5	276	
1000	DF180/L/LM/LAN/LBN	1000	1106	800	630	6	547	1070	718	950	1000	16	574	16	15	50	12.5	420	
1000	D180/40	1000	1106	800	630	6	547	1070	718	950	1000	16	574	16	15	50	12.5	403	
1000	W180/L	1000	1106	800	630	6	547	1070	718	950	1000	16	574	16	15	50	12.5	407	
1000	D200/36 - 46	1000	1106	900	688	6	547	1070	818	950	1000	16	574	16	15	50	12.5	547	
1000	D200/51/57	1000	1106	900	688	6	547	1070	818	950	1000	16	574	16	15	50	12.5	582	
1000	W200/LF/LFR/LFG	1000	1106	900	688	6	547	1070	818	950	1000	16	574	16	15	50	12.5	520	
1000	W225/M/MF	1000	1106	950	688	6	547	1070	868	950	1000	16	574	16	15	50	12.5	613	
1120	DF132/M/MA/MS/MK/MSA/MSB	1120	1258	610	690	6	685	1190	468	1070	1120	14	710	20	15	50	16.5	267	282
1120	D132/18 - 26	1120	1258	610	690	6	685	1190	468	1070	1120	14	710	20	15	50	16.5	237	252
1120	W132/M	1120	1258	610	690	6	685	1190	468	1070	1120	14	710	20	15	50	16.5	236	203
1120	DF160/MA/MB/L/LM	1120	1258	750	690	6	685	1190	608	1070	1120	14	710	20	15	50	16.5	376	391
1120	D160/20 - 40	1120	1258	750	690	6	685	1190	608	1070	1120	14	710	20	15	50	16.5	372	387
1120	DF160/LKE	1120	1258	750	690	6	685	1190	608	1070	1120	14	710	20	15	50	16.5	381	396
1120	W160/L	1120	1258	750	690	6	685	1190	608	1070	1120	14	710	20	15	50	16.5	327	342
1120	DF180/L/LM/LAN/LBN	1120	1258	800	690	6	685	1190	658	1070	1120	14	710	20	15	50	16.5	445	460
1120	D180/40	1120	1258	800	690	6	685	1190	658	1070	1120	14	710	20	15	50	16.5	428	443
1120	W180/L	1120	1258	800	690	6	685	1190	658	1070	1120	14	710	20	15	50	16.5	432	447
1120	D200/36 - 46	1120	1258	900	748	6	685	1190	758	1070	1120	14	710	20	15	50	16.5	576	591
1120	D200/51/57	1120	1258	900	748	6	685	1190	758	1070	1120	14	710	20	15	50	16.5	611	626
1120	W200/LF/LFR/LFG	1120	1258	900	748	6	685	1190	758	1070	1120	14	710	20	15	50	16.5	549	564
1120	W225/M/MF	1120	1258	950	748	6	685	1190	808	1070	1120	14	710	20	15	50	16.5	643	658
1120	W250/M/MF	1120	1258	1050	748	6	685	1190	908	1070	1120	14	710	20	15	50	16.5	851	866

