

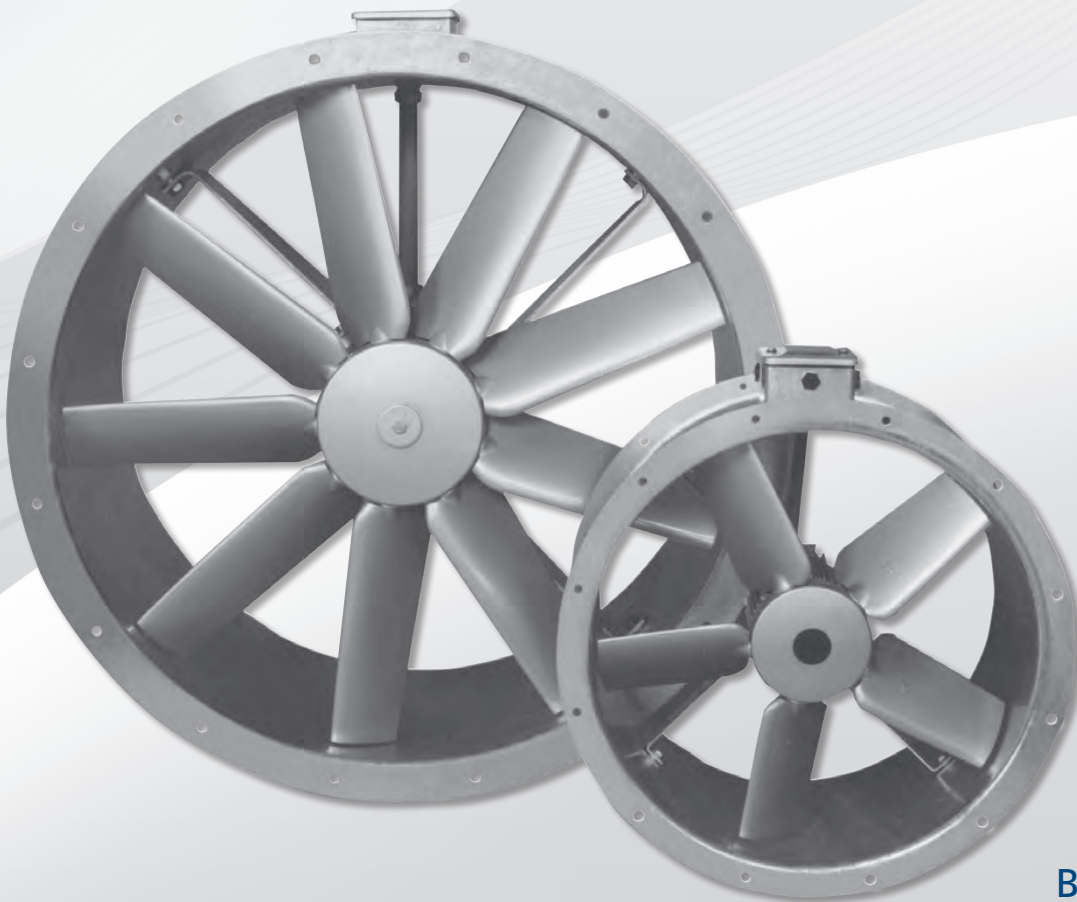


VXDA

High Performance Aerofoil Fan

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BULLETIN VXDA13

INTRODUCTION

VXDA Series of Aerofoil Fans

Benefits of PennBarry's VXDA include compactness, low cost, high efficiency and rugged design. Availability in numerous fan diameters, hub diameters, speeds and blade solidities assures a highly efficient selection for your application.

Extensive sound testing has proved that the PennBarry axial fans have the lowest sound power levels currently available. Both inlet and outlet sound power levels are given for every fan size and speed at the design performance.

FEATURES & BENEFITS

Motors

Motors are cast iron, pad mounted design suitable for horizontal through vertical operation. Motors are 3 phase premium efficiency totally enclosed air over design with 1.15 service factor.

All efficiency testing and labeling is done in accordance with NEMA MG1-12.53 standard. Class F insulation with Class B rise is standard. Bearings are anti-friction grease lubricated ball or roller with 30,000 hour L-10 life minimum.

Electrical Supply and Starting

Standard motors are 3 phase/60 Hz/460V. Other voltages, 50 Hz, and 1 phase are also available. Motors are available for across-the line, Wye-Delta, Part Winding, or Autotransformer starting.

Impellers

Impellers have a unique aerodynamic blade section to optimize efficiency and performance while minimizing the noise. The thin sections obtained by high pressure die cast technique promote efficiency, strength and lower weight.

Impellers are comprised of high pressure die cast aluminium blades, hub and clampplate with fully adjustable pitch angle. All impeller components are X-ray examined to ASTM E-155 prior to machining to assure premium quality.

Impellers are precision balanced as a component and fan assembly is further balanced to minimize vibration levels.

Finish

Parts are cleaned, primed and then finish painted with a premium grade enamel. Hot dipped galvanized, epoxy and other coatings are also available.

Casings

Fan casings are heavy gauge steel with spun flanges and continuously welded seams. They are manufactured to stringent tolerances for roundness assuring proper blade tip clearances required for optimal performance.

Non-overloading

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

Reversal of Airflow

Fans can be reversed for emergency use. Reversal is obtained by interchanging electrical connections. If frequent reversals are necessary, contact the factory. A "truly reversible" impeller can be provided where equal volume in either airflow direction is required.

Accessories

- Motor and Impeller side guards
- Mounting Feet
- Horizontal or vertical suspension clips
- Companion Flanges.
- Flexible Connectors.
- Backdraft Dampers.
- Inlet Bells.
- Vibration Isolators.
- Outlet Cones, Silencers and Acoustical Diffusers

CERTIFICATIONS & LISTINGS



AMCA Certification

PennBarry certifies that the model VXDA fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance ratings only.



UL Certification

VXDA fans carry the UL label for UL 705 Power Ventilators and UL Smoke Control Systems.

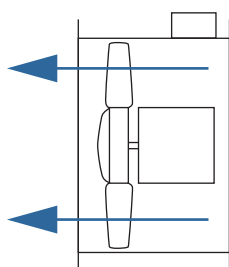
RUNNING & MOUNTING

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

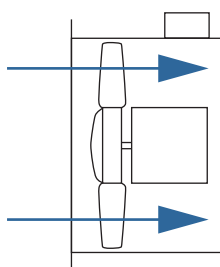
On each chart is shown the standard Form(s) of running for that particular fan, when mounted horizontally. For vertical operation add suffix “U” for airflow up, or suffix “D” for airflow down.

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.

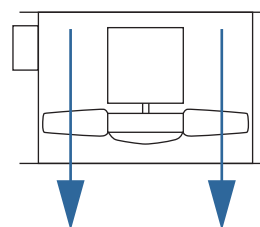
Arrows indicating correct rotation and direction of airflow are incorporated in the duct nameplate.



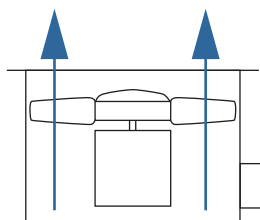
Form A



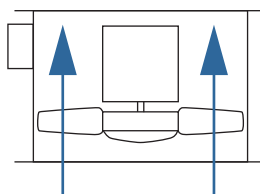
Form B
(Standard)



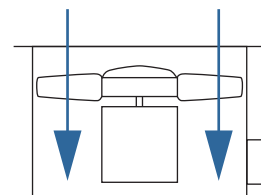
Form AD



Form AU



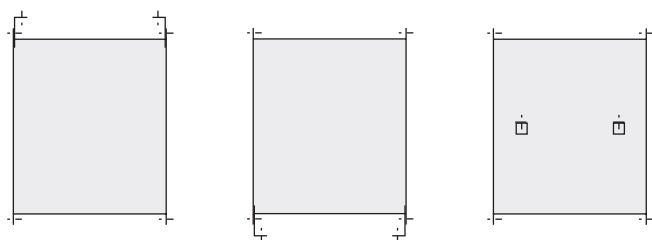
Form BU



Form BD

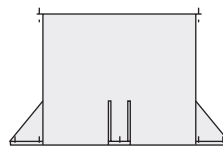
Horizontal Mount

Fans may be floor or ceiling mounted with optional mounting feet. They may also be ceiling suspended with optional horizontal suspension clips.



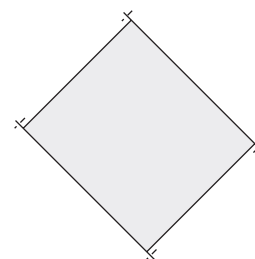
Vertical Mount

Fans may be mounted for vertical up or down airflow. Optional vertical mounting clips are available.



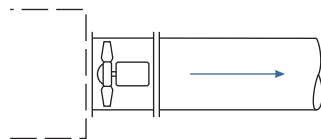
Angular Mount

Fans may be angular mounted at any position. For special mounting clip arrangement, contact factory.

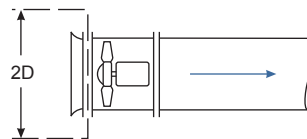


INSTALLATION RECOMMENDATIONS

A sharp-edged fan inlet orifice reduces fan performance.



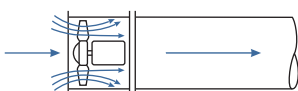
WRONG



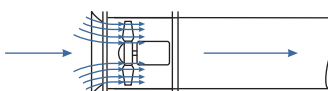
RECOMMENDED

Fit a bell-mouth inlet to the fan.

A flanged fan inlet starves the impeller blade tips of air reducing performance and increasing noise.



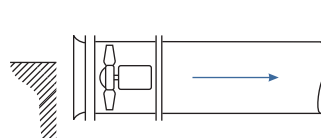
WRONG



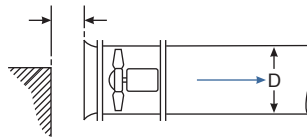
RECOMMENDED

A bellmouth inlet guides air into the impeller blade tips.

Avoid obstructions close to fan inlets. Part of impeller is starved of air.



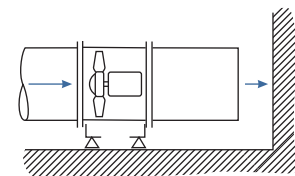
WRONG



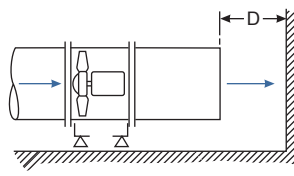
RECOMMENDED

Allow a space of at least one diam. (D) at the fan inlet

Avoid obstruction close to the fan outlet.



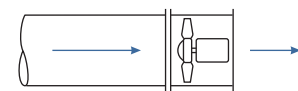
WRONG



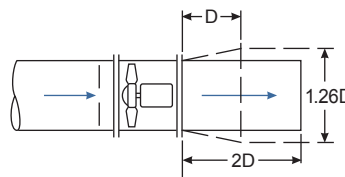
RECOMMENDED

Allow a space of at least the fan diam. (D) at the fan outlet

Avoid fan terminating the discharge end of a system.



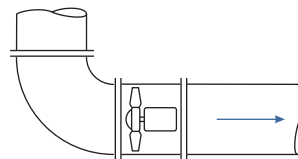
WRONG



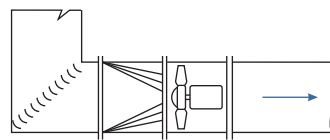
RECOMMENDED

Fit a duct length of 2D or an outlet expander D x 1.26 after the fan at the discharge end. Extra ducting after the expander helps even more. See charts.

Fan performance suffers and noise is increased if a 90° circular section bend of small radius is used.



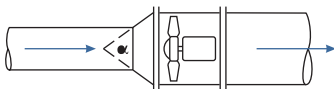
WRONG



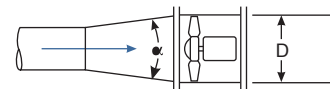
RECOMMENDED

Use a square bend with short chord turning vanes. This is also preferable when air flow is in the opposite direction.

Do not use an expander of 30° or more immediately before or after a fan.



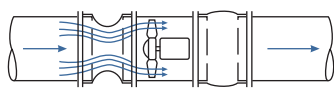
WRONG



RECOMMENDED

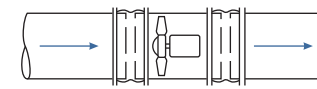
Ideally an expander immediately before a fan should not be more than 15°.

Flexible connectors should not be slack, as this will cause "necking", which will starve the impeller blade tips of air, reduce fan performance, and increase noise.



WRONG

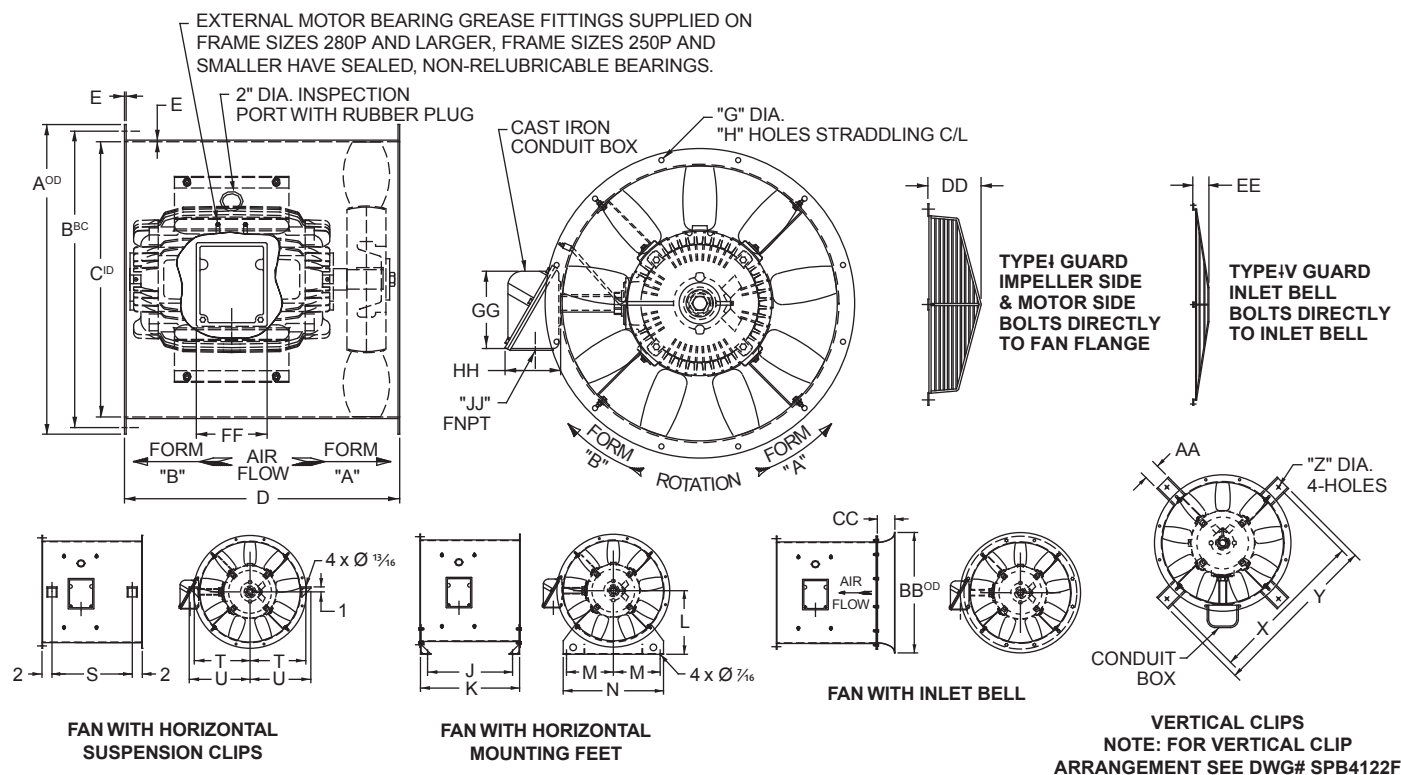
FLEX CONNECTORS



RECOMMENDED

Flexible connectors should be just long enough for mechanical isolation and should be taut.

VXDA 20-24

[illegible]

Dimensions in inches. Metric dimensions in mm.

EXTERNAL MOTOR BEARING GREASE FITTINGS SUPPLIED ON FRAME SIZES 280P AND LARGER, FRAME SIZES 250P AND SMALLER HAVE SEALED, NON-RELUBRICABLE BEARINGS.

2" DIA. INSPECTION PORT WITH RUBBER PLUG

CAST IRON CONDUIT BOX

"G" DIA. "H" HOLES STRADDLING C/L

GG

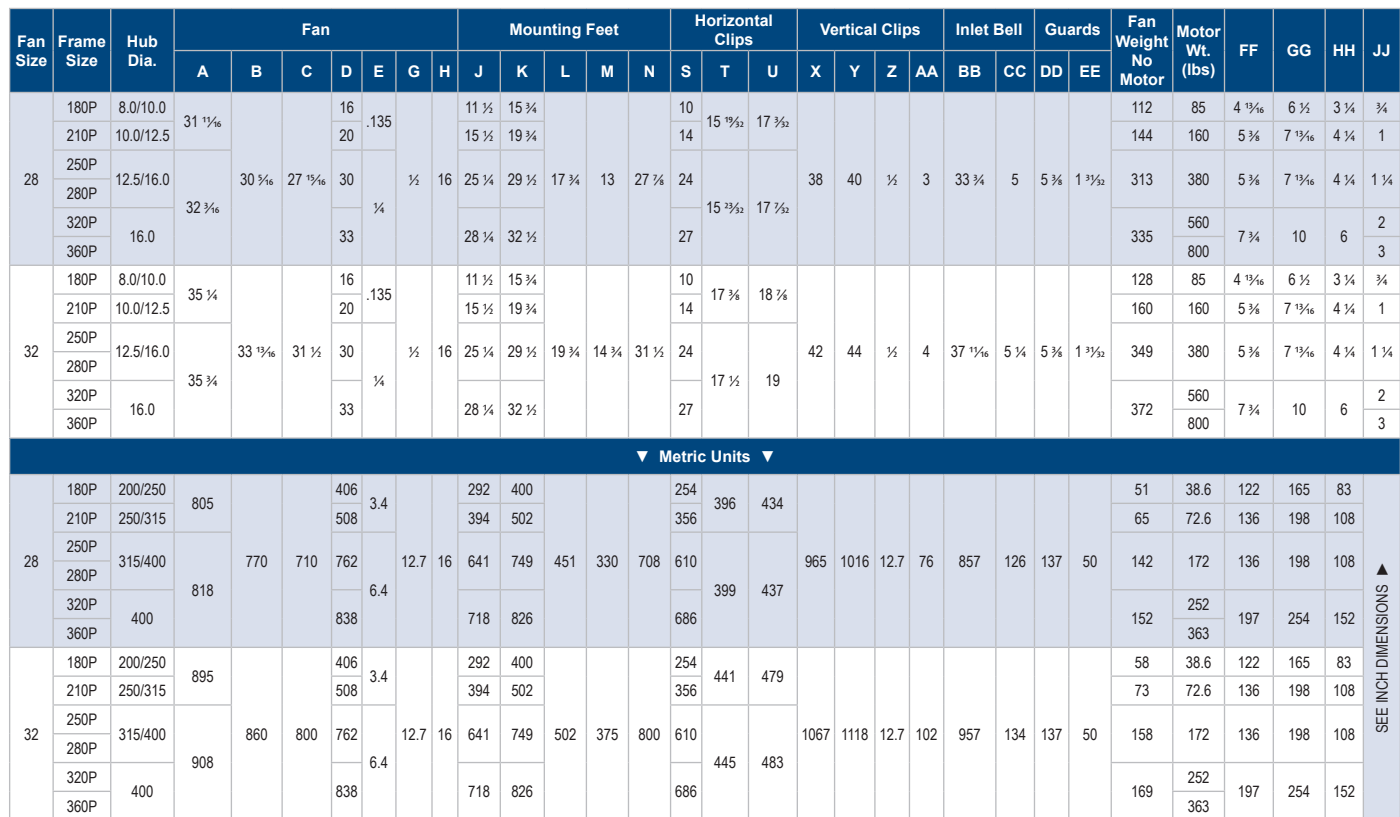
HH

"JJ"

FNPT

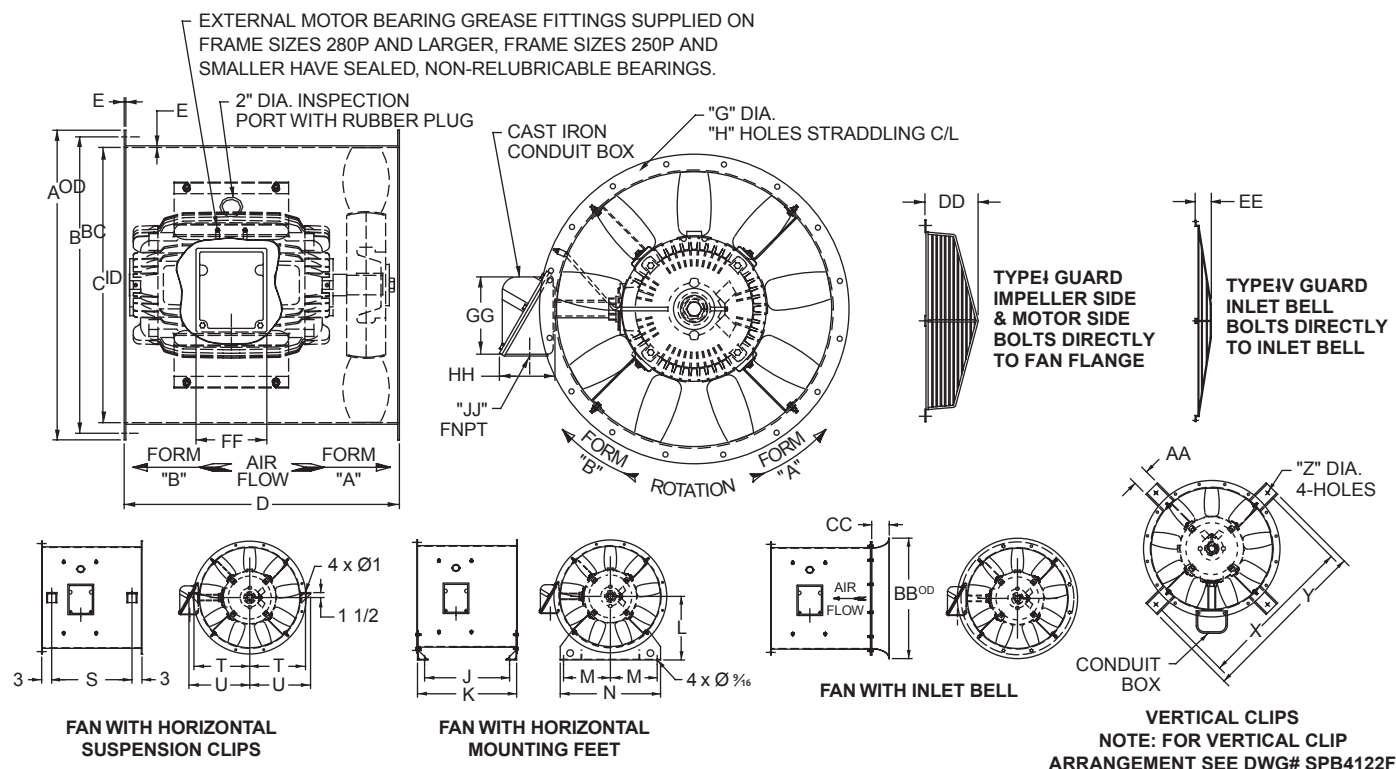
FORM "B" AIR FLOW FORM "A"

ROTATION



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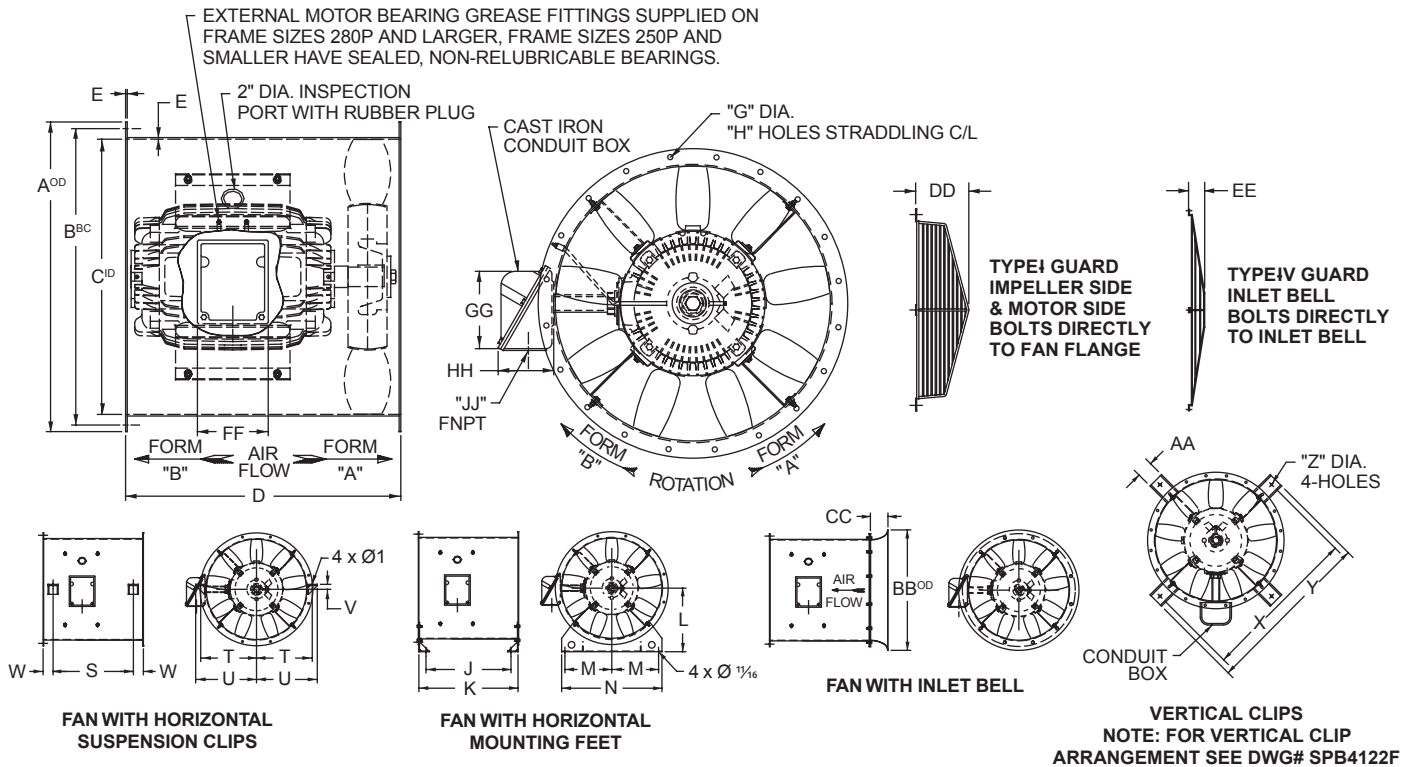
VXDA 36-40



Fan Size	Frame Size	Hub Dia.	Fan							Mounting Feet					Horizontal Clips			Vertical Clips				Inlet Bell			Guards		Fan Weight No Motor	Motor Wt. (lbs)	FF	GG	HH	JJ																														
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	X	Y	Z	AA	BB	CC	DD	EE																																					
36	180P	10.0	39 1/16	38 3/4	35 3/16	16	.135	16	11 1/2	15 3/4	22	16 3/4	35 3/16	10	19 1/32	20 7/32	47	50	1/2	4	42 1/16	5 1/8	5 3/4	1 1/32	143	85	4 1/16	6 1/2	3 1/4	3/4																																
	210P	10.0/12.5				20	15 1/2		19 3/4	14				19 1/32	20 7/32	178									160	5 3/8	7 1/16	4 1/4	1																																	
	250P	12.5/16.0				30	1/4		25 1/4	29 1/4						24									47	50	1/2	4	42 1/16	5 1/8	5 3/4	1 1/32	389	380	5 3/8	7 1/16	4 1/4	1 1/4																								
	280P	16.0				33			28 3/4	32 1/4						27																	416	560	7 3/4	10	6	2																								
	320P								32 3/4	37 1/2						27																							21 1/16	22 1/16	51	54	3/8	4	47 3/16	6 3/16	5 3/8	1 1/32	482	560	7 3/4	10	6	3								
	360P																																																													
40	180P	10.0	43 3/8	42 1/4	39 3/8	16	.179	16	10 1/4	15 3/4	24 3/8	19	40	10	21 3/4	22 3/4	51	54	3/8	4	47 3/16	6 3/16	5 3/8	1 1/32	187	85	4 1/16	6 1/2	3 3/4	3/4																																
	210P	10.1/12.5				20	14 1/8		19 3/8	14				21 1/8	22 1/8	241									160	5 3/8	7 1/16	4 1/4	1																																	
	250P	12.5/16.0				30	1/4		24 3/4	29 1/4						24									428	380	5 3/8	7 1/16	4 1/4	1 1/4																																
	280P	16.0/20.0				33			27 3/4	32 1/4						27															21 1/8	22 1/8	51	54	3/8	4	47 3/16	6 3/16	5 3/8	1 1/32	482	560	7 3/4	10	6	2																
	320P								32 3/4	37 1/2						27																															21 1/8	22 1/8	51	54	3/8	4	47 3/16	6 3/16	5 3/8	1 1/32	482	560	7 3/4	10	6	3
	360P																																																													
400P	20.0	38	32 3/4	37 1/2	32	Metric Units																																																								
36	180P	250	1008	970	900		406	3.4	166	292	400	559	425	900	254	491	529	1194	1270	12.7	102	1077	150	137	50	65	38.6	122	165	83	SEE INCH DIMENSIONS ▲																															
	210P	250/315					508	14.3		394	502				356	495	533									81	72.6	136	198	108																																
	250P	315/400					762								6.4											641	749	610	495	533		176	172	136	198	108																										
	280P						838																									718	826	686	189	252	197	254	152																							
	320P																																							400	838	718	826	686	189	252	197	254	152													
	360P																																																													
40	180P	250	1108	1070	1000	406	4.6	16	276	397	625	483	1016	254	543	581	1295	1372	15.9	102	1199	167	137	50	85	38.6	122	165	83	SEE INCH DIMENSIONS ▲																																
	210P	250/315				508	14.3		378	498				356	545	583									109	72.6	136	198	108																																	
	250P	315/400				762								6.4											629	749	610	545	583		194	172	136	198	18																											
	280P					838																									705	826	686	219	252	197	154	152																								
	320P																																						400/500	838	705	826	686	219	252	197	154	152														
	360P																																																													
400P	500	965	832	953	813	241	531	260	394	216																																																				

Dimensions in inches. Metric dimensions in mm.

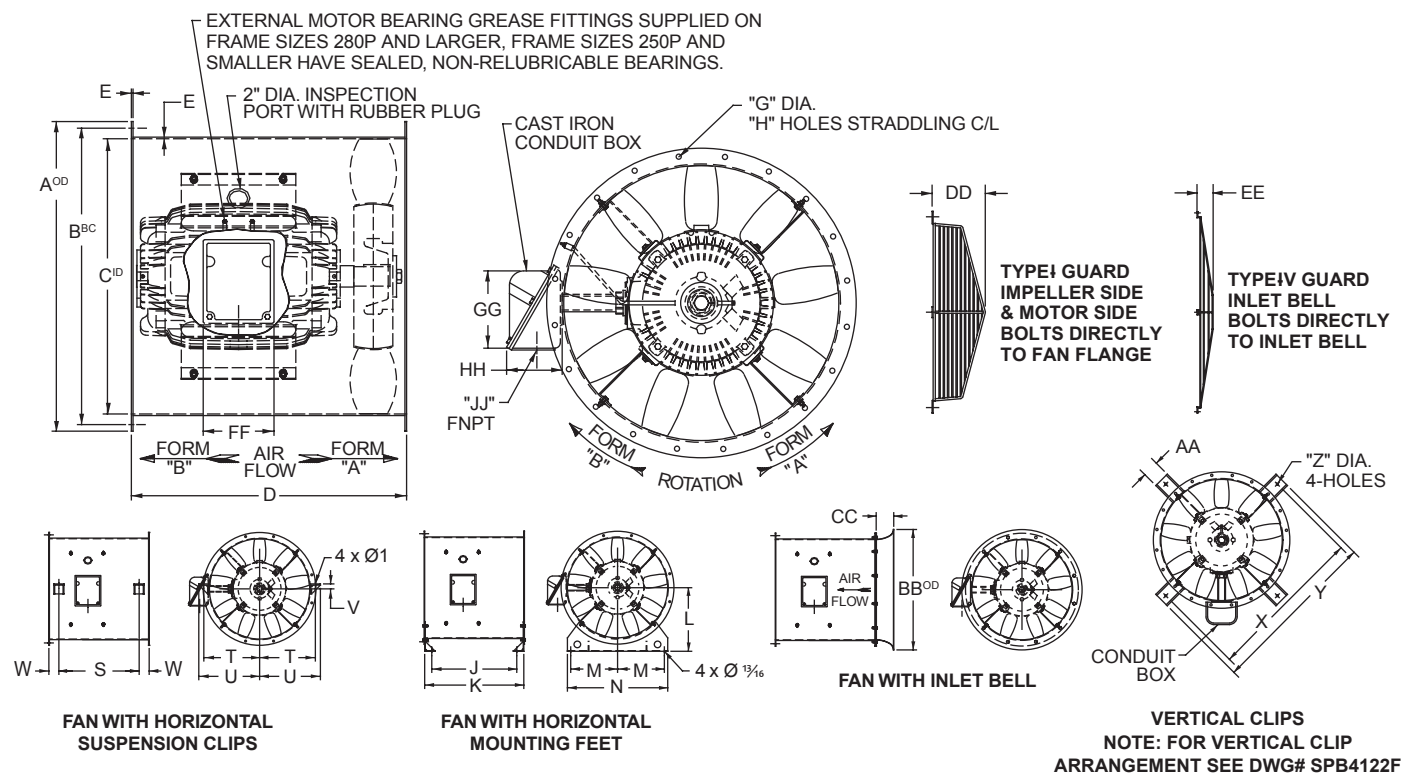
VXDA 44-50



Fan Size	Frame Size	Hub Dia.	Fan								Mounting Feet					Horizontal Clips					Vertical Clips			Inlet Bell		Guards		Fan Weight No Motor	Motor Weight (lbs)	FF	GG	HH	JJ
			A	B	C	D	E	G	H	J	K	L	M	N	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE						
44	180P	10.0				16	.179			10 3/4	15 3/4				10	23 3/4	25 1/4											212	85	4 1/16	6 1/2	3 1/4	3/4
	210P	12.5				20				14 1/4	19 1/4				14													270	160	5 3/8	7 1/16	4 1/4	1
	250P	12.5/16.0				30				24 3/4	29 1/4				24													466	380	5 3/8	7 1/16	4 1/4	1 1/4
	280P		48 1/2	46 1/4	44 3/2			1 1/4	20			26 3/4	20 1/2	44				1 1/2	3	56	59	3/4	4	53 3/8	7 3/8	5 3/8	1 3/2						
	320P	16.0/20.0				33	3/4			27 1/4	32 1/4				27	23 1/4	25 3/8											543	560	7 3/4	10	6	2
	360P																											800					3
50	400P	20.0				38				32 1/4	37 1/4				32													615	1170	10 1/4	15 1/2	8 1/2	3
	210P	12.5				20	.179			14 1/4	19 1/4				12	26 1/4	28 1/4											300	160				1
	250P	12.5/16.0				30				24 1/4	29 1/4				22													519	380	5 3/8	7 1/16	4 1/4	1 1/4
	280P		53 1/2	52	49 1/4			1 1/4	20			30 1/4	23 1/2	50				2	4	61	64	3/4	4	59 1/8	8 3/8	5 3/8	1 3/2						
	320P	16.0/20.0				33	3/4			27 1/4	32 1/4				25	26 1/4	28 1/4											604	560	7 3/4	10	6	2
	360P																											800					3
44	180P	250				406	4.6			276	397				254	603	641											96	38.6	122	165	83	
	210P	315				508				378	498				356													122	72.6	136	198	108	
	250P	315/400				762				629	749				610													211	172	136	198	108	
	280P		1228	1190	1120			17.5	20			680	521	1118				38	76	1422	1499	15.9	102	1351	194	137	50						
	320P	400/500				838	6.4			70	826				686	605	643											246	252	197	254	152	
	360P																											363					
50	400P	500				965				832	953				813													279	531	260	394	216	
	210P	315				508	4.6			371	498				305	681	732											136	72.6				
	250P	315/400				762				622	749				559													235	172	136	198	108	
	280P		1358	1320	1250			17.5	20			768	597	1270				51	102	1549	1626	15.9	102	1516	214	137	50						
	320P	400/500				838	6.4			699	826				635	683	733											274	252	197	254	152	
	360P																											363					
44	400P	500				965				826	953				762													310	531	260	394	216	

Dimensions in inches. Metric dimensions in mm.

VXDA 54-62

[illegible]

Dimensions in inches. Metric dimensions in mm.

FAN SELECTION

Procedure

1. Guide to Fan Performance Curves

The fan performance curves are arranged in order of fan diameter, starting at 12", up to 62" diameter. For each fan diameter, they are arranged by speed, hub diameter, and number of blades.

Note: When attempting to make a fan selection, it will become obvious that, in most cases, several different fans will perform the required duty. The final fan selection should be based on the most critical factor(s) to the application, such as:

- Volume and pressure
- Fan diameter
- Power consumption (annual operating cost)
- Sound levels
- Initial cost

2. Required Duty

Establish the volume flow (Q_v) and the total pressure (p_t) or static pressure (p_s) of an individual fan at standard air density (.075 lbs. per cubic foot).

3. Selection on Individual Fan Performance Curve Charts

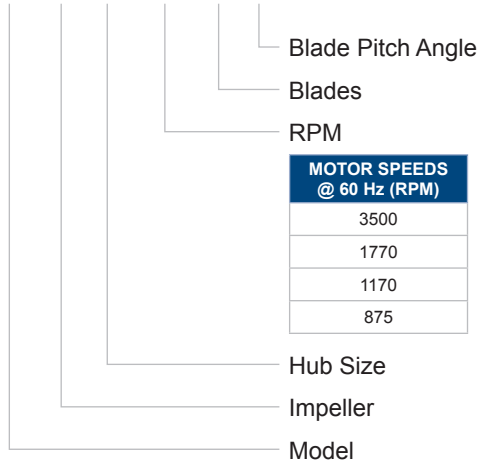
Plot the duty on the selected fan performance curve chart(s) to establish blade pitch angle, sound level, brakehorsepower, and motor size and rating.

Selection Example

- D** Duty point required at standard air density .075 lbs. per cubic foot:
- Volume Flow, Q_v = 6000 CFM (cubic feet per minute)
 - Total Pressure, p_t = 0.5 (inches water gauge)
 - Static Pressure, p_s = 0.3 (inches water gauge)

Selection

Fan Code: VXDA 24 / 20 / 1170 / 3 / xx



- 4** Brakehorsepower at required duty at 26 degrees blade pitch angle=0.7.

A 3/4 HP motor can be selected or you may prefer to select a 1 HP motor if performance requirements may increase in the future.

- 5** Overall inlet sound power level = 86 Lw (interpolated from surrounding levels).

- 6** In the example, the fan will have an open inlet to atmosphere, and a ducted discharge.

Therefore, use sound level corrections for "Inlet Levels" at 24-36 degrees. Duty point is below the gray shaded area on the fan performance curve so use the bottom row of numbers:

Freq.	63	125	250	500	1k	2k	4k	8k	(Hz)
Lw	86	86	86	86	86	86	86	86	
	-1	-10	-11	-17	-20	-22	-26	-29	
dB	85	76	75	69	66	64	60	57	

- 7** Correcting for open inlet (End Reflection Correction).