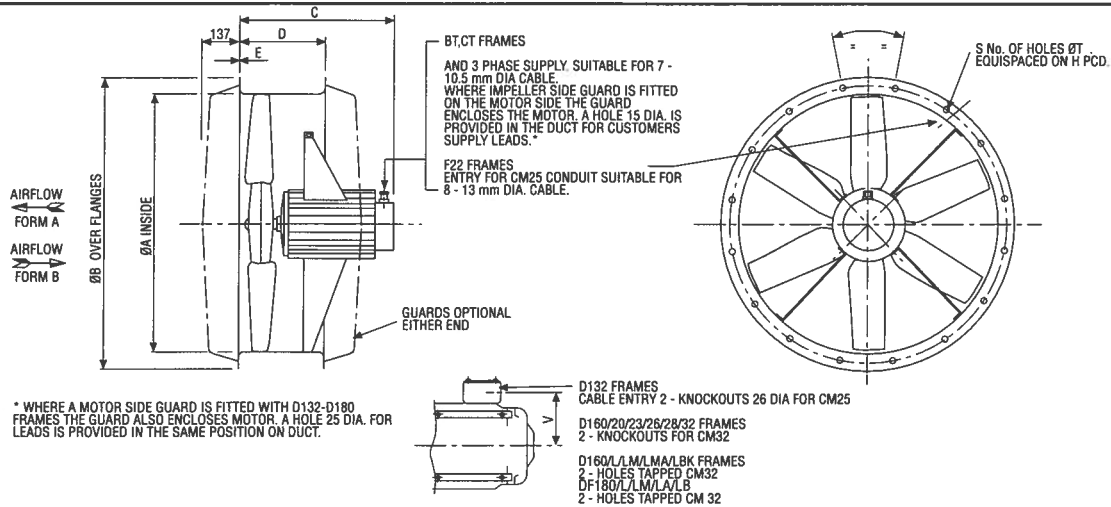
DIMENSIONS AND WEIGHTS

LONG CASED 1000-1600 DIA 400 & 500 HUB

Code	Motor Frame	DIMENSION REFERENCE (mm)																Fan Weight (kg) 400 Hub	Fan Weight (kg) 500 Hub
		A	B	C	D	E	G	H	K	L	M	N	P	S	T	V	X (kg)		
1250	DF132/M/MA/MS/MK/MSA/MSB	1250	1388	610	755	6	750	1320	468	1150	1250	14	800	20	15	50	20.6	284	300
1250	D132/18 - 26	1250	1388	610	755	6	750	1320	468	1150	1250	14	800	20	15	50	20.6	254	270
1250	W132/M	1250	1388	610	755	6	750	1320	468	1150	1250	14	800	20	15	50	20.6	253	269
1250	DF160/MA/MB/L/LM	1250	1388	750	755	6	750	1320	608	1150	1250	14	800	20	15	50	20.6	398	413
1250	D160/20 - 40	1250	1388	750	755	6	750	1320	608	1150	1250	14	800	20	15	50	20.6	394	411
1250	DF160/LKE	1250	1388	750	755	6	750	1320	608	1150	1250	14	800	20	15	50	20.6	403	418
1250	W160/L	1250	1388	750	755	6	750	1320	608	1150	1250	14	800	20	15	50	20.6	349	364
1250	DF180/L/LM/LAN/LBN	1250	1388	800	755	6	750	1320	658	1150	1250	14	800	20	15	50	20.6	467	482
1250	D180/40	1250	1388	800	755	6	750	1320	658	1150	1250	14	800	20	15	50	20.6	450	465
1250	W180/L	1250	1388	800	755	6	750	1320	658	1150	1250	14	800	20	15	50	20.6	454	469
1250	D200/36/38/40/46	1250	1388	900	813	6	750	1320	758	1150	1250	14	800	20	15	50	20.6	603	617
1250	D200/51/57	1250	1388	900	813	6	750	1320	758	1150	1250	14	800	20	15	50	20.6	638	652
1250	W200/LF/LFR/LFG	1250	1388	900	813	6	750	1320	758	1150	1250	14	800	20	15	50	20.6	575	589
1250	W225/M/MF	1250	1388	950	813	6	750	1320	808	1150	1250	14	800	20	15	50	20.6	670	686
1250	W250/M/MF	1250	1388	1050	813	6	750	1320	908	1150	1250	14	800	20	15	50	20.6	879	896
1400	DF132/M/MA/MS/MSA/MSB	1400	1538	610	830	6	850	1470	468	1300	1400	14	900	20	15	50	34.3	319	338
1400	D132/18 - 26	1400	1538	610	830	6	850	1470	468	1300	1400	14	900	20	15	50	34.3	289	308
1400	W132/M	1400	1538	610	830	6	850	1470	468	1300	1400	14	900	20	15	50	34.3	288	307
1400	DF160/MA/MB/L/LM	1400	1538	750	830	6	850	1470	608	1300	1400	14	900	20	15	50	34.3	446	464
1400	D160/20 - 40	1400	1538	750	830	6	850	1470	608	1300	1400	14	900	20	15	50	34.3	442	460
1400	DF160/LKE	1400	1538	750	830	6	850	1470	608	1300	1400	14	900	20	15	50	34.3	451	469
1400	W160/L	1400	1538	750	830	6	850	1470	608	1300	1400	14	900	20	15	50	34.3	397	415
1400	DF180/L/LM/LAN/LBN	1400	1538	800	830	6	850	1470	658	1300	1400	14	900	20	15	50	34.3	516	534
1400	D180/40	1400	1538	800	830	6	850	1470	658	1300	1400	14	900	20	15	50	34.3	499	517
1400	W180/L	1400	1538	800	830	6	850	1470	658	1300	1400	14	900	20	15	50	34.3	503	521
1400	D200/36 - 46	1400	1538	900	888	6	850	1470	758	1300	1400	14	900	20	15	50	34.3	641	658
1400	D200/51/57	1400	1538	900	888	6	850	1470	758	1300	1400	14	900	20	15	50	34.3	676	693
1400	W200/LF/LFR/LFG	1400	1538	900	888	6	850	1470	758	1300	1400	14	900	20	15	50	34.3	550	567
1400	W225/M/MF	1400	1538	950	888	6	850	1470	808	1300	1400	14	900	20	15	50	34.3	711	730
1400	W250/M/MF	1400	1538	1050	888	6	850	1470	908	1300	1400	14	900	20	15	50	34.3	872	892
1600	DF132/M/MA/MS/MSA/MSB	1600	1760	610	930	6	950	1680	468	1500	1600	14	1000	24	20	50	40.7	354	374
1600	D132/18 - 26	1600	1760	610	930	6	950	1680	468	1500	1600	14	1000	24	20	50	40.7	324	344
1600	W132/M	1600	1760	610	930	6	950	1680	468	1500	1600	14	1000	24	20	50	40.7	323	343
1600	DF160/MA/MB/L/LM	1600	1760	750	930	6	950	1680	608	1500	1600	14	1000	24	20	50	40.7	472	490
1600	D160/20 - 40	1600	1760	750	930	6	950	1680	608	1500	1600	14	1000	24	20	50	40.7	468	486
1600	DF160/LKE	1600	1760	750	930	6	950	1680	608	1500	1600	14	1000	24	20	50	40.7	476	494
1600	W160/L	1600	1760	750	930	6	950	1680	608	1500	1600	14	1000	24	20	50	40.7	423	441
1600	DF180/L/LM/LAN/LBN	1600	1760	800	930	6	950	1680	658	1500	1600	14	1000	24	20	50	40.7	559	578
1600	D180/40	1600	1760	800	930	6	950	1680	658	1500	1600	14	1000	24	20	50	40.7	642	661
1600	W180/L	1600	1760	800	930	6	950	1680	658	1500	1600	14	1000	24	20	50	40.7	546	565
1600	D200/36/38/40/46	1600	1760	900	988	6	950	1680	758	1500	1600	14	1000	24	20	50	40.7	688	706
1600	D200/51/57	1600	1760	900	988	6	950	1680	758	1500	1600	14	1000	24	20	50	40.7	723	741
1600	W200/LF/LFR/LFG	1600	1760	900	988	6	950	1680	758	1500	1600	14	1000	24	20	50	40.7	660	678
1600	W225/M/MF	1600	1760	950	988	6	950	1680	808	1500	1600	14	1000	24	20	50	40.7	758	777
1600	W250/M/MF	1600	1760	1050	988	6	950	1680	908	1500	1600	14	1000	24	20	50	40.7	973	993

DIMENSIONS AND WEIGHTS

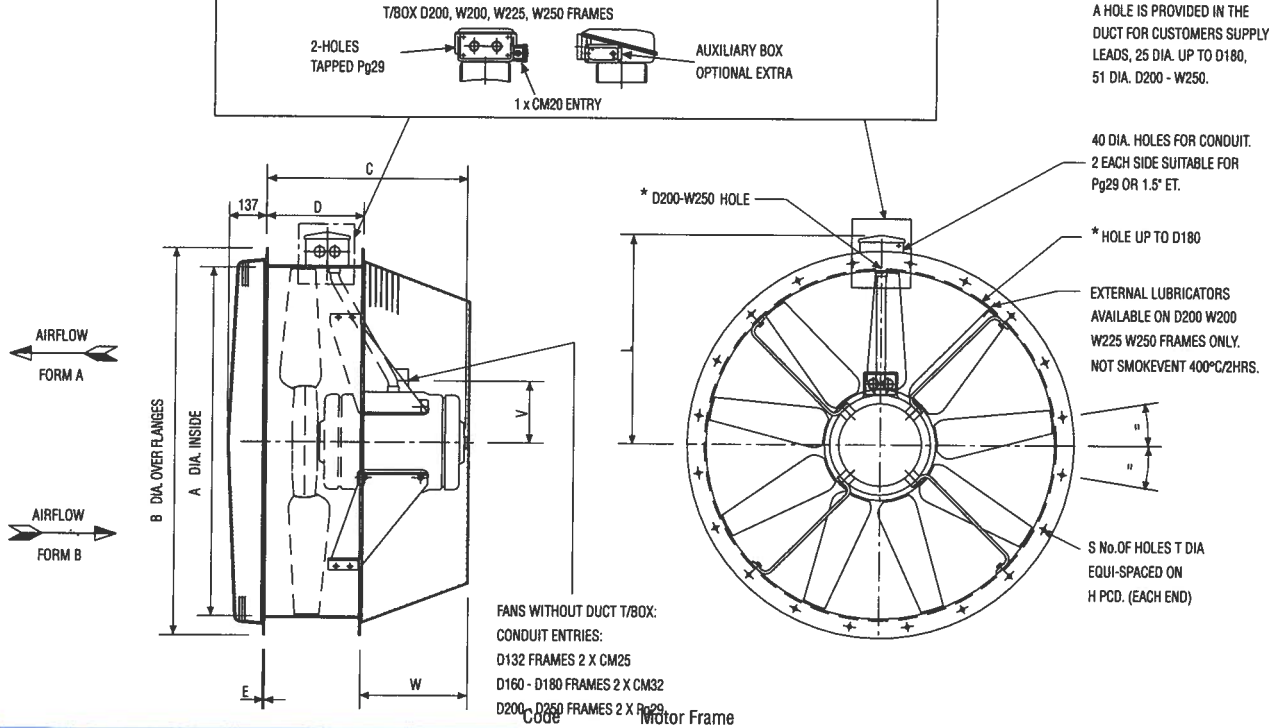
SHORT CASED 315 - 1000 DIA - UP TO 315 HUB