	-8	-4	-1	0	0	0	0	0
dB	77	72	74	69	66	64	60	57

Fan Sound Power Level

Selection Summary

Fan code: VXDA 24 / 20 / 1170 / 3 / xx

Motor: 3/4 HP, 1170 RPM, 3 phase, 60 Hz, 460 Volt

Inlet sound power levels:

Freq.	63	125	250	500	1k	2k	4k	8k	(Hz)
Lw	77	72	74	69	66	64	60	57	

Example Order

Fan Code: VXDA 24 / 20 / 1170 / 3 / xx

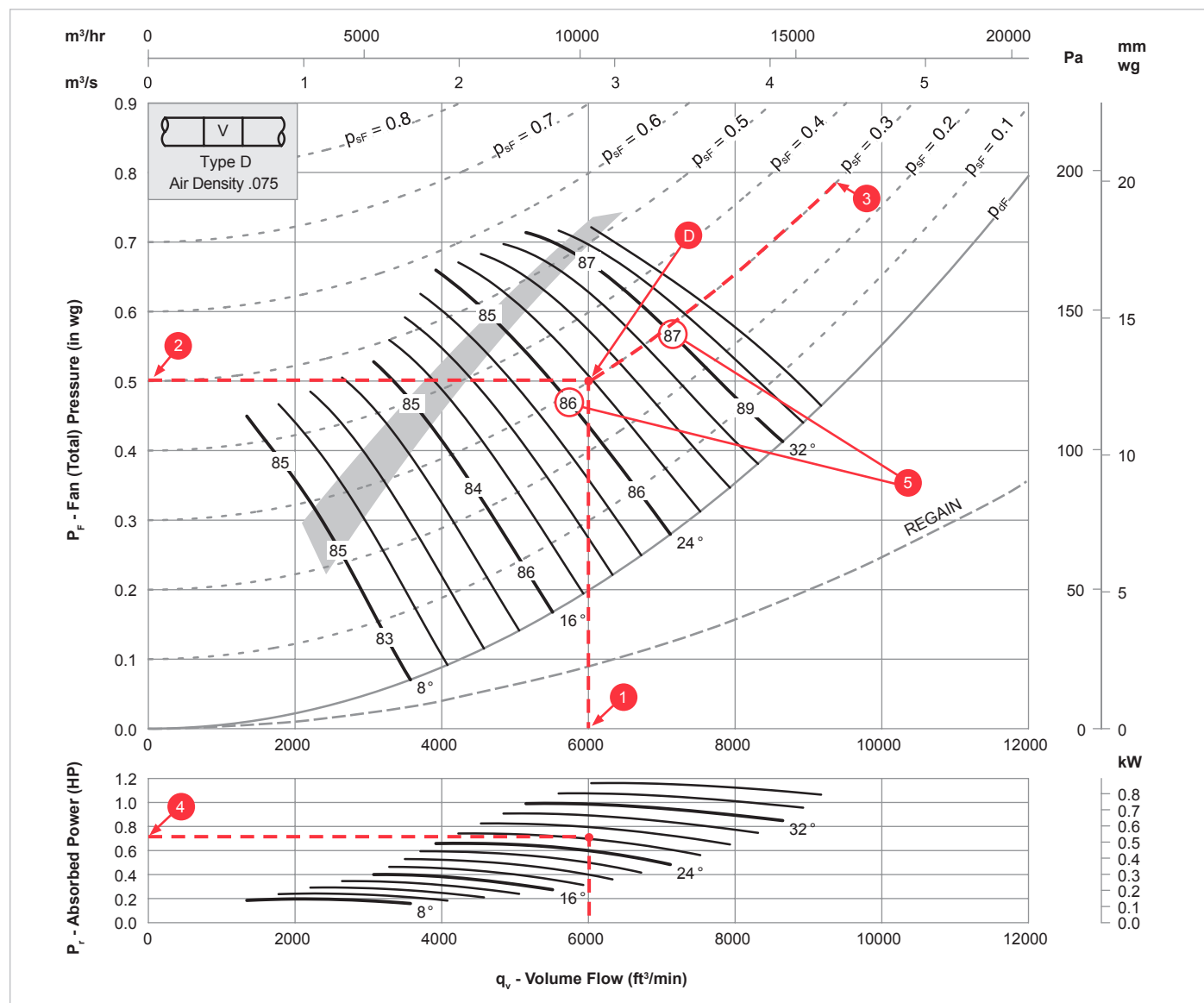
Motor: 3/4 HP, 1170 RPM, 3 phase, 60 Hz, 460 Volt, TEAO enclosure, 143P frame

Quantity: 3

Fan Duty: 6000 CFM @ 0.5" total pressure @ 0.7 BHP

Accessories: Mounting Feet
Inlet Bell
Inlet Screen
RIS Vibration Isolators
Outlet Flex Connector Assembly

EXAMPLE: VXDA 24 / 20 / 1170 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-10	-5	-6	-12	-17	-24	-31
	-2	-11	-8	-10	-13	-15	-20	-27
16°	-6	-10	-4	-8	-14	-16	-25	-31
	-1	-11	-11	-17	-19	-19	-24	-30
24 - 36°	-2	-9	-9	-14	-16	-19	-22	-26
	-1	-10	-11	-17	-20	-22	-26	-29

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-10	-5	-5	-12	-17	-23	-28
	-1	-11	-8	-10	-13	-14	-19	-25
16°	-4	-10	-4	-8	-14	-16	-24	-28
	0	-11	-11	-17	-19	-19	-23	-28
24 - 36°	-1	-9	-9	-14	-16	-19	-20	-24
	0	-10	-11	-16	-20	-22	-24	-27

End Reflection (dB)

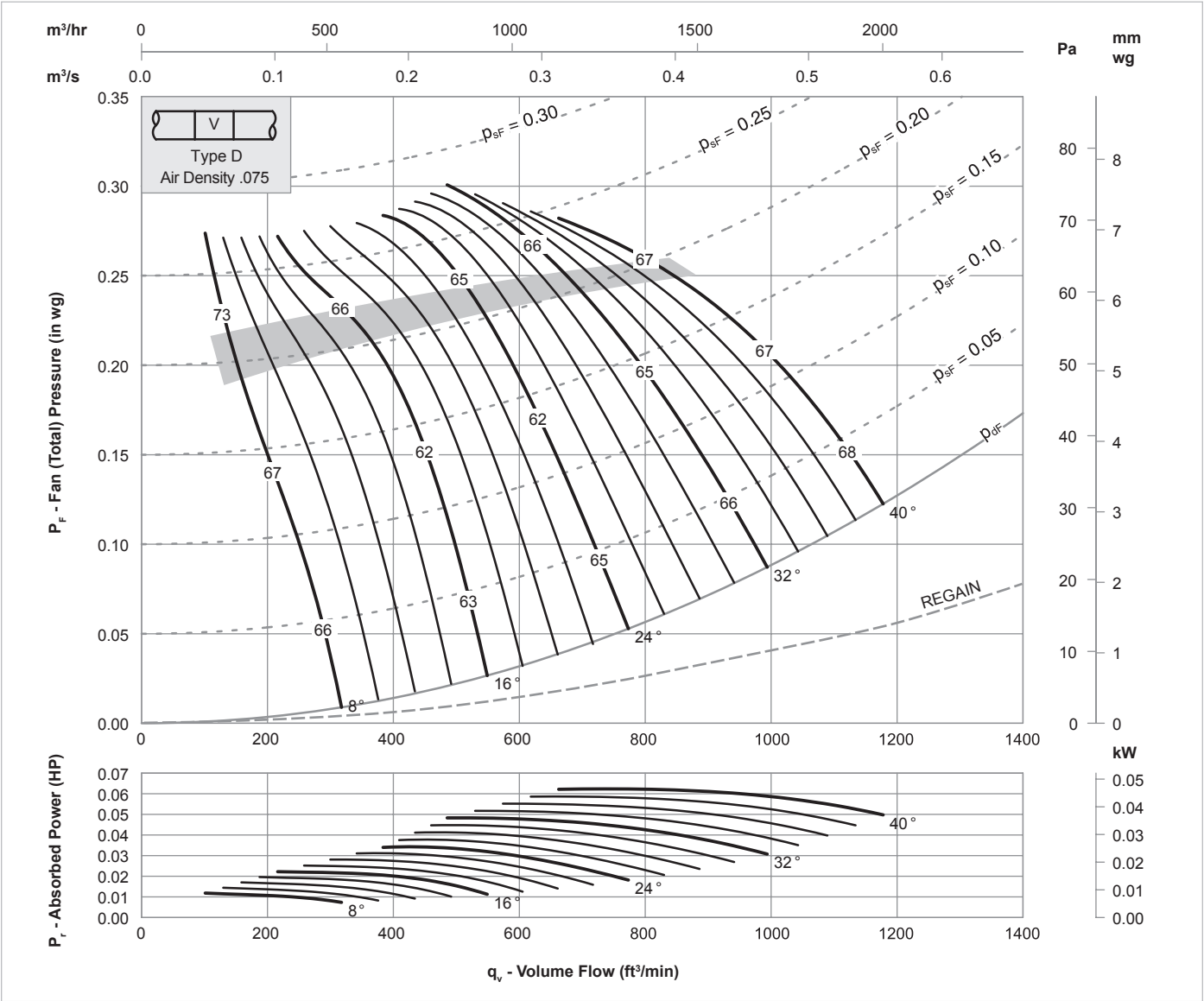
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 12 / 16 / 1170 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-4	-5	-6	-12	-19	-26	-31	-39
	-10	-8	-4	-6	-13	-20	-27	-36
16°	-7	-4	-6	-10	-15	-23	-29	-37
	-6	-5	-6	-9	-12	-17	-22	-28
24 - 40°	-3	-6	-9	-13	-17	-21	-25	-31
	-4	-5	-8	-10	-14	-18	-24	-30

Outlet Levels

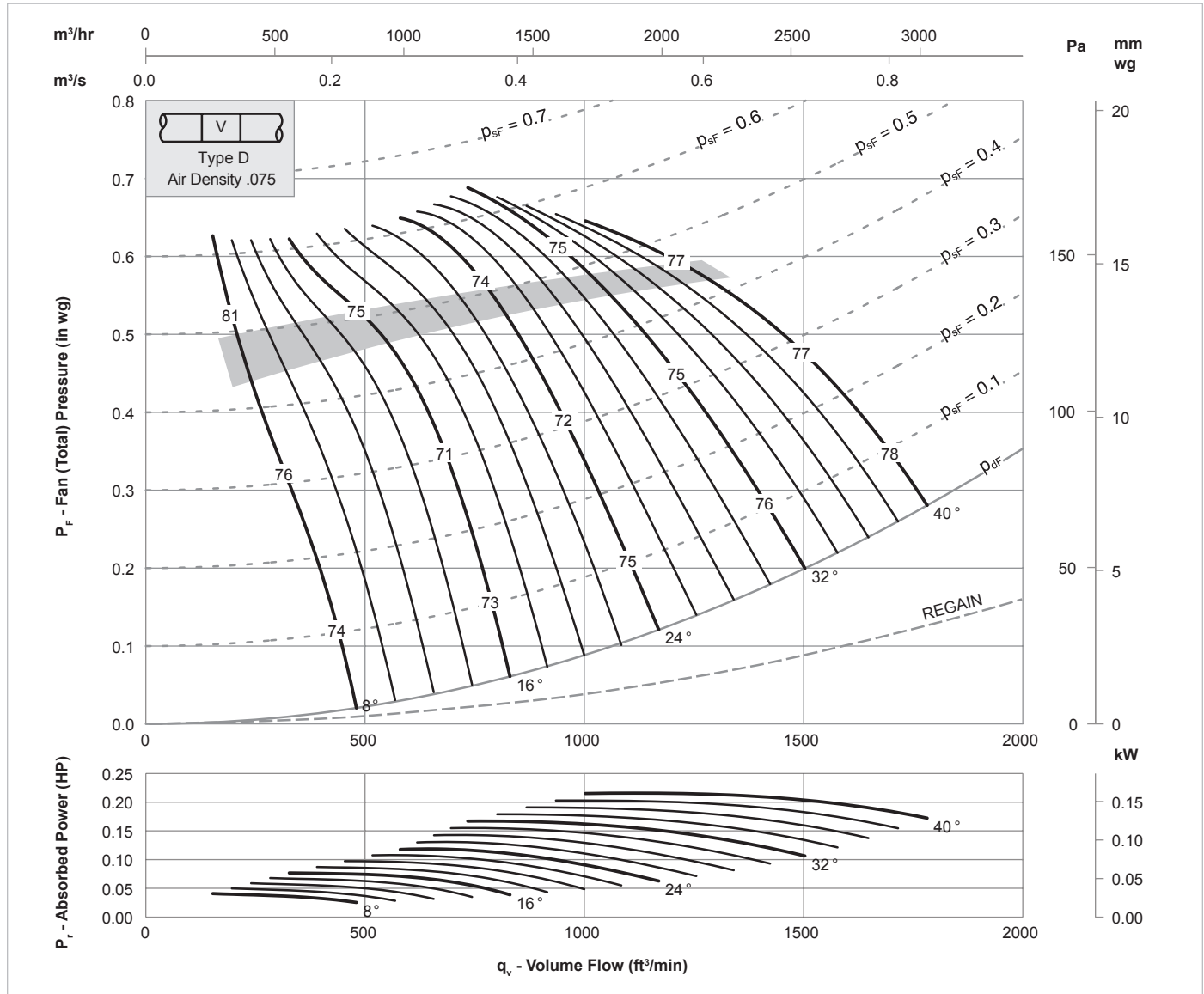
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-2	-3	-6	-12	-19	-25	-31	-39
	-8	-5	-4	-6	-13	-20	-26	-34
16°	-4	-2	-6	-10	-15	-22	-29	-37
	-64	-3	-6	-9	-12	-16	-22	-28
24 - 40°	-1	-5	-9	-12	-16	-19	-23	-29
	-2	-2	-8	-10	-14	-18	-23	-29

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-14	-8	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 12 / 16 / 1770 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-4	-6	-7	-16	-22	-29	-35
	-13	-7	-9	-3	-9	-16	-23	-31
16°	-12	-4	-8	6	-13	-19	-26	-32
	-12	-4	-8	-7	-11	-14	-19	-25
24 - 40°	-4	-4	-10	-11	-16	-18	-24	-28
	-8	-3	-9	-9	-13	-16	-22	-27

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-2	-4	-7	-15	-21	-29	-34
	-12	-5	-8	-3	-9	-16	-22	-29
16°	-10	-1	-7	-6	-12	-17	-26	-32
	-10	-1	-7	-7	-10	-13	-19	-25
24 - 40°	-3	-3	-9	-10	-15	-17	-22	-26
	-6	0	-8	-9	-13	-16	-21	-26

End Reflection (dB)

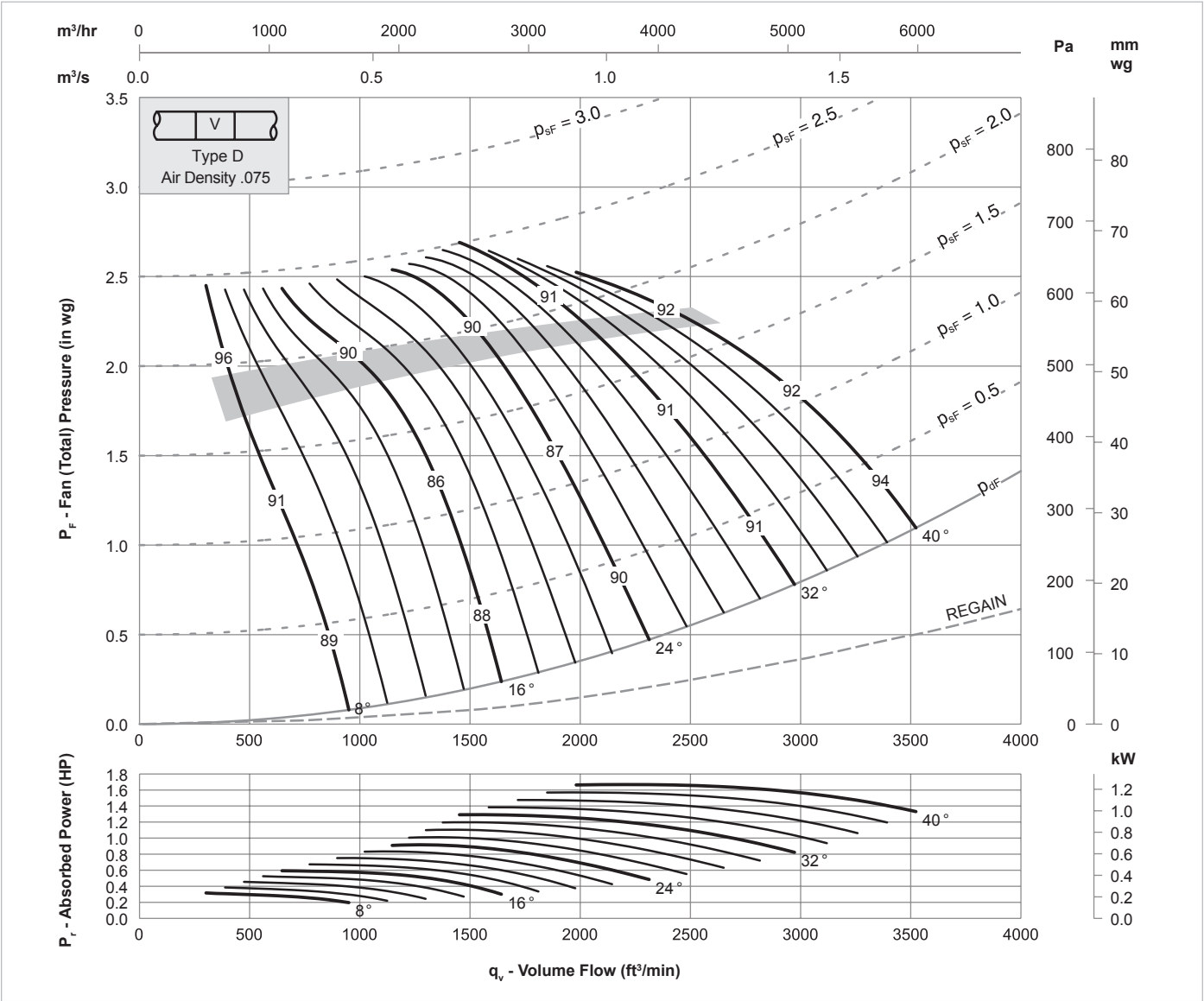
63	125	250	500	1k	2k	4k	8k
-14	-8	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 12 / 16 / 3500 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-9	-5	-6	-7	-16	-22	-29
	-16	-13	-8	-9	-3	-9	-16	-23
16°	-15	-12	-4	-8	-6	-13	-19	-26
	-15	-12	-4	-8	-7	-11	-14	-20
24 - 40°	-9	-5	-5	-10	-11	-17	-19	-25
	-9	-8	-4	-10	-10	-14	-17	-22

Outlet Levels

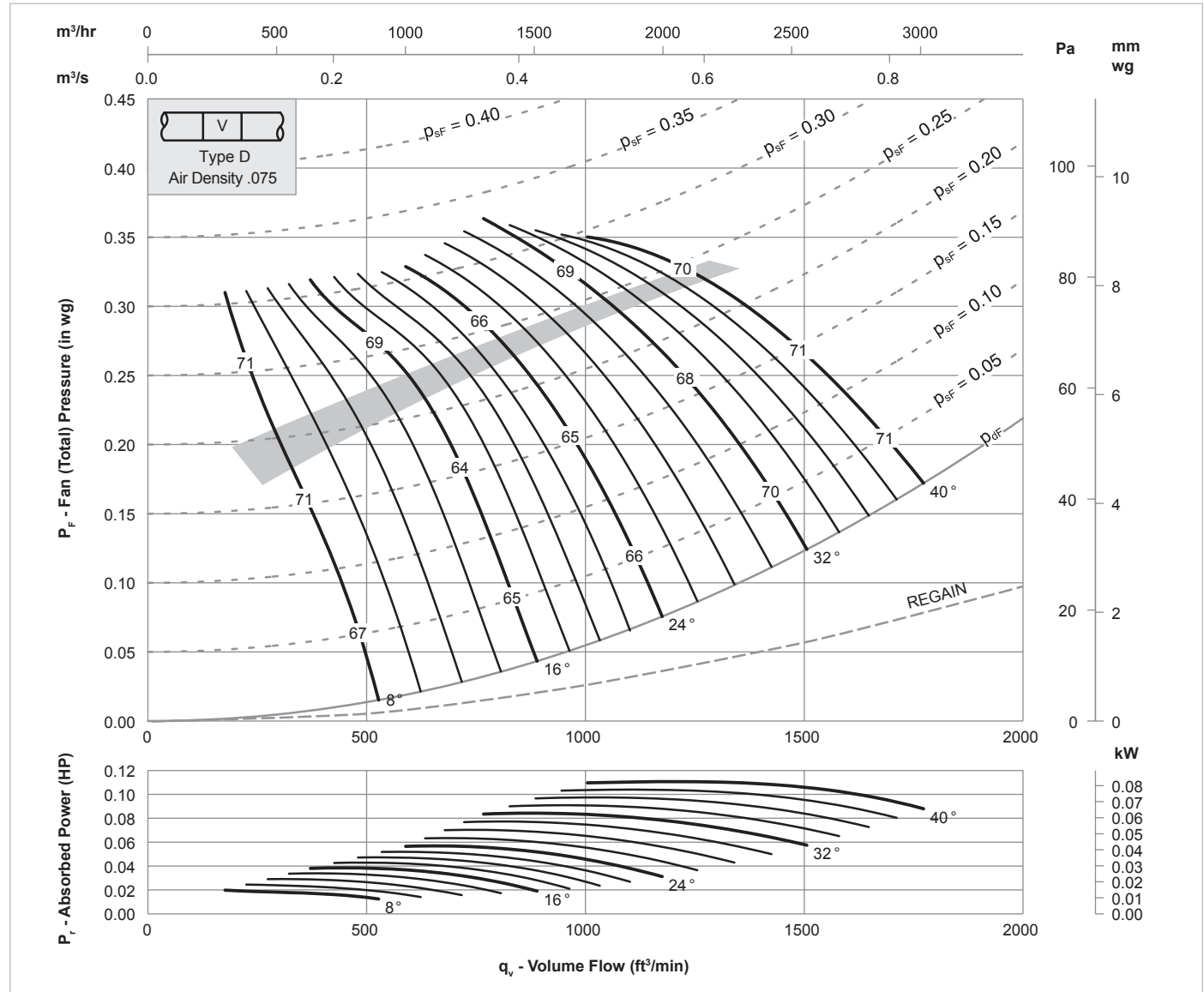
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-8	-3	-4	-7	-15	-22	-29
	-14	-13	-5	-8	-3	-9	-15	-21
16°	-13	-12	-1	-7	-5	-12	-19	-26
	-13	-12	-2	-7	-6	-10	-14	-20
24 - 40°	-7	-5	-4	-9	-10	-15	-17	-23
	-7	-8	-1	-8	-10	-13	-16	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-14	-8	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 14 / 16 / 1170 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-6	-4	-8	-16	-23	-30	-38
	-12	-10	-4	-5	-12	-18	-25	-32
16°	-8	-6	-4	-9	-13	-18	-23	-28
	-7	-7	-6	-7	-10	-14	-19	-24
24 - 40°	-4	-7	-7	-9	-15	-19	-24	-30
	-5	-6	-6	-9	-13	-17	-23	-28

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-4	-4	-4	-8	-16	-22	-30	-38
	-10	-8	-4	-5	-12	-18	-23	-30
16°	-5	-4	-4	-9	-12	-17	-23	-28
	-5	-5	-6	-7	-10	-13	-19	-24
24 - 40°	-2	-6	-7	-8	-14	-18	-23	-28
	-3	-3	-6	-9	-13	-17	-22	-27

End Reflection (dB)

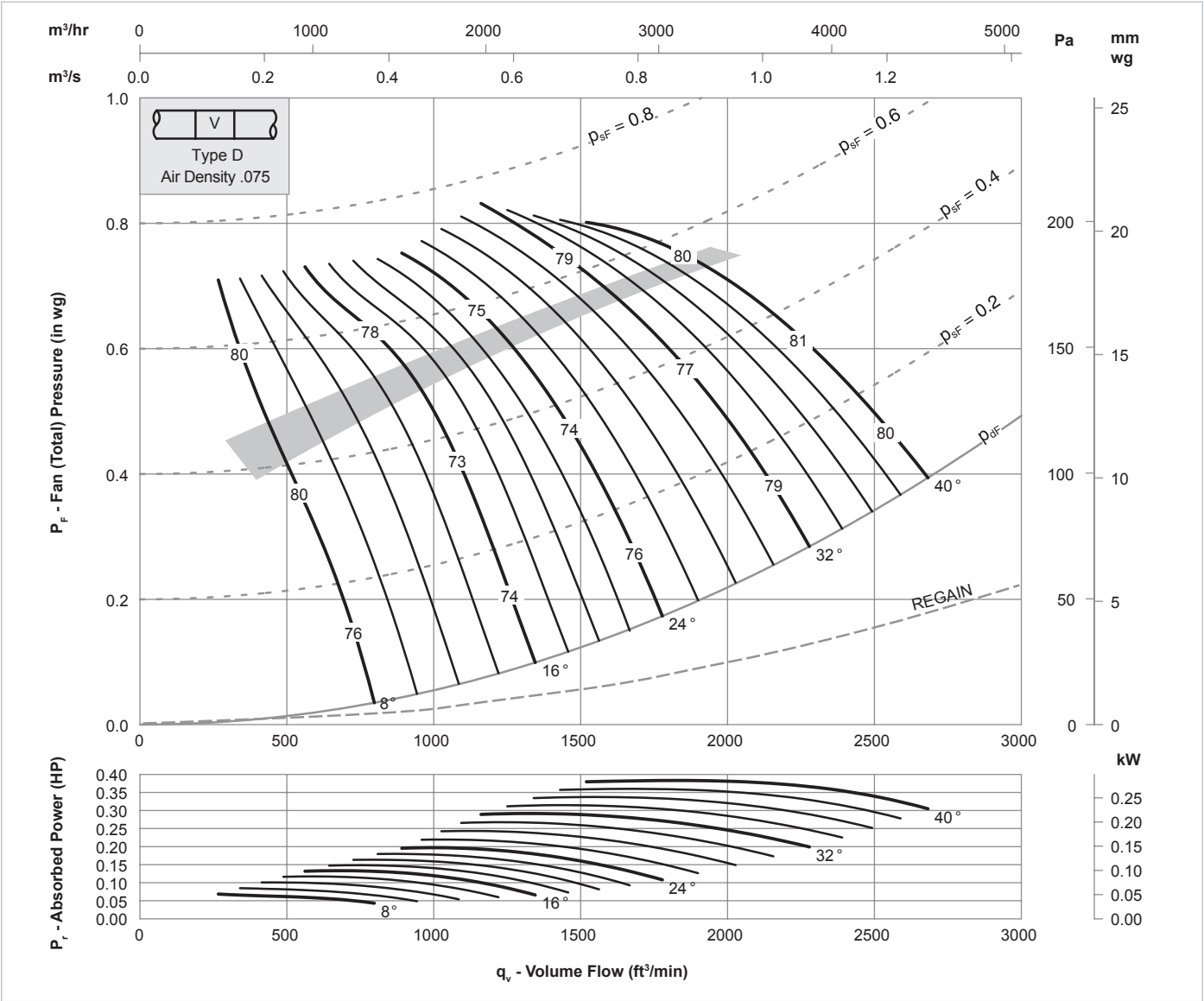
63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 14 / 16 / 1770 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-6	-6	-5	-12	-19	-26	-33
	-14	-10	-8	-3	-8	-15	-20	-28
16°	-13	-5	-7	-5	-12	-14	-20	-25
	-11	-5	-7	-6	-9	-12	-16	-21
24 - 40°	-6	-5	-8	-8	-13	-17	-22	-28
	-8	-4	-8	-7	-12	-15	-20	-26

Outlet Levels

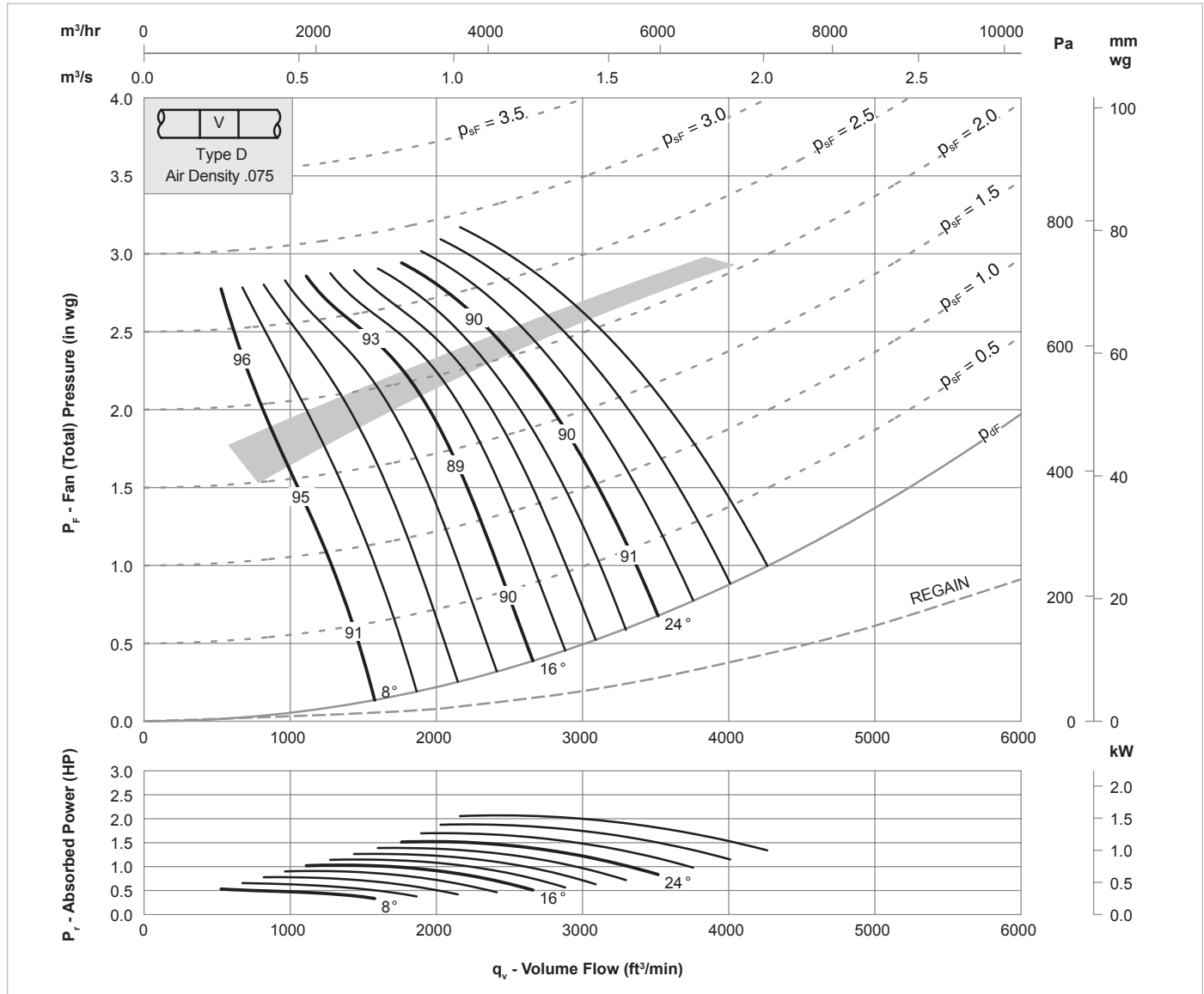
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-4	-5	-5	-11	-19	-26	-33
	-13	-7	-8	-3	-8	-15	-19	-26
16°	-11	-2	-6	-5	-12	-13	-20	-25
	-10	-3	-7	-6	-9	-12	-16	-22
24 - 40°	-4	-4	-8	-7	-12	-16	-20	-26
	-6	-2	-7	-7	-12	-15	-19	-25

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 14 / 16 / 3500 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-11	-6	-6	-5	-12	-20	-26
	-17	-15	-10	-8	-3	-8	-15	-21
16°	-10	-13	-6	-7	-5	-13	-15	-21
	-10	-12	-6	-8	-7	-10	-13	-16
24 - 30°	-8	-6	-6	-9	-9	-14	-18	-23
	-7	-9	-5	-9	-8	-13	-16	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-10	-4	-5	-5	-11	-20	-26
	-15	-15	-8	-7	-3	-8	-14	-18
16°	-9	-13	-3	-6	-4	-12	-15	-21
	-8	-12	-3	-7	-6	-9	-13	-16
24 - 30°	-7	-6	-5	-7	-8	-12	-16	-21
	-5	-8	-3	-8	-8	-13	-15	-20

End Reflection (dB)

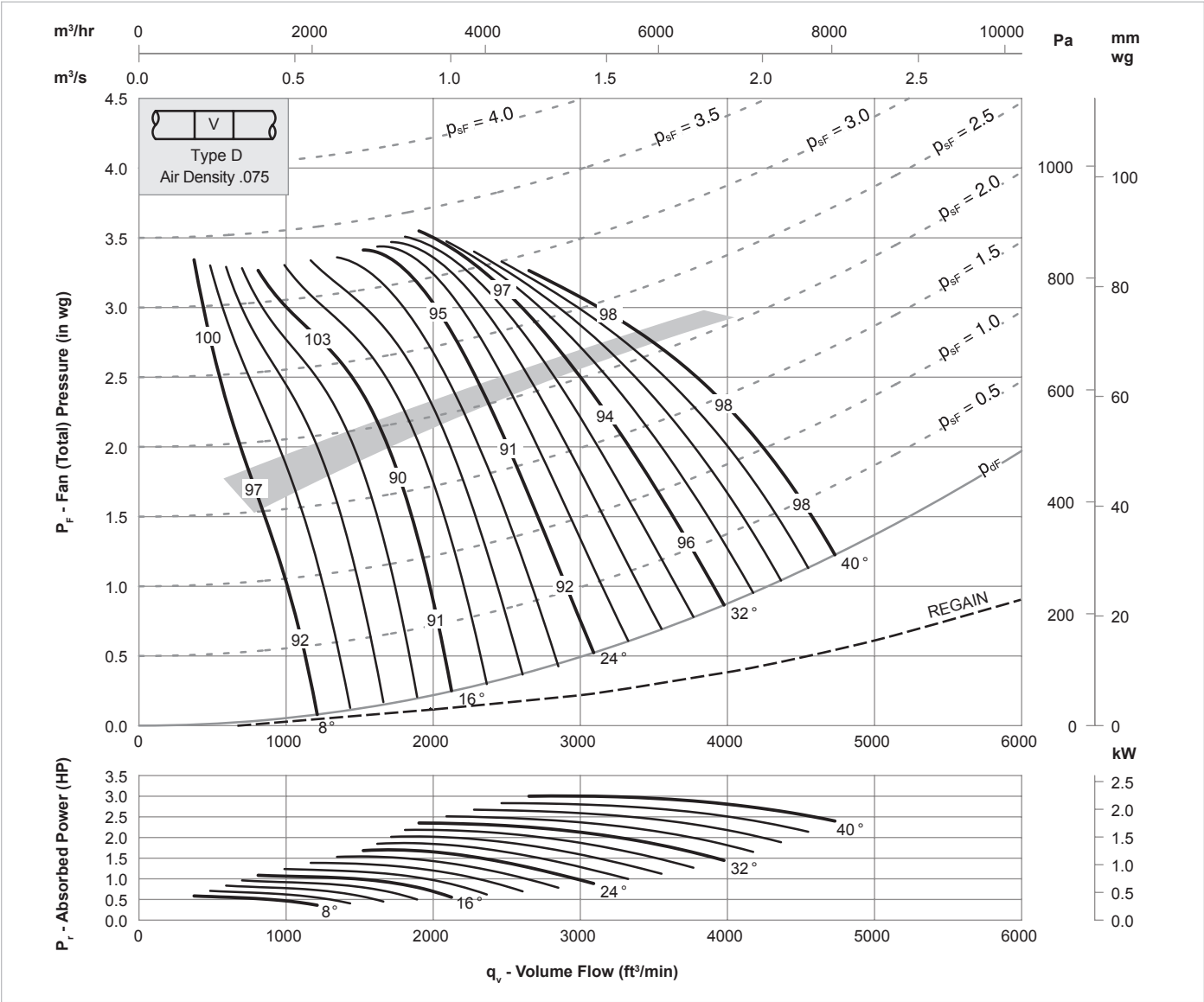
63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 14 / 20 / 3500 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-11	-6	-6	-5	-12	-20	-26
	-17	-15	-10	-8	-3	-8	-15	-21
16°	-10	-13	-6	7	-5	-13	-15	-21
	-10	-12	-6	-8	-7	-10	-13	-16
24 - 40°	-8	-6	-6	-9	-9	-14	-18	-23
	-7	-9	-5	-9	-8	-13	-16	-21

Outlet Levels

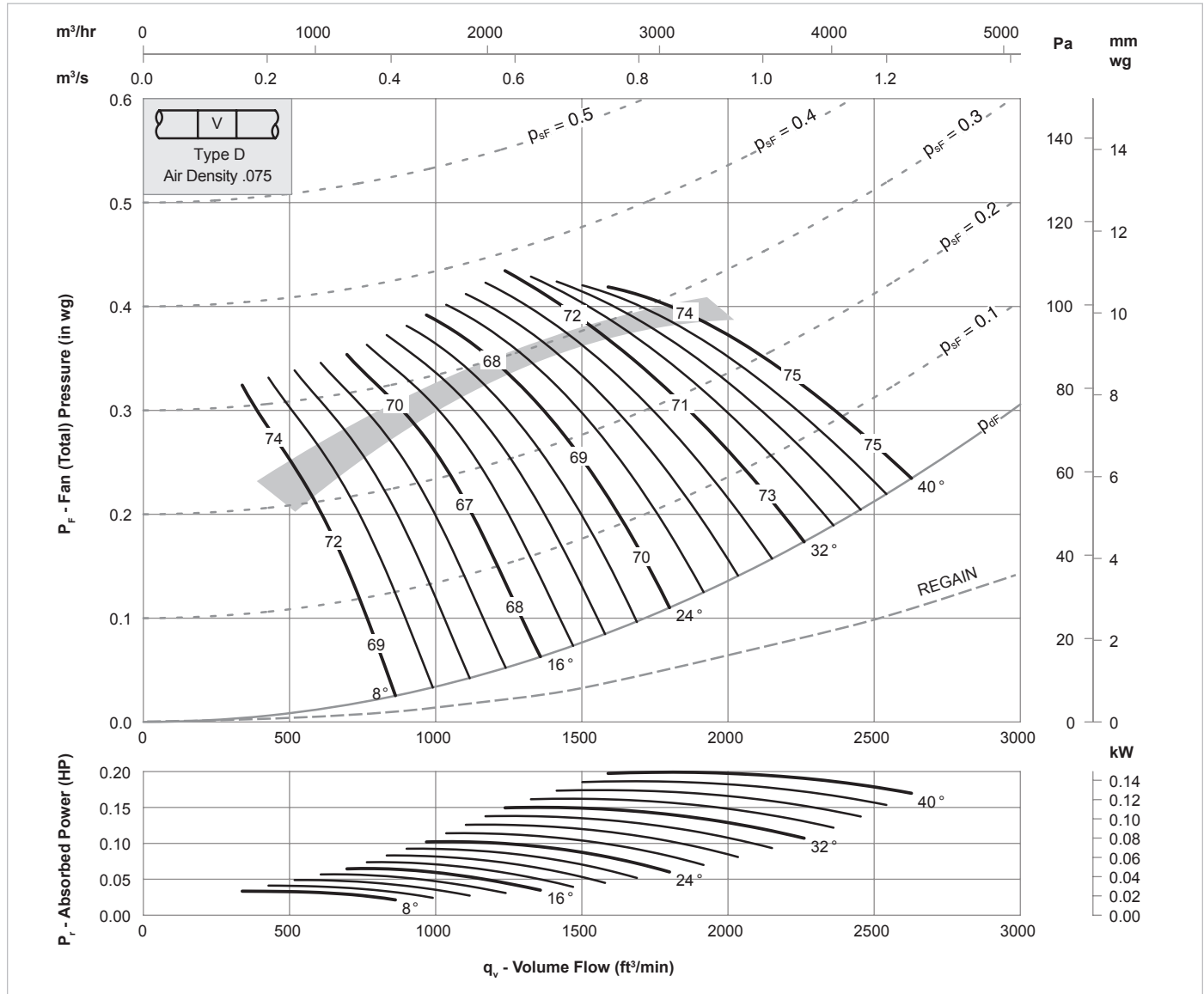
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-10	-4	-5	-5	-11	-20	-26
	-15	-15	-8	-7	-3	-8	-14	-18
16°	-9	-13	-3	-6	-4	-12	-15	-21
	-8	-12	-3	-7	-6	-9	-13	-16
24 - 40°	-7	-6	-5	-7	-8	-12	-16	-21
	-5	-8	-3	-8	-8	-13	-15	-20

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-12	-7	-4	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 16 / 16 / 1170 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-6	-5	-6	-14	-21	-28	-36
	-12	-8	-6	-5	-10	-15	-21	-28
16°	-7	-5	-7	-8	-11	-16	-22	-27
	-8	-5	-7	-8	-10	-13	-18	-22
24 - 40°	-4	-7	-8	-10	-14	-17	-22	-27
	-5	-5	-7	-9	-13	-16	-21	-26

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-4	-5	-6	-13	-20	-28	-36
	-10	-6	-6	-5	-10	-15	-20	-26
16°	-4	-3	-7	-8	-11	-15	-22	-27
	-5	-2	-7	-8	-10	-13	-18	-22
24 - 40°	-2	-5	-8	-9	-13	-15	-20	-25
	-2	-3	-7	-9	-13	-16	-20	-25

End Reflection (dB)

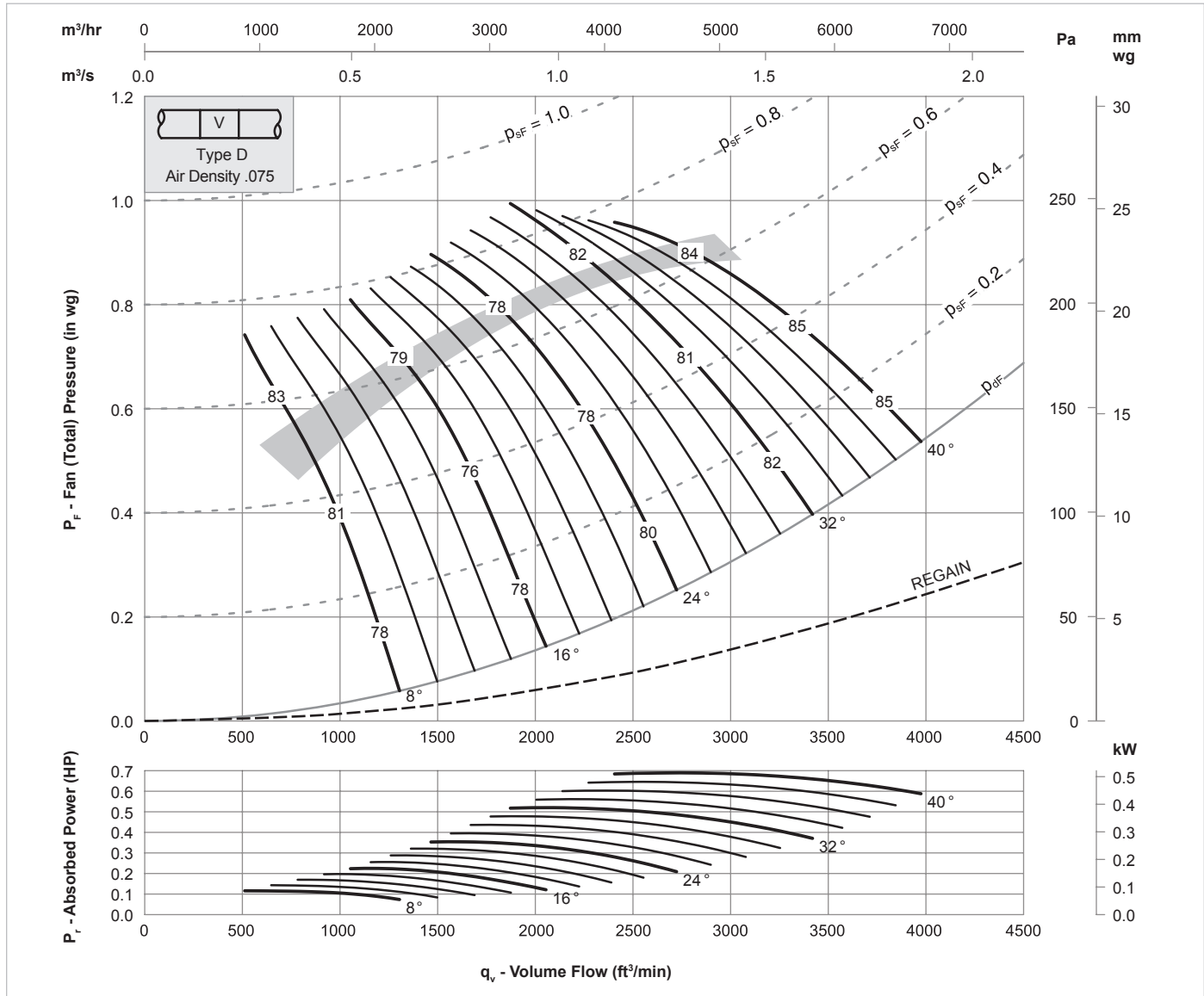
63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 16 / 16 / 1770 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-6	-7	-5	-10	-17	-24	-31
	-14	-8	-8	-5	-6	-12	-17	-24
16°	-11	-4	-7	-7	-10	-13	-19	-25
	-11	-4	-8	-8	-10	-12	-15	-20
24 - 40°	-5	-5	-9	-10	-13	-16	-20	-25
	-7	-4	-8	-9	-12	-15	-18	-24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-4	-6	-5	-10	-16	-24	-31
	-12	6	-8	-5	-6	-12	-16	-22
16°	-10	-1	-6	-7	-9	-12	-19	-25
	-9	-1	-7	-8	-9	-11	-15	-20
24 - 40°	-4	-3	-8	-9	-12	-14	-18	-23
	-5	-1	-7	-9	-12	-15	-17	-23

End Reflection (dB)

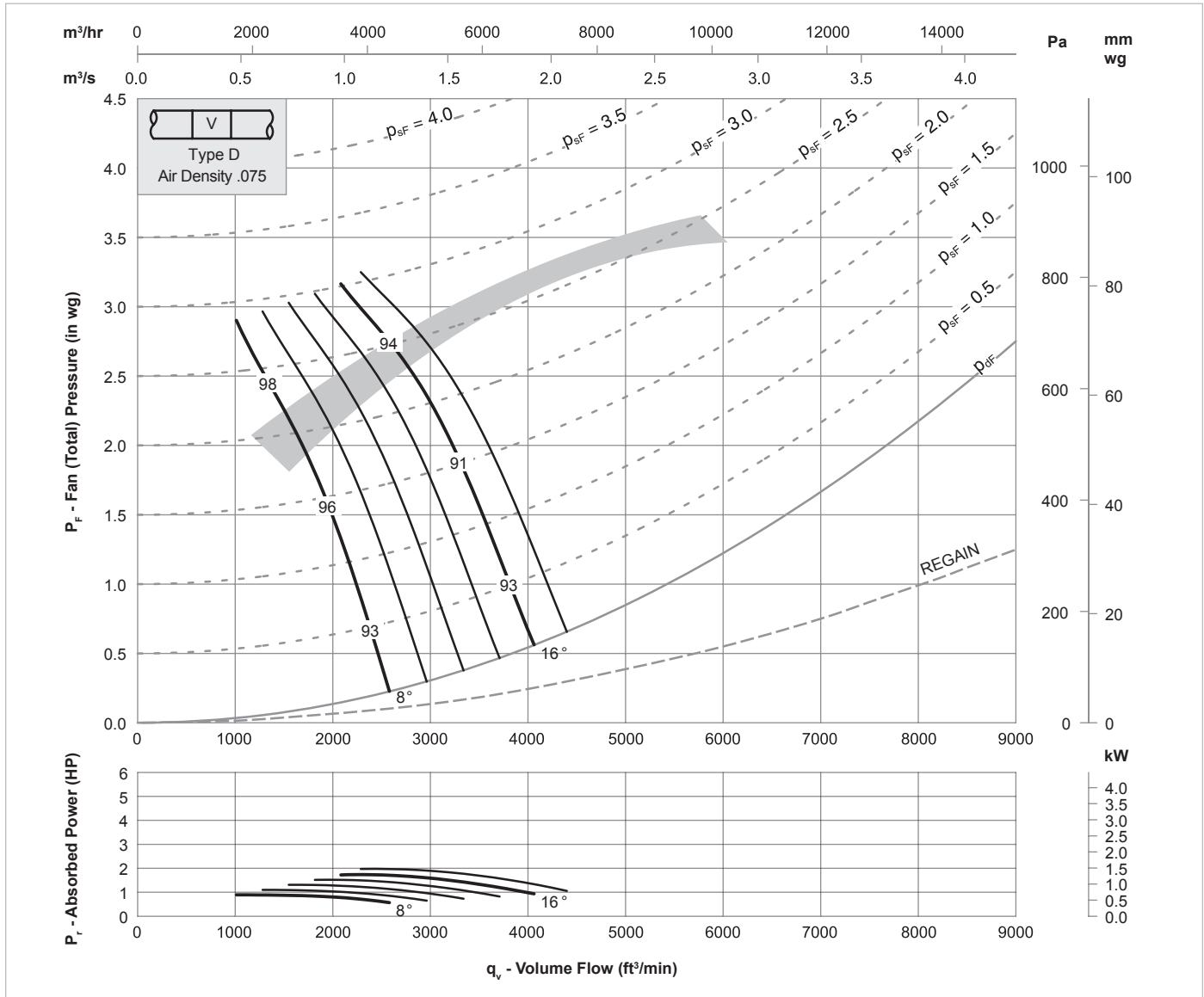
63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 16 / 16 / 3500 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-7	-8	-5	-10	-17	-25
	-17	-14	-9	-9	-5	-7	-13	-18
16 - 18°	-12	-12	-5	-8	-8	-11	-14	-19
	-12	-12	-5	-8	-9	-10	-12	-16