Code	Motor Frame	DIMENSION REFERENCE (mm)									Fan Weight (kg)
		A	B	C	D	E	H	S	T	V	
315	BT4/5	315	395	301	225	2.5	355	8	10	-	13.5
	BT9	315	395	333	225	2.5	355	8	10	-	15
	CT5	315	395	308	225	2.5	355	8	10	-	15.5
	CT9	315	395	348	225	2.5	355	8	10	-	20
355	BT4/5	355	435	301	225	2.5	395	8	10	-	14
	BT9	355	435	333	225	2.5	395	8	10	-	15.5
	CT5	355	435	308	225	2.5	395	8	10	-	16.5
	CT9	355	435	348	225	2.5	395	8	10	-	20.5
400	BT4/5	400	480	301	225	2.5	450	8	12	-	15
	BT9	400	480	333	225	2.5	450	8	12	-	16.5
	CT5	400	480	308	225	2.5	450	8	12	-	17
	CT9	400	480	348	225	2.5	450	8	12	-	21
450	BT4/5	450	530	301	225	2.5	500	8	12	-	17
	BT9	450	530	333	225	2.5	500	8	12	-	18.5
	CT5	450	530	308	225	2.5	500	8	12	-	19
	CT9	450	530	348	225	2.5	500	8	12	-	23
	F2225/45/65	450	530	404	225	3	500	8	12	-	33
	F2229/49/69	450	530	459	225	3	500	8	12	-	44
500	BT5	500	594	301	225	2.5	560	12	12	-	19
	BT9	500	594	333	225	2.5	560	12	12	-	20
	CT5	500	594	308	225	2.5	560	12	12	-	20.5
	CT9	500	594	348	225	2.5	560	12	12	-	25
	F2225/45/65	500	594	404	225	3	560	12	12	-	36
	F2229/49/69	500	594	459	225	3	560	12	12	-	47
560	BT5	560	654	301	225	2.5	620	12	12	-	20
	BT9	560	654	333	225	2.5	620	12	12	-	21.5
	CT5	560	654	308	225	2.5	620	12	12	-	22
	CT9	560	654	348	225	2.5	620	12	12	-	26
	F2225/45/65	560	654	404	225	3	620	12	12	-	38
	F2229/45/69	560	654	459	225	3	620	12	12	-	49
630	BT5	630	724	301	225	3	690	12	12	-	34
	BT9	630	724	333	225	3	690	12	12	-	35.5
	CT5	630	724	308	225	3	690	12	12	-	36
	CT9	630	724	348	225	3	690	12	12	-	40
	F2225/45/65	630	724	404	225	3	690	12	12	-	49
	F2229/49/69	630	724	459	225	3	690	12	12	-	60
	D132	630	724	445	260	4	690	12	12	160	94
	D160 *	630	724	575	260	4	690	12	12	200	172
	D180 *	630	724	656	350	6	690	12	12	243	287
710	CT5	710	804	308	225	3	770	16	12	-	38
	CT9	710	804	348	225	3	770	16	12	-	42
	F2225/45/65	710	804	404	225	3	770	16	12	-	52
	F2229/49/69	710	804	459	225	3	770	16	12	-	63
	D132	710	804	445	260	4	770	16	12	160	102
	D160 *	710	804	609	300	5	770	16	12	201	185
	D180 *	710	804	665	350	6	770	16	12	243	287
800	CT5	800	894	308	225	3	860	16	12	-	43
	CT9	800	894	348	225	3	860	16	12	-	47
	F2225/45/65	800	894	404	225	3	860	16	12	-	58
	F2229/49/69	800	894	459	225	3	860	16	12	-	58
	D132	800	894	445	260	4	860	16	12	160	132
	D160	800	894	575	260	4	860	16	12	200	189
	D180 *	800	894	665	350	6	860	16	12	243	295
900	F2225/45/65	900	1006	404	225	3	970	16	15	-	60
	F2229/49/69	900	1006	459	225	3	970	16	15	-	71
	D132	900	1006	445	300	5	970	16	15	160	138
	D160	900	1006	575	300	5	970	16	15	200	207
1000	F2225/45/65	1000	1106	404	225	3	1070	16	15	-	65
	F2229/49/69	1000	1106	459	225	3	1070	16	15	-	76
	D132	1000	1106	445	300	5	1070	16	15	160	146
	D160	1000	1106	575	300	5	1070	16	15	200	217
	D180 *	1000	1106	700	350	6	1070	16	15	243	350

DUCT MOUNTED T/BOX OPTION :

STANDARD ARRANGEMENT. T/BOX FITTED WITH ENTRIES TOWARDS MOTOR END.