Outlet Levels

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

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0

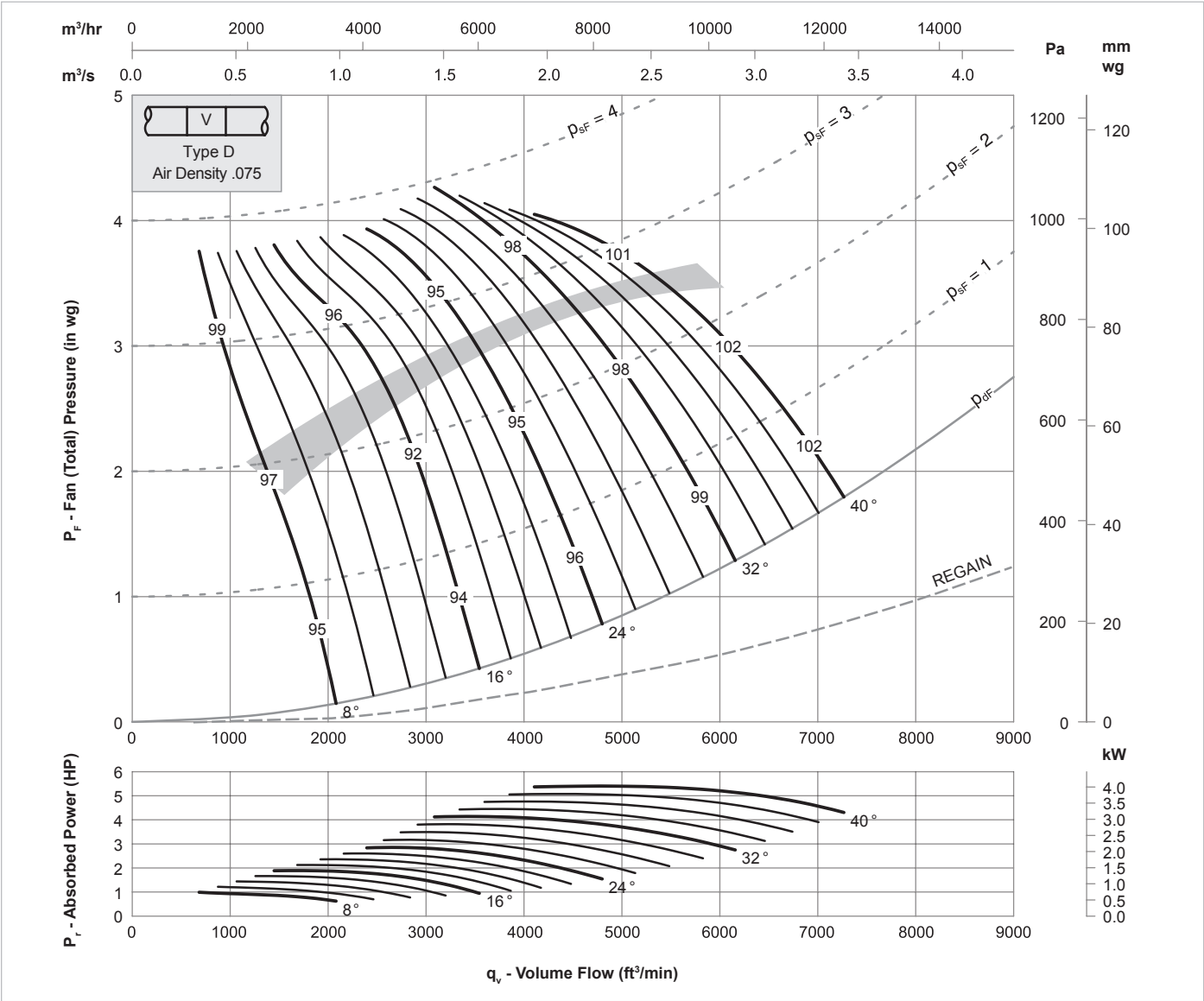
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The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 16 / 20 / 3500 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-7	-8	-5	-10	-17	-25
	-17	-14	-9	-9	-5	-7	-13	-18
16°	-12	-12	-5	-8	-8	-11	-14	-19
	-12	-12	-5	-8	-9	-10	-12	-16
24 - 40°	-9	-6	-6	-9	-11	-14	-17	-21
	-9	-8	-5	-9	-10	-13	-16	-19

Outlet Levels

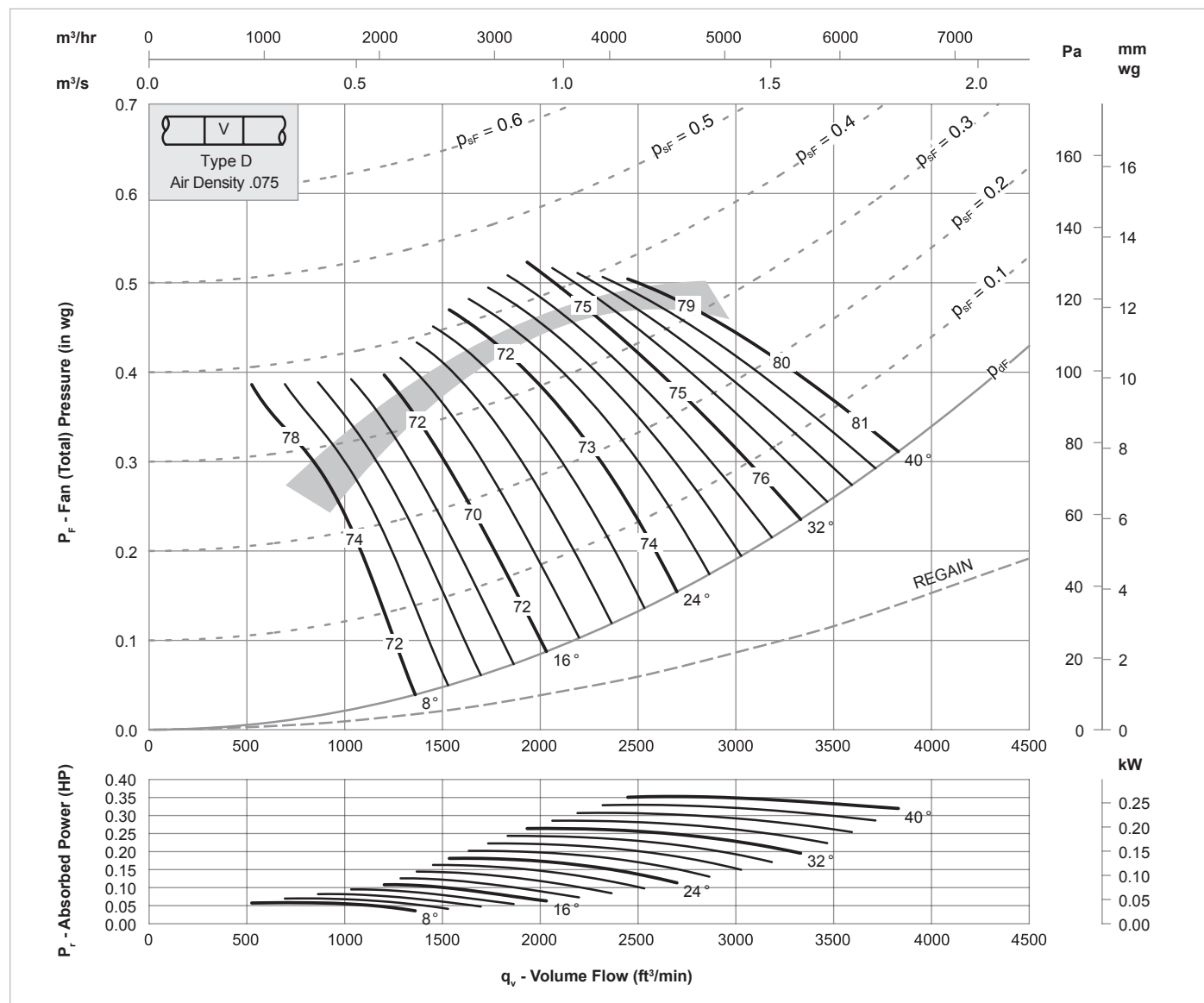
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-4	-6	-5	-9	-17	-24
	-14	-14	-6	-8	-5	-6	-11	-15
16°	-10	-11	-2	-6	-7	-10	-13	-19
	-10	-11	-2	-7	-8	-9	-12	-15
24 - 40°	-7	-5	-4	-8	-10	-12	-15	-18
	-6	-7	-2	-8	-10	-12	-15	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-11	-6	-3	-1	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 16 / 1170 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-6	-6	-5	-11	-19	-26	-34
	-12	-7	-8	-5	-8	-12	-18	-25
16°	-7	-5	-10	-6	-10	15	-22	-28
	-8	-3	-9	-10	-11	-13	-17	-20
24 - 40°	-4	-6	-10	-11	-13	-15	-19	-23
	-5	-5	-9	-10	-13	-15	-20	-24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-4	-6	-5	-11	-18	-25	-32
	-12	-6	-8	-5	-8	-11	-18	-23
16°	-6	-5	-10	-6	-10	-15	-21	-26
	-8	-3	-9	-10	-11	-13	-16	-18
24 - 40°	-2	-6	-10	-11	-13	-15	-18	-22
	-4	-4	-9	-10	-13	-15	-19	-22

End Reflection (dB)

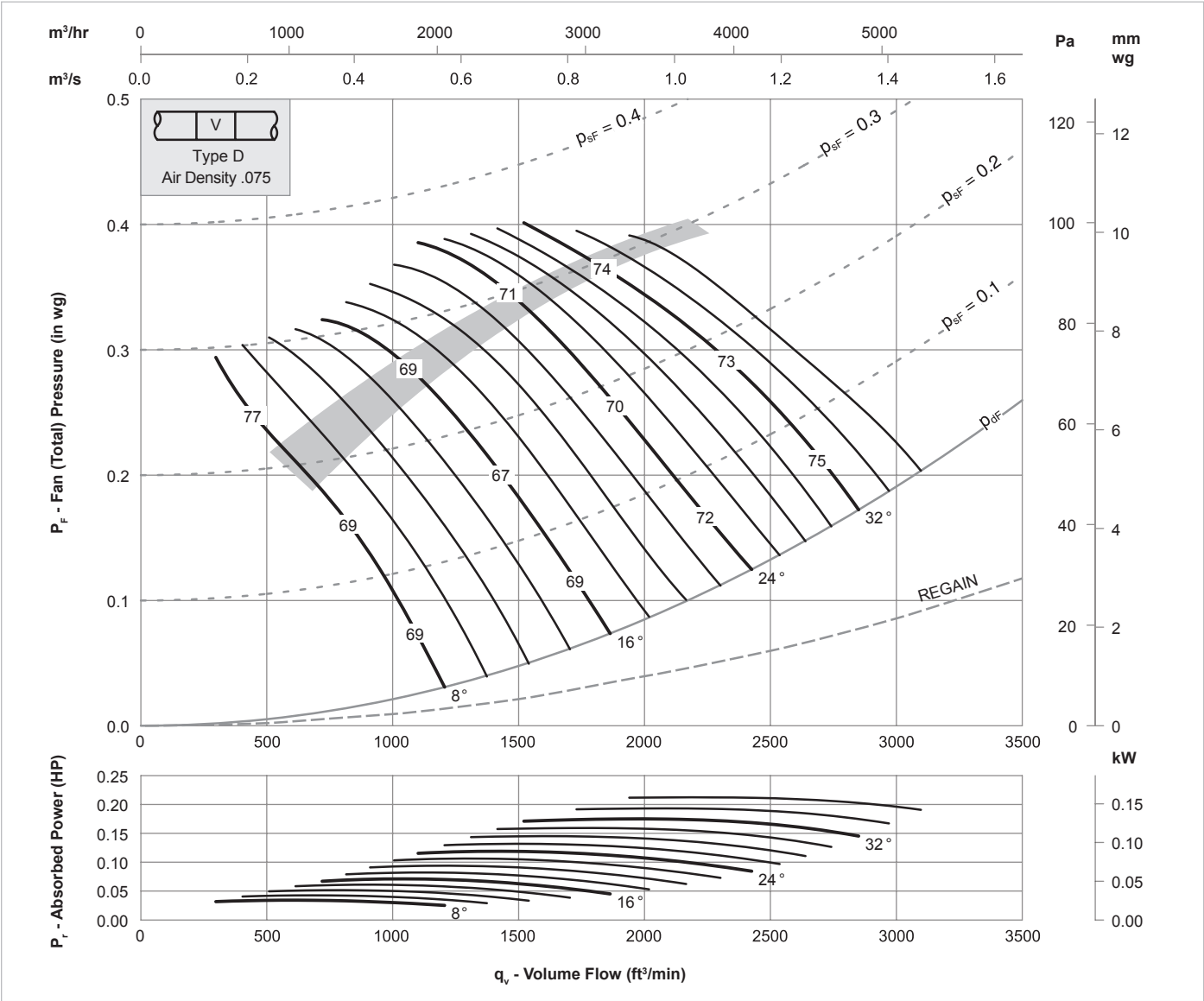
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 20 / 1170 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-4	-4	-11	-21	-28	-38
	-10	-9	-5	-6	-9	-13	-16	-21
16°	-7	-6	-5	-9	-13	-17	-21	-27
	-6	-8	-6	-8	-11	-15	-19	-24
24 - 36°	-4	-6	-7	-11	-13	-17	-20	-24
	-4	-7	-7	-10	-12	-17	-21	-26

Outlet Levels

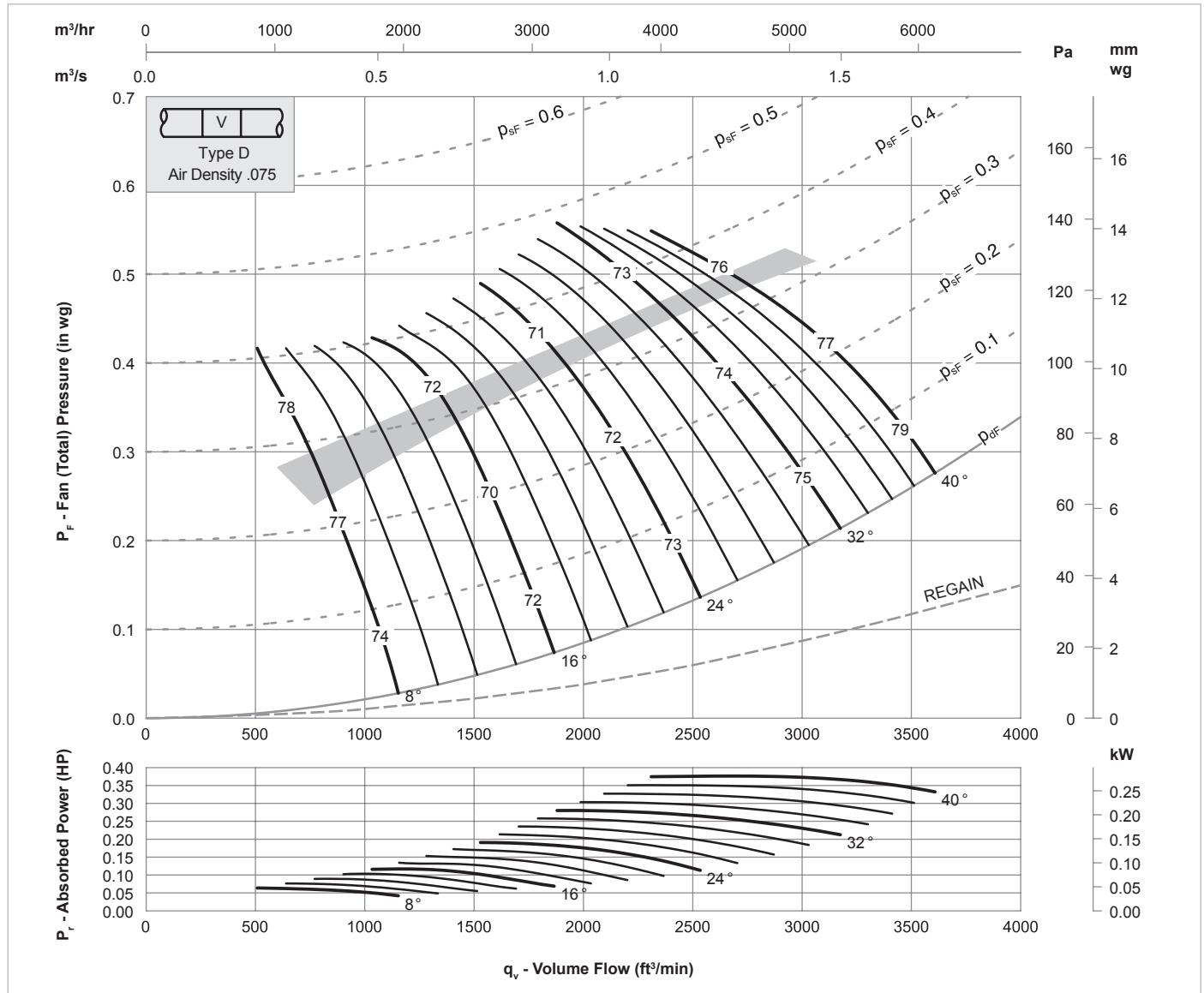
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-12	-4	4	-11	-20	-27	-36
	-7	-9	-5	-6	-9	-13	-15	-19
16°	-6	-6	-5	-9	-13	-16	-21	-26
	-3	-8	-6	-8	-11	-15	-18	-22
24 - 36°	-2	-6	-7	-10	-12	-16	-18	-21
	-1	-7	-7	-10	-12	-16	-20	-24

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 20 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-4	-4	-11	-20	-28	-38
	-16	-11	-5	-4	-8	-15	-19	-27
16°	-11	-6	-5	-8	-10	-14	-20	-25
	-13	-7	-5	-7	-9	-12	-16	-19
24 - 40°	-6	-6	-6	-9	-12	-16	-20	-25
	-8	-6	-6	-8	-11	-15	-19	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-9	-4	-4	-11	-19	-27	-36
	-15	-9	-5	-4	-8	-14	-18	-25
16°	-10	-4	-4	-8	-10	-14	-20	-24
	12	-5	-5	-7	-9	-12	-16	-19
24 - 40°	-5	-5	-5	-9	-11	-15	-18	-23
	-5	-3	-6	-8	-11	-15	-18	-22

End Reflection (dB)

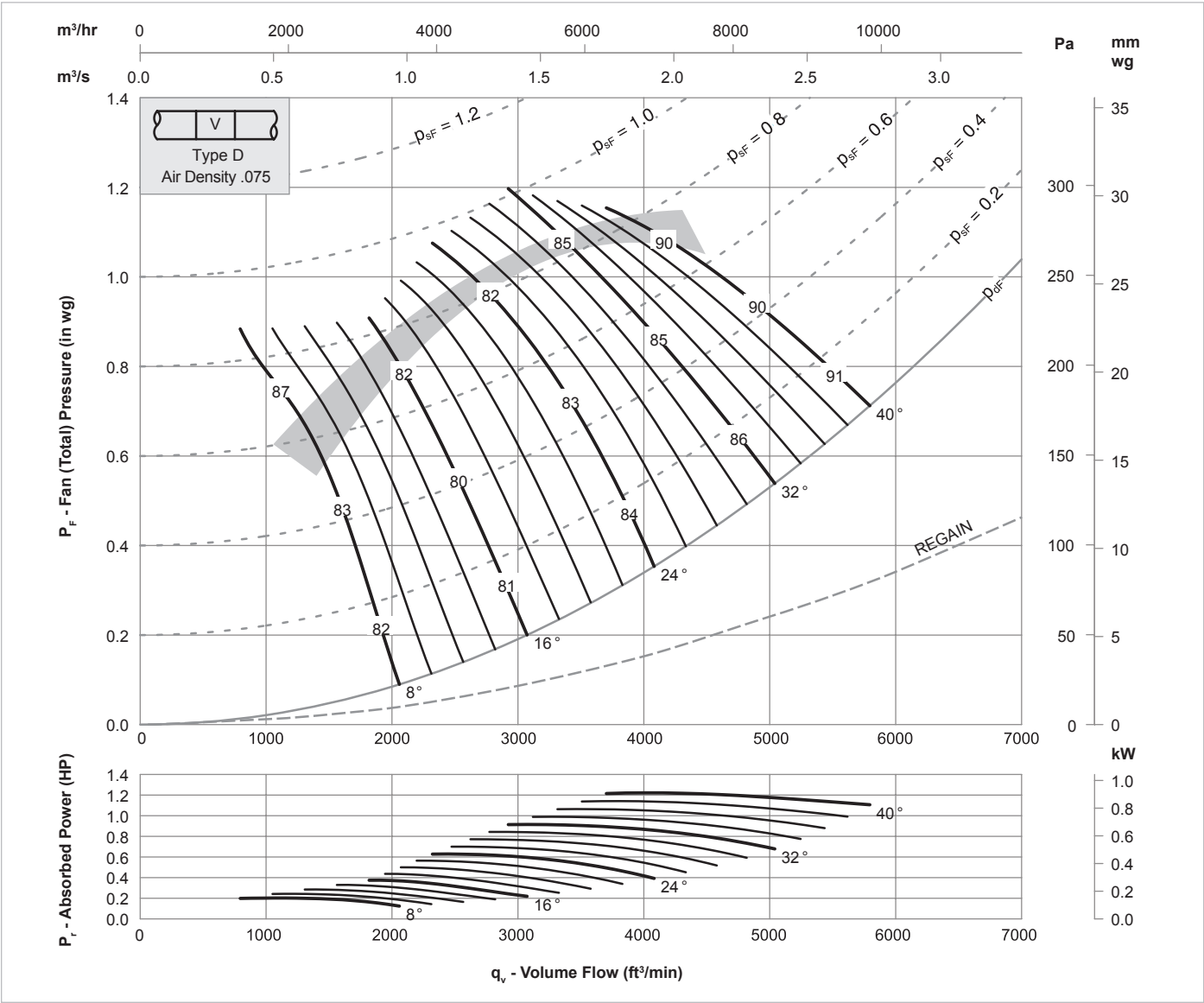
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 16 / 1770 / 5



Inlet Levels

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

Outlet Levels

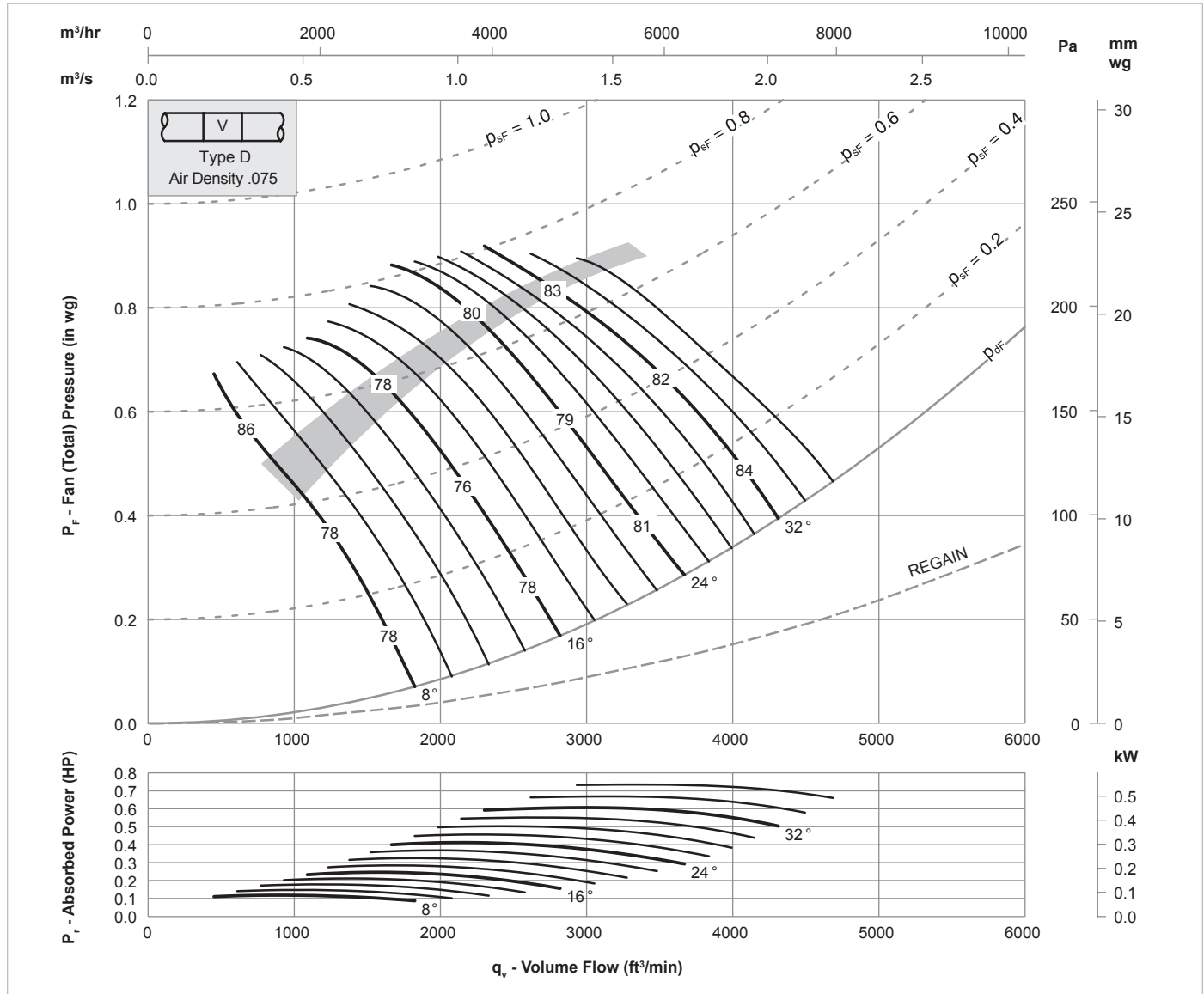
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-4	-8	-5	-8	-14	-21	-27
	-14	-6	-9	-7	-6	-9	-15	-20
16°	-9	-4	-8	-9	-9	-12	-17	-23
	-11	-2	-9	-11	-11	-12	-14	-17
24 - 40°	-4	-5	-9	-13	-13	-15	-17	-21
	-6	-4	-8	-11	-12	-14	-16	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 20 / 1770 / 3



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-15	-8	-3	-7	-15	-23	-30
	-8	-12	-7	-5	-6	-11	-12	-16
16°	-7	-7	-6	-6	-10	-14	-18	-23
	-4	-9	-6	-6	-9	-13	-16	-20
24 - 36°	-3	-7	-6	-9	-11	-14	-16	-19
	-2	-9	-6	-8	-11	-14	-17	-21

End Reflection (dB)

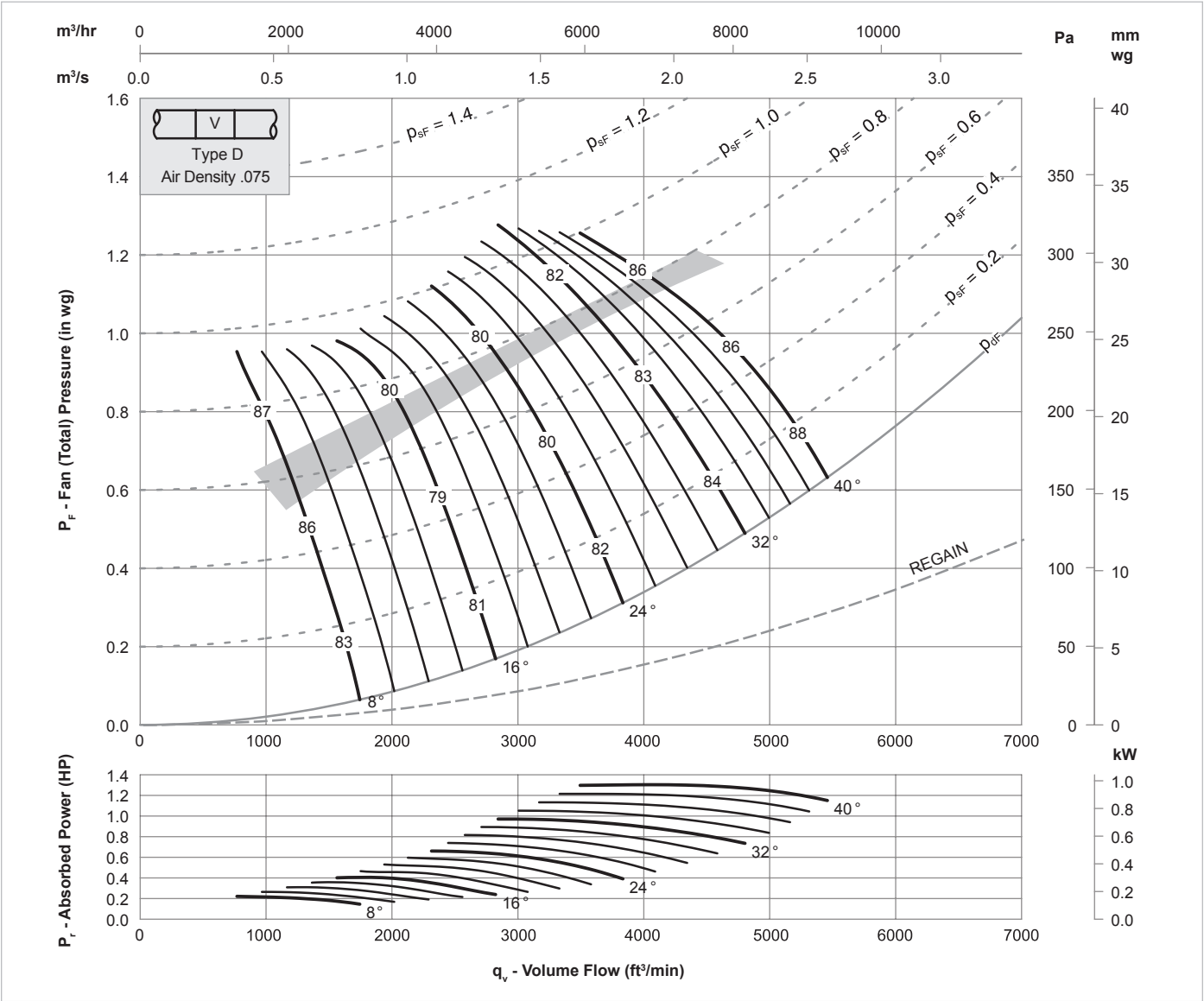
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 20 / 1770 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-12	-8	-3	-6	-15	-23	-32
	-19	-14	-8	-5	-4	-12	-16	-23
16°	-14	-7	-7	-5	-8	-12	-16	-22
	-15	-8	-8	-5	-7	-11	-13	-17
24 - 40°	-7	-6	-9	-7	-10	-14	-17	-22
	-9	-6	-8	-7	-9	-13	-16	-21

Outlet Levels

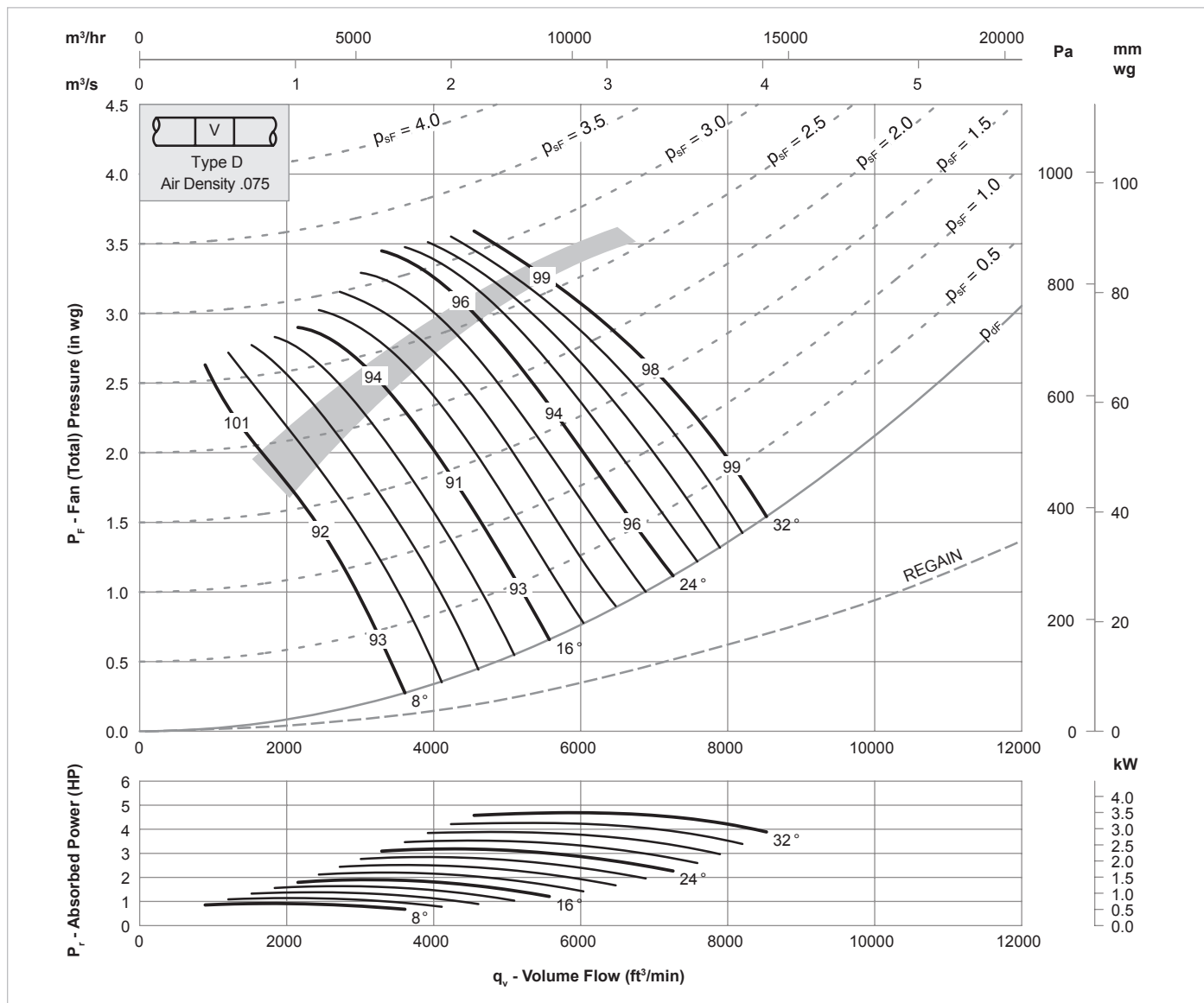
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-11	-8	-3	-6	-14	-22	-30
	-18	-12	-8	-5	-4	-11	-15	-21
16°	-13	-5	-7	-5	-8	-11	-16	-21
	-14	-6	-7	-5	-7	-11	-13	-17
24 - 40°	-5	-5	-8	-7	-9	-13	-16	-21
	-6	-4	-8	-7	-9	-13	-15	-20

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

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VXDA 18 / 20 / 3500 / 3



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-15	-15	-8	-3	-6	-15	-22
	-13	-8	-12	-7	-5	-6	-10	-12
16°	-8	-8	-7	-6	-6	-11	-15	-18
	-10	-5	-9	-7	-7	-9	-13	-15
24 - 32°	-7	-4	-8	-6	-10	-11	-14	-16
	-7	-2	-10	-7	-9	-10	-14	-17

End Reflection (dB)

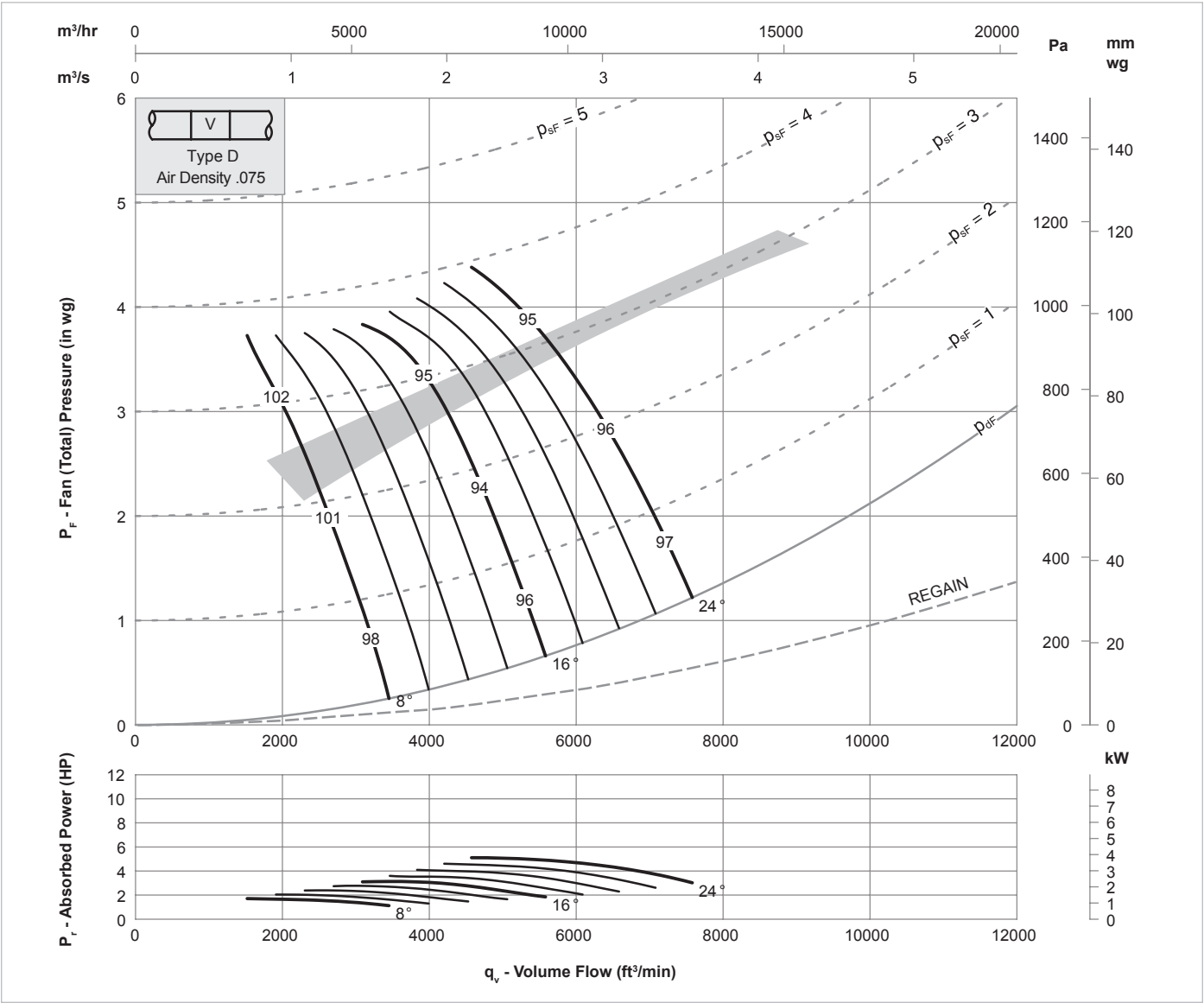
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 18 / 20 / 3500 / 6



Inlet Levels

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

Outlet Levels

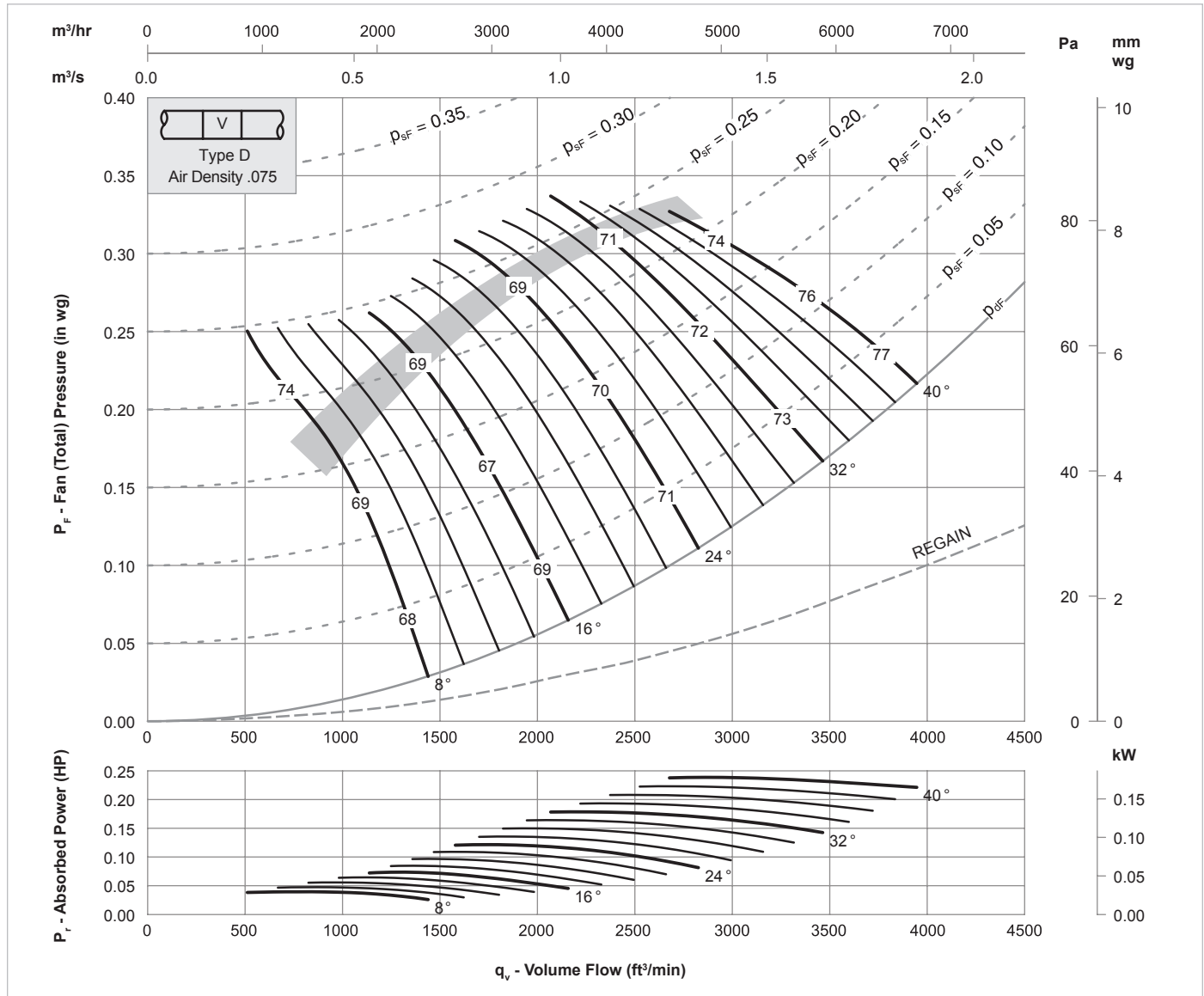
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-17	-11	-8	-3	-5	-15	-21
	-15	-19	-12	-8	-5	-4	-11	-15
16°	-8	-15	-6	-8	-5	-8	-12	-16
	-10	-15	-6	-7	-6	-7	-11	-13
24°	-7	-7	-6	-9	-7	-9	-13	-17
	-6	-9	-5	-8	-8	-9	-13	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

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VXDA 20 / 16 / 875 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-9	-4	-7	-13	-20	-27	-36
	-7	-10	-7	-5	-9	-14	-21	-29
16°	-6	-9	-5	-7	-11	-17	-24	-31
	-3	-8	-9	-11	-12	-15	-21	-27
24 - 40°	-3	-8	-9	-10	-12	-15	-19	-23
	-3	-8	-9	-11	-14	-17	-22	-27

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-9	-3	-7	-12	-20	-26	-33
	-6	-10	-7	-5	-9	-13	-20	-27
16°	-6	-9	-5	-7	-11	-17	-23	-29
	-2	-8	-9	-11	-12	-15	-20	-25
24 - 40°	-2	-8	-9	-10	-12	-15	-19	-22
	-2	-7	-9	-11	-14	-17	-21	-26

End Reflection (dB)

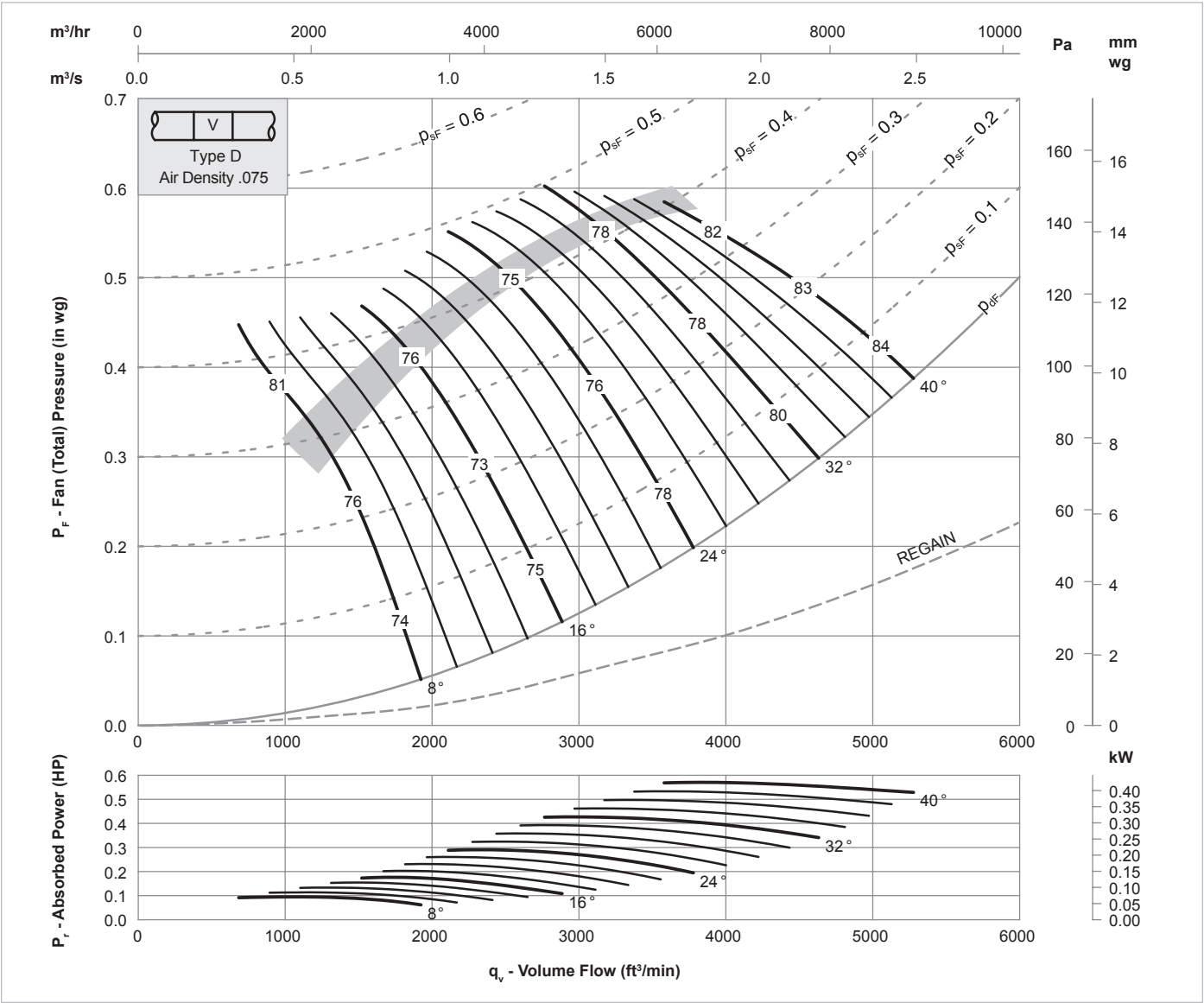
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 20 / 16 / 1170 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-6	-4	-10	-17	-24	-32
	-13	-7	-9	-5	-7	-12	-17	-25
16°	-10	-7	-9	-4	-9	-14	-21	-28
	-8	-4	-8	-9	-11	-13	-18	-24
24 - 40°	-5	-5	-9	-10	-12	-14	-18	-22
	-5	-5	-8	-10	-13	-16	-20	-25

Outlet Levels

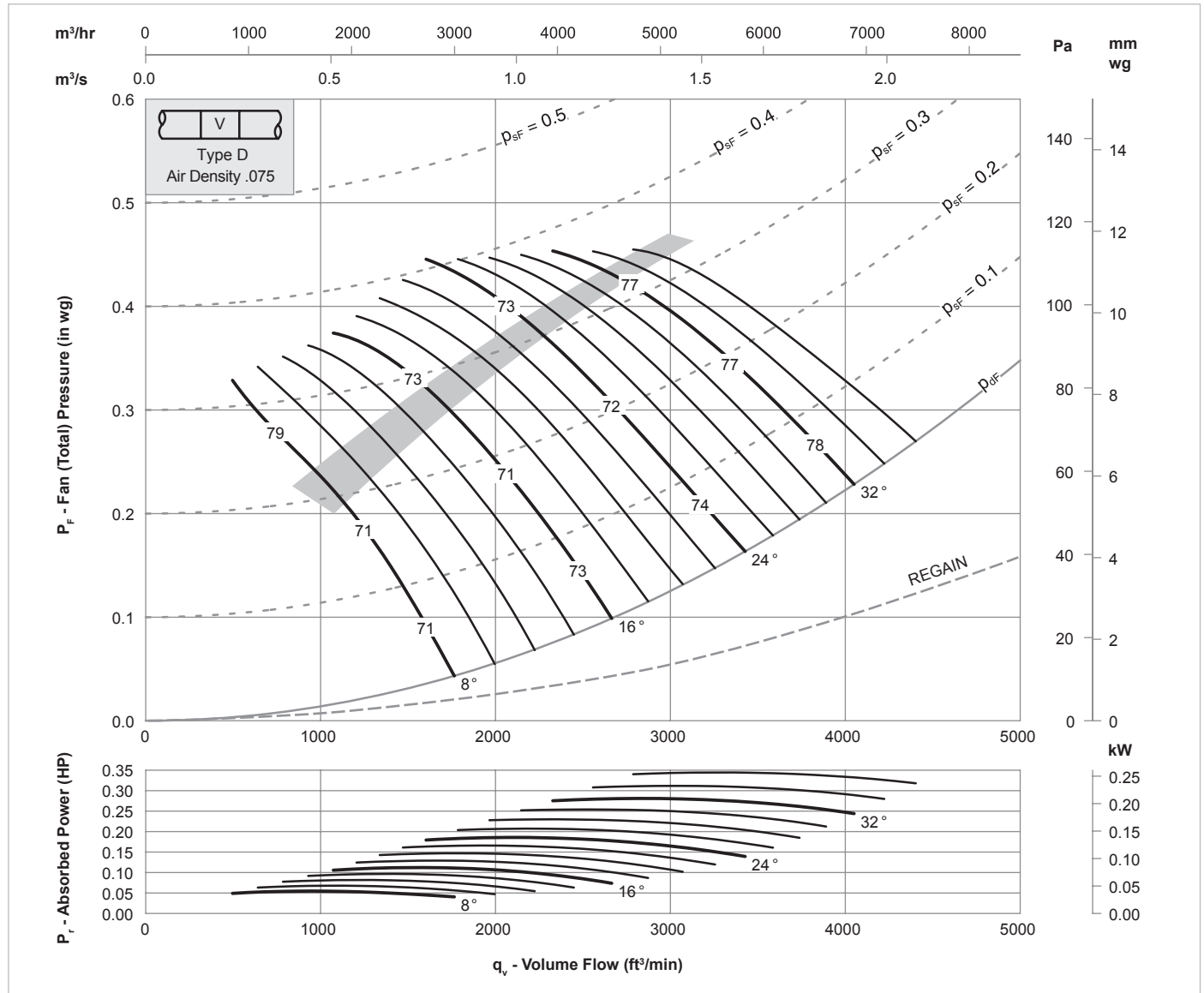
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-6	-6	-4	-10	-17	-23	-30
	-13	-6	-9	-5	-7	-10	-17	-24
16°	-9	-7	-9	-4	-9	-14	-20	-26
	-8	-3	-8	-9	-11	-13	-17	-23
24 - 40°	-4	-5	-9	-9	-12	-14	-17	-21
	-5	-4	-8	-10	-13	-15	-19	-24

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

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VXDA 20 / 20 / 1170 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-5	-3	-10	-19	-27	-37
	-8	-9	-6	-6	-9	-13	-16	-20
16°	-8	-6	-5	-8	-13	-17	-21	-26
	-5	-7	-6	-9	-12	-17	-19	-24
24 - 36°	-5	-6	-7	-10	-12	-16	-19	-23
	-4	-7	-7	-10	-13	-17	-21	-26

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-12	-5	-3	-10	-19	-26	-35
	-5	-9	-6	-6	-9	-13	-14	-18
16°	-6	-6	-5	-8	-13	-16	-20	-25
	-3	-7	-6	-8	-12	-16	-18	-23
24 - 36°	-3	-6	-7	-9	-12	-15	-17	-21
	-1	-7	-7	-10	-13	-17	-20	-24

End Reflection (dB)

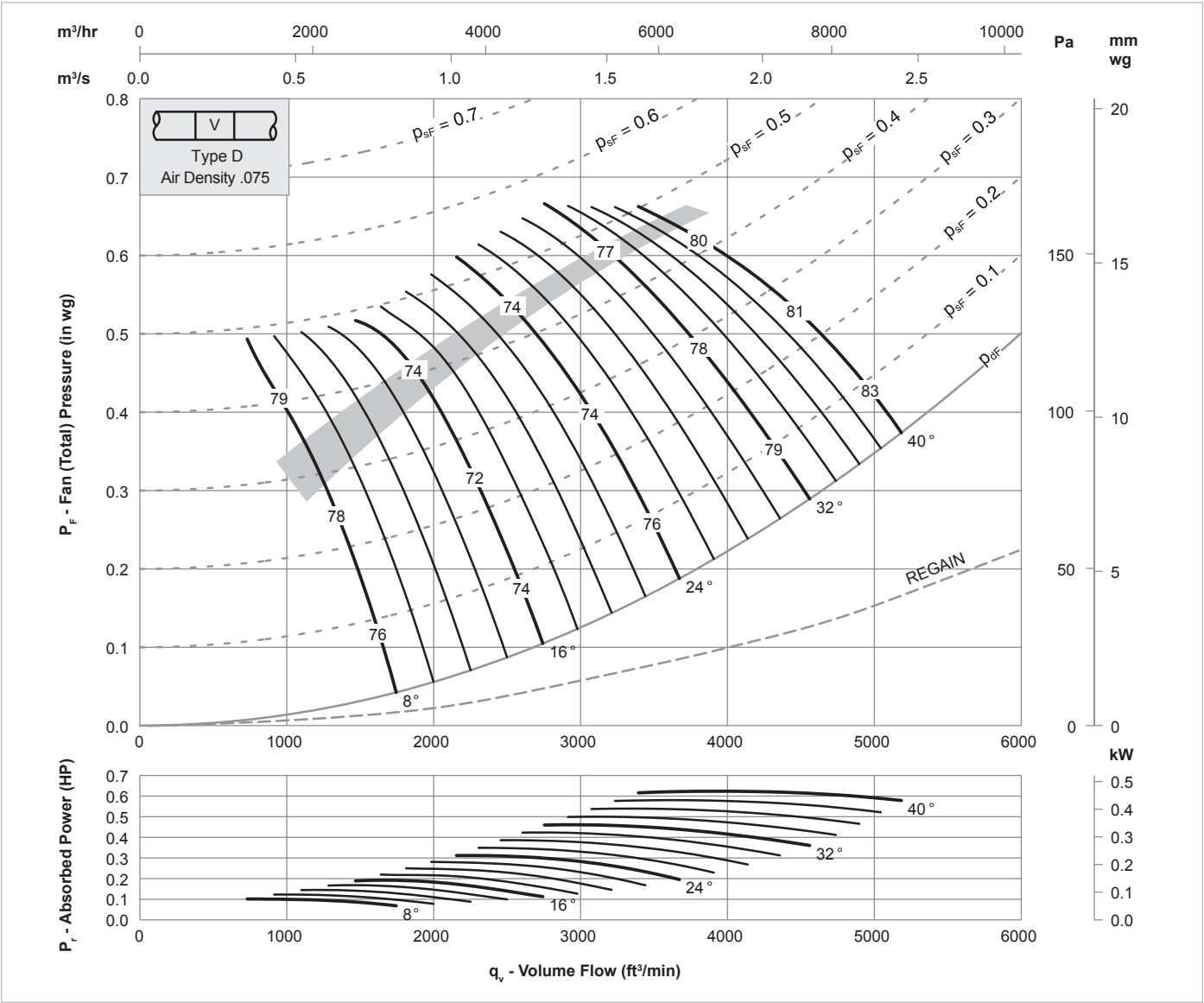
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 20 / 20 / 1170 / 6



Inlet Levels

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

Outlet Levels

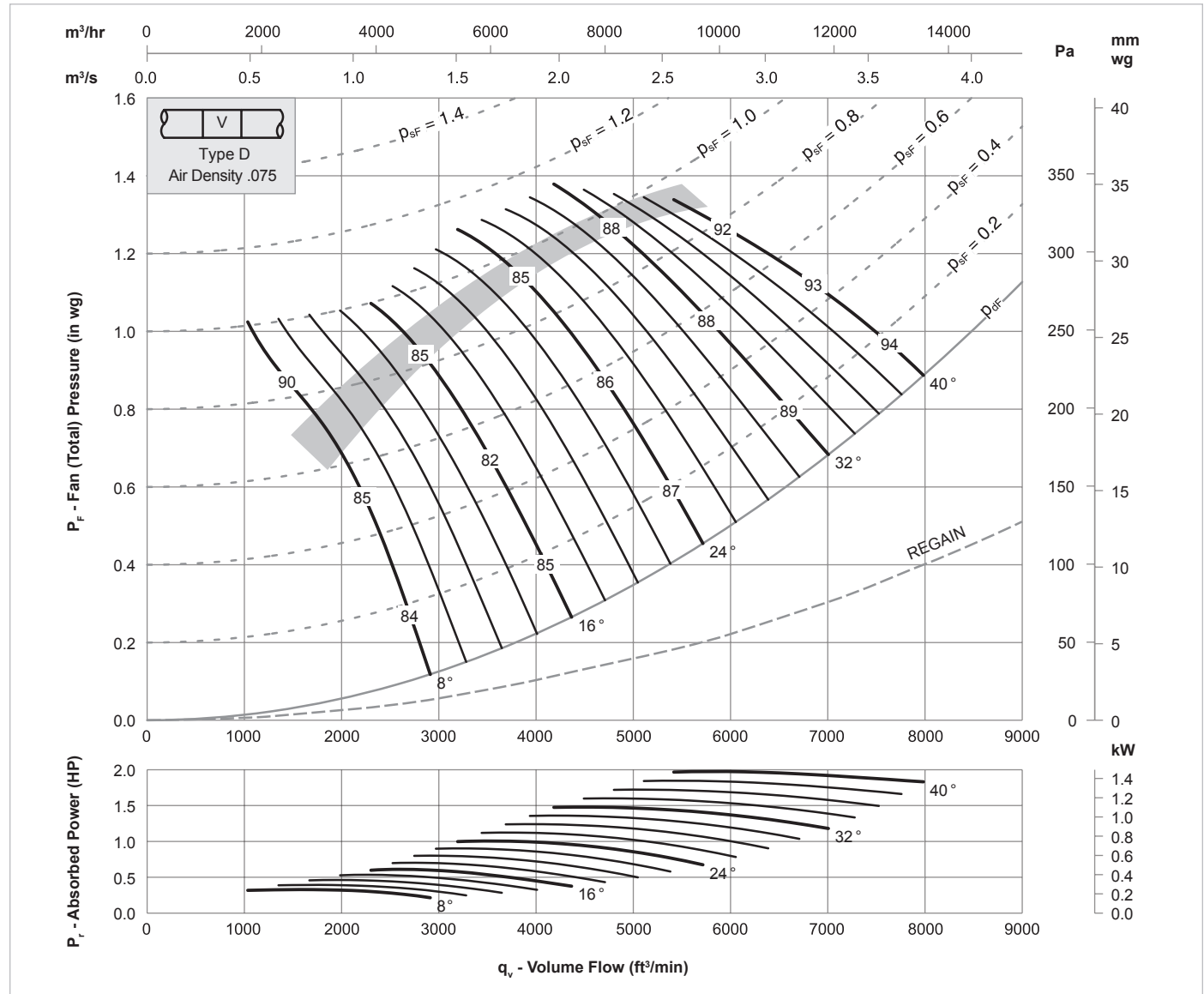
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-6	-3	-9	-17	-25	-35
	-17	-8	-6	-4	-7	-13	-17	-23
16°	-12	-4	-5	-6	-10	-14	-20	-25
	-12	-3	-6	-7	-10	-13	-16	-19
24 - 40°	-5	-4	-6	-9	-11	-14	-17	-21
	-5	-3	-7	-9	-12	-15	-18	-22

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 20 / 16 / 1770 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-10	-4	-8	-13	-21	-28
	-15	-7	-10	-7	-6	-9	-14	-21
16°	-13	-7	-10	-6	-8	-11	-18	-25
	-12	-3	-9	-10	-11	-12	-15	-21
24 - 40°	-6	-5	-10	-11	-12	-14	-17	-21
	-7	-4	-9	-11	-12	-15	-18	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-6	-9	-4	-7	-12	-20	-25
	-15	-6	-10	-7	-5	-8	-13	-19
16°	-12	-7	-9	-5	-7	-11	-16	-22
	-11	-3	-8	-9	-11	-12	-14	-19
24 - 40°	-5	-4	-9	-11	-12	-14	-16	-19
	-6	-3	-9	-10	-12	-15	-17	-21

End Reflection (dB)

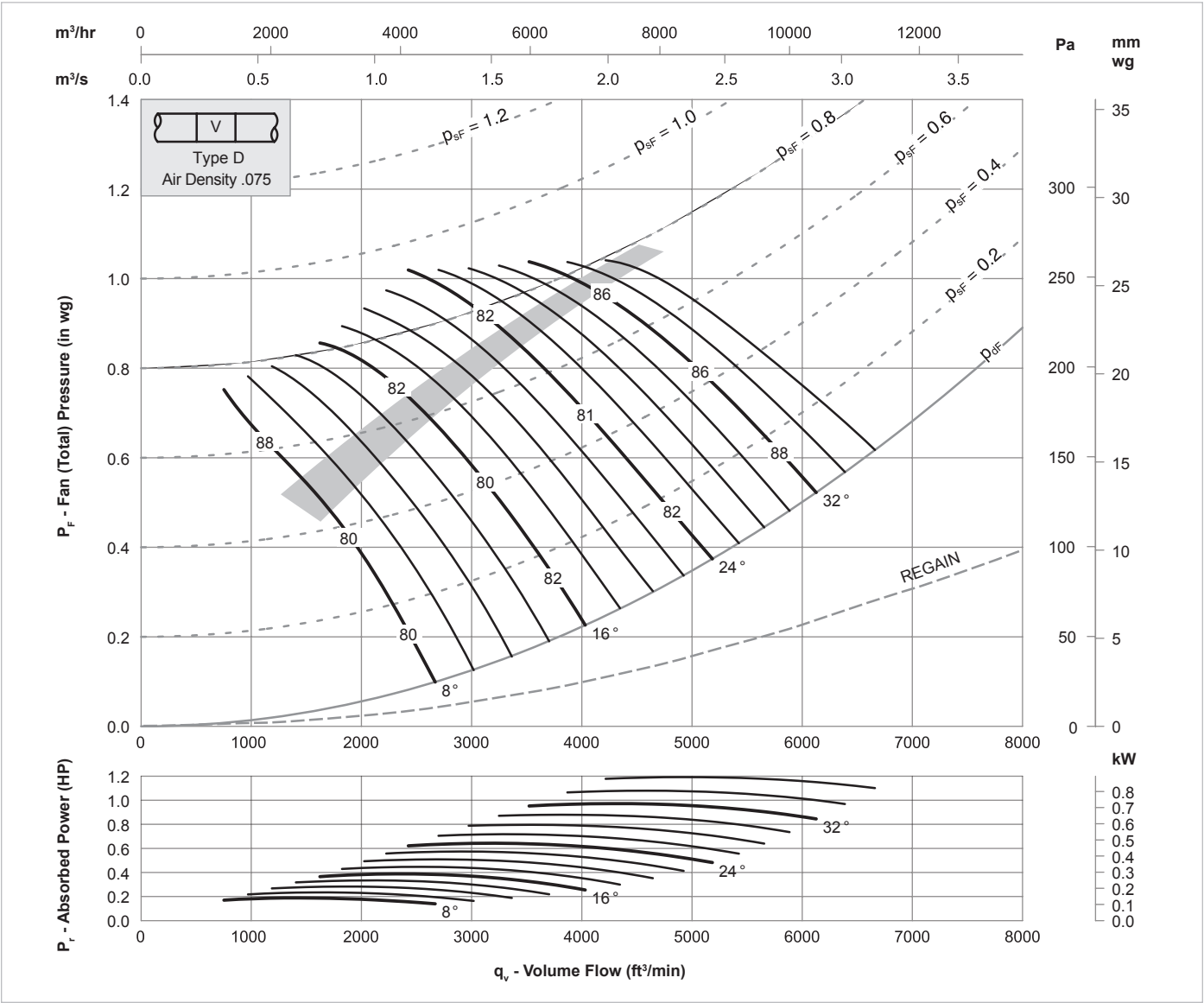
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 20 / 20 / 1770 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-17	-9	-3	-5	-14	-22	-31
	-9	-12	-7	-6	-6	-12	-14	-18
16°	-9	-8	-5	-6	-10	-15	-18	-23
	-6	-10	-6	-7	-10	-14	-17	-21
24 - 36°	-5	-9	-6	-9	-10	-14	-18	-21
	-4	-10	-6	-8	-11	-15	-19	-23

Outlet Levels

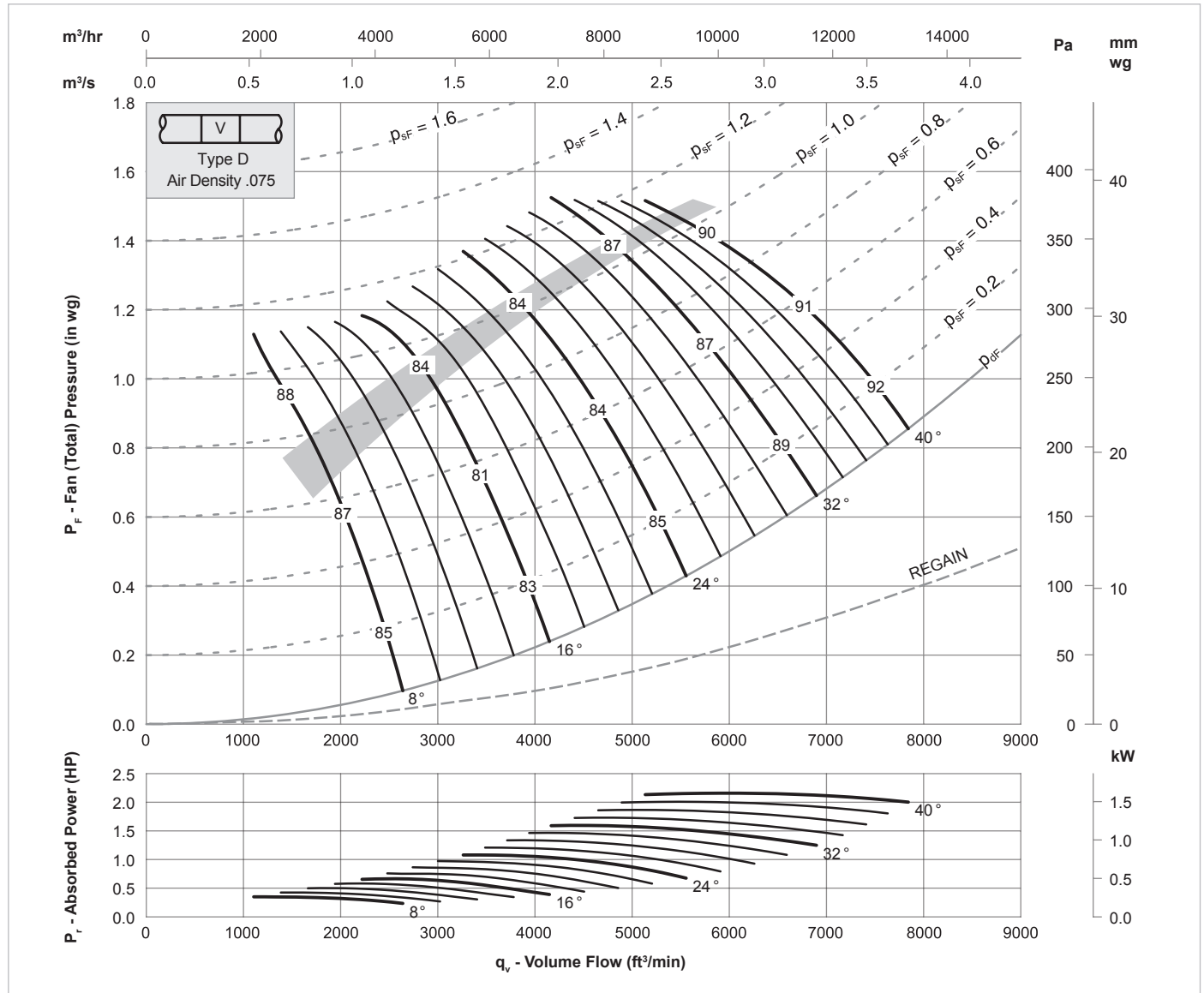
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-9	-3	-5	-13	-22	-29
	-6	-11	-7	-6	-6	-11	-12	-15
16°	-7	-8	-5	-6	-10	-15	-17	-22
	-3	-9	-6	-7	-9	-14	-16	-20
24 - 36°	-3	-8	-6	-8	-10	-13	-16	-19
	-1	-9	-6	-8	-11	-14	-17	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 20 / 20 / 1770 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-13	-11	-4	-4	-13	-21	-30
	-19	-12	-9	-6	-4	-11	-15	-21
16°	-15	-6	-8	-5	-7	-12	-17	-23
	-14	-6	-8	-6	-7	-12	-14	-18
24 - 40°	-7	-5	-9	-8	-10	-14	-17	-21
	-7	-5	-9	-8	-10	-14	-17	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-11	-10	-4	-4	-12	-21	-29
	-18	-10	-8	-6	-4	-10	-14	-19
16°	-14	-5	-8	-5	-7	-12	-16	-22
	-13	-4	-7	-6	-7	-12	-14	-17
24 - 40°	-5	-4	-9	-7	-10	-13	-15	-19
	-5	-3	-8	-8	-10	-14	-16	-20

End Reflection (dB)

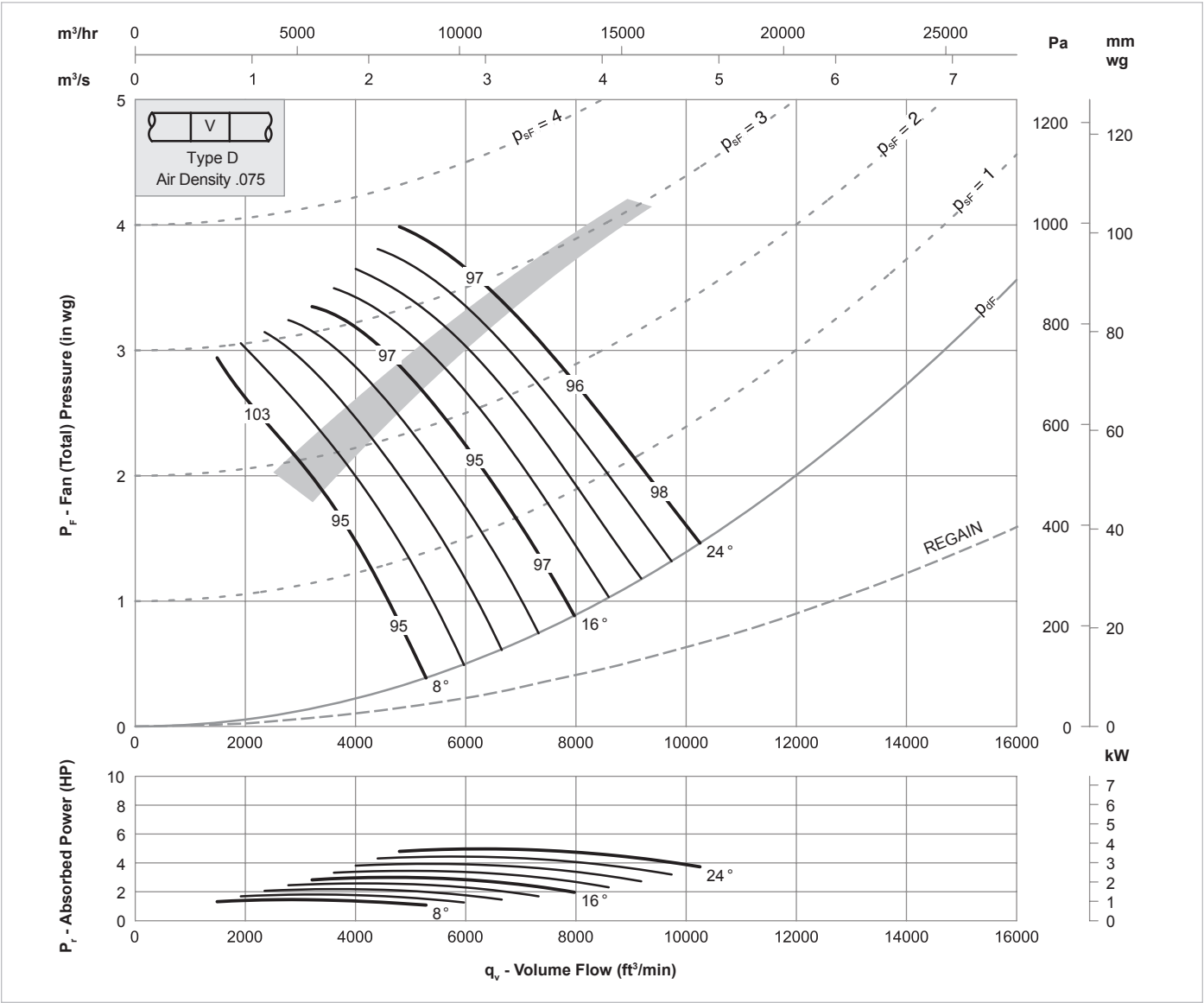
63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 20 / 20 / 3500 / 3



Inlet Levels

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

Outlet Levels

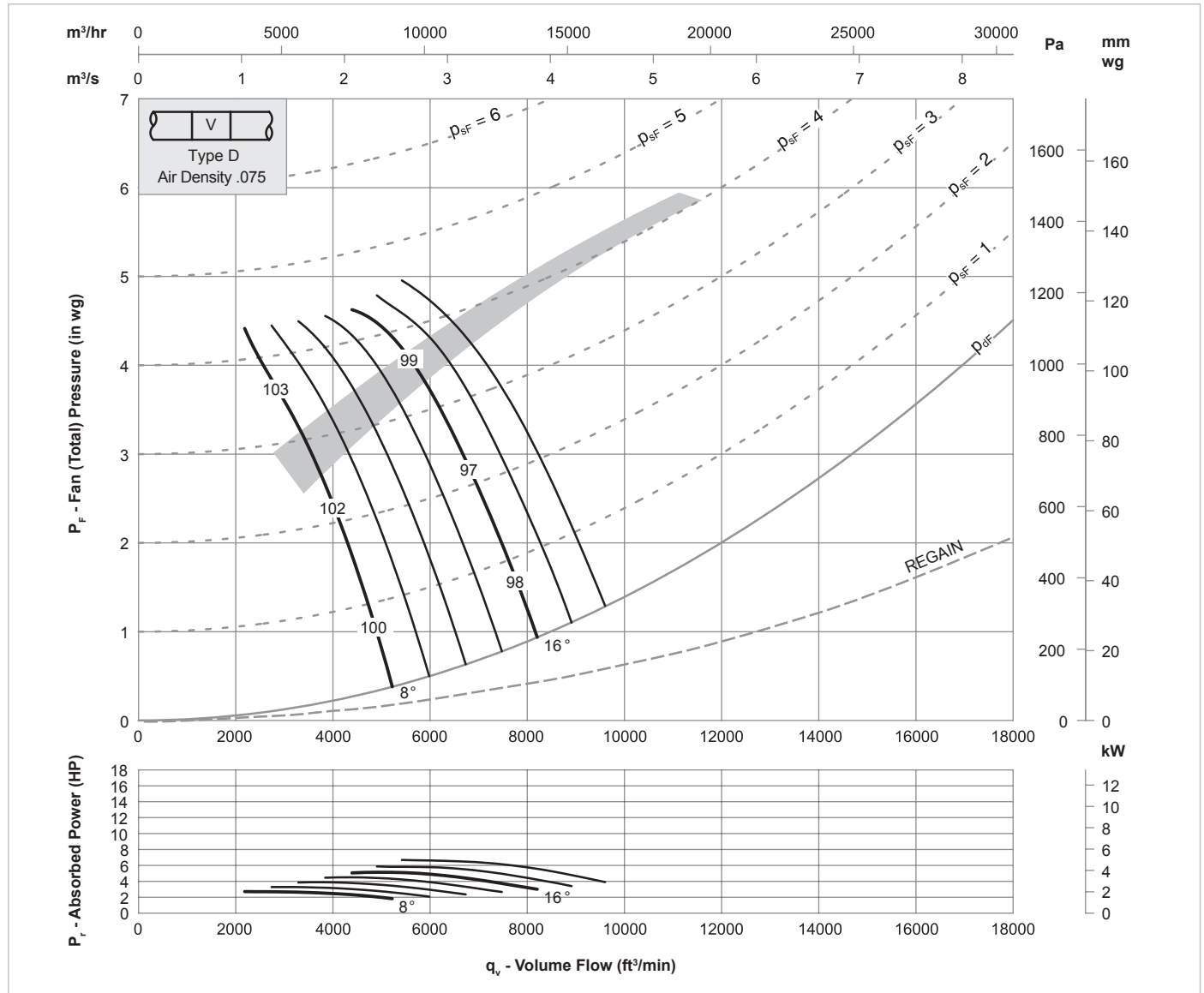
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-15	-16	-9	-3	-4	-13	-20
	-13	-6	-12	-7	-6	-6	-10	-11
16°	-9	-8	-8	-5	-6	-10	-15	-18
	-9	-4	-10	-6	-7	-10	-14	-16
24°	-7	-4	-9	-6	-9	-10	-13	-16
	-7	-2	-10	-7	-9	-10	-15	-17

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

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VXDA 20 / 20 / 3500 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-21	-14	-11	-5	-5	-13	-22
	-16	-20	-13	-9	-6	-4	-11	-16
16 - 20°	-10	-16	-7	-9	-6	-8	-13	-17
	-10	-15	-7	-8	-7	-8	-12	-15

Outlet Levels

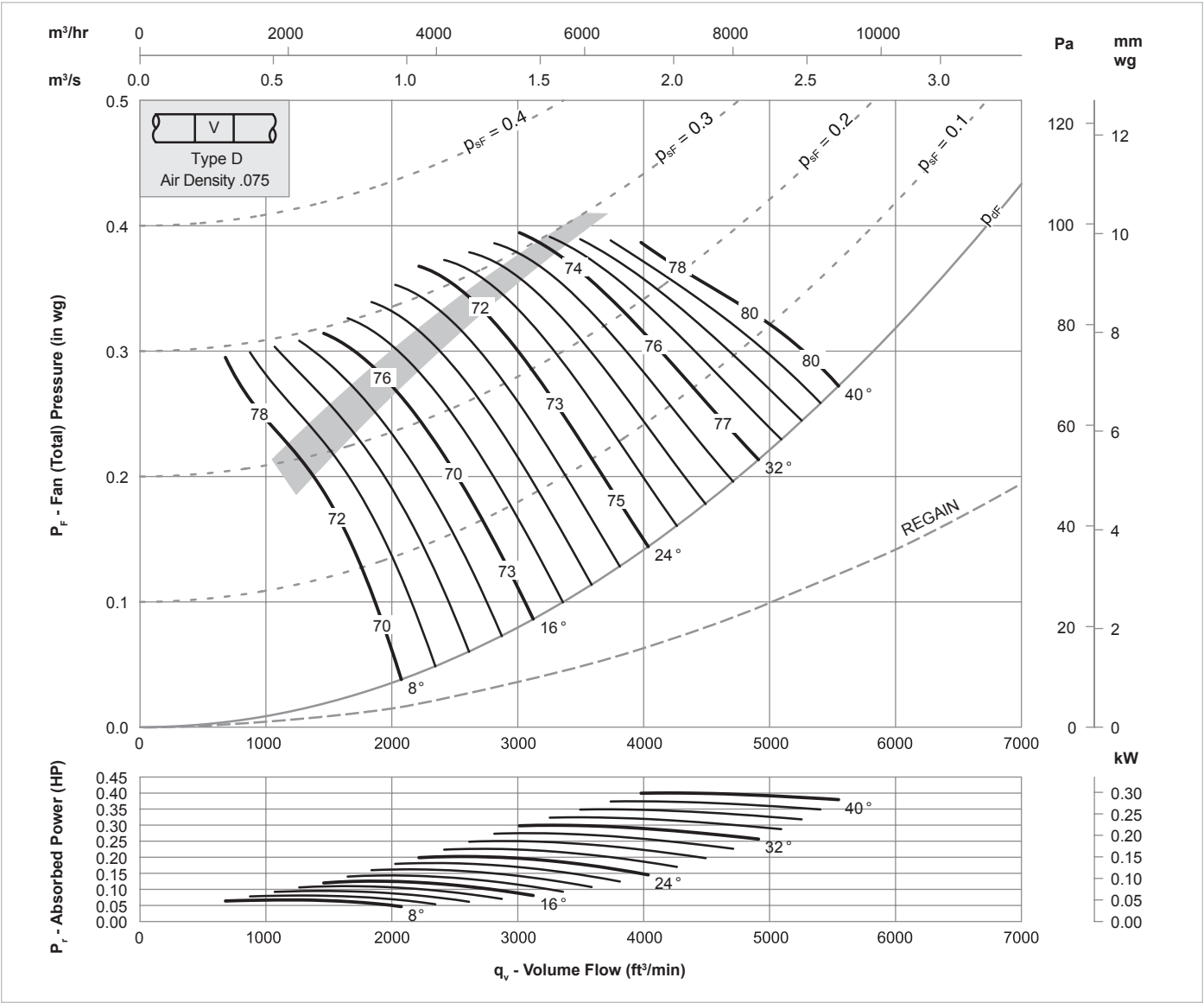
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-20	-11	-10	-4	-3	-12	-20
	-14	-20	-11	-8	-6	-3	-10	-14
16 - 20°	-8	-16	-5	-8	-5	-7	-12	-16
	-8	-14	-5	-8	-6	-8	-12	-14

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-10	-5	-2	0	0	0	0	0

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 Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 16 / 875 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-11	-3	-6	-11	-19	-26	-35
	-7	-11	-7	-5	-8	-13	-19	-27
16°	-11	-12	-3	-6	-11	-18	-25	-33
	-3	-9	-8	-11	-13	-15	-20	-27
24 - 40°	-3	-9	-7	-10	-12	-15	-19	-23
	-2	-8	-8	-11	-14	-17	-22	-27

Outlet Levels

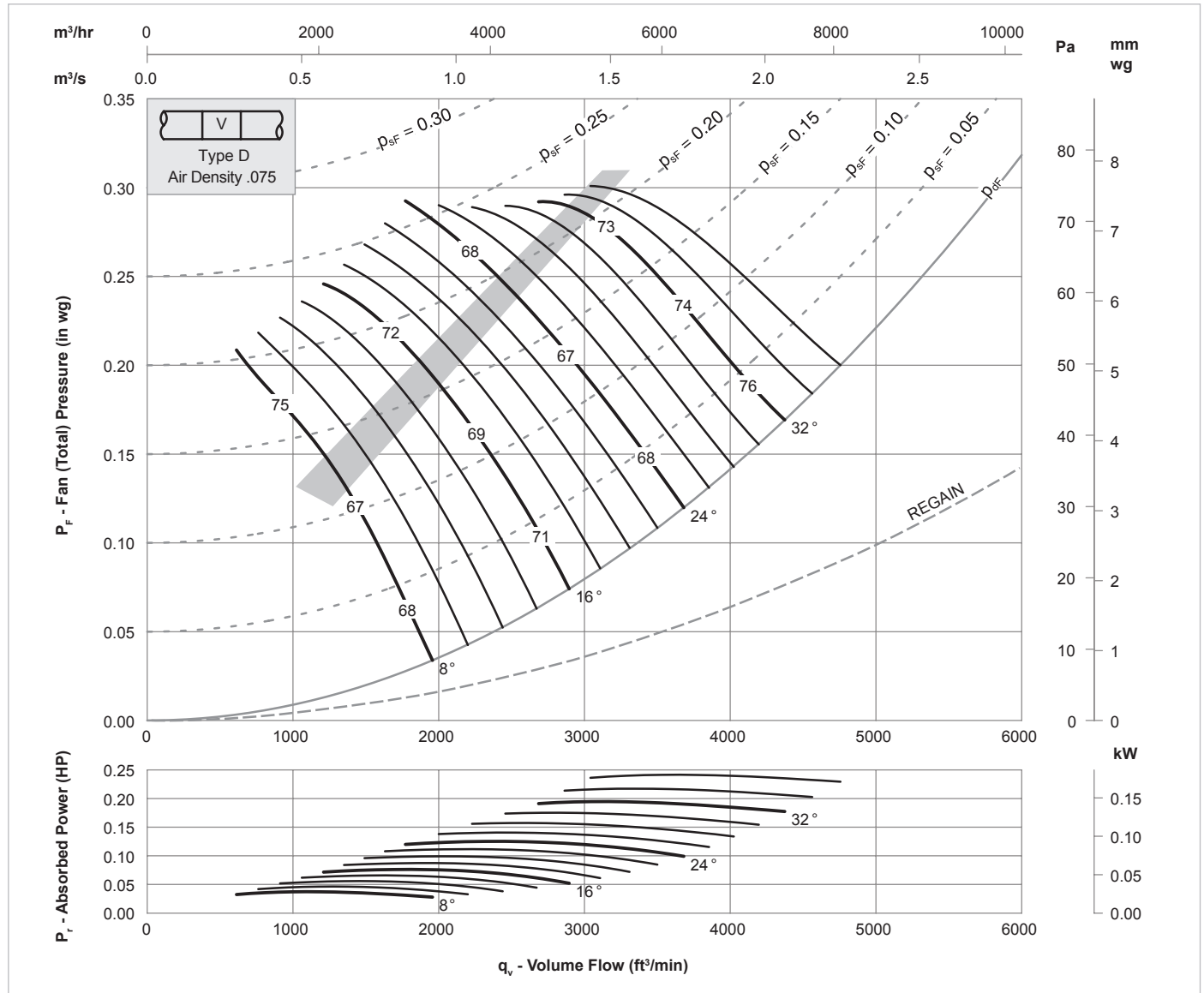
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-10	-3	-6	-11	-19	-25	-33
	-6	-11	-7	-5	-8	-12	-19	-26
16°	-10	-12	-3	-6	-11	-18	-24	-32
	-3	-8	-8	-11	-13	-15	-20	-25
24 - 40°	-3	-9	-7	-10	-12	-15	-18	-22
	-2	-8	-8	-11	-14	-17	-21	-25

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 20 / 875 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-10	-4	-4	-13	-21	-30	-40
	-5	-7	-7	-7	-12	-14	-17	-21
16°	-6	-5	-6	-10	-16	-18	-22	-27
	-4	-6	-8	-10	-16	-18	-22	-27
24 - 36°	-5	-6	-8	-9	-14	-17	-21	-25
	-3	-6	-8	-10	-16	-19	-23	-28

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-9	-4	-4	-13	-21	-29	-38
	-3	-7	-7	-7	-12	-13	-15	-19
16°	-4	-5	-6	-10	-16	-18	-21	-26
	-2	-6	-8	-10	-16	-18	-21	-26
24 - 36°	-3	-5	-8	-9	-13	-16	-19	-23
	0	-6	-8	-10	-16	-18	-22	-26

End Reflection (dB)

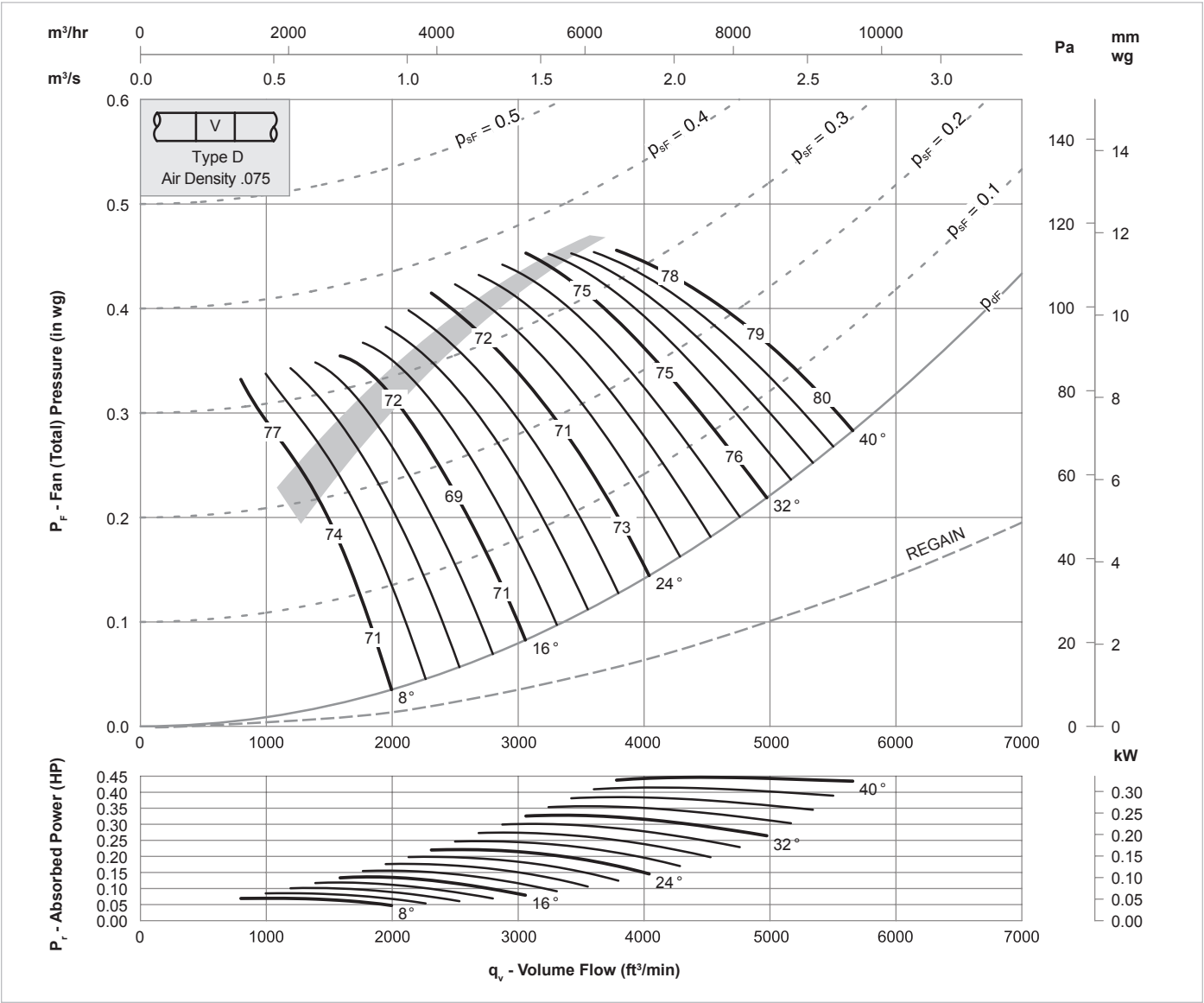
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 20 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-14	-6	-3	-11	-20	-29	-40
	-11	-10	-7	-3	-10	-15	-20	-26
16°	-6	-9	-5	-7	-13	-17	-24	-31
	-5	-8	-6	-8	-13	-15	-18	-23
24 - 40°	-4	-9	-7	-10	-12	-15	-18	-22
	-3	-8	-7	-10	-13	-17	-21	-25