		DIMENSION REFERENCE (mm)											Fan Weight (kg) 400 Hub
		A	B	C	D	E	H	L	S	T	V	W	
1000	DF132/M/MA/MA/MSA/MSB/MK	1000	1106	558	350	5	1070	629	16	15	175	262	205
1000	D132/18 - 26	1000	1106	518	350	5	1070	629	16	15	158	262	173
1000	W132/M	1000	1106	520	350	5	1070	629	16	15	155	262	174
1000	DF160/MA/MB/L/LM/AK/BK	1000	1106	628	350	6	1070	630	16	15	219	372	292
1000	DF160/LKE	1000	1106	687	350	6	1070	630	16	15	219	372	298
1000	D160/18 - 38	1000	1106	625	350	6	1070	630	16	15	201	372	290
1000	D160/40	1000	1106	685	350	6	1070	630	16	15	201	372	295
1000	W160/L	1000	1106	626	350	6	1070	630	16	15	196	372	243
1000	DF180/L/LM	1000	1106	680	350	6	1070	630	16	15	243	372	348
1000	DF180/LAN/LBN	1000	1106	720	350	6	1070	630	16	15	243	427	364
1000	D180/29 - 35	1000	1106	718	350	6	1070	630	16	15	243	427	334
1000	D180/40	1000	1106	742	350	6	1070	630	16	15	243	427	347
1000	W180/L	1000	1106	682	350	6	1070	630	16	15	216	372	351
1000	D200/36 - 46	1000	1106	785	350	6	1070	688	16	15	263	527	458
1000	D200/51/57	1000	1106	856	350	6	1070	688	16	15	281	527	493
1000	W200/LF/LFR/LFG	1000	1106	835	350	6	1070	688	16	15	275	527	429
1000	W225/M/MF	1000	1106	878	350	6	1070	688	16	15	295	572	518
1000	W250/M/MF	1000	1106	992	350	6	1070	688	16	15	325	702	713
1120	DF132/M/MA/MS/MSA/MSB/MK	1120	1258	558	350	6	1190	690	20	15	175	262	220
1120	D132/18 - 26	1120	1258	518	350	6	1190	690	20	15	158	262	187
1120	W132/M	1120	1258	520	350	6	1190	690	20	15	155	262	188
1120	DF160/MA/MB/L/LM/AK/BK	1120	1258	628	350	6	1190	690	20	15	219	372	300
1120	DF160/LKE	1120	1258	687	350	6	1190	690	20	15	219	372	305
1120	D160/18 - 38	1120	1258	625	350	6	1190	690	20	15	201	372	295
1120	D160/40	1120	1258	685	350	6	1190	690	20	15	201	372	301
1120	W160/L	1120	1258	626	350	6	1190	690	20	15	196	372	251
1120	DF180/L/LM	1120	1258	680	350	6	1190	690	20	15	243	372	348
1120	DF180/LAN/LBN	1120	1258	720	350	6	1190	690	20	15	243	427	364
1120	D180/29 - 35	1120	1258	718	350	6	1190	690	20	15	243	427	351
1120	D180/40	1120	1258	742	350	6	1190	690	20	15	243	427	364
1120	W180/L	1120	1258	682	350	6	1190	690	20	15	216	372	353
1120	D200/36 - 46	1120	1258	785	350	6	1190	748	20	15	263	527	477
1120	D200/51/57	1120	1258	856	350	6	1190	748	20	15	281	527	511
1120	W200/LF/LFR/LFG	1120	1258	835	350	6	1190	748	20	15	275	527	447
1120	W225/M/MF	1120	1258	878	350	6	1190	748	20	15	295	572	537
1120	W250/M/MF	1120	1258	992	350	6	1190	748	20	15	325	702	728