Outlet Levels

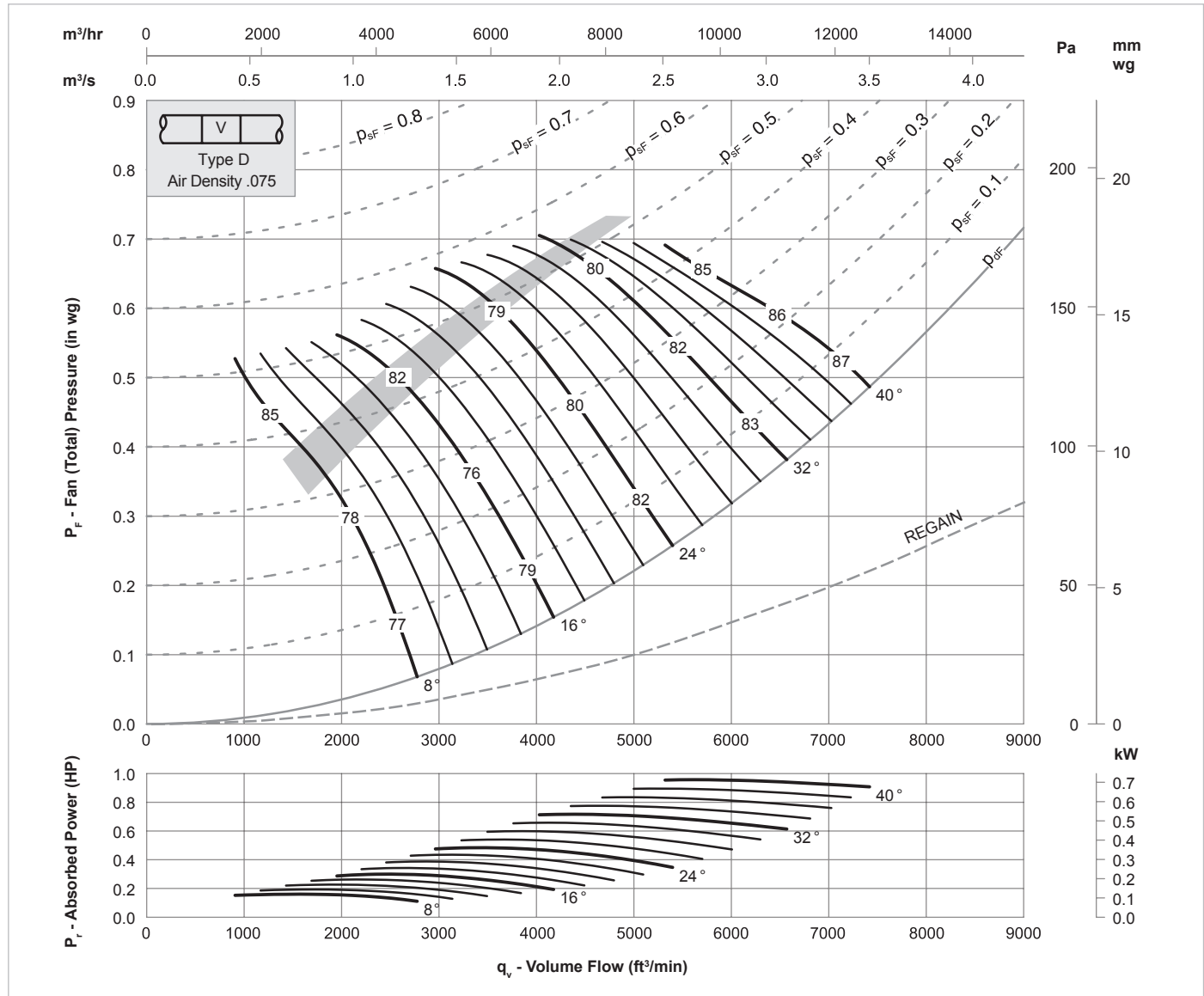
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-13	-6	-3	-11	-20	-29	-38
	-9	-9	-7	-3	-10	-14	-19	-24
16°	-4	-9	-5	-7	-12	-19	-23	-30
	-3	-7	-6	-8	-13	-15	-18	-22
24 - 40°	-2	-8	-7	-9	-12	-14	-17	-20
	-1	-7	-7	-10	-13	-16	-20	-24

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 16 / 1170 / 5



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-6	-4	-8	-16	-23	-31
	-13	-8	-9	-5	-6	-11	-16	-24
16°	-14	-11	-6	-3	-8	-15	-22	-30
	-9	-4	-7	-9	-11	-14	-17	-24
24 - 40°	-7	-5	-8	-8	-11	-14	-17	-21
	-6	-4	-8	-9	-13	-16	-20	-25

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-9	-6	-4	-8	-16	-22	-29
	-13	-6	-9	-5	-6	-10	-15	-23
16°	-14	-11	-6	-3	-8	-15	-21	-28
	-8	-4	-7	-9	-11	-14	-17	-23
24 - 40°	-5	-5	-8	-8	-11	-14	-16	-20
	-5	-4	-8	-9	-13	-16	-19	-23

End Reflection (dB)

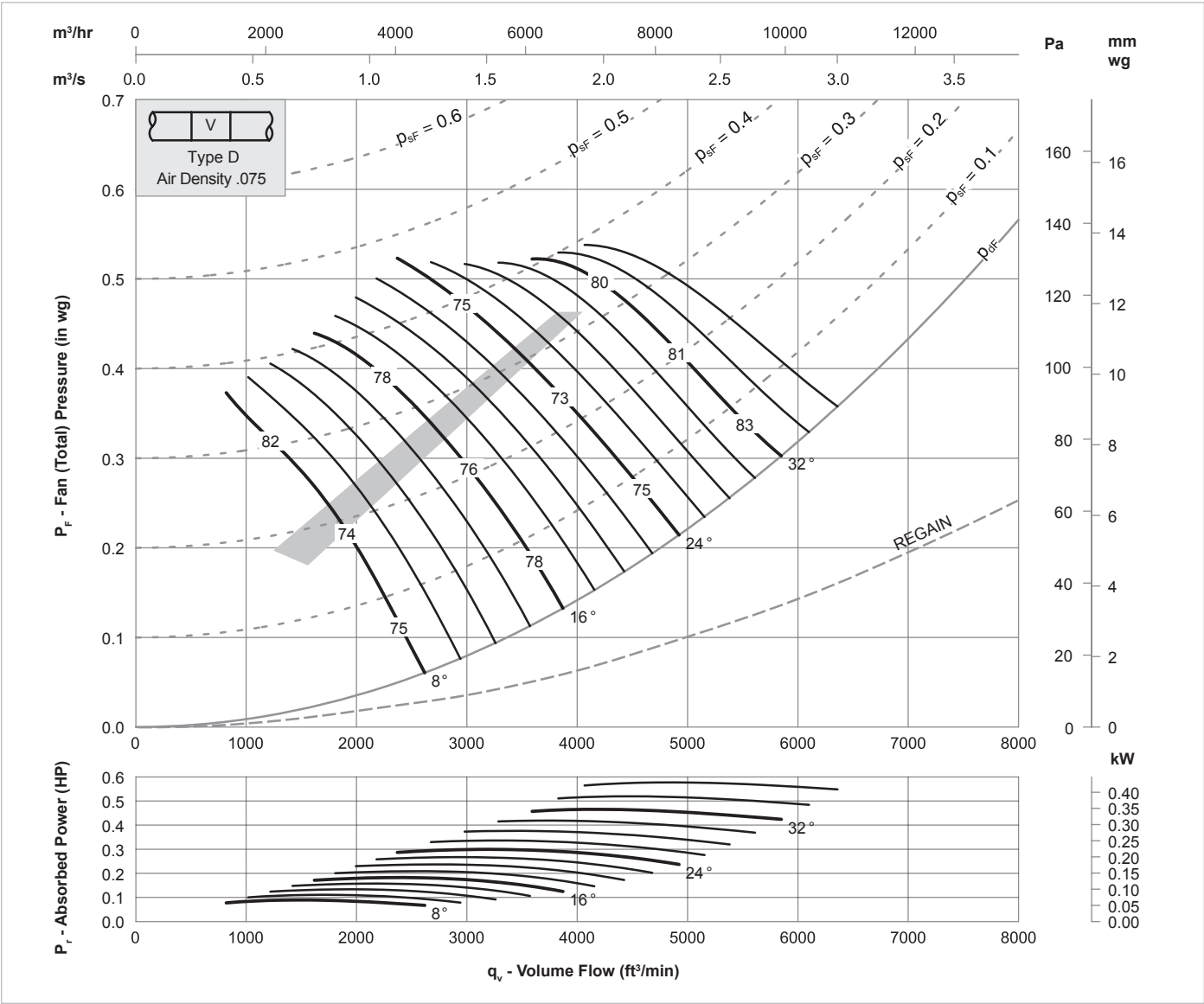
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 20 / 1170 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-11	-6	-2	-11	-19	-27	-37
	-6	-8	-7	-7	-10	-14	-16	-20
16°	-7	-5	-5	-9	-15	-18	-21	-26
	-5	-6	-6	-9	-14	-18	-20	-25
24 - 36°	-6	-6	-7	-9	-12	-16	-19	-24
	-4	-6	-7	-10	-14	-18	-21	-27

Outlet Levels

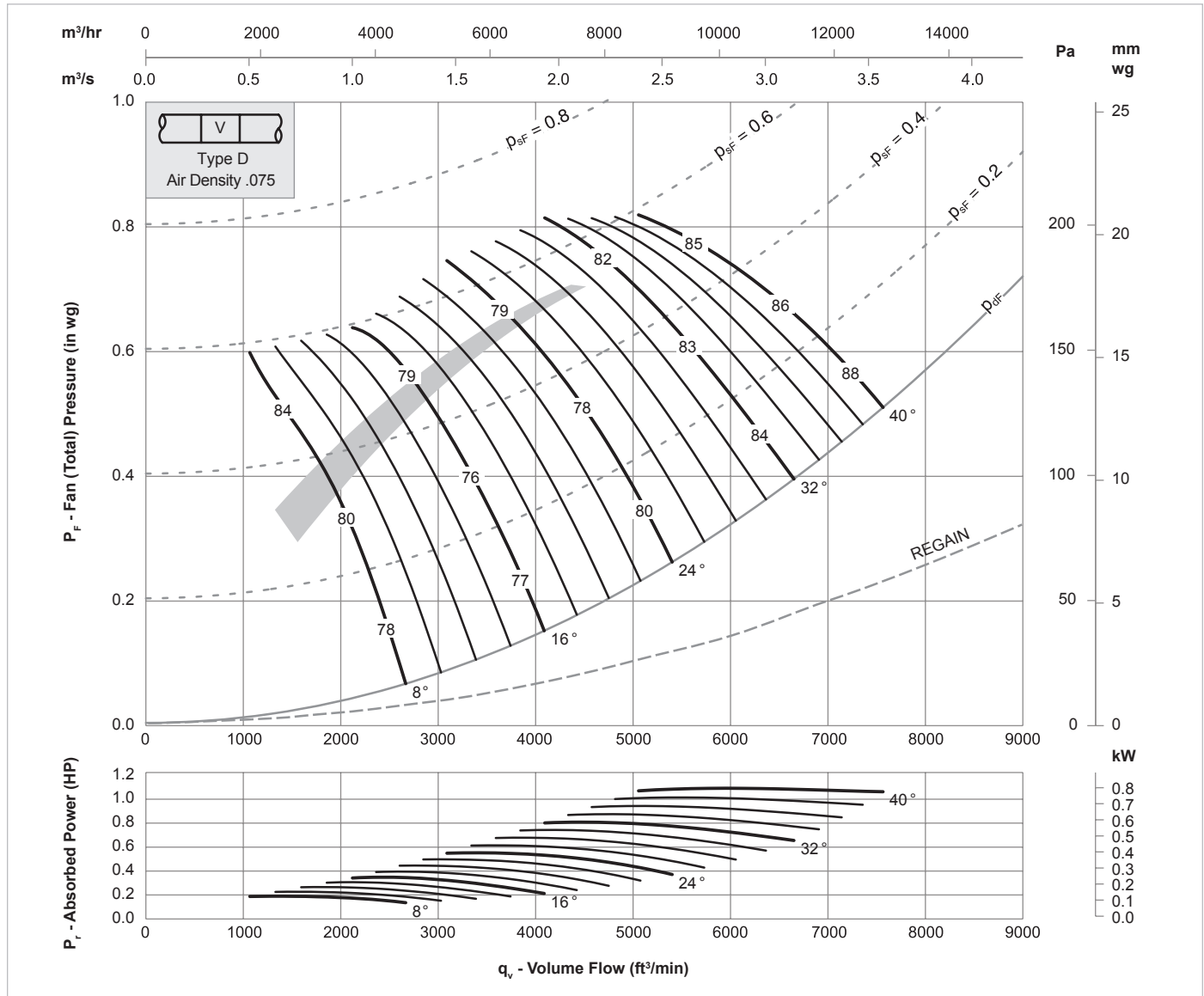
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-11	-6	-2	-11	-19	-26	-35
	-3	-8	-7	-7	-10	-13	-14	-17
16°	-5	-5	-5	-9	-14	-17	-20	-25
	-2	-6	-6	-9	-14	-18	-19	-24
24 - 36°	-4	-5	-7	-8	-11	-15	-17	-21
	-1	-6	-7	-10	-14	-17	-20	-25

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 20 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-23	-12	-10	-2	-8	-17	-26	-37
	-20	-9	-8	-4	-8	-14	-18	-24
16°	-15	-6	-5	-6	-11	-16	-21	-29
	-13	-4	-6	-7	-11	-14	-17	-22
24 - 40°	-7	-5	-7	-10	-12	-15	-18	-21
	-6	-5	-8	-10	-13	-16	-20	-24

Outlet Levels

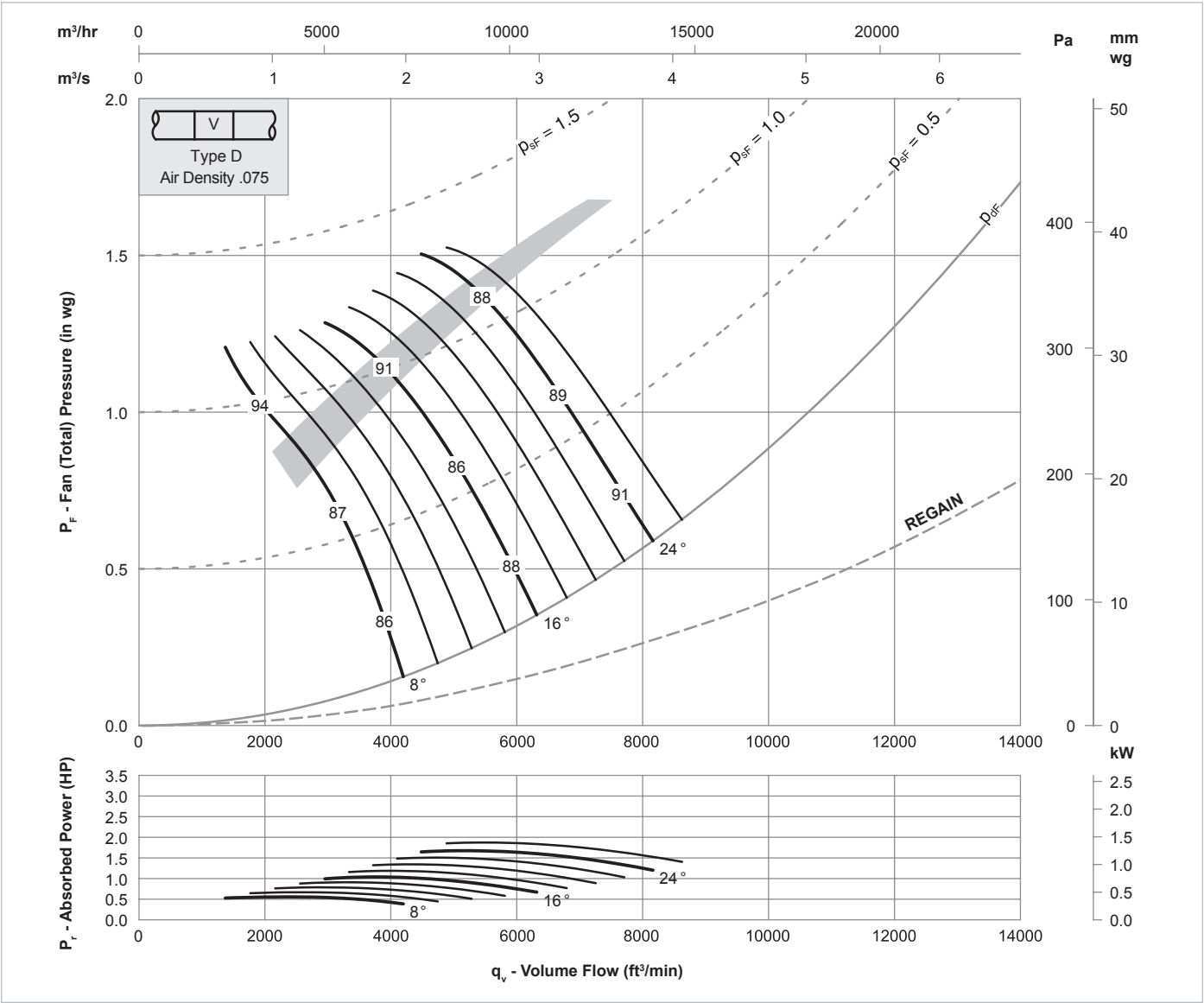
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-10	-10	-2	-8	-17	-26	-35
	-18	-7	-8	-3	-8	-13	-17	-23
16°	-14	-4	-5	-6	-11	-16	-21	-28
	-11	-2	-6	-7	-11	-14	-17	-21
24 - 40°	-5	-4	-7	-9	-11	-14	-16	-20
	-4	-3	-8	-10	-13	-16	-19	-23

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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 Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 16 / 1770 / 5



Inlet Levels

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

Outlet Levels

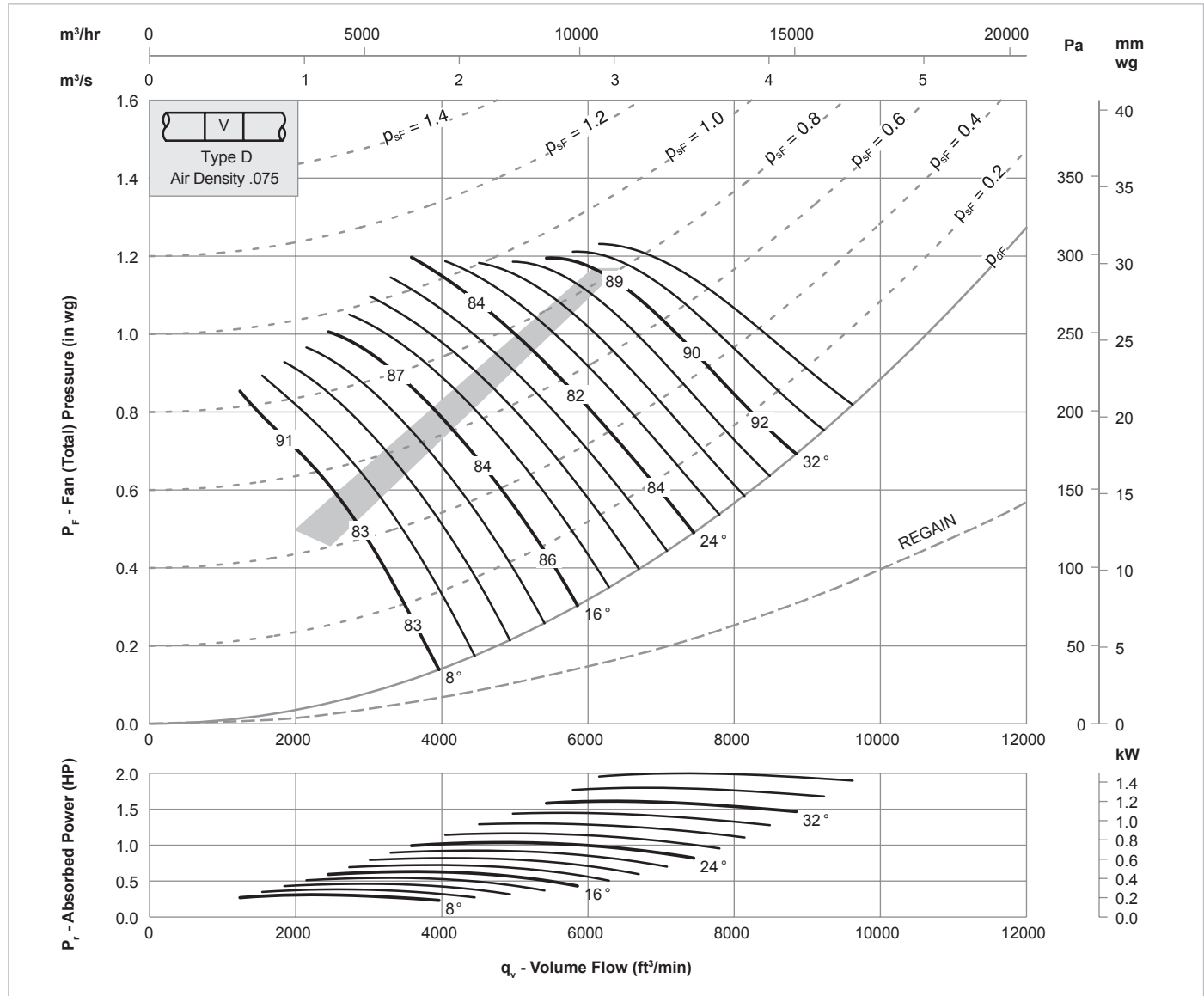
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-10	-11	-3	-6	-11	-18	-24
	-17	-6	-11	-7	-6	-7	-12	-18
16°	-16	-11	-13	-3	-6	-11	-17	-24
	-12	-3	-9	-8	-11	-12	-15	-19
24 - 26°	-6	-4	-10	-8	-11	-13	-15	-18
	-6	-3	-9	-9	-12	-15	-17	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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VXDA 22 / 20 / 1770 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-17	-10	-4	-4	-14	-22	-30
	-6	-12	-7	-7	-7	-12	-14	-17
16°	-7	-9	-5	-6	-11	-16	-18	-23
	-4	-10	-6	-8	-11	-16	-18	-22
24 - 36°	-5	-9	-6	-9	-9	-14	-17	-21
	-4	-10	-7	-9	-11	-17	-19	-24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-10	-4	-4	-13	-21	-28
	-3	-11	-7	-7	-7	-11	-12	-15
16°	-5	-9	-5	-6	-10	-16	-18	-22
	-2	-9	-6	-8	-11	-16	-18	-21
24 - 36°	-3	-9	-6	-8	-9	-13	-15	-19
	-1	-9	-7	-9	-11	-16	-18	-22

End Reflection (dB)

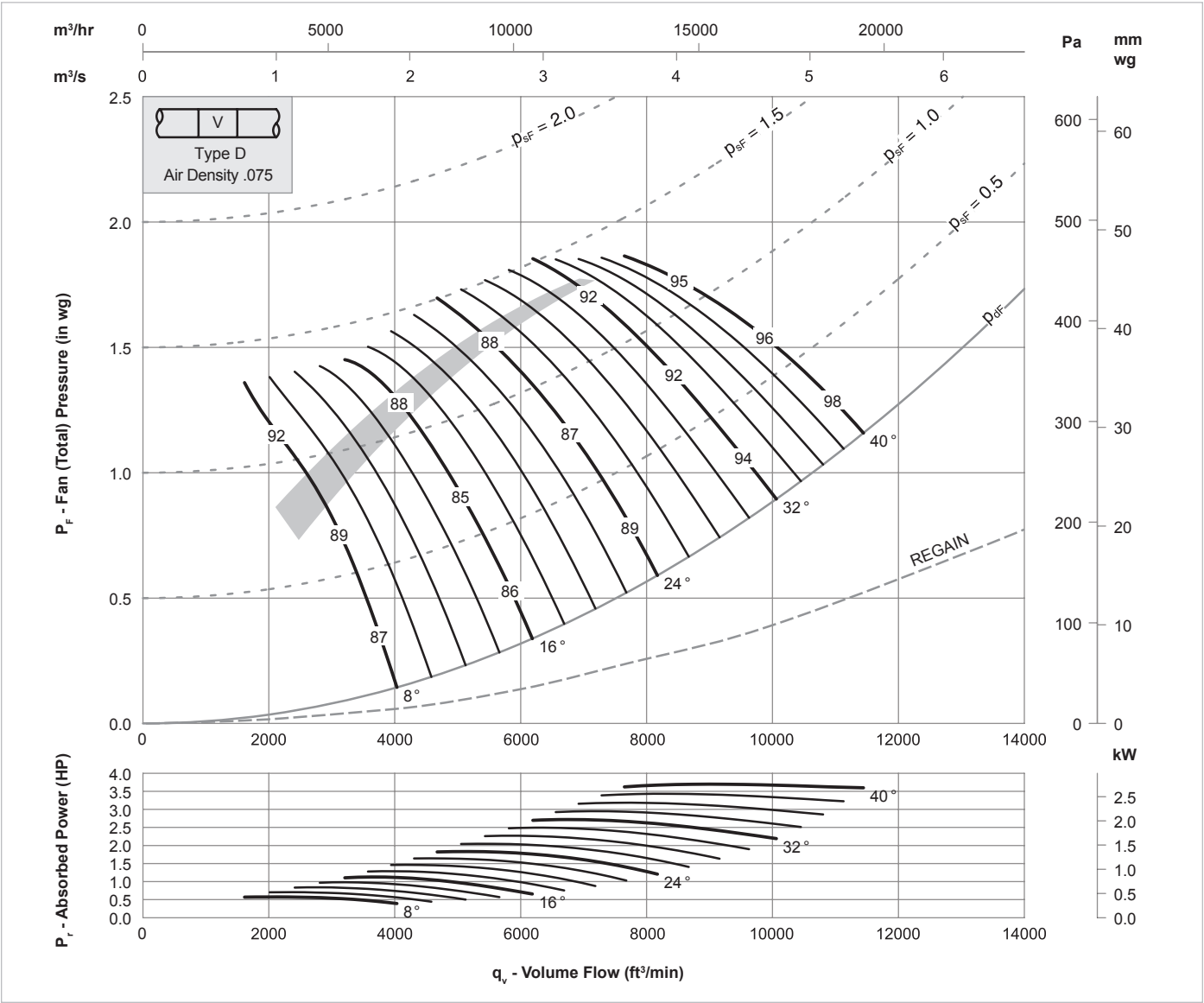
63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 20 / 1770 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-24	-12	-14	-5	-3	-11	-20	-30
	-21	-11	-10	-7	-4	-10	-15	-20
16°	-17	-6	-9	-5	-7	-13	-18	-24
	-13	-5	-8	-7	-8	-13	-15	-19
24 - 40°	-7	-5	-10	-9	-11	-14	-16	-20
	-6	-5	-9	-9	-12	-15	-18	-22

Outlet Levels

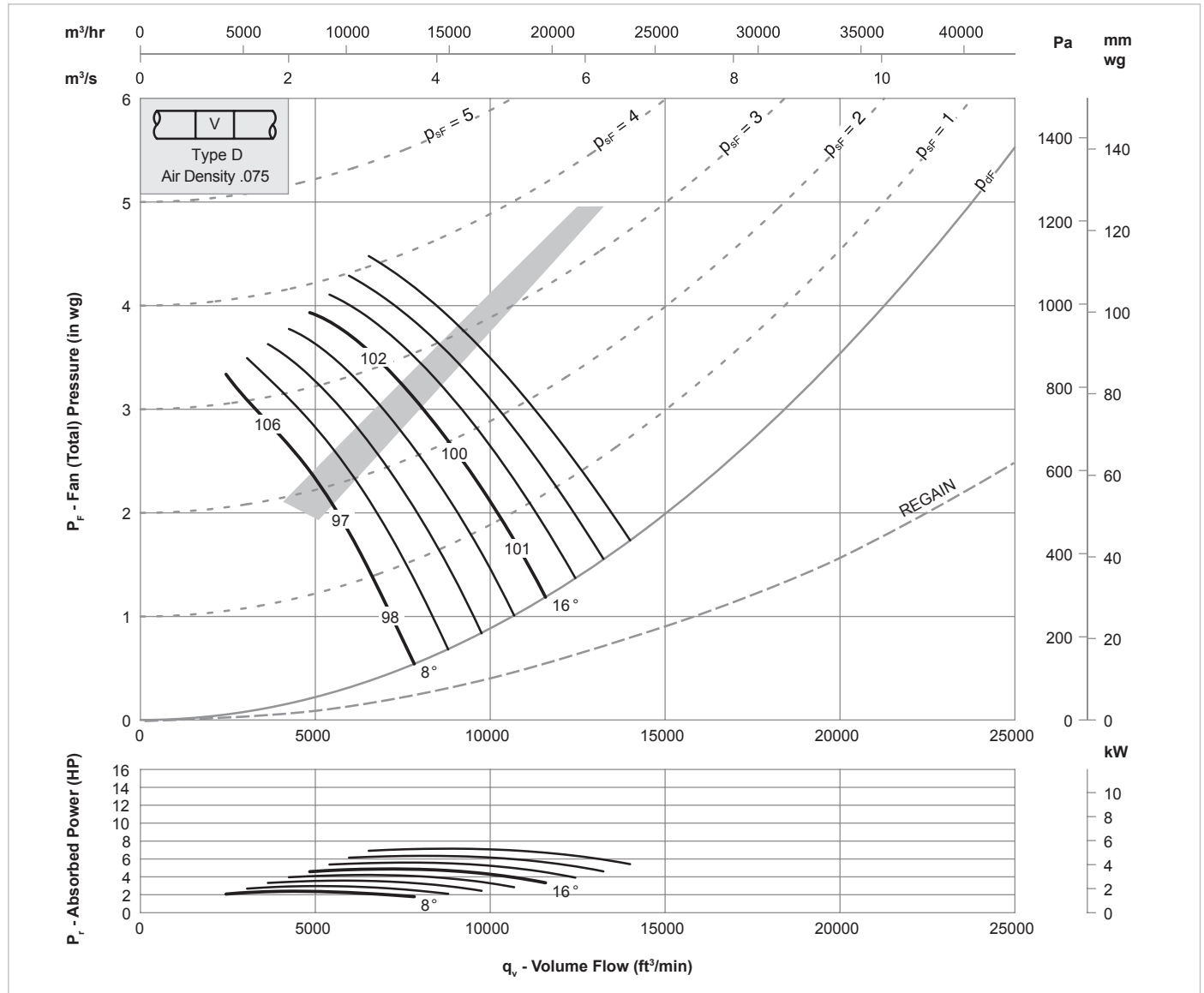
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-22	-10	-13	-5	-3	-10	-20	-28
	-19	-8	-9	-6	-4	-9	-14	-18
16°	-16	-4	-9	-5	-7	-12	-17	-23
	-12	-3	-7	-7	-8	-13	-15	-18
24 - 40°	-5	-4	-10	-8	-11	-13	-15	-18
	-4	-3	-8	-9	-12	-15	-17	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 22 / 20 / 3500 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-22	-17	-18	-10	-5	-4	-14	-2
	-14	-6	-13	-7	-8	-7	-12	-14
16 - 22°	-13	-8	-10	-5	-7	-11	-17	-19
	-10	-5	-11	-6	-8	-11	-17	-19

Outlet Levels

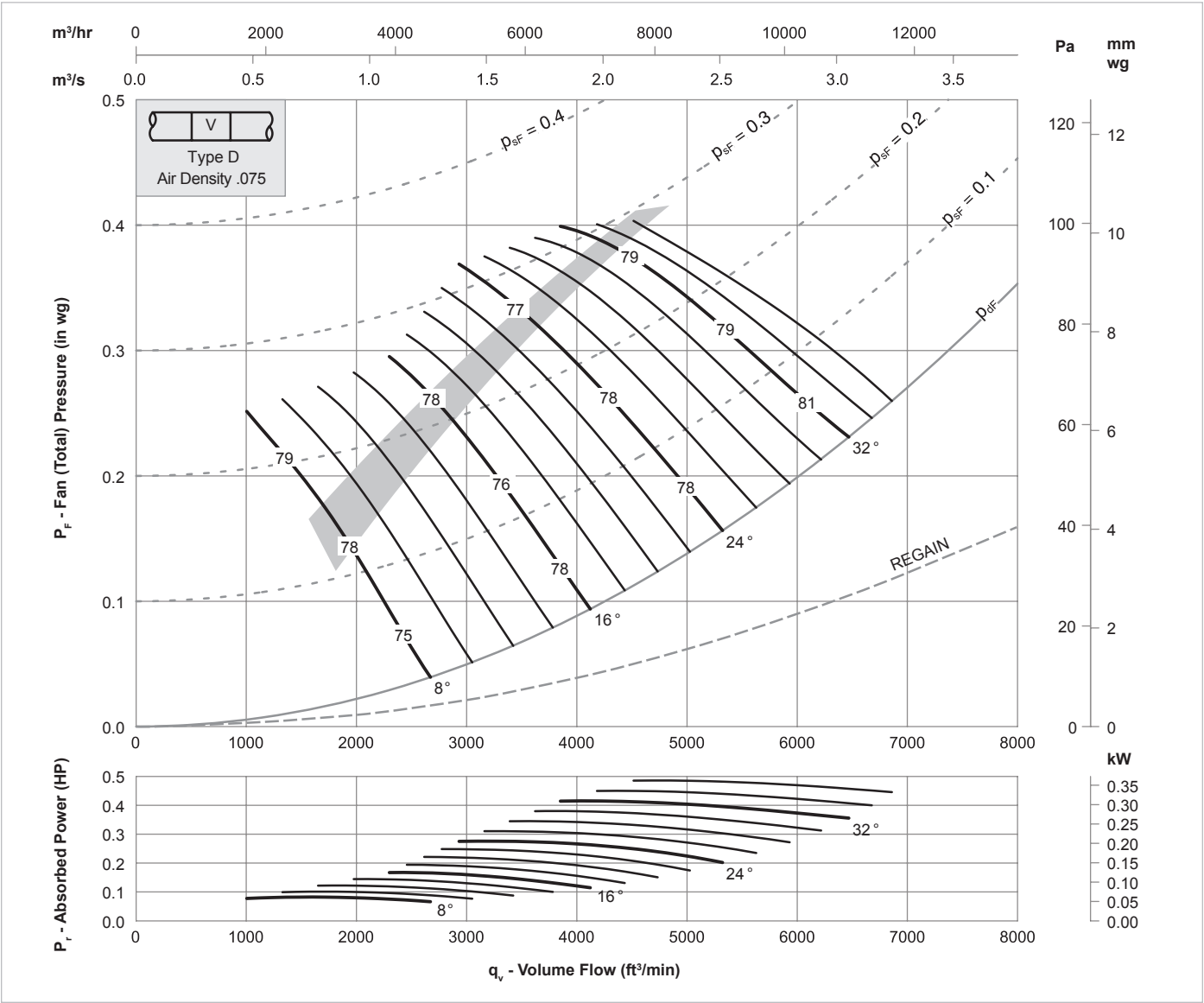
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-17	-10	-4	-3	-12	-19
	-12	-3	-12	-7	-7	-6	-11	-11
16 - 22°	-11	-5	-10	-5	-6	-10	-16	-18
	-9	-3	-10	-6	-8	-11	-16	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-9	-5	-2	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
 Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 20 / 875 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-4	-8	-13	-20	-26	-34
	-3	-7	-8	-10	-12	-16	-21	-29
16°	-7	-5	-5	-10	-14	-21	-27	-33
	-1	-8	-13	-16	-16	-20	-25	-30
24 - 36°	-2	-7	-11	-14	-16	-19	-22	-27
	-1	-8	-13	-16	-19	-23	-26	-30

Outlet Levels

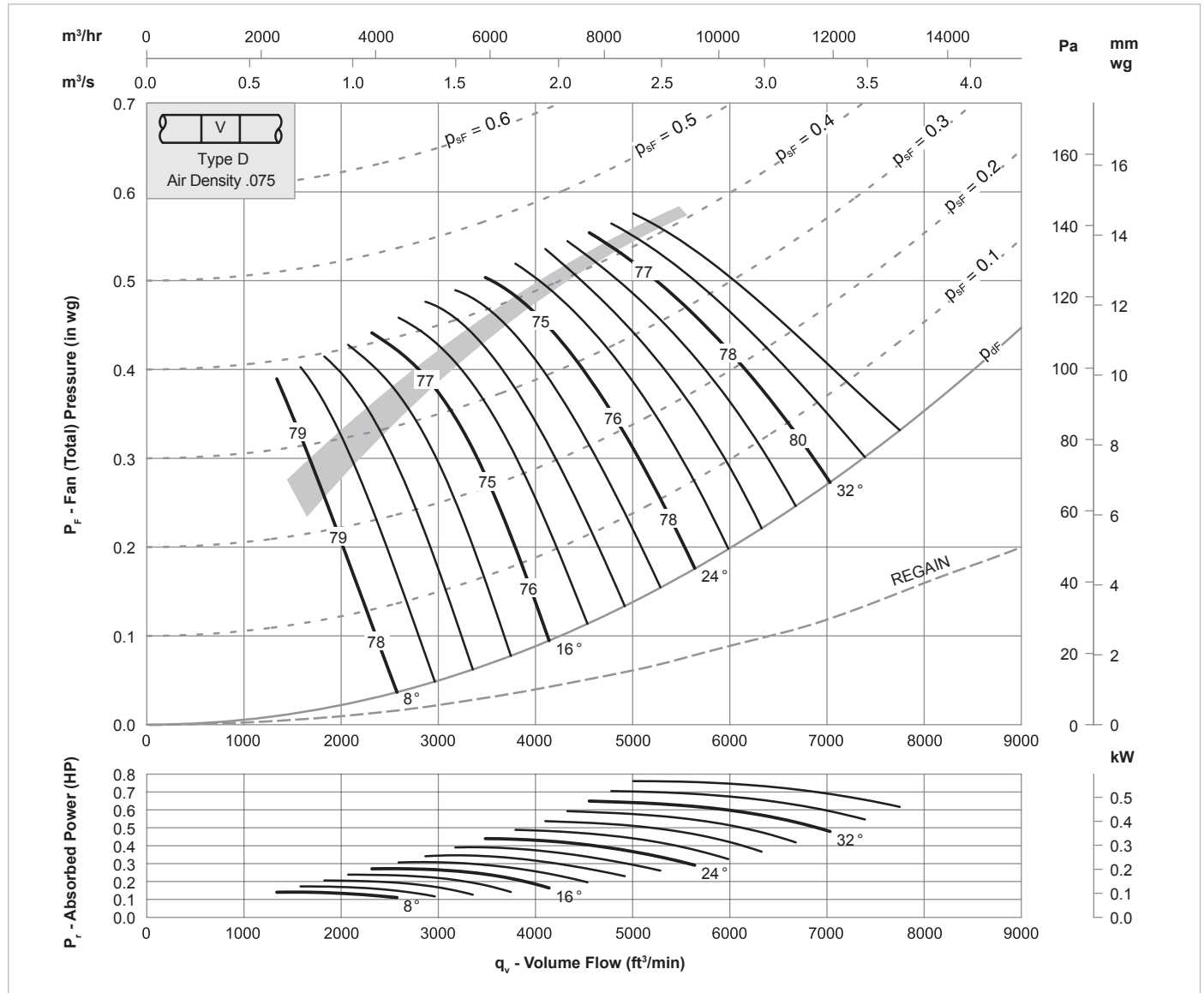
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-7	-4	-8	-13	-20	-25	-31
	-1	-7	-9	-10	-12	-15	-21	-27
16°	-5	-5	-5	-10	-14	-21	-26	-31
	0	-8	-13	-16	-16	-20	-24	-28
24 - 36°	0	-7	-11	-14	-16	-19	-21	-25
	0	-8	-13	-16	-19	-22	-24	-27

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 20 / 875 / 6



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-7	-4	-8	-13	-20	-25	-32
	-9	-8	-5	-6	-10	-16	-23	-31
16°	-7	-7	-5	-8	-10	-18	-24	-30
	-4	-7	-7	-10	-11	-14	-20	-25
24 - 36°	-3	-7	-7	-12	-14	-18	-24	-25
	-2	-6	-9	-12	-15	-19	-23	-26

End Reflection (dB)

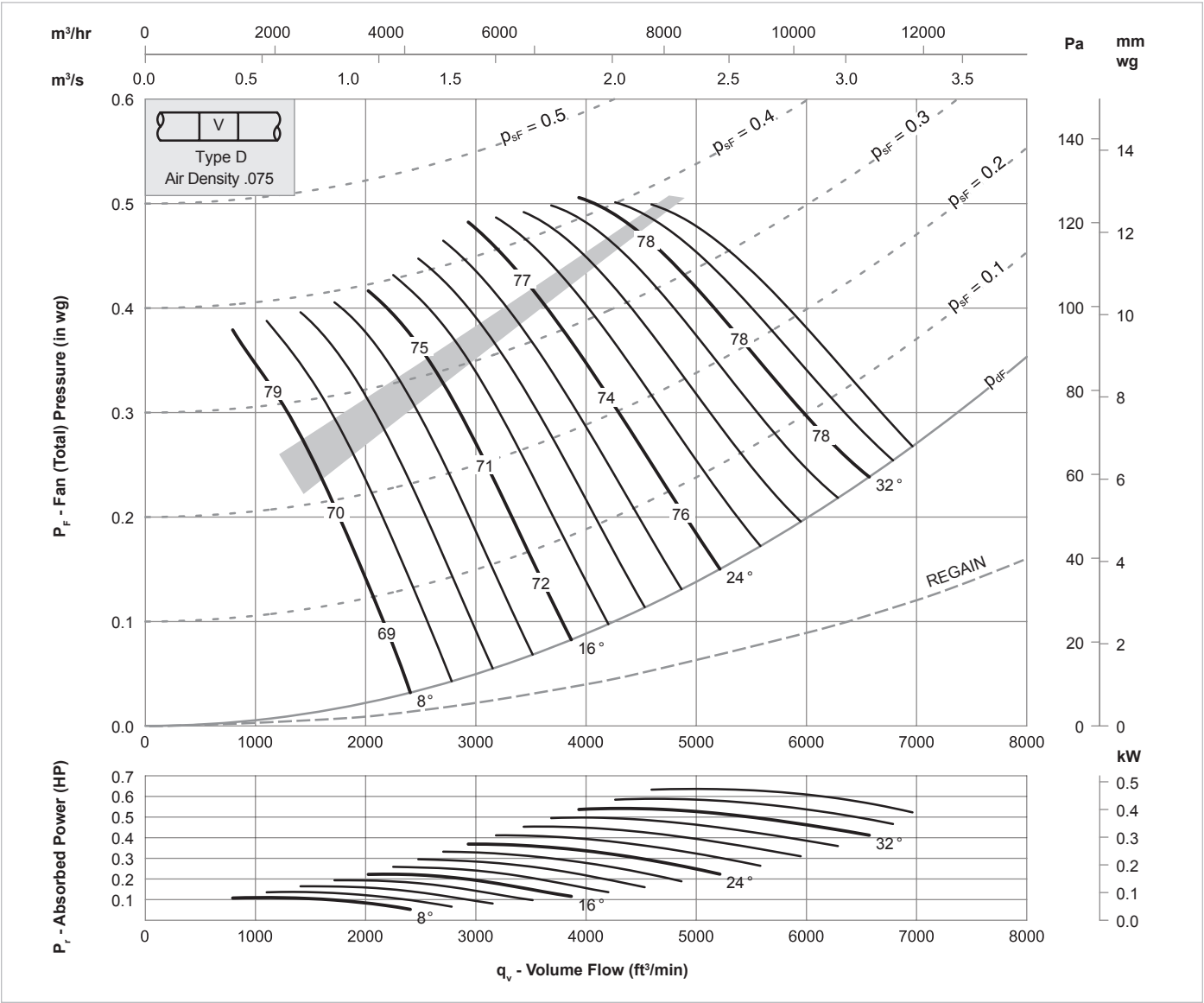
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 25 / 875 / 6



Inlet Levels

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

Outlet Levels

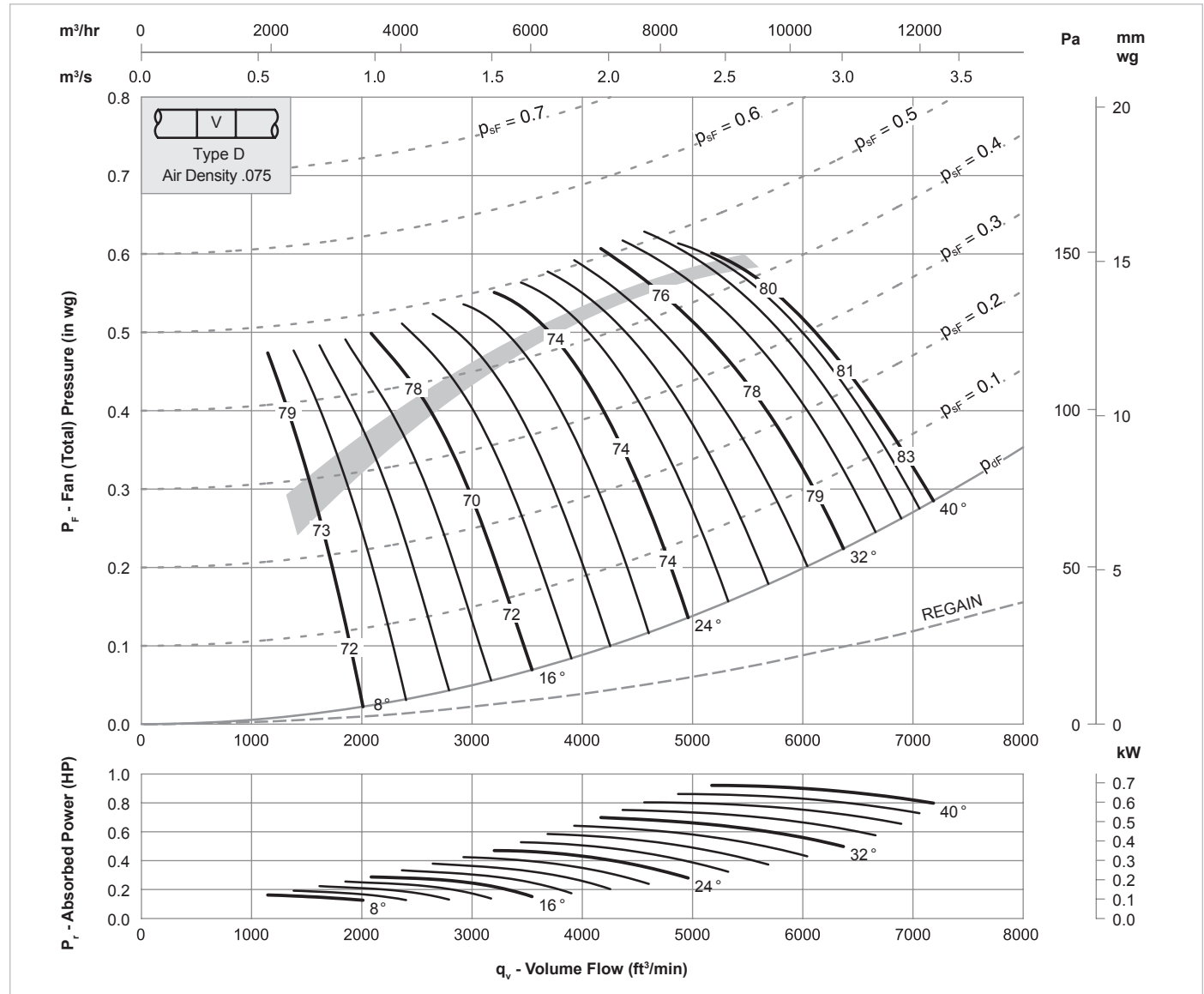
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-4	-6	-11	-17	-26	-32
	-3	-6	-8	-10	-11	-9	-17	-23
16°	-5	-5	-6	-10	-10	-14	-21	-26
	-2	-5	-9	-12	-13	-14	-22	-27
24 - 36°	-3	-5	-7	-11	-13	-16	-20	-23
	0	-5	-8	-13	-15	-18	-23	-27

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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VXDA 24 / 25 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-9	-16	-25	-33
	-10	-9	-7	-6	-8	-9	-18	-26
16°	-11	-7	-4	-7	-10	-16	-23	-30
	-8	-4	-8	-10	-10	-11	-20	-26
24 - 40°	-6	-4	-7	-12	-13	-16	-20	-23
	-5	-5	-7	-13	-14	-17	-23	-28

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-6	-4	-9	-15	-24	-31
	-9	-7	-7	-6	-8	-8	-17	-24
16°	-9	-5	-4	-7	-9	-15	-23	-29
	-7	-2	-7	-10	-10	-11	-20	-26
24 - 40°	-5	-3	-6	-12	-13	-15	-19	-22
	-3	-3	-7	-13	-14	-17	-22	-27

End Reflection (dB)

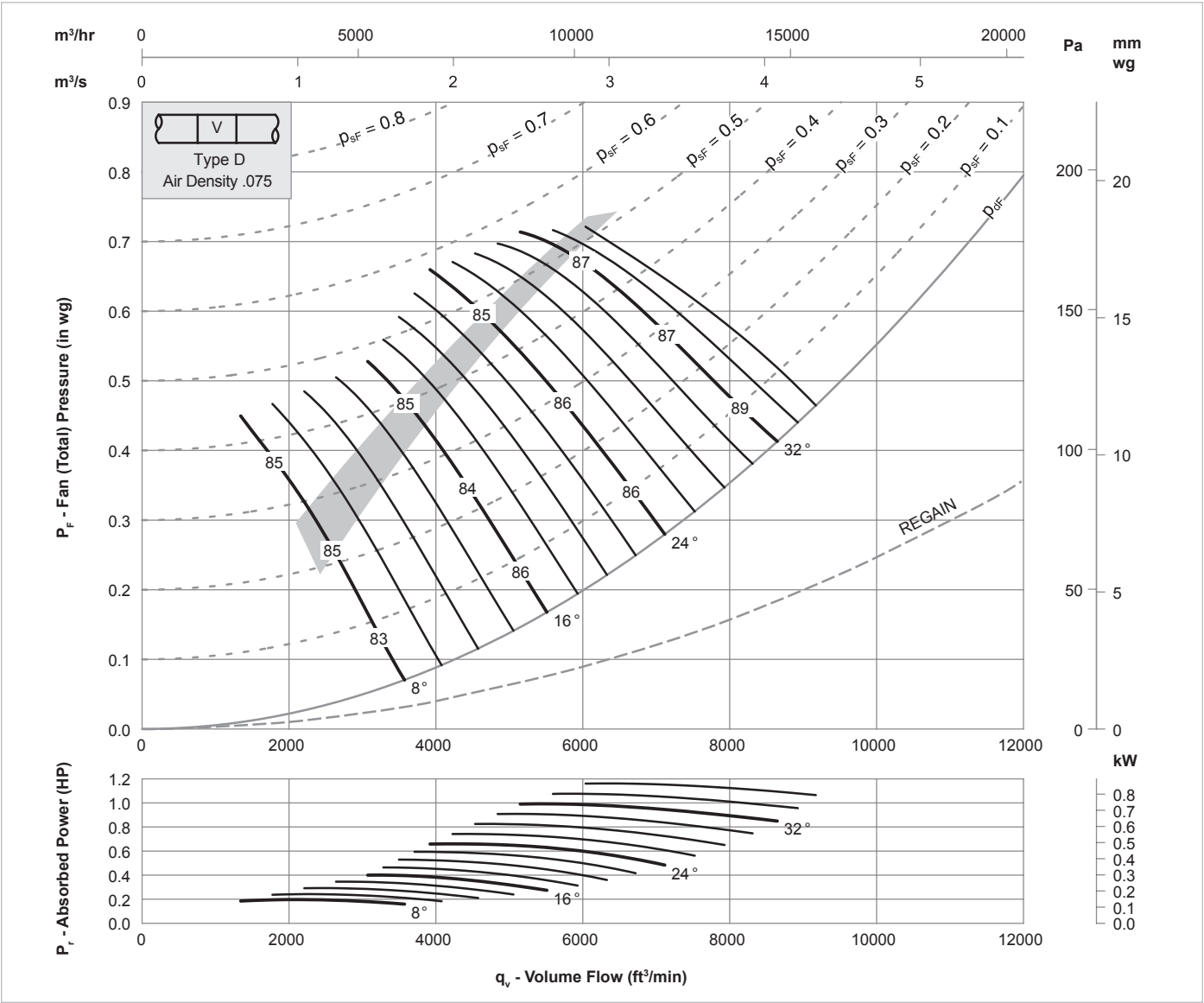
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 20 / 1170 / 3



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-10	-5	-6	-12	-17	-24	-31
	-2	-11	-8	-10	-13	-15	-20	-27
16°	-6	-10	-4	-8	-14	-16	-25	-31
	-1	-11	-11	-17	-19	-19	-24	-30
24 - 36°	-2	-9	-9	-14	-16	-19	-22	-26
	-1	-10	-11	-17	-20	-22	-26	-29

Outlet Levels

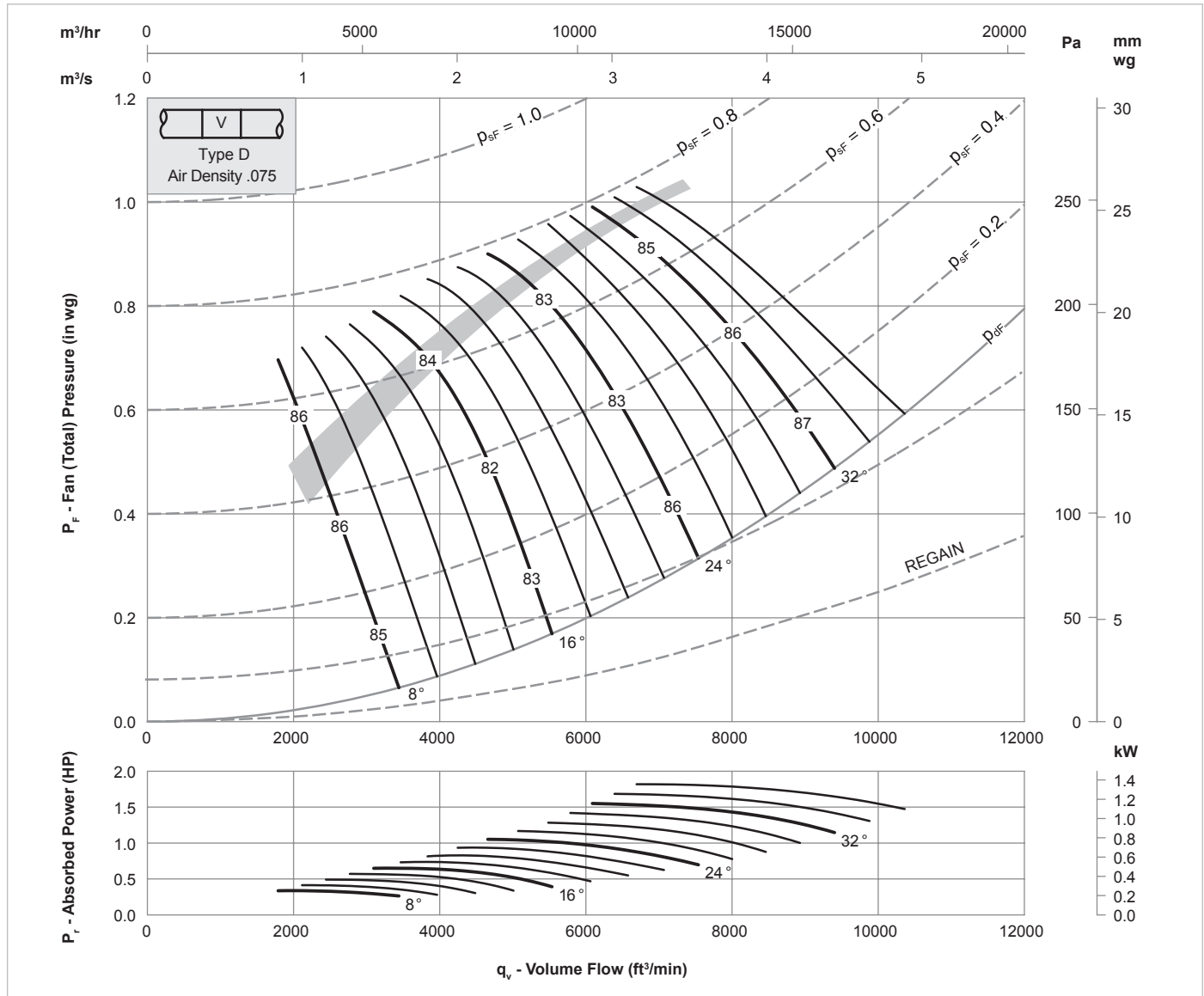
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-10	-5	-5	-12	-17	-23	-28
	-1	-11	-8	-10	-13	-14	-19	-25
16°	-4	-10	-4	-8	-14	-16	-24	-28
	0	-11	-11	-17	-19	-19	-23	-28
24 - 36°	-1	-9	-9	-14	-16	-19	-20	-24
	0	-10	-11	-16	-20	-22	-24	-27

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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VXDA 24 / 20 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-8	-5	-6	-12	-17	-23	-31
	-13	-9	-6	-4	-8	-14	-20	-29
16°	-12	-7	-5	-6	-9	-14	-22	-29
	-9	-4	-7	-9	-11	-13	-18	-25
24 - 40°	-7	-4	-7	-10	-14	-16	-20	-24
	-5	-4	-8	-12	-15	-18	-23	-27

Outlet Levels

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

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

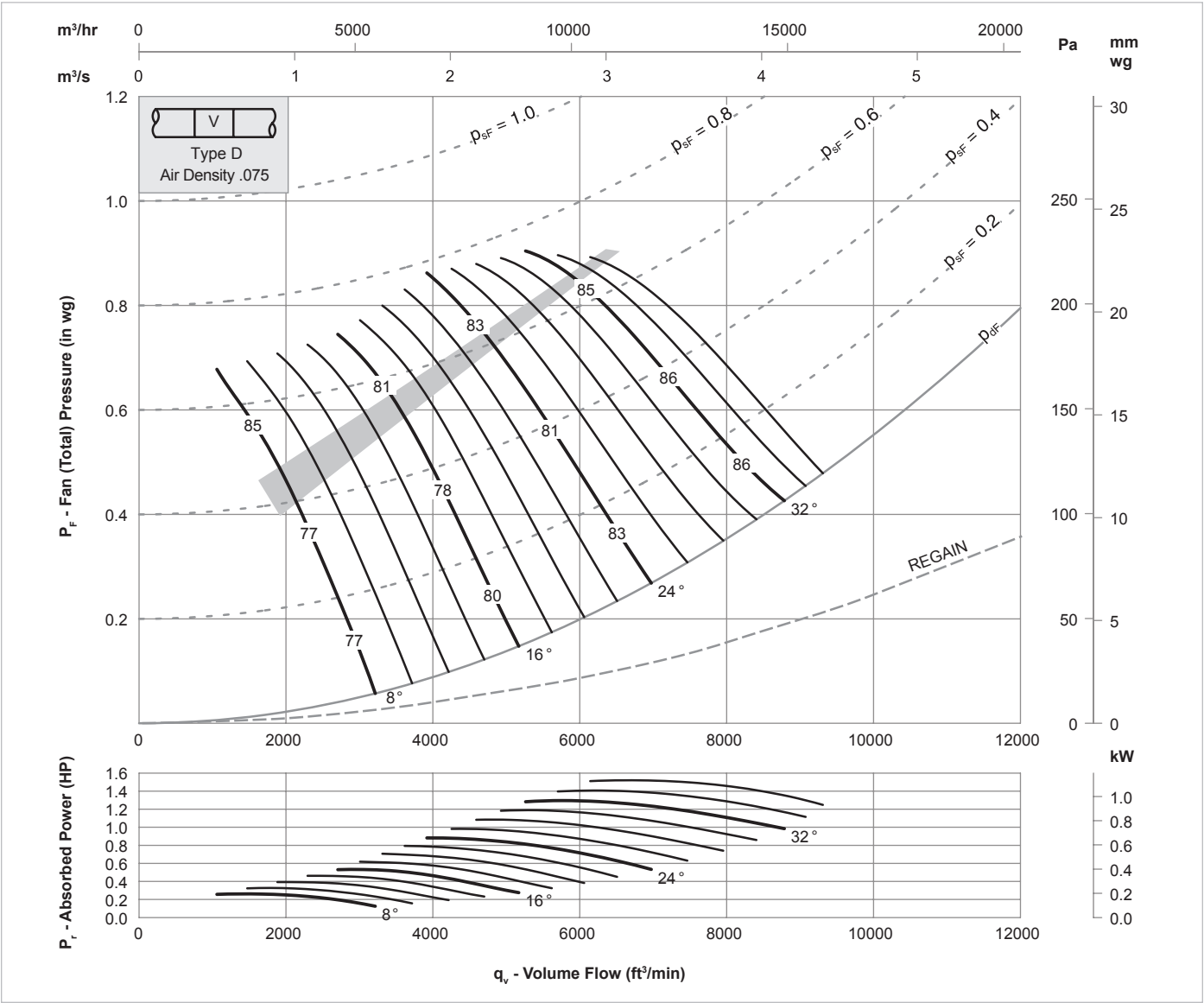
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VXDA 24 / 25 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-5	-8	-15	-22	-30
	-5	-7	-8	-10	-10	-10	-15	-23
16°	-6	-6	-6	-11	-10	-13	-19	-24
	-4	-5	-9	-13	-13	-14	-19	-26
24 - 36°	-5	-5	-7	-11	-13	-16	-21	-23
	-3	-5	-9	-13	-15	-18	-23	-27

Outlet Levels

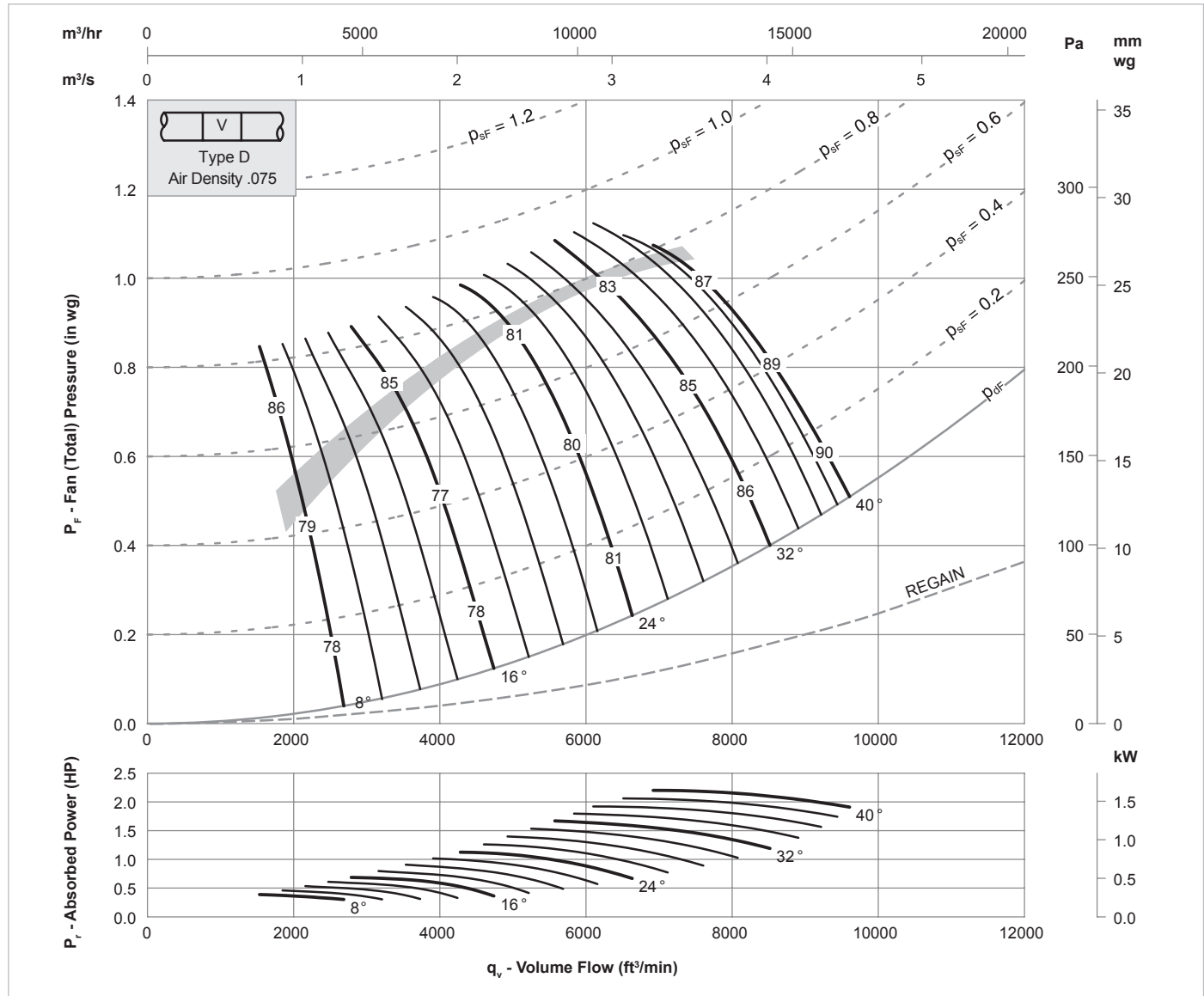
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-6	-5	-8	-15	-22	-28
	-4	-5	-8	-10	-10	-9	-14	-21
16°	-5	-5	-6	-11	-9	-12	-19	-24
	-2	-4	-8	-13	-13	-14	-19	-25
24 - 36°	-3	-4	-7	-10	-12	-15	-20	-22
	-1	-3	-8	-13	-15	-18	-22	-26

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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VXDA 24 / 25 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-9	-4	-6	-13	-21	-29
	-11	-9	-8	-7	-7	-8	-14	-23
16°	-11	-7	-8	-5	-8	-13	-20	-27
	-8	-5	-7	-9	-10	-11	-16	-24
24 - 40°	-6	-5	-7	-11	-13	-15	-20	-22
	-4	-6	-7	-12	-14	-17	-22	-27

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-8	-4	-6	-13	-21	-28
	-10	-7	-7	-7	-7	-7	-13	-21
16°	-10	-5	-8	-5	-8	-13	-20	-26
	-7	-3	-6	-9	-10	-11	-15	-23
24 - 40°	-5	-3	-6	-10	-13	-14	-18	-20
	-2	-3	-6	-12	-14	-17	-21	-26

End Reflection (dB)

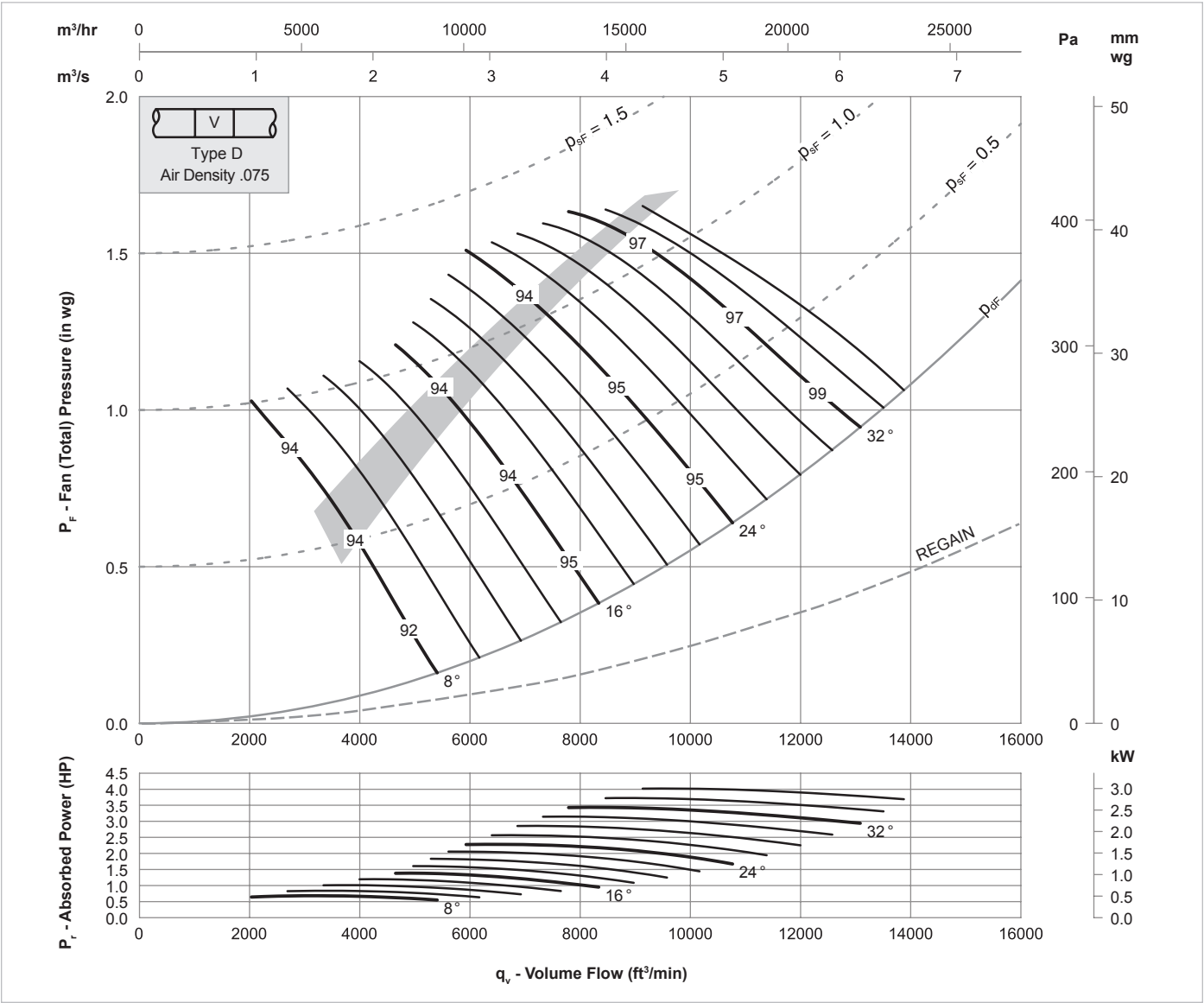
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 20 / 1770 / 3



Inlet Levels

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

Outlet Levels

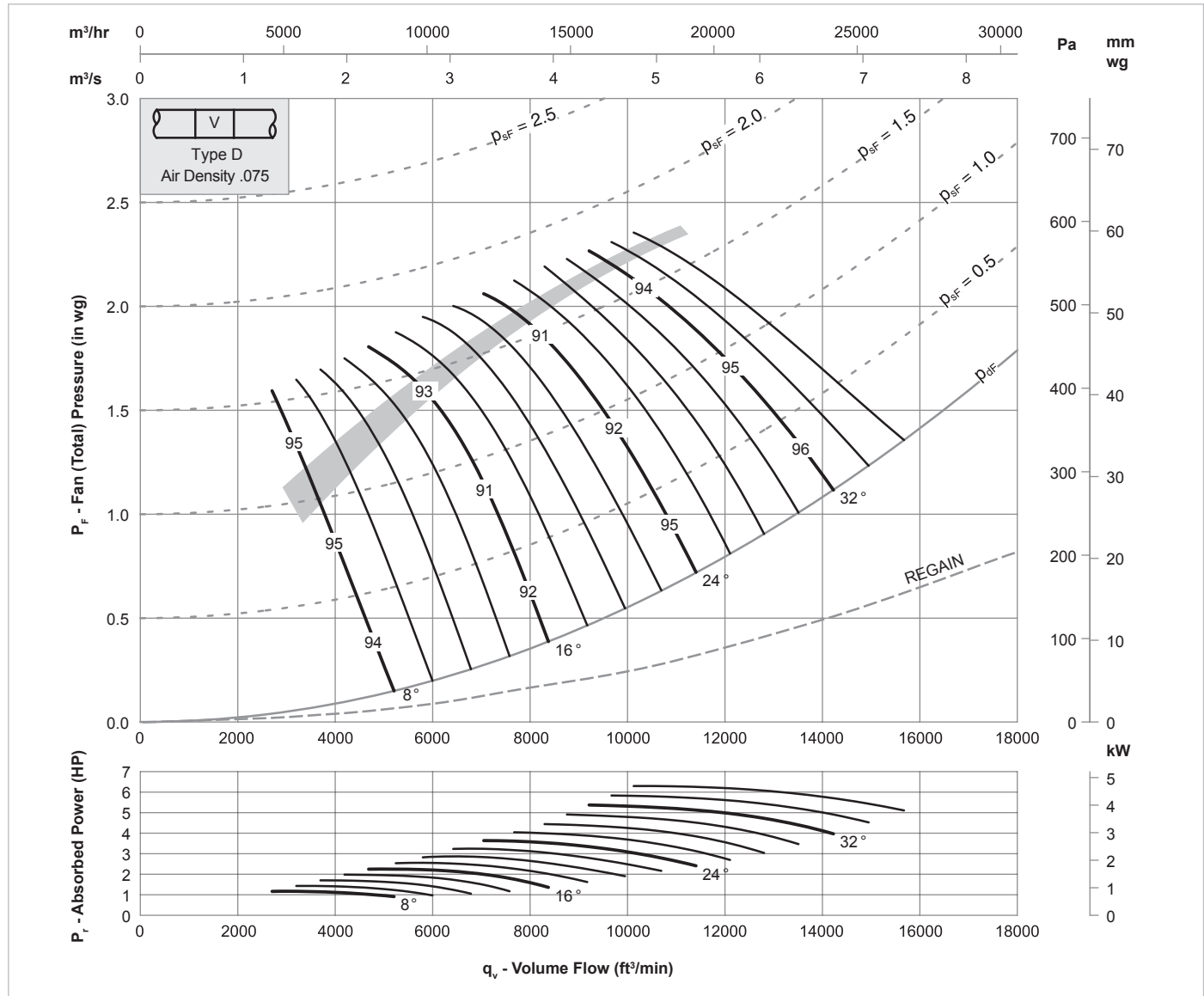
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-5	-12	-7	-4	-8	-13	-20	-24
	-2	-12	-9	-10	-11	-12	-17	-21
16°	-5	-12	-6	-5	-11	-14	-20	-25
	-1	-10	-10	-15	-19	-18	-21	-25
24 - 36°	-1	-8	-9	-13	-16	-17	-20	-22
	0	-8	-10	-15	-19	-20	-23	-25

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 20 / 1770 / 6



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

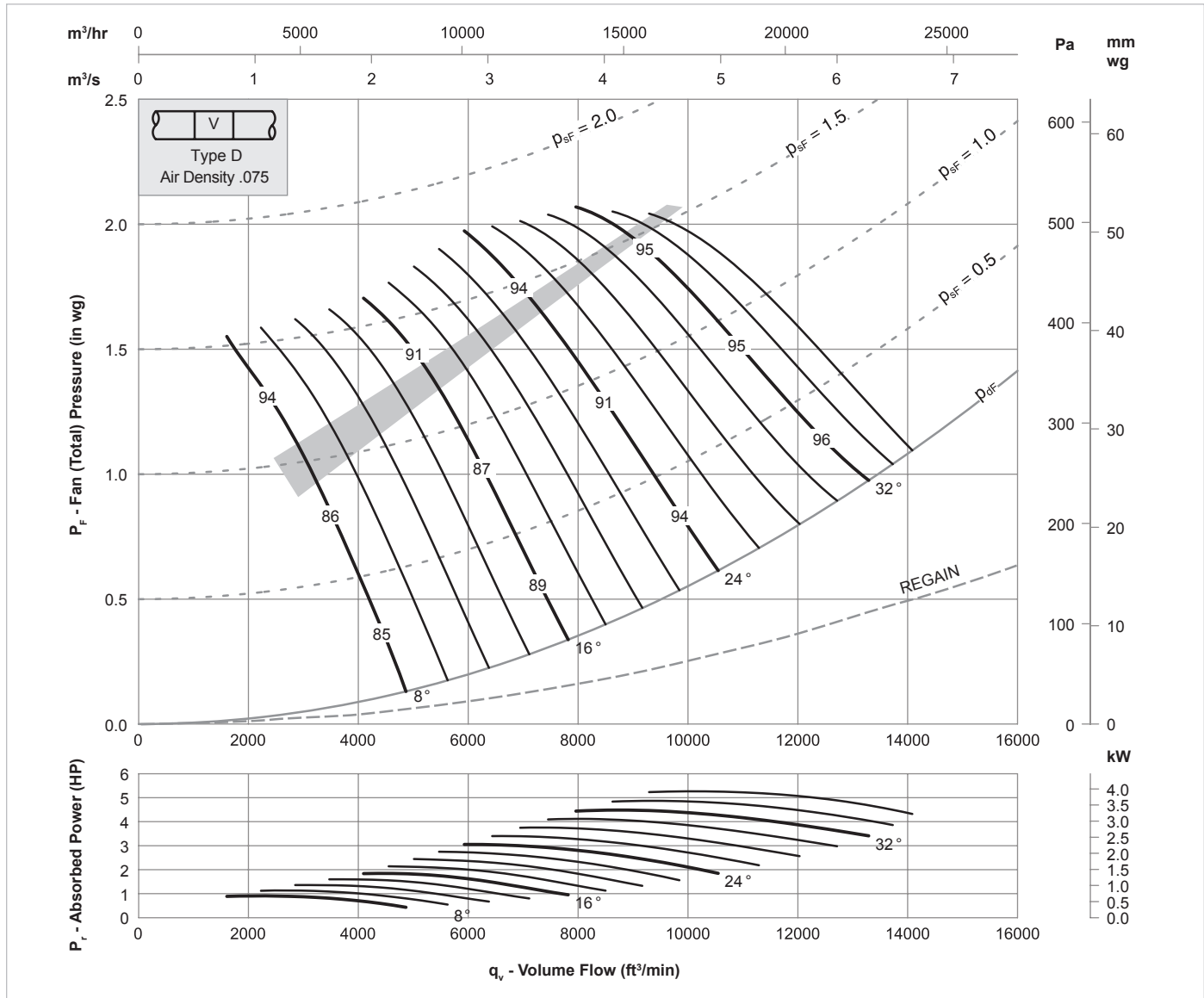
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 25 / 1770 / 6



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

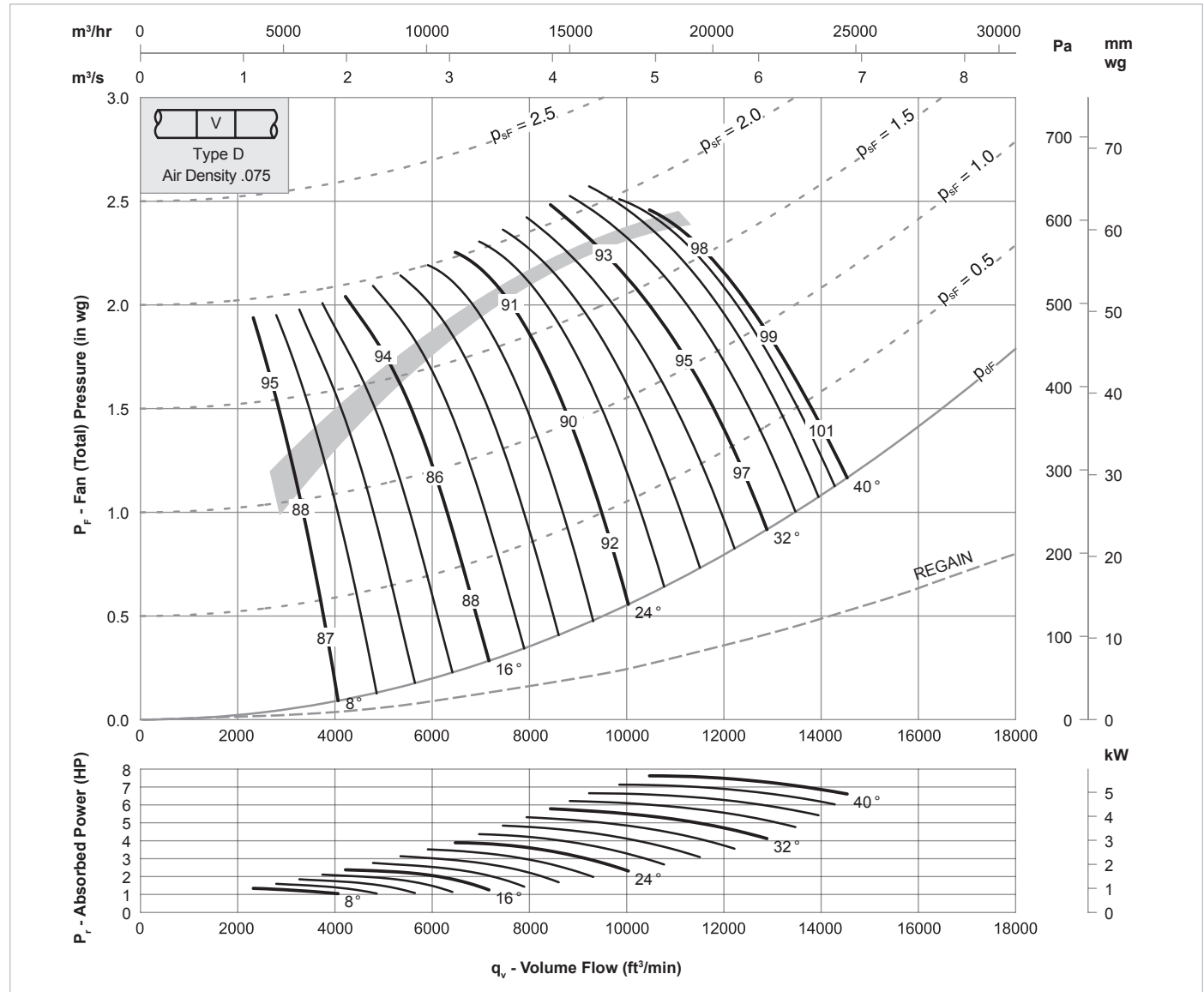
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 25 / 1770 / 9



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-10	-7	-6	-4	-8	-15	-23
	-12	-10	-7	-7	-6	-7	-8	-17
16°	-11	-11	-6	-5	-7	-9	-15	-22
	-7	-9	-3	-8	-11	-11	-11	-20
24 - 40°	-4	-7	-4	-7	-13	-13	-16	-20
	-2	-7	-5	-9	-15	-16	-19	-25

End Reflection (dB)

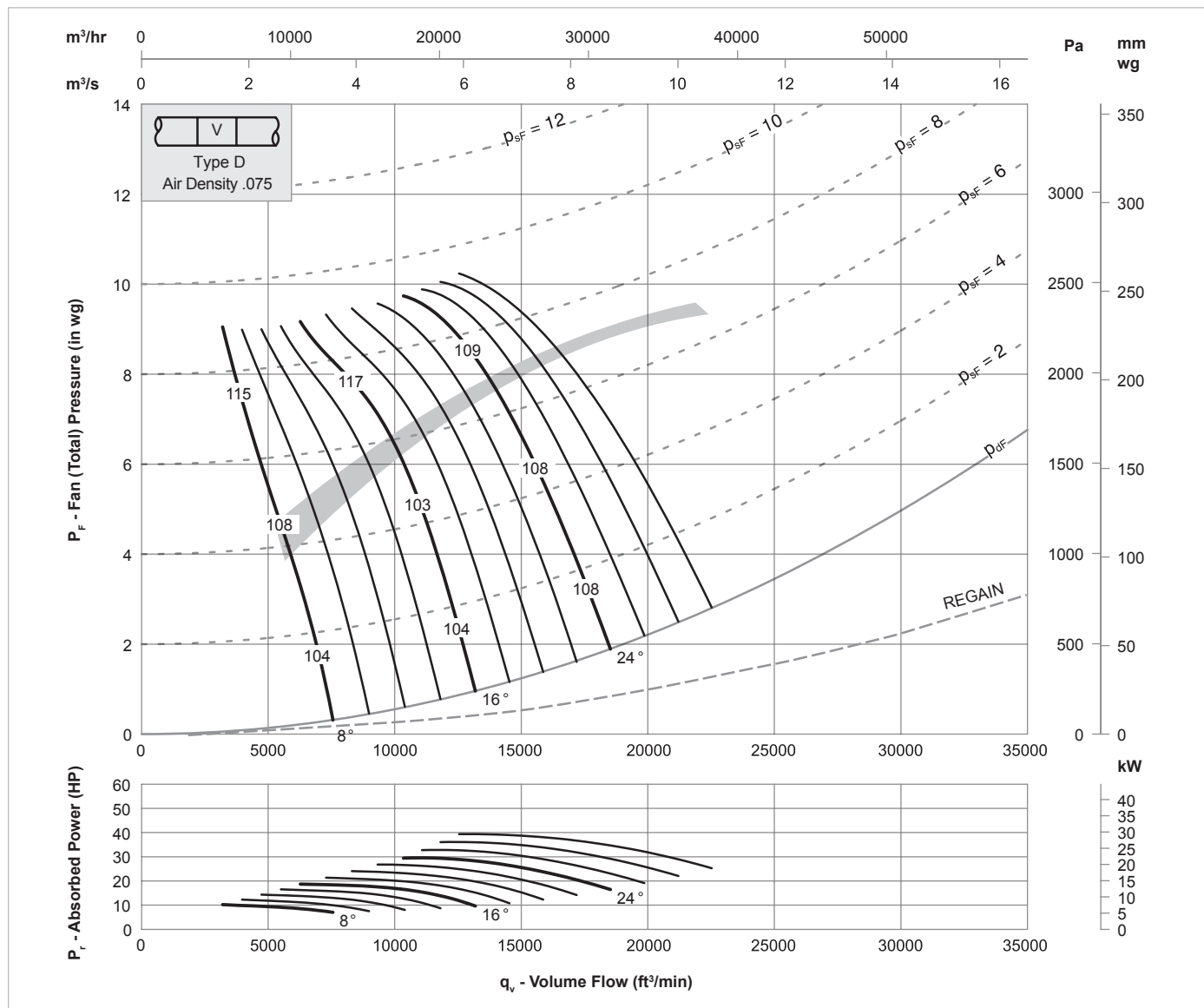
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 24 / 31 / 3500 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-11	-9	-7	-5	-9	-16
	-15	-13	-10	-9	-8	-7	-8	-9
16°	-14	-12	-11	-7	-5	-7	-10	-16
	-10	-9	-9	-6	-9	-11	-12	-12
24 - 30°	-8	-6	-9	-6	-9	-14	-15	-18
	-7	-5	-8	-8	-10	-16	-17	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-13	-10	-7	-6	-4	-9	-15
	-14	-13	-10	-7	-7	-6	-7	-7
16°	-13	-12	-11	-6	-5	-7	-10	-15
	-9	-9	-9	-4	-8	-11	-11	-11
24 - 30°	-7	-6	-9	-5	-8	-13	-14	-17
	-4	-5	-8	-6	-10	-16	-16	-20

End Reflection (dB)

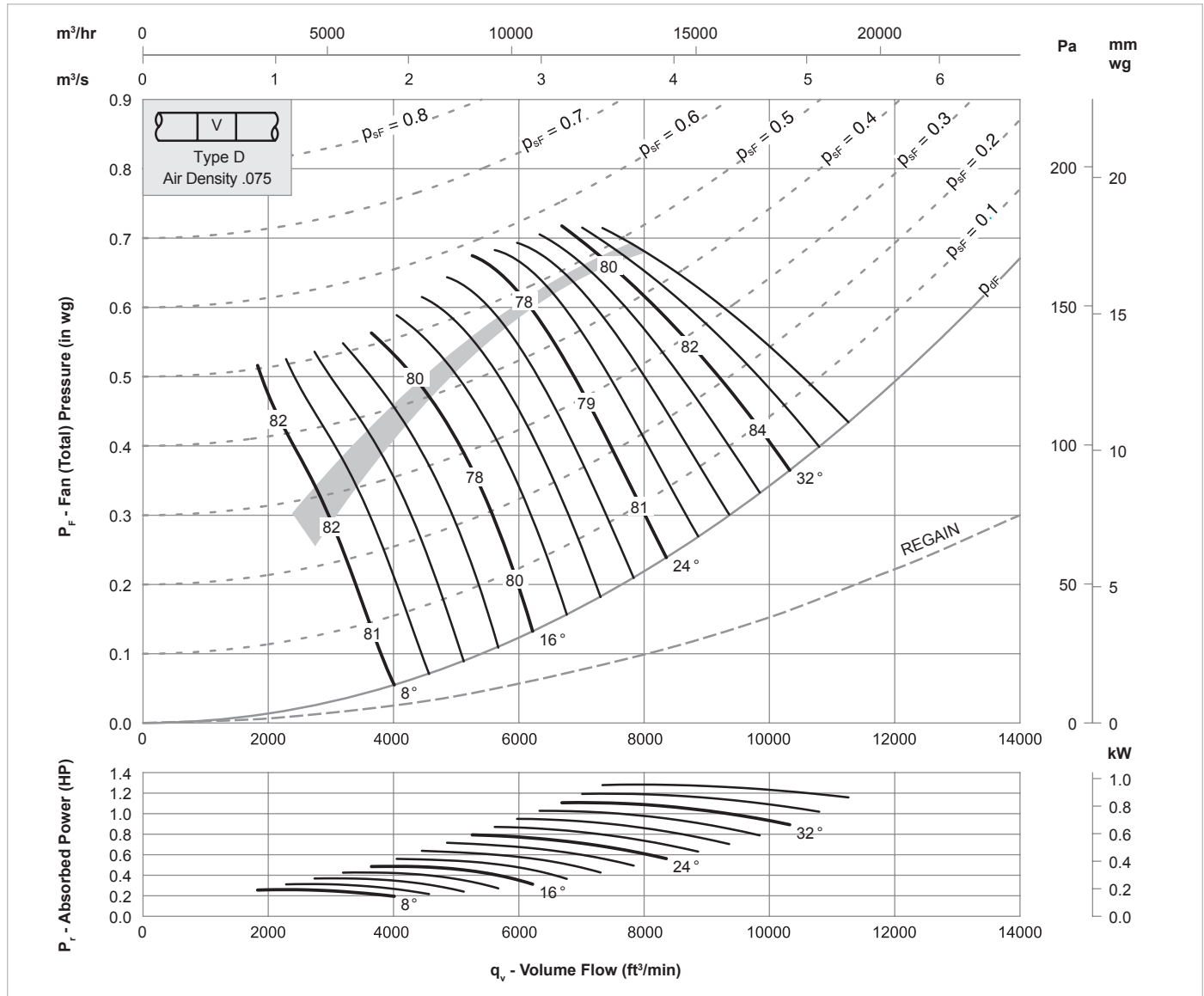
63	125	250	500	1k	2k	4k	8k
-8	-4	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 20 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-7	-4	-7	-11	-19	-25	-33
	-12	-9	-5	-5	-8	-16	-22	-30
16°	-11	-6	-4	-8	-11	-18	-24	-32
	-6	-6	-7	-9	-10	-14	-19	-25
24 - 36°	-5	-7	-6	-10	-11	-15	-19	-24
	-4	-6	-8	-11	-13	-17	-21	-26