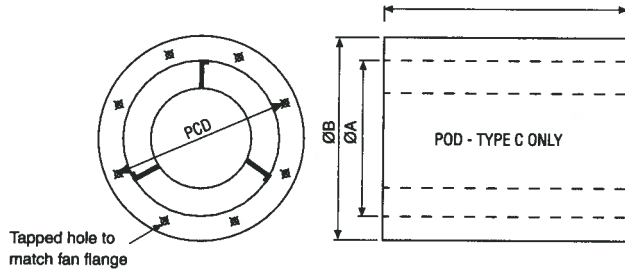
DIMENSIONS AND WEIGHTS

SHORT CASED 1000-1600 DIA 400 & 500 HUB

Code	Motor Frame	DIMENSION REFERENCE (mm)											Fan Weight (kg) 400 Hub	Fan Weight (kg) 500 Hub
		A	B	C	D	E	H	L	S	T	V			
1250	DF132/M/MA/MS/MK/MSA/MSB	1250	1388	558	350	6	1320	755	20	15	175	262	232	248
1250	D132/18 - 26	1250	1388	518	350	6	1320	755	20	15	158	262	200	216
1250	W132/M	1250	1388	520	350	6	1320	755	20	15	155	262	201	217
1250	DF160/MA/MB/L/LM/AK/BK	1250	1388	628	350	6	1320	755	20	15	219	372	312	327
1250	DF160/LKE	1250	1388	687	350	6	1320	755	20	15	219	372	317	332
1250	D160/18 - 38	1250	1388	625	350	6	1320	755	20	15	201	372	304	320
1250	D160/40	1250	1388	685	350	6	1320	755	20	15	201	372	309	326
1250	W160/L	1250	1388	626	350	6	1320	755	20	15	196	372	263	278
1250	DF180/L/LM	1250	1388	680	350	6	1320	755	20	15	243	372	365	380
1250	DF180/LAN/LBN	1250	1388	720	350	6	1320	755	20	15	243	427	381	396
1250	D180/29 - 35	1250	1388	718	350	6	1320	755	20	15	243	427	368	383
1250	D180/40	1250	1388	742	350	6	1320	755	20	15	243	427	381	396
1250	W180/L	1250	1388	682	350	6	1320	755	20	15	216	372	370	385
1250	D200/36 - 46	1250	1388	785	350	6	1320	813	20	15	263	527	491	505
1250	D200/51/57	1250	1388	856	350	6	1320	813	20	15	281	527	525	539
1250	W200/LF/LFR/LFG	1250	1388	835	350	6	1320	813	20	15	275	527	488	498
1250	W225/M/MF	1250	1388	878	350	6	1320	813	20	15	295	572	551	567
1250	W250/M/MF	1250	1388	992	350	6	1320	813	20	15	325	702	742	759
1400	DF132/M/MA/MS/MSA/MSB	1400	1538	558	350	6	1470	830	20	15	175	262	259	268
1400	D132/18 - 26	1400	1538	518	350	6	1470	830	20	15	158	262	227	236
1400	W132/M	1400	1538	520	350	6	1470	830	20	15	155	262	228	237
1400	DF160/MA/MB/L/LM/AK/BK	1400	1538	628	350	6	1470	830	20	15	219	372	342	350
1400	DF160/LKE	1400	1538	687	350	6	1470	830	20	15	219	372	347	355
1400	D160/18 - 38	1400	1538	625	350	6	1470	830	20	15	201	372	334	342
1400	D160/40	1400	1538	685	350	6	1470	830	20	15	201	372	340	348
1400	W160/L	1400	1538	626	350	6	1470	830	20	15	196	372	293	301
1400	DF180/L/LM	1400	1538	680	350	6	1470	830	20	15	243	372	389	401
1400	DF180/LAN/LBN	1400	1538	720	350	6	1470	830	20	15	243	427	404	413
1400	D180/29 - 35	1400	1538	718	350	6	1470	830	20	15	243	427	392	401
1400	D180/40	1400	1538	742	350	6	1470	830	20	15	243	427	405	413
1400	W180/L	1400	1538	682	350	6	1470	830	20	15	216	372	394	402
1400	D200/36 - 46	1400	1538	785	350	6	1470	888	20	15	263	527	515	524
1400	D200/51/57	1400	1538	856	350	6	1470	888	20	15	281	527	549	558
1400	W200/LF/LFR/LFG	1400	1538	835	350	6	1470	888	20	15	275	527	485	494
1400	W225/M/MF	1400	1538	878	350	6	1470	888	20	15	295	572	575	584
1400	W250/M/MF	1400	1538	992	350	6	1470	888	20	15	325	702	767	779
1600	DF132/M/MA/MS/MSA/MSB	1600	1760	558	350	6	1680	930	24	20	175	262	285	304
1600	D132/18 - 26	1600	1760	518	350	6	1680	930	24	20	158	262	253	272
1600	W132/M	1600	1760	520	350	6	1680	930	24	20	155	262	254	273
1600	DF160/MA/MB/L/LM/AK/BK	1600	1760	628	350	6	1680	930	24	20	219	372	365	383
1600	DF160/LKE	1600	1760	687	350	6	1680	930	24	20	219	372	370	388
1600	D160/18 - 38	1600	1760	625	350	6	1680	930	24	20	201	372	359	367
1600	D160/40	1600	1760	685	350	6	1680	930	24	20	201	372	364	372
1600	W160/L	1600	1760	626	350	6	1680	930	24	20	196	372	316	334
1600	DF180/L/LM	1600	1760	680	350	6	1680	930	24	20	243	372	412	432
1600	DF180/LAN/LBN	1600	1760	720	350	6	1680	930	24	20	243	427	428	447
1600	D180/29 - 35	1600	1760	718	350	6	1680	930	24	20	243	427	415	434
1600	D180/40	1600	1760	742	350	6	1680	930	24	20	243	427	428	447
1600	W180/L	1600	1760	682	350	6	1680	930	24	20	216	372	417	436
1600	D200/36 - 46	1600	1760	785	350	6	1680	988	24	20	263	527	544	562
1600	D200/51/57	1600	1760	856	350	6	1680	988	24	20	281	527	578	596
1600	W200/LF/LFR/LFG	1600	1760	835	350	6	1680	988	24	20	275	527	514	532
1600	W225/M/MF	1600	1760	878	350	6	1680	988	24	20	295	572	605	624
1600	W250/M/MF	1600	1760	992	350	6	1680	988	24	20	325	702	796	816

ANCILLARIES

SILENCER - B TYPE



Suitable for fan ØA	B	C	Weight (kg)	
			B type	C type
315	415	315	10	13
355	455	355	12	15
400	500	400	15	18
450	600	450	20	24
500	650	500	25	29
560	710	560	30	35
630	780	630	35	42
710	860	710	44	53
800	1000	800	55	66
900	1100	900	70	84
1000	1200	1000	82	100
1120	1320	1120	100	118
1250	1450	1219	127	147
1400	1600	1400	193	220
1600	1800	1600	311	362