Outlet Levels

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

End Reflection (dB)

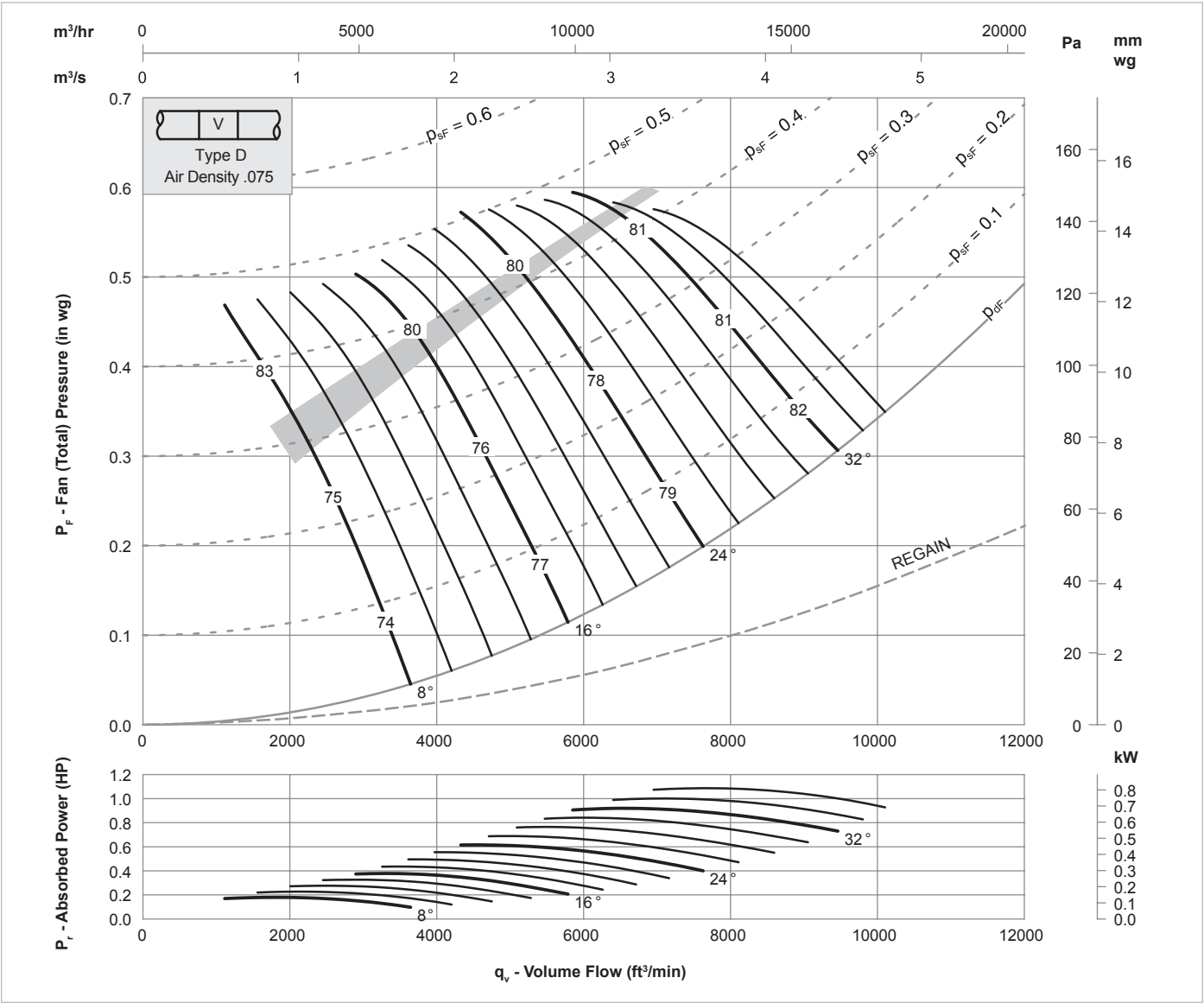
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 25 / 875 / 6



Inlet Levels

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

Outlet Levels

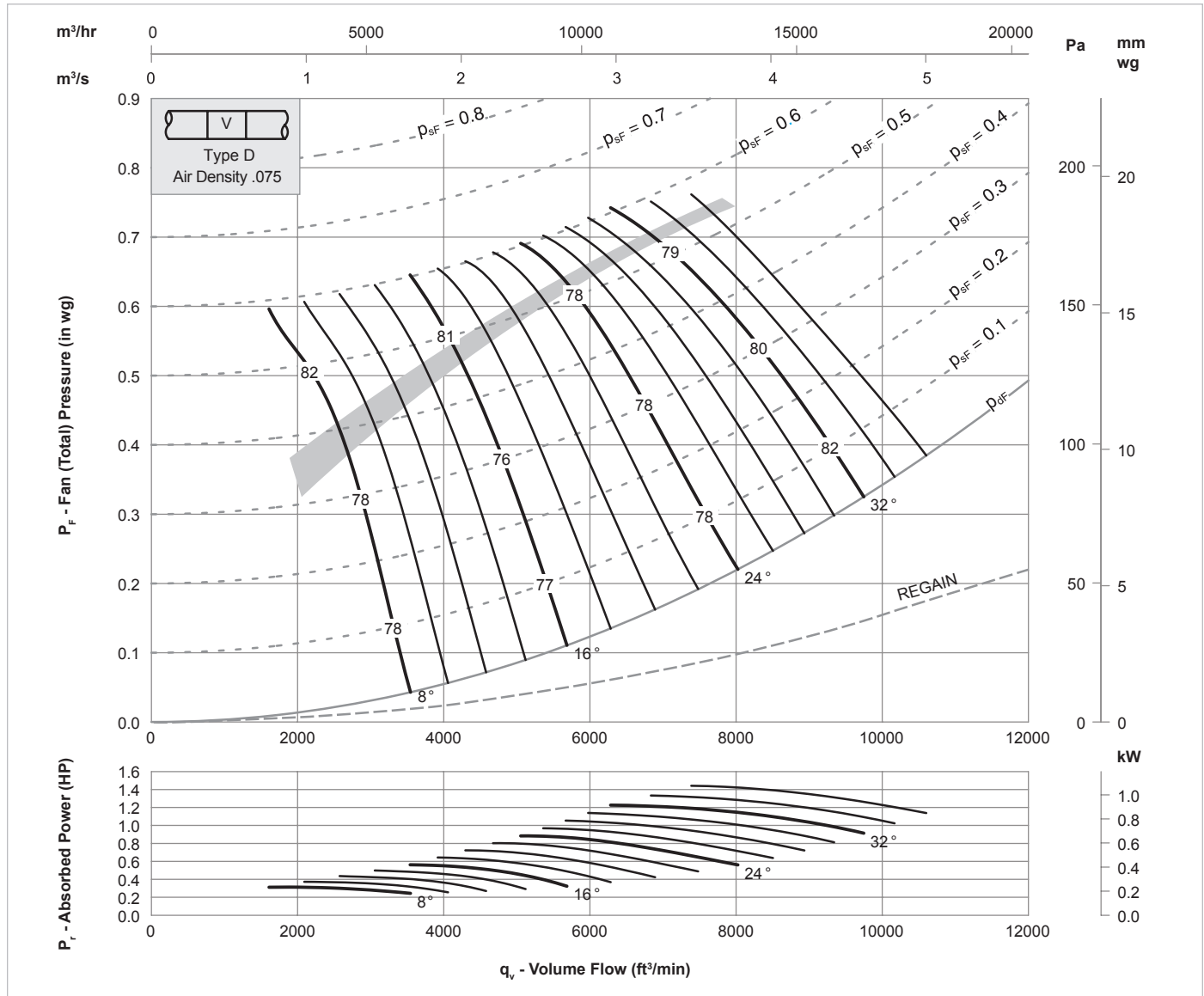
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-8	-5	-4	-11	-17	-24	-31
	-5	-8	-7	-7	-8	-9	-16	-22
16°	-6	-5	-7	-7	-9	-14	-20	-26
	-3	-4	-9	-11	-13	-14	-20	-25
24 - 36°	-4	-5	-7	-9	-11	-15	-18	-21
	-1	-5	-7	-10	-13	-16	-20	-24

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 25 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-9	-16	-25	-33
	-10	-9	-7	-6	-8	-9	-18	-25
16°	-10	-8	-5	-6	-10	-16	-22	-29
	-9	-5	-6	-9	-10	-12	-19	-25
24 - 36°	-8	-6	-6	-8	-11	-14	-18	-22
	-7	-5	-6	-9	-12	-15	-20	-25

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-7	-6	-4	-9	-15	-24	-31
	-9	-7	-7	-6	-8	-8	-17	-24
16°	-9	-6	-4	-6	-10	-15	-22	-28
	-7	-3	-6	-9	-10	-12	-19	-25
24 - 36°	-6	-4	-6	-8	-10	-13	-16	-20
	-4	-3	-6	-9	-12	-15	-19	-24

End Reflection (dB)

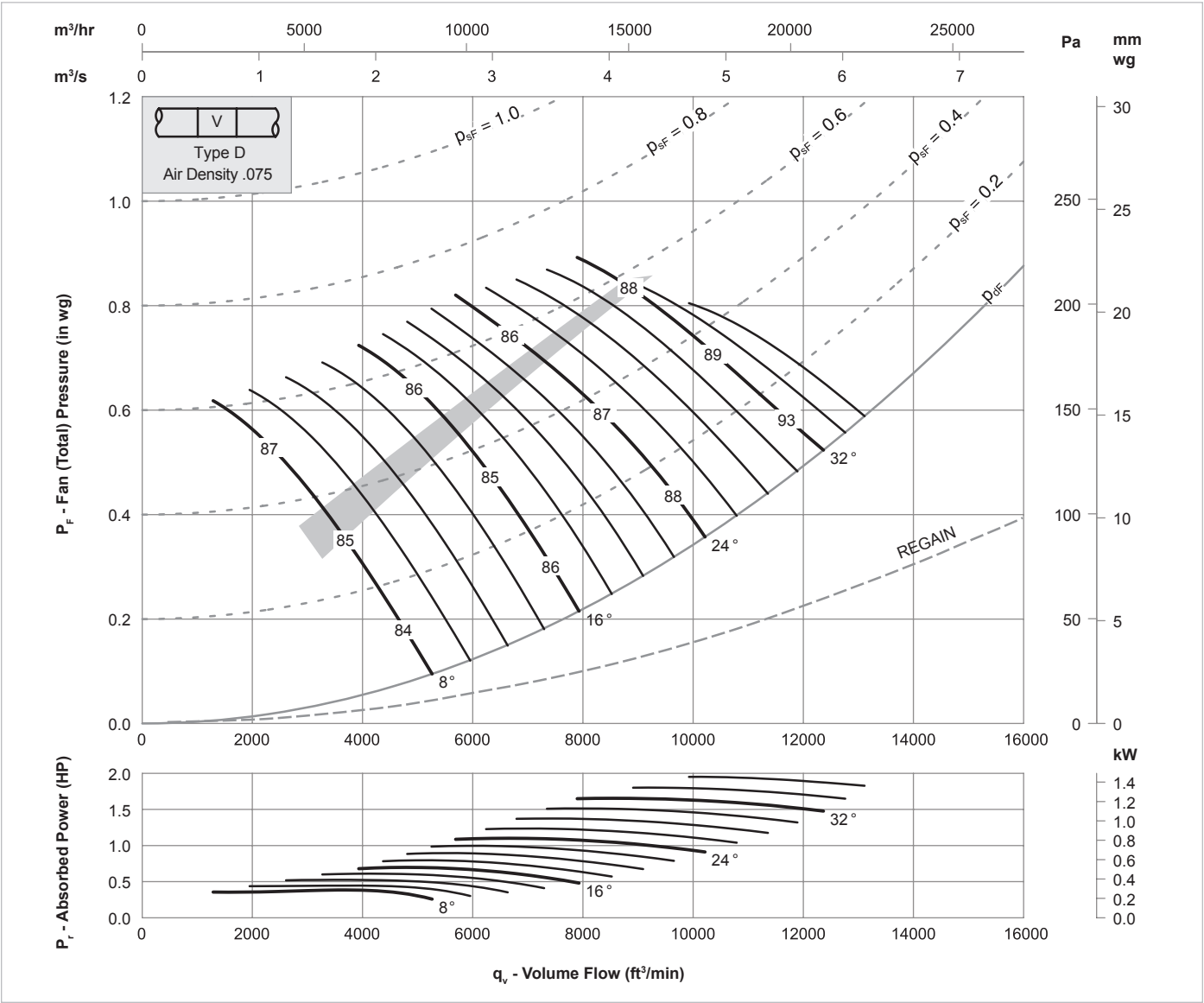
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 20 / 1170 / 3



Inlet Levels

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

Outlet Levels

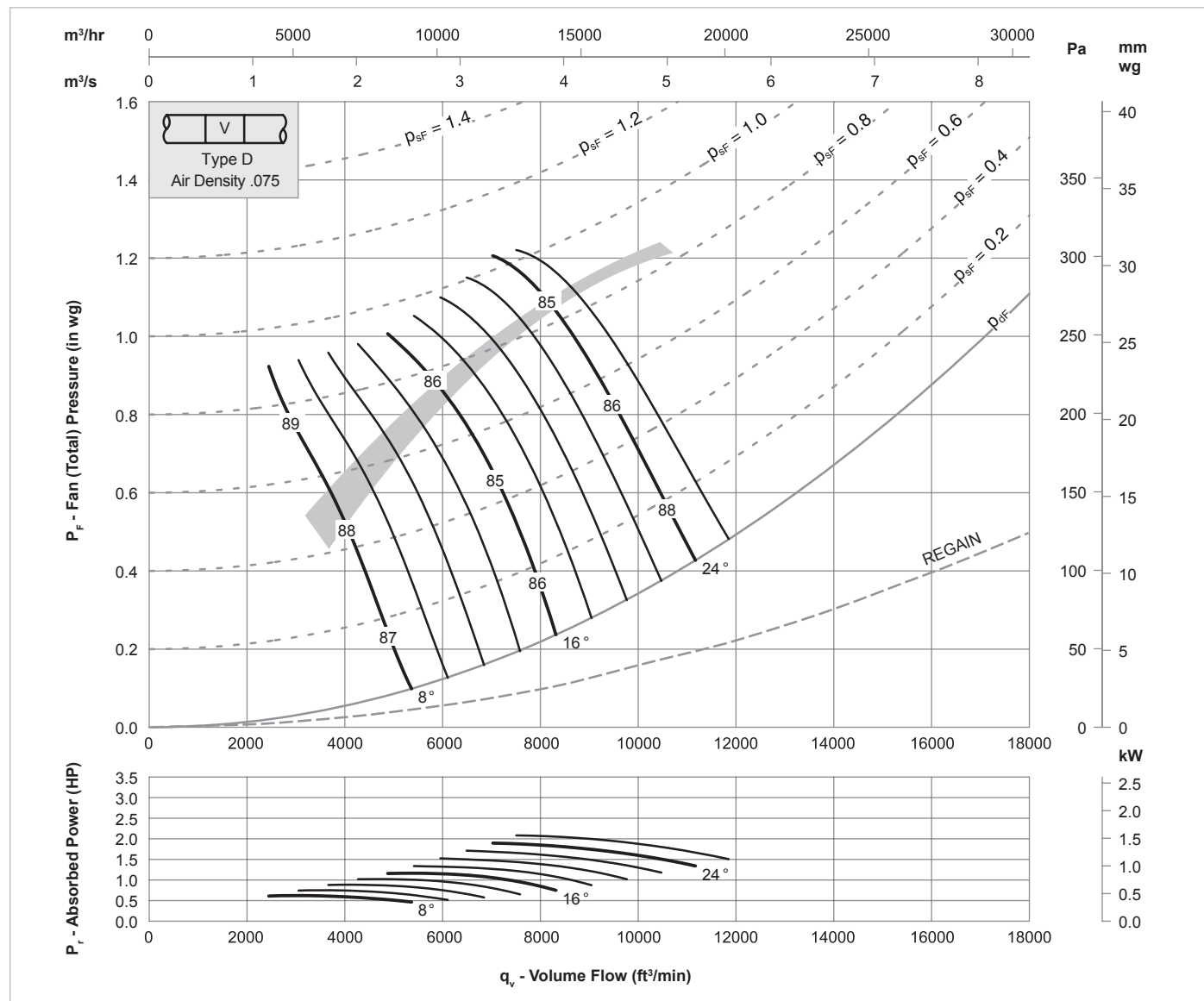
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-10	-4	-5	-10	-15	-21	-26
	-3	-10	-7	-7	-10	-12	-17	-23
16°	-4	-9	-5	-7	-12	-14	-18	-23
	-1	-9	-9	-14	-15	-16	-19	-23
24 - 36°	-2	-8	-9	-11	-11	-14	-16	-21
	-1	-8	-10	-14	-15	-17	-19	-23

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

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VXDA 28 / 20 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-9	-4	-5	-10	-16	-22	-29
	-15	-10	-7	-4	-7	-13	-19	-27
16°	-14	-8	-4	-6	-10	-15	-22	-28
	-9	-5	-7	-8	-10	-12	-17	-23
24 - 26°	-8	-5	-7	-9	-11	-14	-17	-22
	-6	-4	-8	-11	-13	-16	-19	-24

Outlet Levels

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

End Reflection (dB)

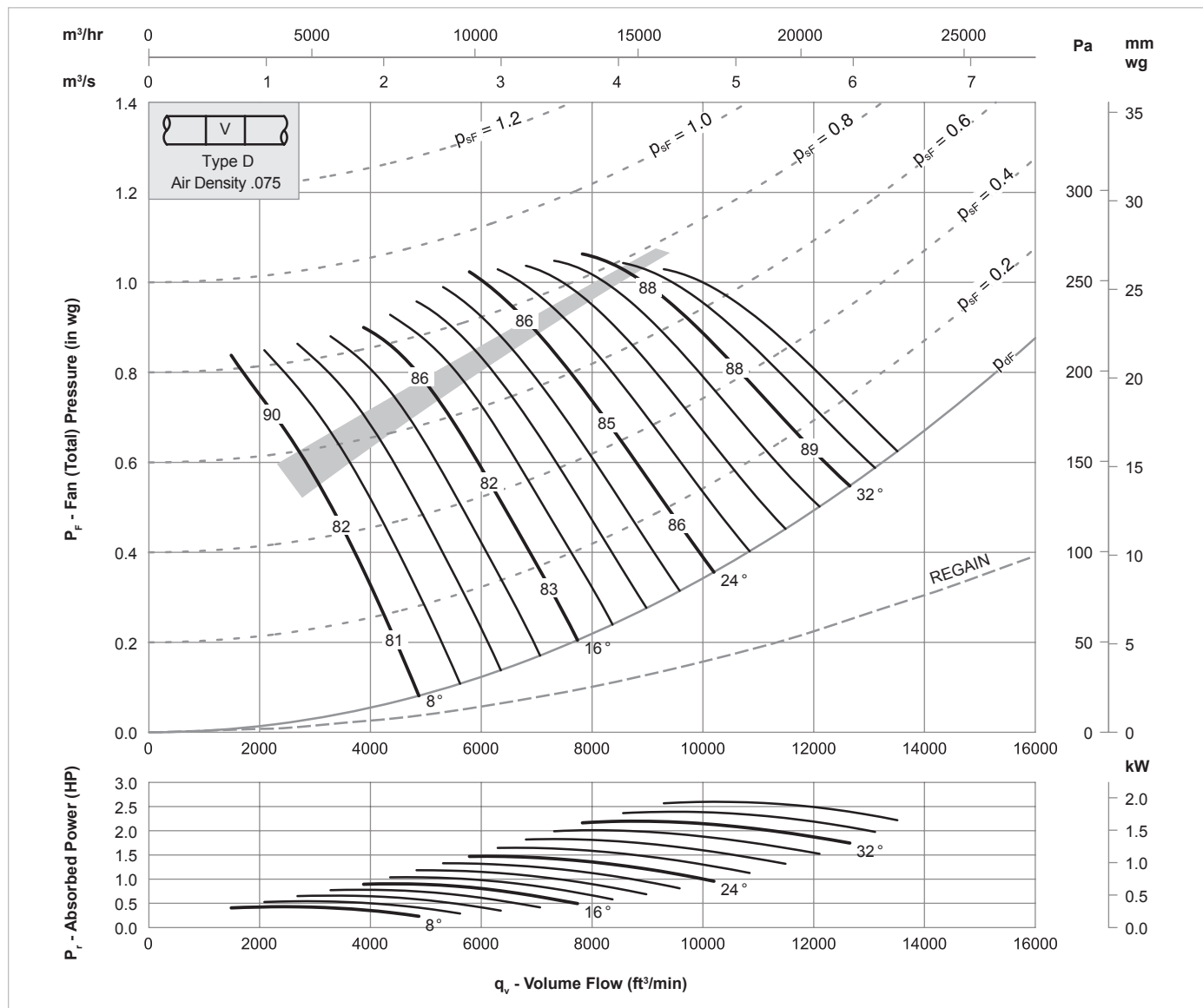
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 25 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-11	-6	-4	-7	-15	-22	-29
	-7	-9	-8	-7	-7	-9	-14	-22
16°	-7	-7	-7	-8	-8	-12	-18	-24
	-5	-6	-8	-11	-11	-13	-18	-24
24 - 36°	-5	-6	-7	-9	-10	-14	-18	-21
	-4	-6	-8	-11	-12	-16	-20	-24

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-7	-14	-21	-28
	-6	-7	-8	-7	-7	-8	-13	-20
16°	-6	-6	-7	-8	-8	-11	-18	-23
	-3	-4	-8	-11	-11	-13	-17	-23
24 - 36°	-4	-5	-7	-9	-10	-13	-17	-20
	-2	-4	-8	-11	-12	-15	-19	-23

End Reflection (dB)

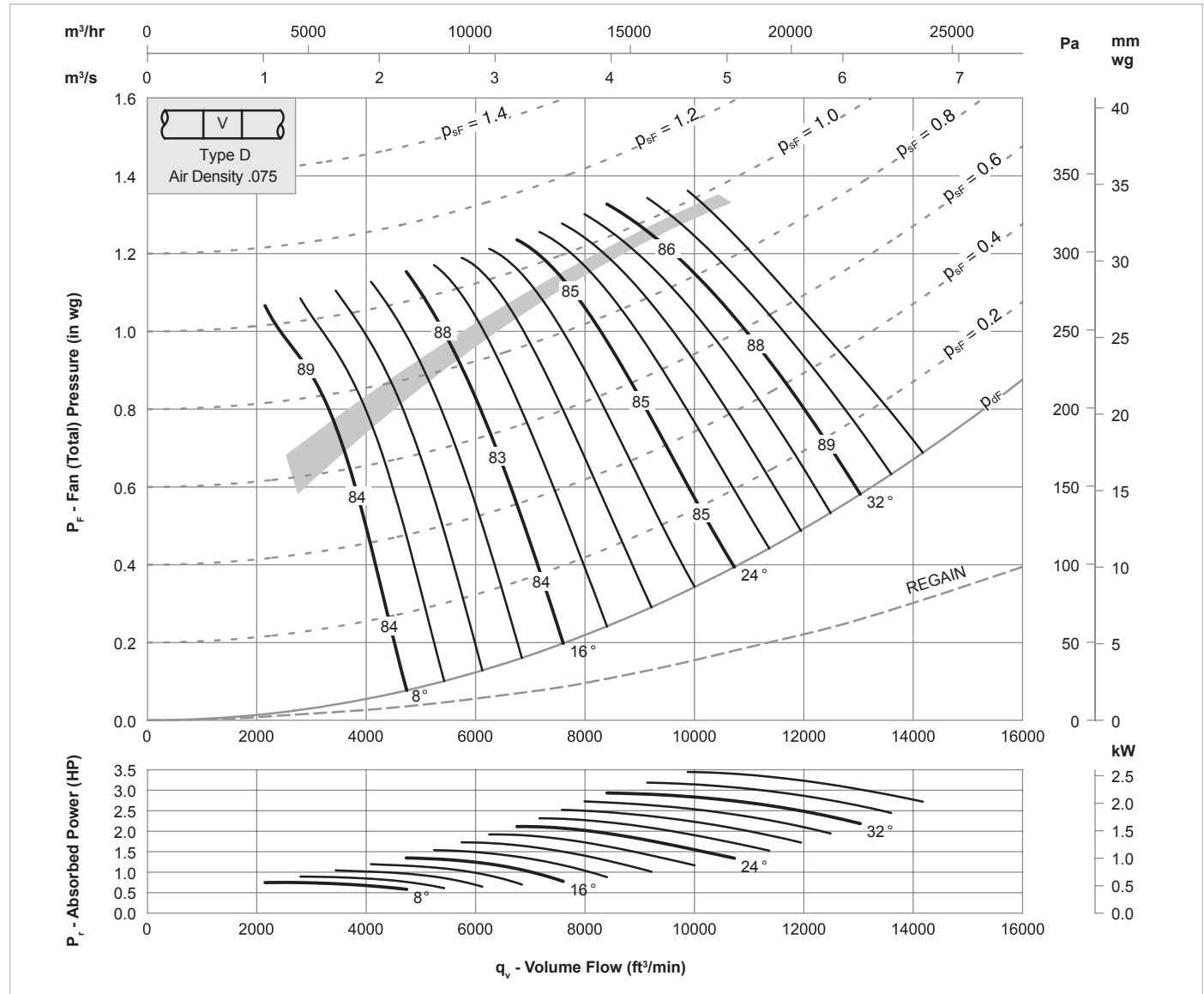
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 25 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-9	-4	-6	-13	-21	-29
	-11	-9	-8	-7	-7	-8	-14	-23
16°	-10	-9	-6	-5	-8	-14	-19	-26
	-8	-6	-6	-8	-9	-11	-16	-23
24 - 36°	-7	-7	-6	-8	-10	-13	-17	-20
	-6	-6	-6	-9	-11	-15	-19	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-8	-4	-6	-13	-21	-28
	-9	-7	-7	-7	-7	-7	-13	-21
16°	-9	-7	-6	-5	-8	-13	-19	-25
	-7	-5	-5	-8	-9	-11	-16	-22
24 - 36°	-5	-5	-6	-8	-9	-12	-16	-19
	-3	-4	-5	-9	-11	-14	-18	-22

End Reflection (dB)

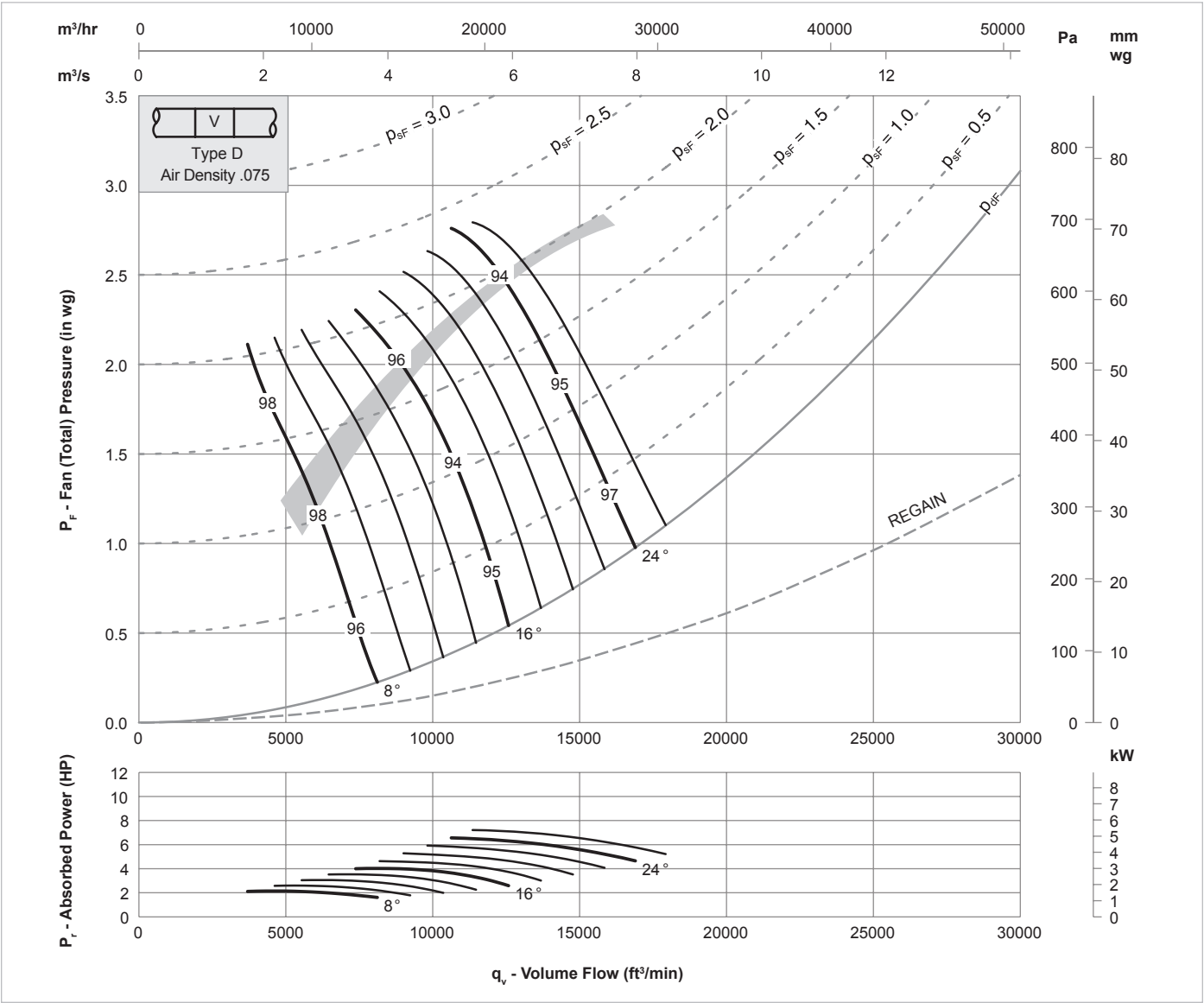
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 20 / 1770 / 6



Inlet Levels

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

Outlet Levels

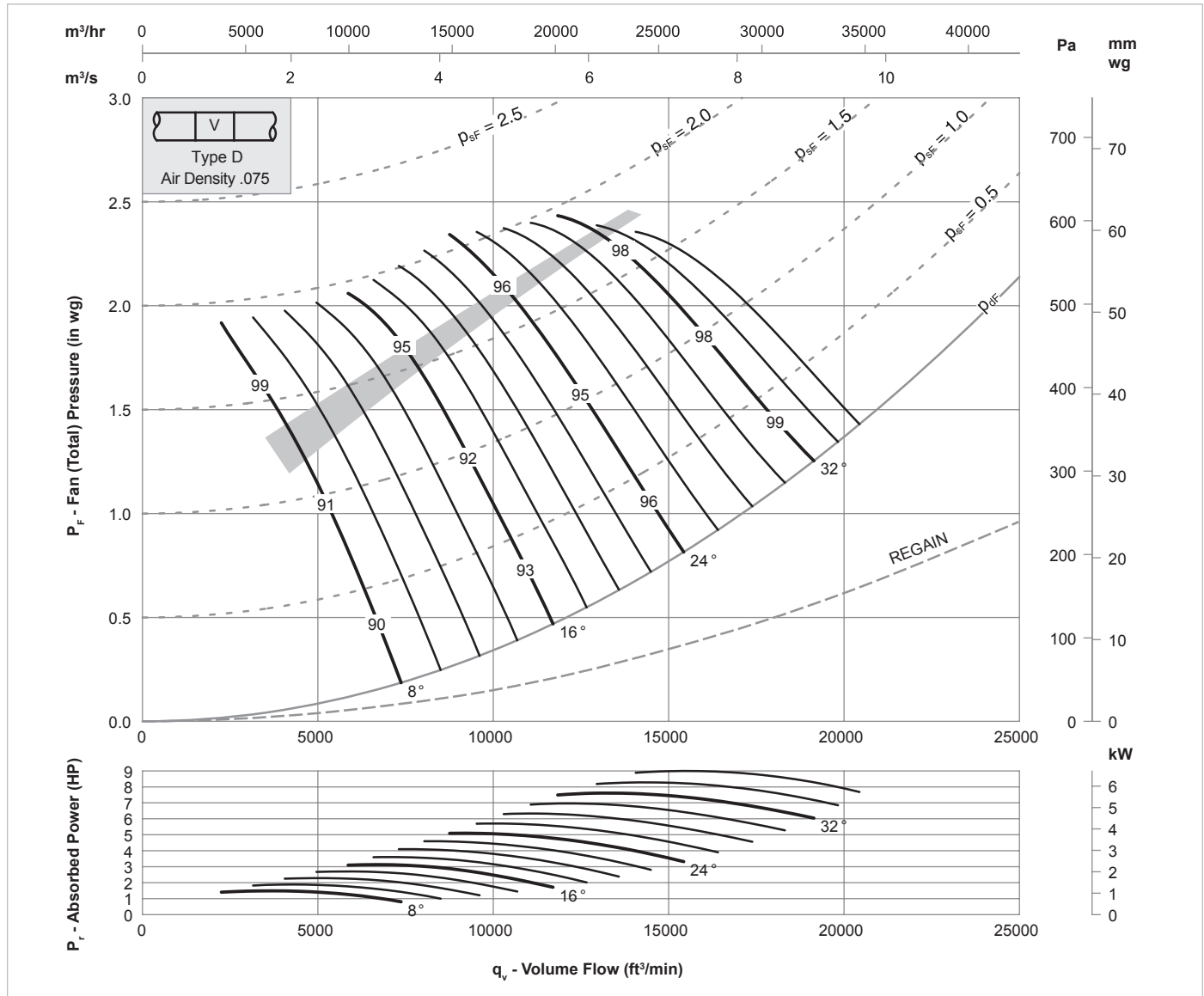
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-7	-4	-8	-11	-18	-23
	-18	-11	-9	-5	-5	-7	-16	-21
16°	-15	-11	-6	-4	-8	-10	-18	-22
	-11	-6	-7	-7	-10	-10	-14	-18
24 - 26°	-9	-6	-7	-7	-11	-11	-15	-18
	-7	-4	-7	-9	-12	-14	-17	-20

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 25 / 1770 / 6



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

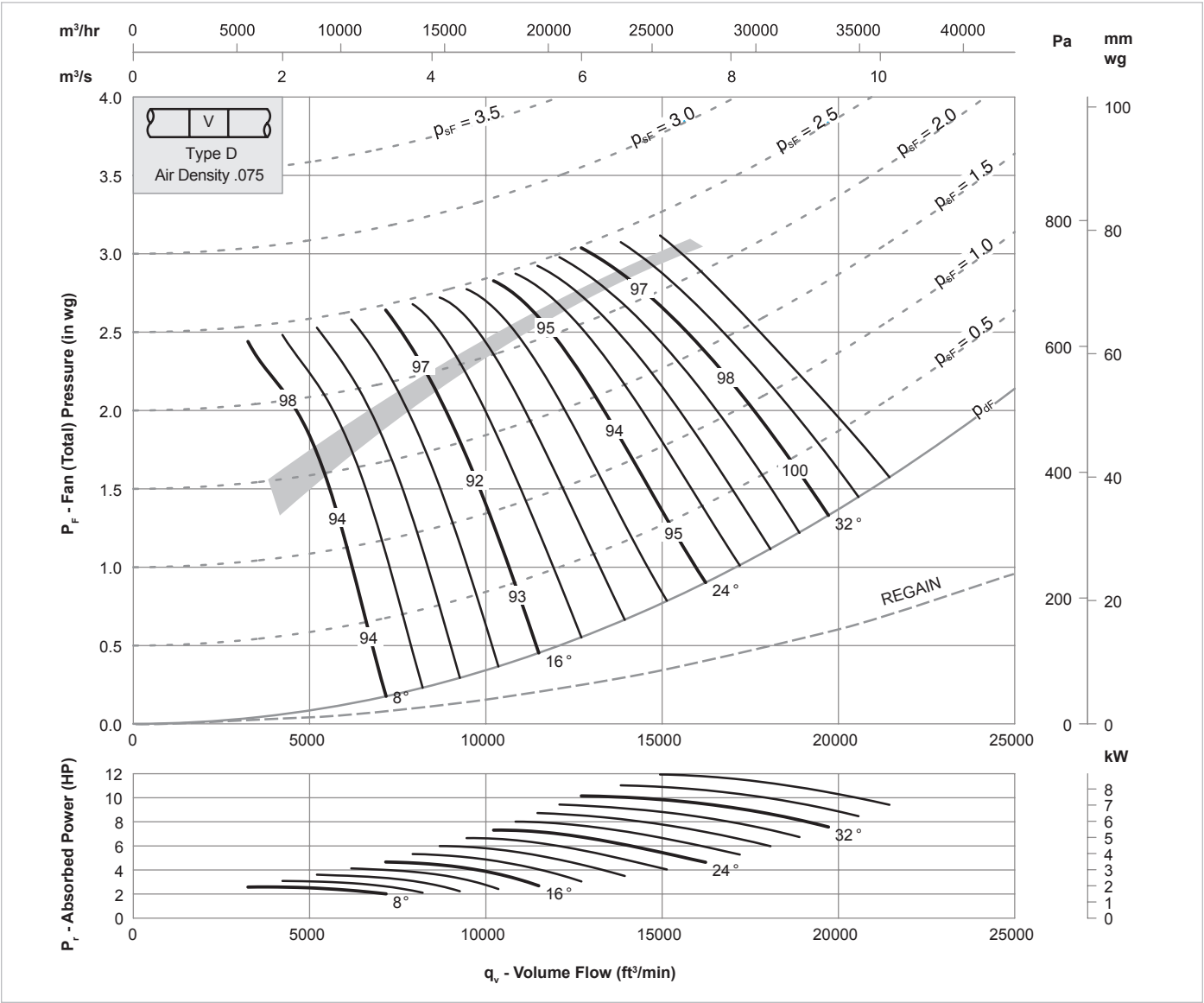
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 25 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-11	-9	-7	-5	-9	-16	-25
	-12	-11	-9	-8	-7	-8	-9	-19
16°	-10	-11	-9	-5	-7	-11	-16	-23
	-7	-10	-7	-7	-10	-11	-13	-20
24 - 36°	-5	-10	-8	-8	-11	-13	-16	-20
	-5	-9	-8	-8	-12	-14	-17	-22

Outlet Levels

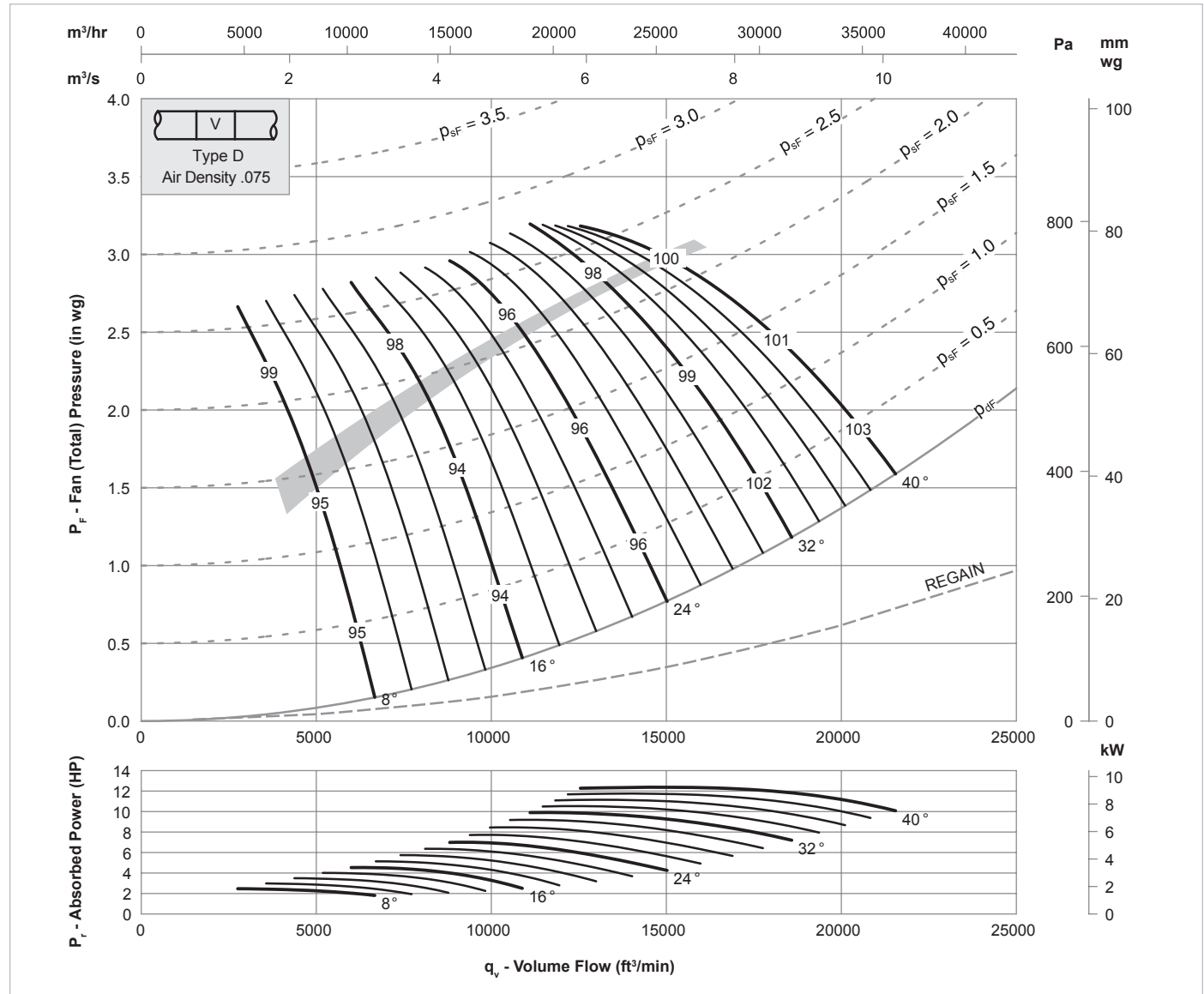
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-10	-7	-6	-5	-8	-16	-23
	-10	-10	-7	-7	-7	-7	-8	-17
16°	-8	-10	-7	-5	-6	-10	-16	-22
	-6	-10	-4	-7	-10	-11	-12	-19
24 - 36°	-3	-9	-6	-7	-10	-12	-14	-18
	-3	-8	-5	-7	-11	-13	-16	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 28 / 31 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-11	-9	-7	-5	-9	-16	-25
	-12	-11	-9	-8	-7	-8	-9	-19
16°	-10	-11	-9	-5	-7	-11	-16	-23
	-7	-10	-7	-7	-10	-11	-13	-20
24 - 40°	-5	-10	-8	-8	-11	-13	-16	-20
	-5	-9	-8	-8	-12	-14	-17	-22

Outlet Levels

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

End Reflection (dB)

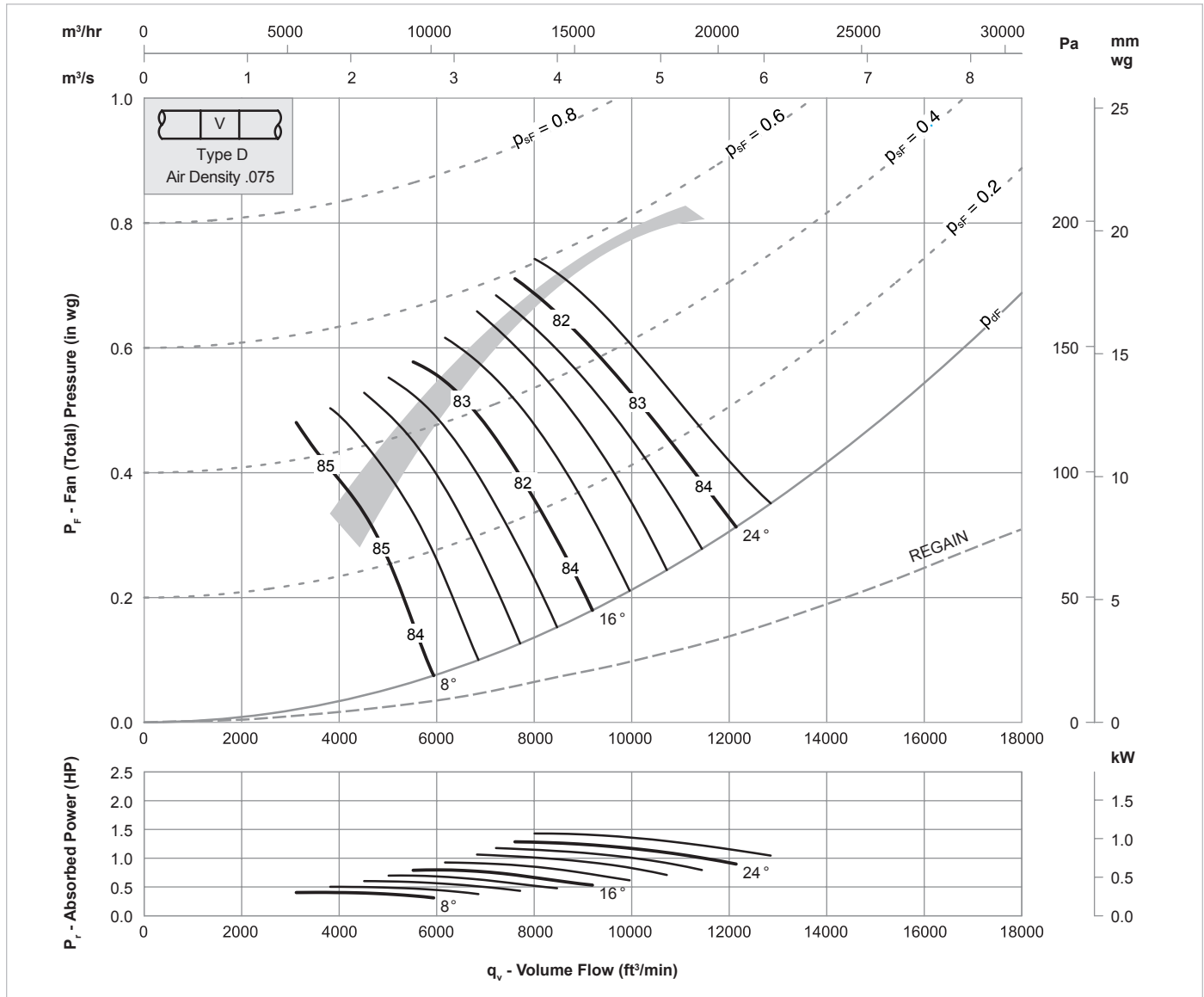
63	125	250	500	1k	2k	4k	8k
-7	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 20 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-7	-4	-7	-10	-18	-24	-31
	-14	-9	-6	-5	-7	-16	-21	-28
16°	-14	-5	-3	-9	-11	-19	-24	-32
	-7	-6	-7	-9	-9	-13	-18	-23
24 - 26°	-8	-7	-6	-9	-8	-13	-16	-22
	-5	-6	-7	-11	-11	-15	-18	-23