The above silencers give the approximate dB(A) reductions:-

B Type 1 diameter length - 7 to 10 dB(A)

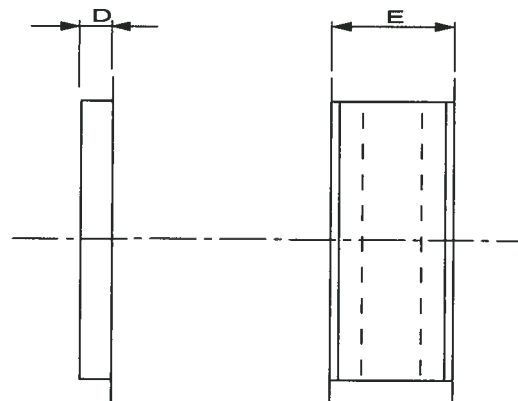
C Type 1 diameter length - 12 to 15 dB(A)

For full acoustic details contact our

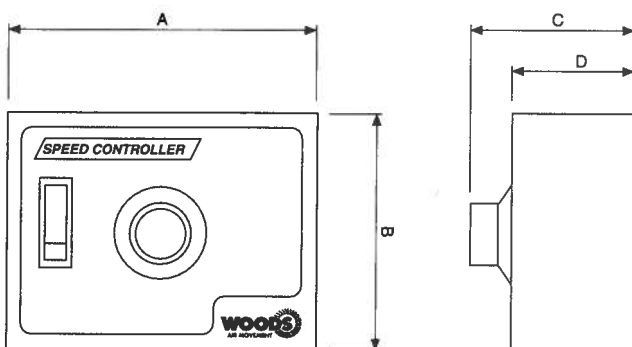
Woods Acoustic Division. Tel: +44 (0) 1206 544122

Suitable for fan ØA	D	E	F	G	Weight (kg)		
					Matching Flange	Flexible Connection	Damper
315	32	110	225	-	1.1	3.3	8
355	32	110	225	-	1.3	3.9	9
400	32	110	225	17	1.5	4.5	10
450	32	110	225	39	1.7	5.0	12
500	32	110	225	75	2.0	5.5	16
560	32	110	225	125	2.3	6.8	18
630	50	160	225	176	3.0	7.5	20
710	50	160	225	210	3.2	8.1	23
800	50	160	225	270	3.6	9.1	27
900	50	160	225	305	4.1	10.4	31
1000	50	160	225	345	4.6	11.6	36
1120	51	165	400	225	5.2	12.9	150
1250	51	165	400	290	5.8	14.4	166
1400	51	165	430	335	11.9	24.4	270
1600	51	165	435	435	14.8	30.3	300

MATCHING FLEXIBLE DAMPER FLANGE CONNECTION



SPEED CONTROLLER



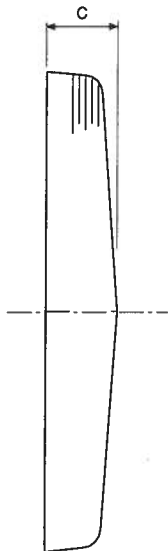
Type	A	B	C	D
ME1.1	104	83	55	40
ME1.3	148	87	62	47
ME1.6	148	87	62	47
MT1.1	124	124	60	52
MT1.5	160	270	196	161
MT1.8	160	270	196	161
MT3.0.5	160	270	196	161
MT3.1	160	270	196	161
MT3.2	160	270	196	161
ME3.2D	225	192	96	80
ME1.12	210	180	81	65
MT1.12	236	316	188	153

All dimensions in mm and kgs

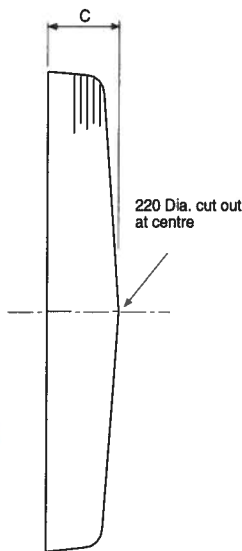
ANCILLARIES

GUARDS

TYPE I
Impeller Side (all)
& Motor Side
(BT & CT)



TYPE II
Motor Side (S Type)
(F22)



TYPE III
Motor Side (S Type)
(D132 & above)

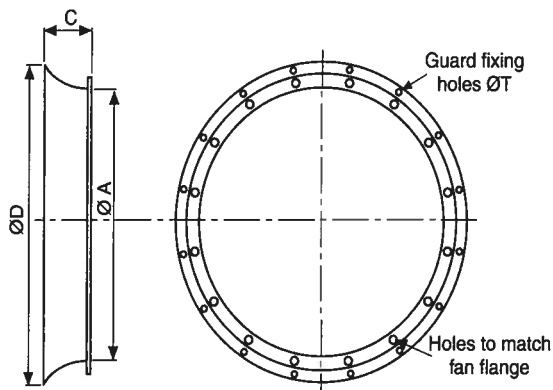


TYPE IV
Bellmouth &
Motor Side 'L'
type (all)



Suitable for fan ØA	Type	C (max.)	Weight kg (max.)
315	I	137	1.2
315	IV	30	0.5
355	I	137	1.4
355	IV	30	0.5
400	I	137	1.6
400	IV	30	0.6
450	I	137	1.8
450	II	137	1.6
450	IV	30	0.6
500	I	137	2.0
500	II	137	1.8
500	IV	30	0.7
560	I	137	2.2
560	II	137	2.0
560	IV	50	1.0
630	I	137	2.8
630	II	137	2.6
630	III	350	3.0
630	IV	50	1.2
710	I	137	3.2
710	II	137	3.0
710	III	350	3.4
710	IV	50	1.4
800	I	137	3.5
800	II	137	3.3
800	III	350	3.9
800	IV	50	1.5
900	I	137	4.2
900	II	137	4.2
900	III	310	4.8
900	IV	50	1.7
1000	I	137	5.0
1000	II	137	4.8
1000	III	310	5.6
1000	IV	50	2.0
1120	I	137	7.1
1120	III	572	11.8
1120	IV	50	6.9
1250	I	137	6.4
1250	III	572	12.0
1250	IV	50	6.4
1400	I	137	8.0
1400	III	572	13.5
1400	IV	50	7.1
1600	I	137	9.0
1600	III	702	18.9
1600	IV	50	8.8

BELLMOUTH



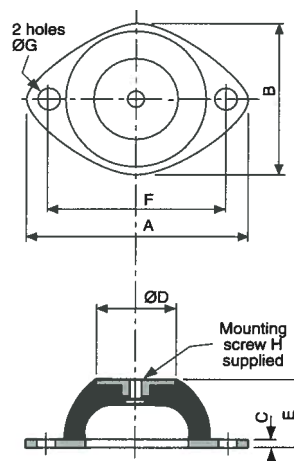
Suitable for fan ØA	C	D	Weight (kg)
315	65	379	1.0
355	85	423	1.2
400	80	480	1.5
450	95	536	2.0
500	87	600	3.2
560	100	668	4.0
630	108	757	4.8
710	126	857	5.4
800	134	957	6.8
900	150	1077	8.0
1000	167	1199	17.8
1120	188	1349	19.9
1250	210	1504	25.0
1400	250	1680	31.0
1600	260	1906	46.0

VIBRATION ISOLATORS

Type	Load range per mounting (kg)	A	B	C	D	E	F	G	H
M7 Green	0-3	64	43	2	15	20	50	7	M6
M7 Black	3-5	64	43	2	15	20	50	7	M6
M25 Green	5-20	85	56	2	30	25	66	8	M8
M25 Black	19-40	85	56	2	30	25	66	8	M8
M200 Green	38-130	151	101	3	55	45	124	11.5	M10
M200 Black	90-220	151	101	3	55	45	124	11.5	

For larger vibration isolators, please enquire

All dimensions in mm and kgs



USEFUL INFORMATION

FAN LAWS

SPEED CHANGE - CONSTANT SIZE - CONSTANT DENSITY

Volume Flow	\propto	Rotational Speed
Pressure (Static, Dynamic and Total)	\propto	(Rotational Speed) ²
Power Absorbed	\propto	(Rotational Speed) ³

SIZE CHANGE - CONSTANT SPEED - CONSTANT DENSITY

(For geometrically similar fans only)

Volume Flow	\propto	(Impeller Diameter) ³
Pressure (Static, Dynamic and Total)	\propto	(Impeller Diameter) ²
Power Absorbed	\propto	(Impeller Diameter) ⁵

DENSITY CHANGE - CONSTANT SPEED - CONSTANT SIZE

Volume Flow	$=$	No change
Pressure (Static, Dynamic and Total)	\propto	Density
Power Absorbed	\propto	Density

The laws can be combined where simultaneous changes in size, speed and density are required.

AIR DENSITY

Standard Air density is 1.2 kg/m³

One condition that gives Standard Air is:-

16°C, 100 kPa barometric pressure, 65% relative humidity

CHANGE DUE TO TEMPERATURE

$$\text{New Density} = \text{Old Density} \times \left(\frac{273 + \text{Old Temperature } ^\circ\text{C}}{273 + \text{New Temperature } ^\circ\text{C}} \right) \text{ kg/m}^3$$

CHANGE DUE TO ALTITUDE

$$\text{New Density} = \text{Old Density} \times \left(\frac{288 - 0.00649 H}{288} \right)^{4.256} \text{ kg/m}^3$$

Where H = Height above sea level in metres

PRESSURE

$$\text{Dynamic Pressure} = 0.5\rho (V)^2 \text{ Pa}$$

Where	ρ	$=$	Air Density	kg/m ³
	V	$=$	Air Velocity	m/s

$$\text{Total Pressure} = \text{Static Pressure} + \text{Dynamic Pressure}$$

ABSORBED POWER

$$\text{Absorbed Power} = \frac{\text{Volume flow (m}^3\text{/s)} \times \text{Total Pressure (Pa)}}{\text{Total Efficiency} \times 10} \text{ kW}$$



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Publication No: JM/SS
March 2000