Outlet Levels

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

End Reflection (dB)

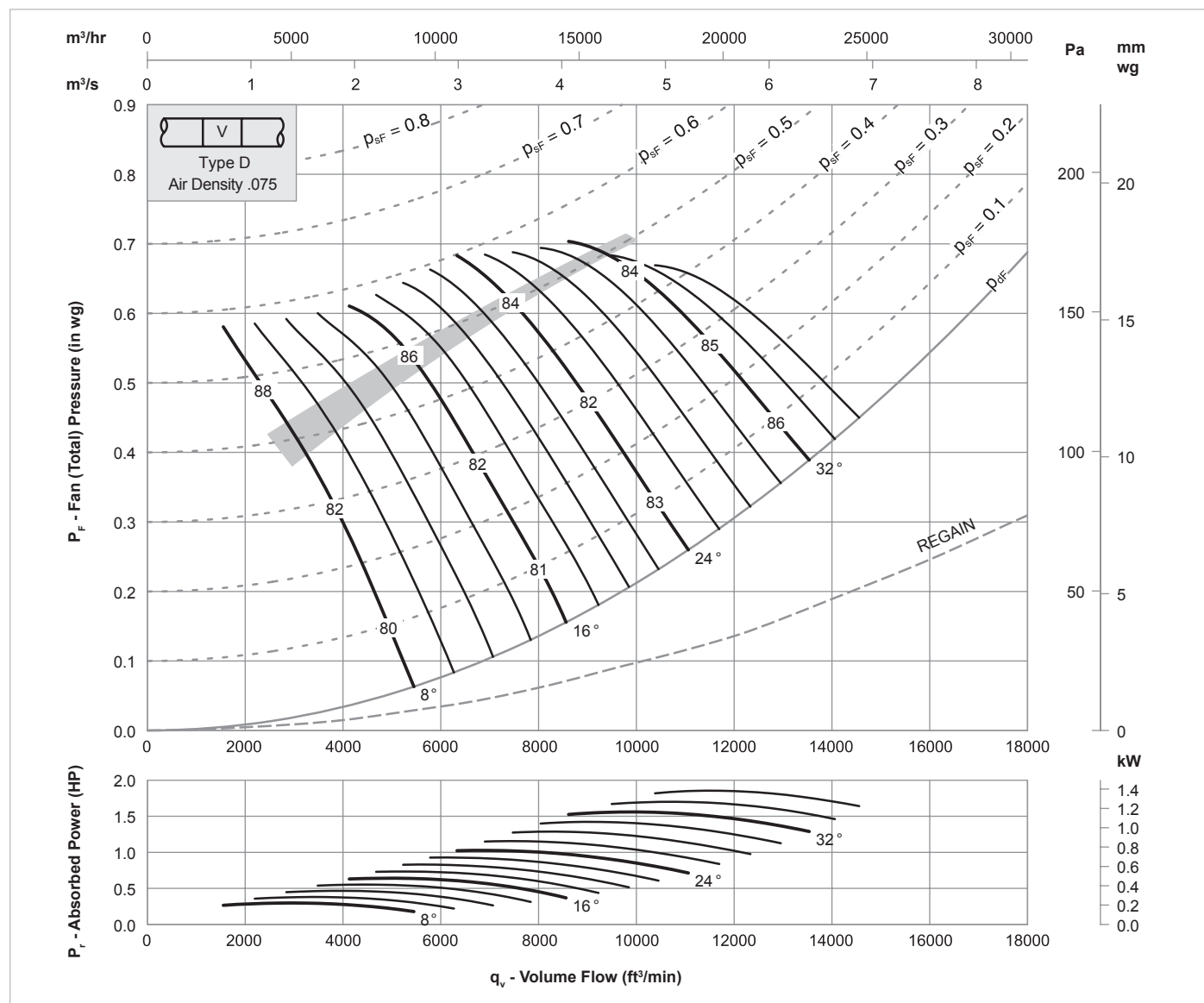
63	125	250	500	1k	2k	4k	8k
-6	-3	-1	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 25 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-5	-3	-11	-17	-24	-32
	-11	-12	-7	-4	-7	-12	-17	-24
16°	-9	-7	-8	-4	-10	-15	-21	-28
	-6	-4	-9	-10	-12	-15	-19	-24
24 - 36°	-6	-7	-7	-7	-10	-14	-17	-22
	-5	-7	-7	-8	-11	-15	-17	-22

Outlet Levels

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

End Reflection (dB)

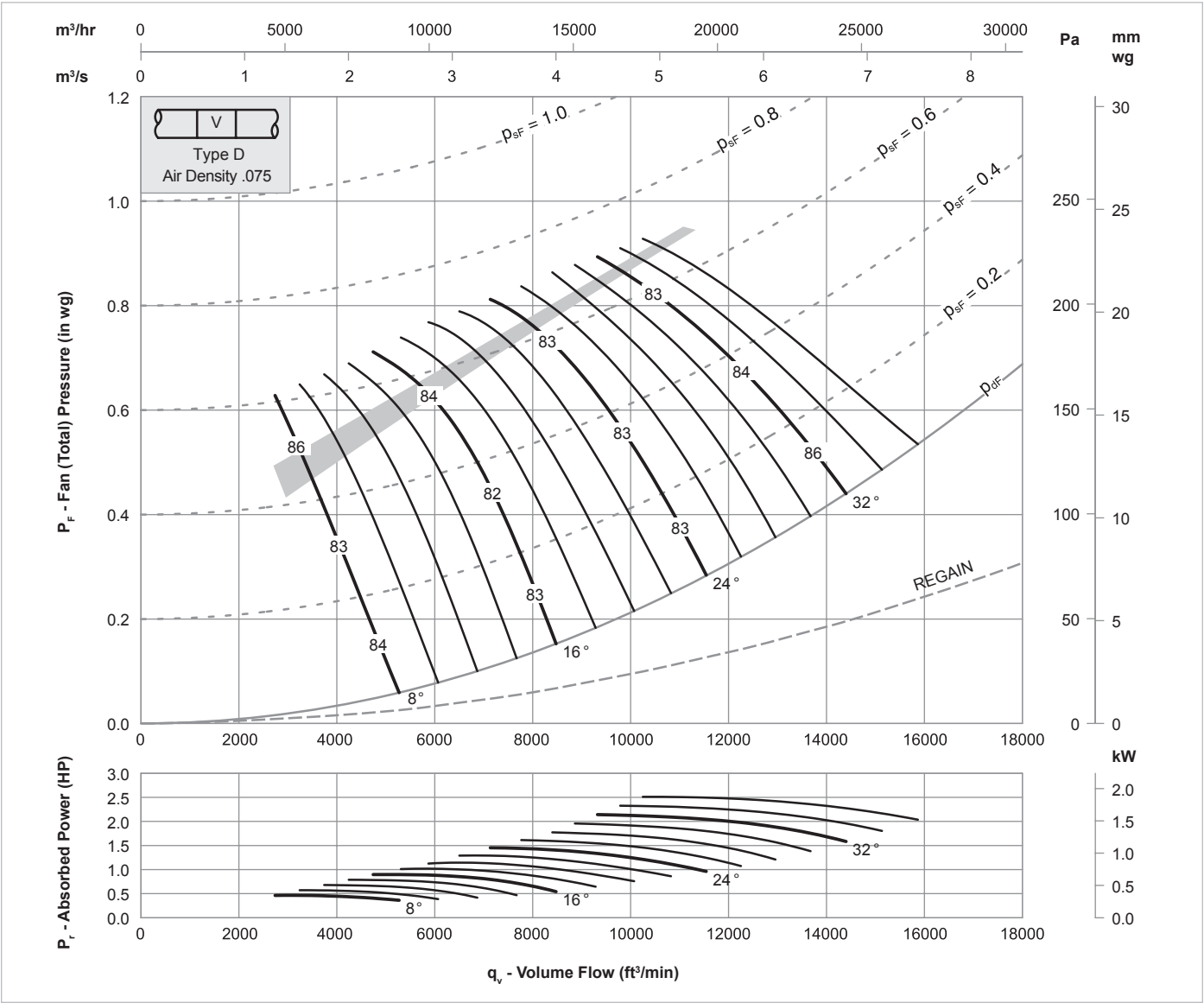
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 25 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-9	-6	-4	-9	-16	-25	-33
	-10	-9	-7	-6	-8	-9	-18	-26
16°	-9	-7	-5	-6	-11	-16	-24	-28
	-10	-7	-5	-8	-10	-14	-18	-25
24 - 36°	-9	-8	-6	-6	-10	-13	-16	-21
	-9	-7	-5	-7	-11	-14	-17	-22

Outlet Levels

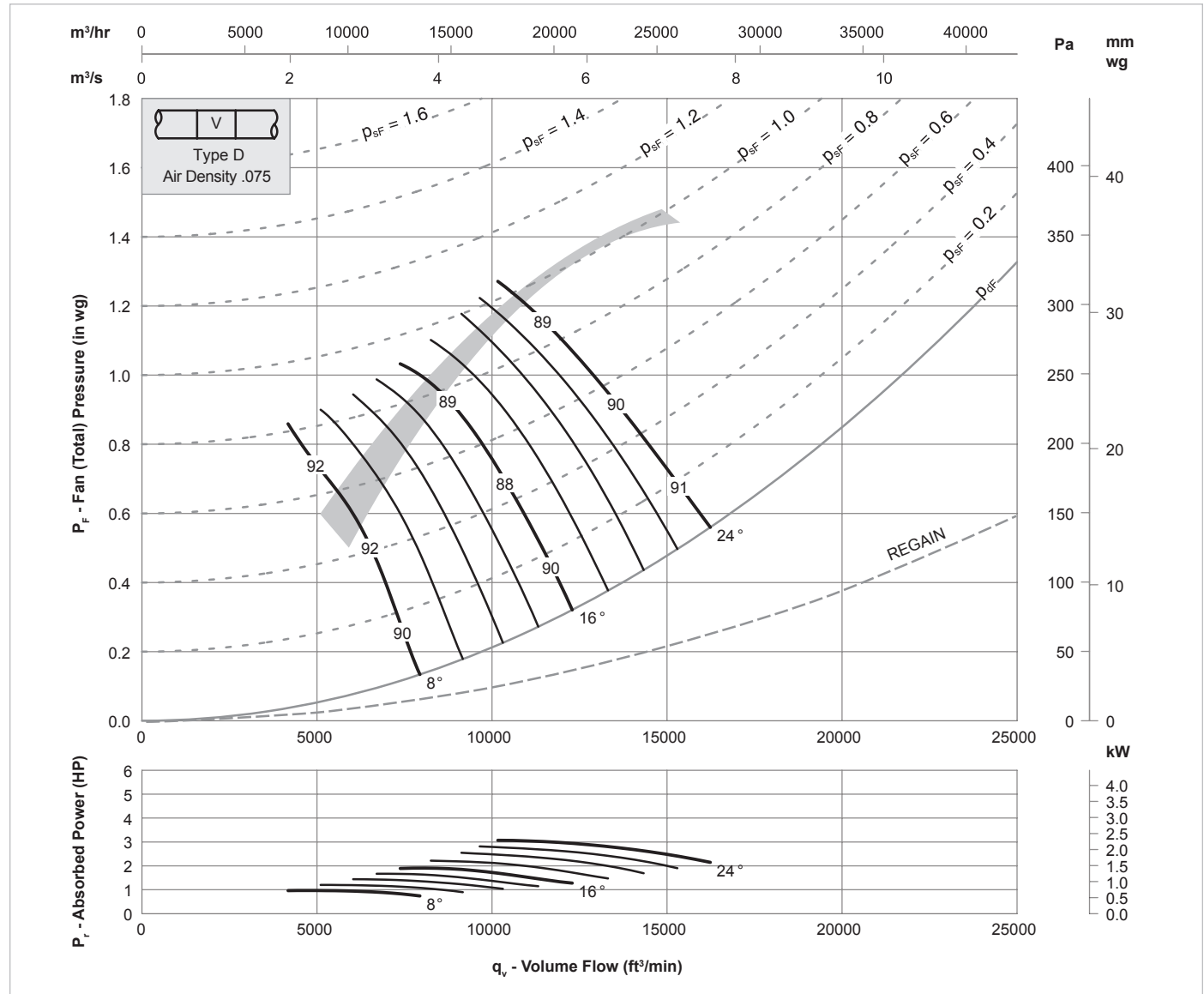
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-6	-6	-9	-16	-24	-31
	-10	-8	-7	-7	-8	-8	-18	-24
16°	-8	-7	-5	-6	-11	-16	-20	-26
	-9	-6	-5	-8	-10	-13	-18	-23
24 - 36°	-8	-8	-6	-6	-10	-13	-15	-19
	-8	-6	-5	-8	-11	-14	-16	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

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VXDA 32 / 20 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-10	-4	-5	-8	-15	-21	-28
	-17	-11	-7	-5	-5	-12	-18	-25
16°	-16	-9	-3	-6	-10	-16	-21	-28
	-10	-6	-7	-8	-8	-12	-15	-21
24°	-10	-6	-7	-8	-8	-11	-14	-20
	-7	-5	-7	-10	-11	-14	-16	-22

Outlet Levels

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

End Reflection (dB)

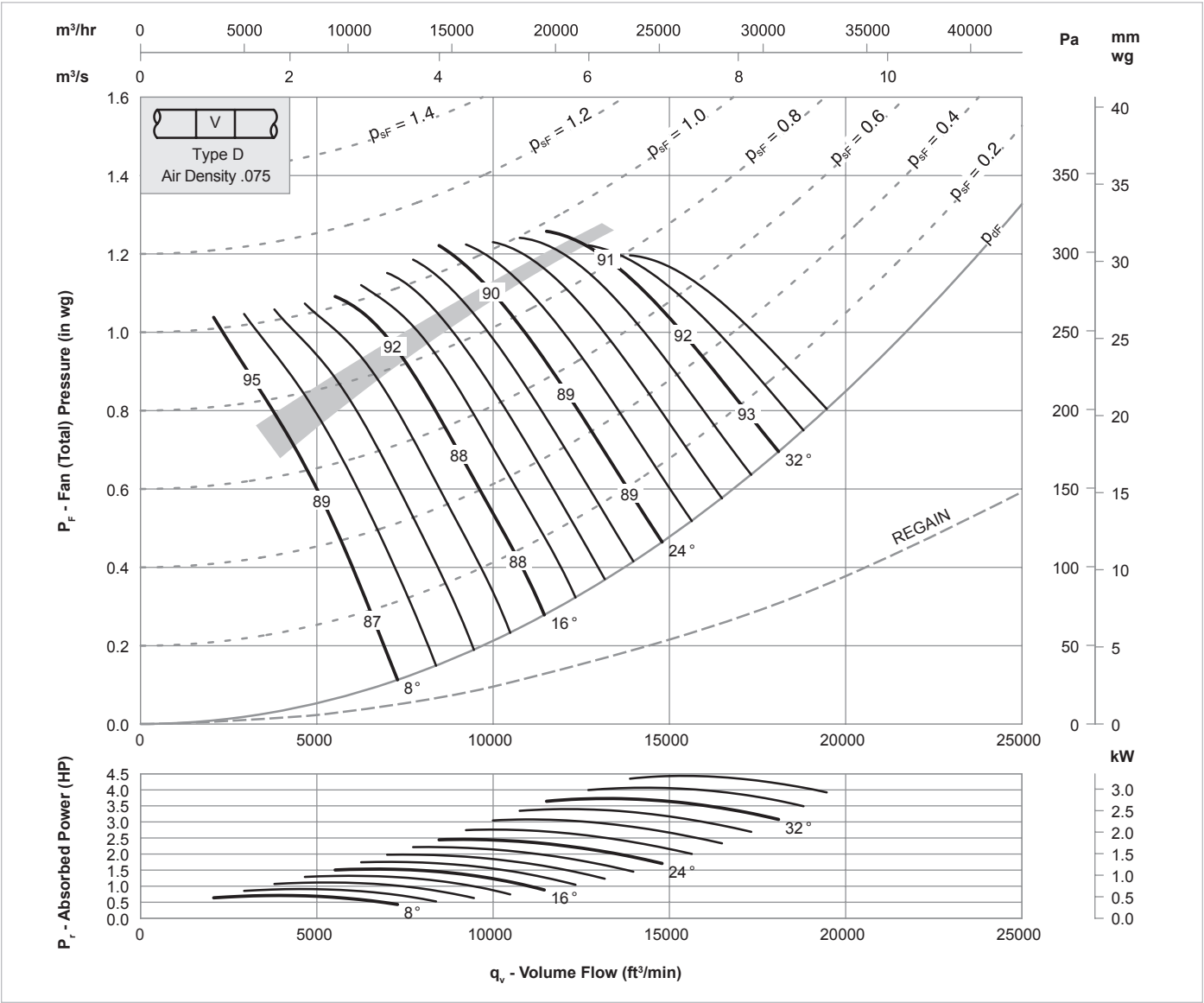
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 25 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-14	-7	-3	-6	-15	-21	-28
	-11	-13	-10	-6	-5	-9	-15	-22
16°	-9	-9	-9	-5	-6	-13	-18	-25
	-6	-6	-8	-10	-10	-13	-16	-21
24 - 36°	-6	-7	-8	-8	-8	-13	-16	-20
	-5	-7	-8	-8	-9	-14	-17	-21

Outlet Levels

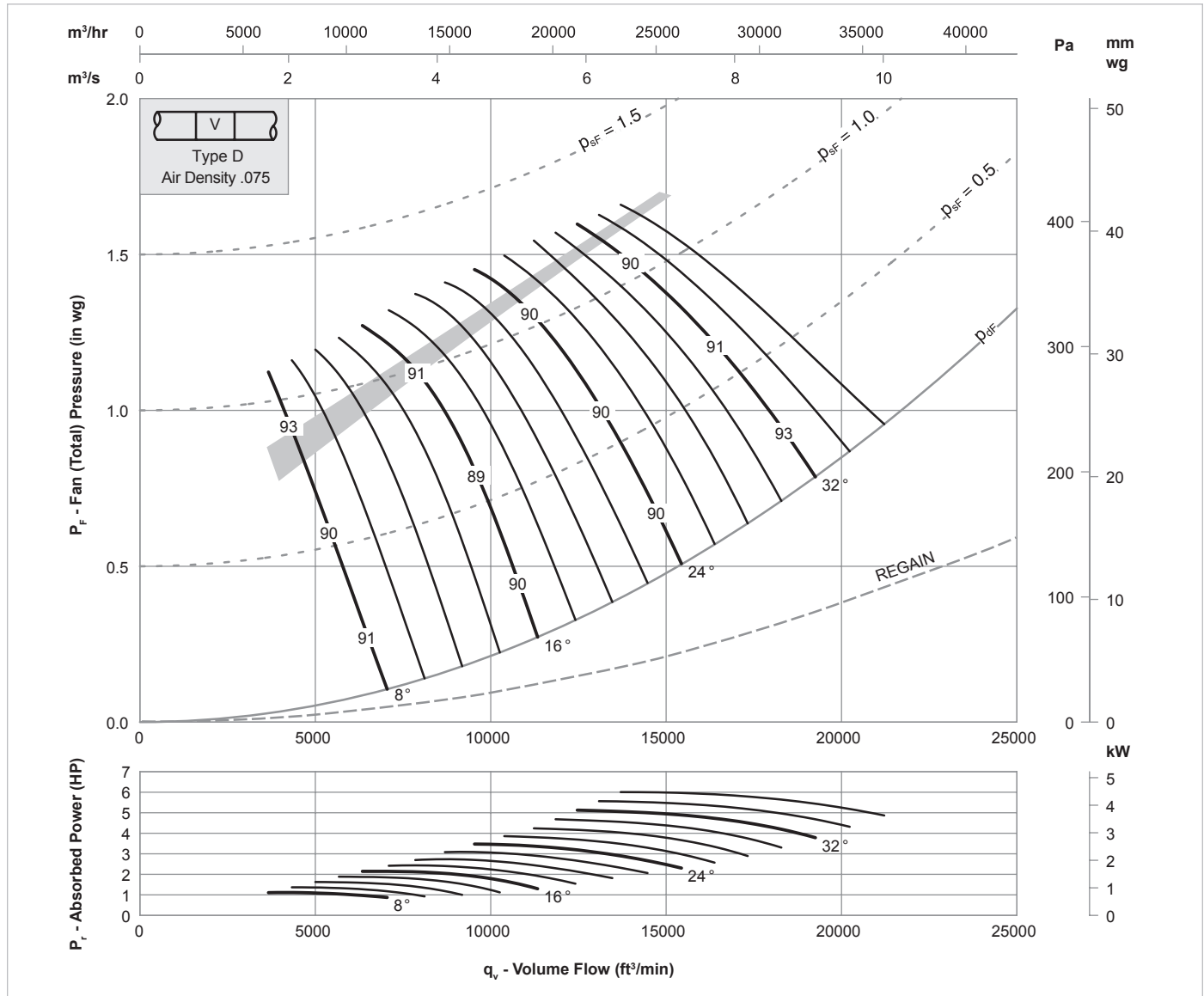
Pitch Angle	-Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-13	-7	-5	-7	-14	-20	-26
	-11	-13	-10	-7	-5	-8	-15	-20
16°	-8	-9	-9	-6	-7	-13	-18	-23
	-5	-5	-8	-10	-11	-13	-16	-20
24 - 36°	-5	-7	-8	-8	-9	-13	-15	-19
	-5	-7	-8	-9	-10	-13	-16	-19

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 25 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-9	-9	-4	-6	-13	-21	-29
	-10	-9	-8	-7	-7	-8	-14	-23
16°	-9	-11	-5	-6	-7	-14	-19	-25
	-8	-8	-5	-8	-8	-12	-16	-22
24 - 36°	-7	-10	-7	-7	-8	-12	-15	-19
	-7	-8	-6	-7	-9	-13	-16	-21

Outlet Levels

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

End Reflection (dB)

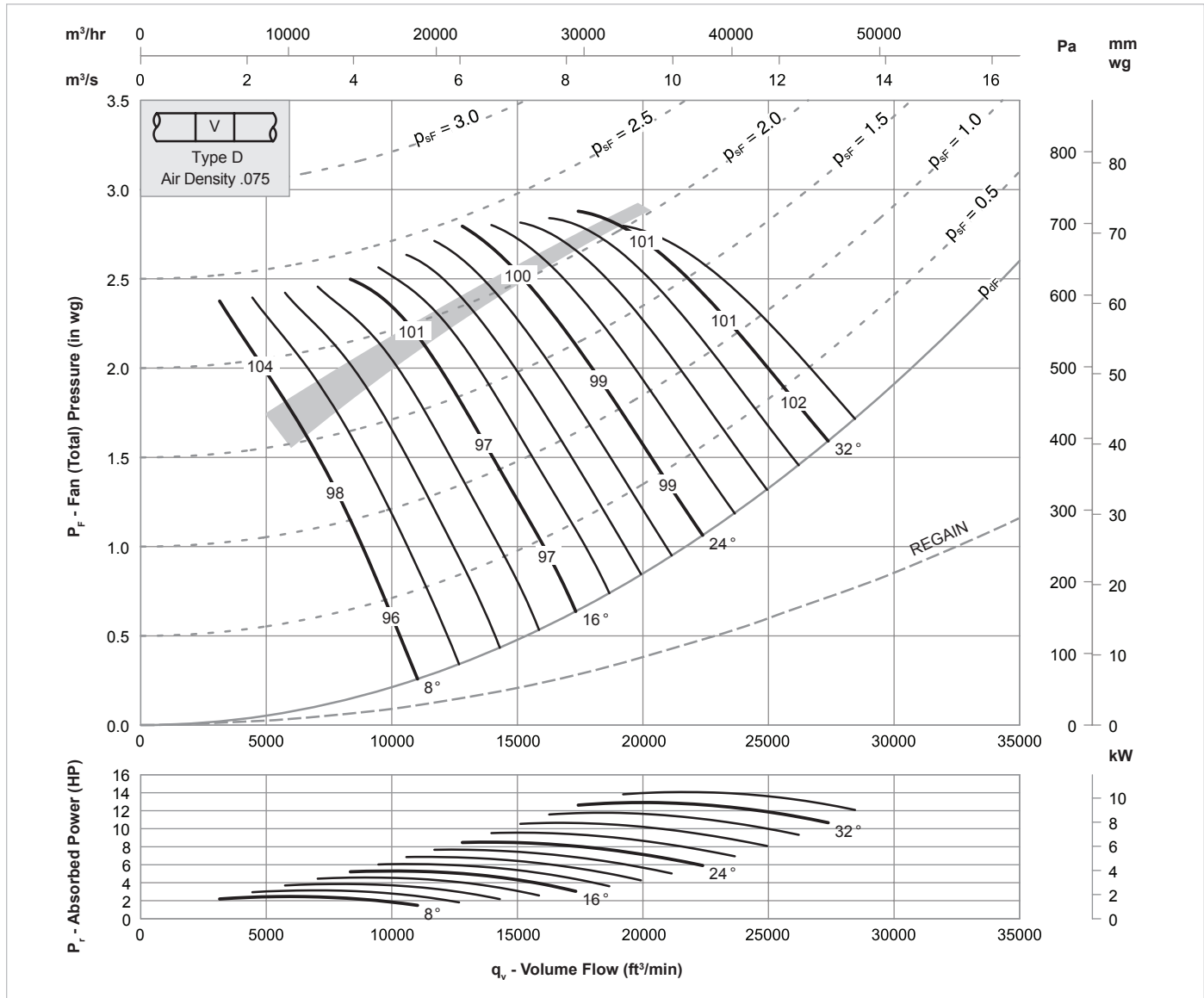
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 25 / 1770 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-16	-12	-6	-3	-11	-18	-24
	-14	-11	-13	-8	-5	-7	-12	-18
16°	-11	-9	-7	-8	-5	-10	-16	-21
	-10	-6	-5	-9	-11	-13	-15	-19
24 - 34°	-6	-7	-9	-9	-8	-11	-15	-18
	-7	-6	-8	-8	-9	-12	-16	-19

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-14	-12	-7	-4	-10	-17	-22
	-14	-11	-13	-9	-5	-5	-11	-16
16°	-10	-9	-7	-9	-5	-10	-15	-20
	-9	-6	-5	-10	-11	-13	-15	-18
24 - 34°	-5	-7	-8	-9	-8	-11	-15	-17
	-6	-6	-8	-9	-9	-12	-15	-17

End Reflection (dB)

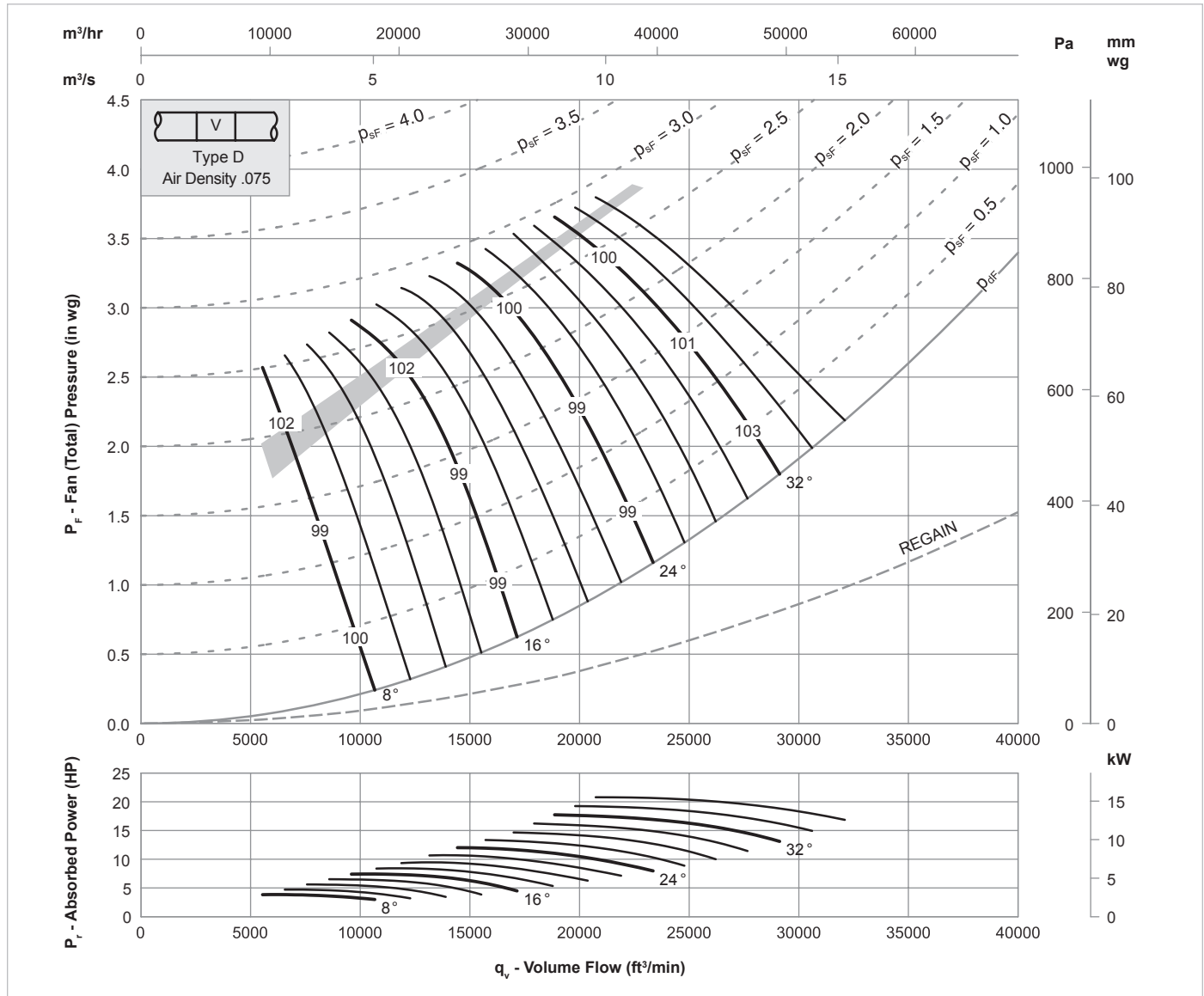
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 25 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-11	-10	-7	-5	-9	-16	-25
	-10	-11	-10	-8	-7	-8	-9	-19
16°	-7	-10	-8	-6	-7	-12	-17	-22
	-6	-11	-8	-6	-9	-11	-15	-19
24 - 36°	-4	-12	-11	-8	-8	-12	-15	-18
	-6	-10	-9	-7	-8	-12	-15	-19

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-11	-8	-8	-5	-9	-15	-23
	-10	-11	-9	-9	-7	-7	-9	-17
16°	-6	-10	-8	-6	-7	-12	-16	-20
	-6	-11	-8	-7	-9	-10	-14	-18
24 - 36°	-3	-12	-11	-9	-8	-12	-14	-17
	-5	-10	-8	-8	-8	-12	-14	-17

End Reflection (dB)

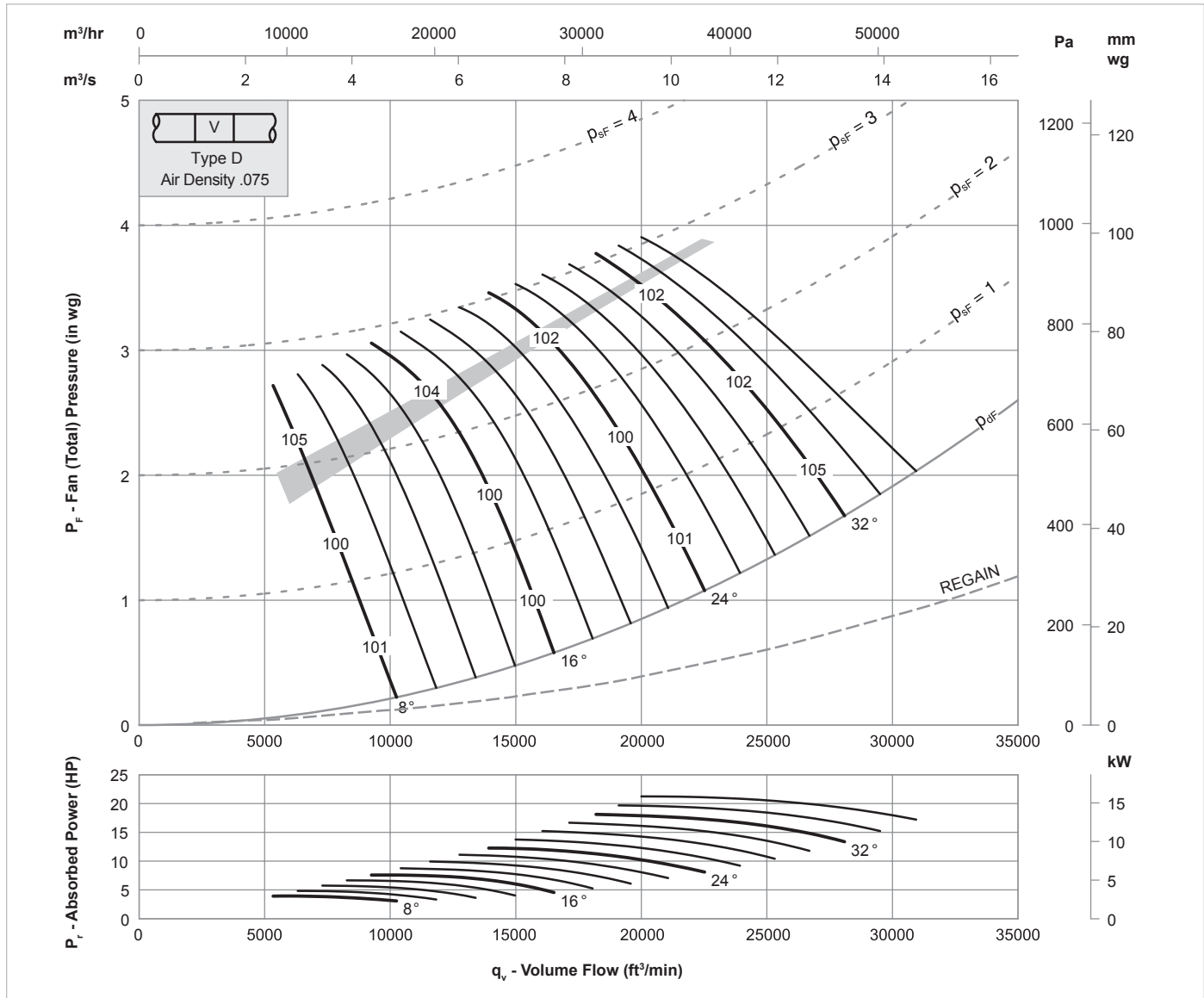
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 32 / 31 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-10	-11	-10	-7	-5	-9	-16	-25
	-10	-11	-10	-8	-7	-8	-9	-19
16°	-7	-10	-8	-6	-7	-12	-17	-22
	-6	-11	-8	-6	-9	-11	-15	-19
24 - 40°	-4	-12	-11	-8	-8	-12	-15	-18
	-6	-10	-9	-7	-8	-12	-15	-19

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-11	-8	-8	-5	-9	-15	-23
	-10	-11	-9	-9	-7	-7	-9	-17
16°	-6	-10	-8	-6	-7	-12	-16	-20
	-6	-11	-8	-7	-9	-10	-14	-18
24 - 40°	-3	-12	-11	-9	-8	-12	-14	-17
	-5	-10	-8	-8	-8	-12	-14	-17

End Reflection (dB)

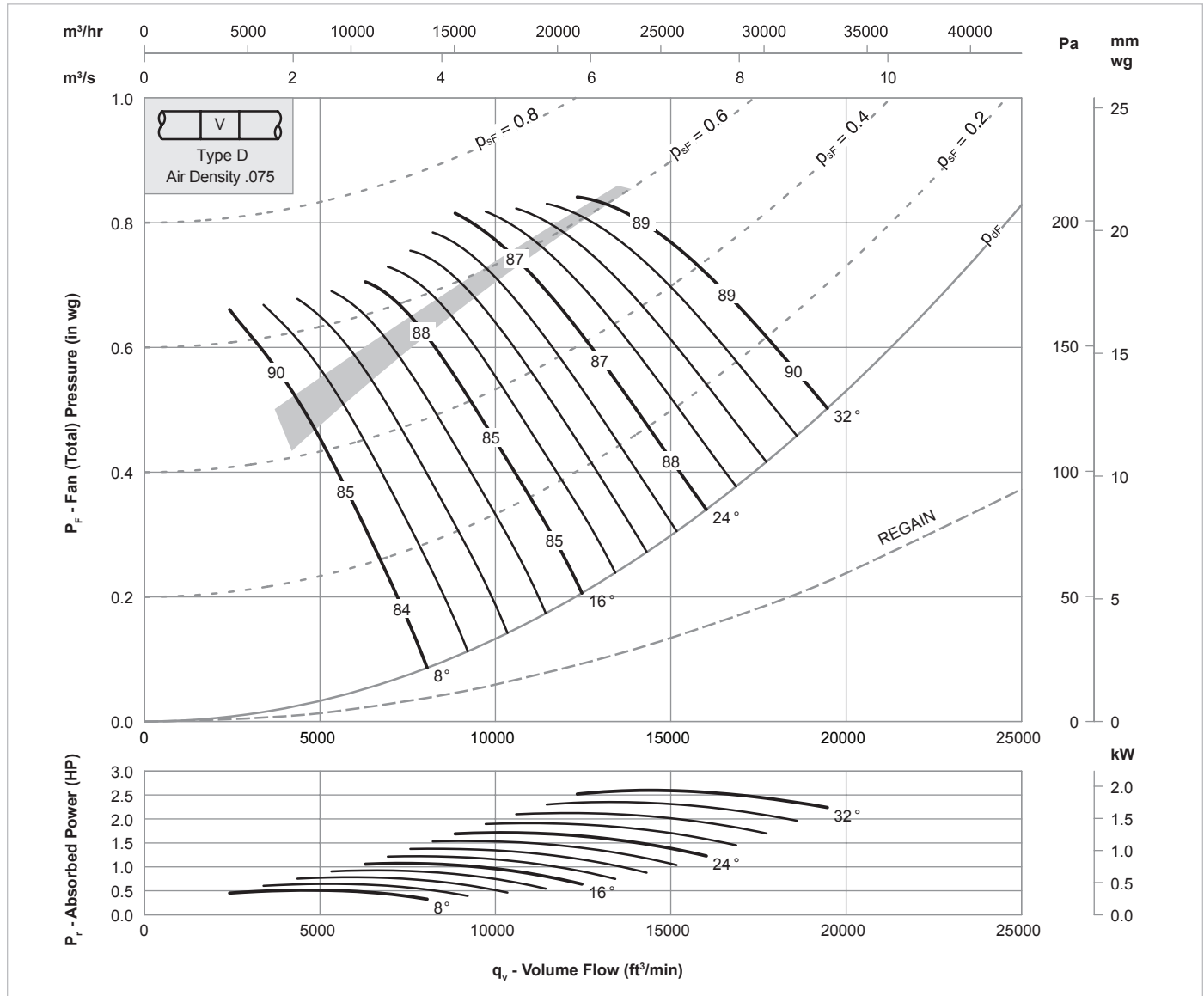
63	125	250	500	1k	2k	4k	8k
-6	-3	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 36 / 25 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-5	-3	-9	-15	-21	-29
	-10	-11	-9	-6	-6	-10	-16	-23
16°	-12	-10	-7	-4	-8	-14	-20	-27
	-6	-6	-8	-8	-10	-13	-17	-23
24 - 32°	-7	-8	-7	-7	-9	-13	-17	-22
	-5	-7	-8	-8	-10	-13	-17	-22

Outlet Levels

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

End Reflection (dB)

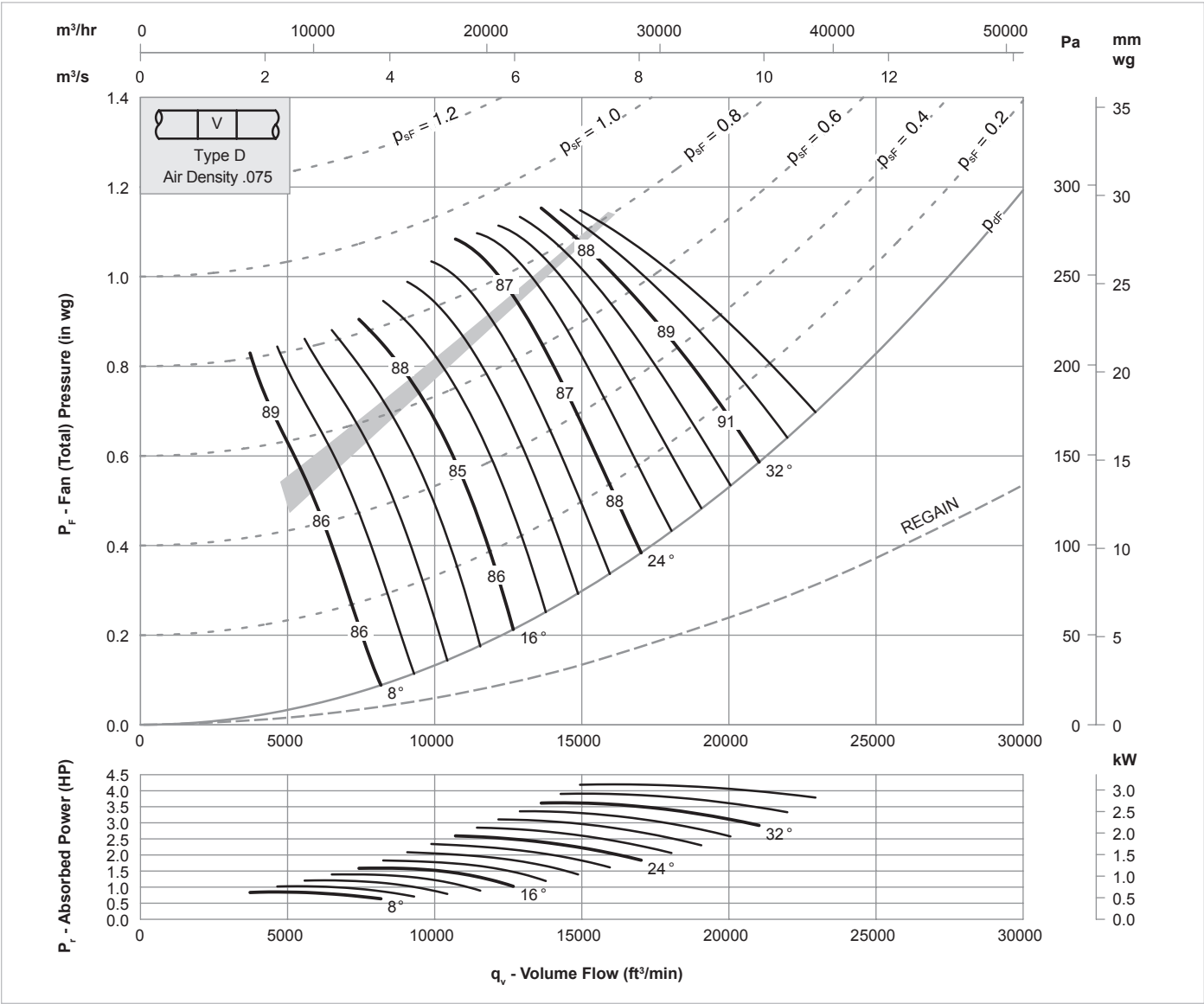
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 36 / 25 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-11	-7	-4	-7	-13	-21	-28
	-13	-9	-8	-6	-6	-8	-16	-22
16°	-12	-10	-6	-4	-8	-13	-19	-26
	-10	-7	-6	-7	-8	-12	-17	-23
24 - 36°	-9	-8	-7	-6	-8	-12	-15	-20
	-7	-7	-7	-8	-10	-13	-17	-22

Outlet Levels

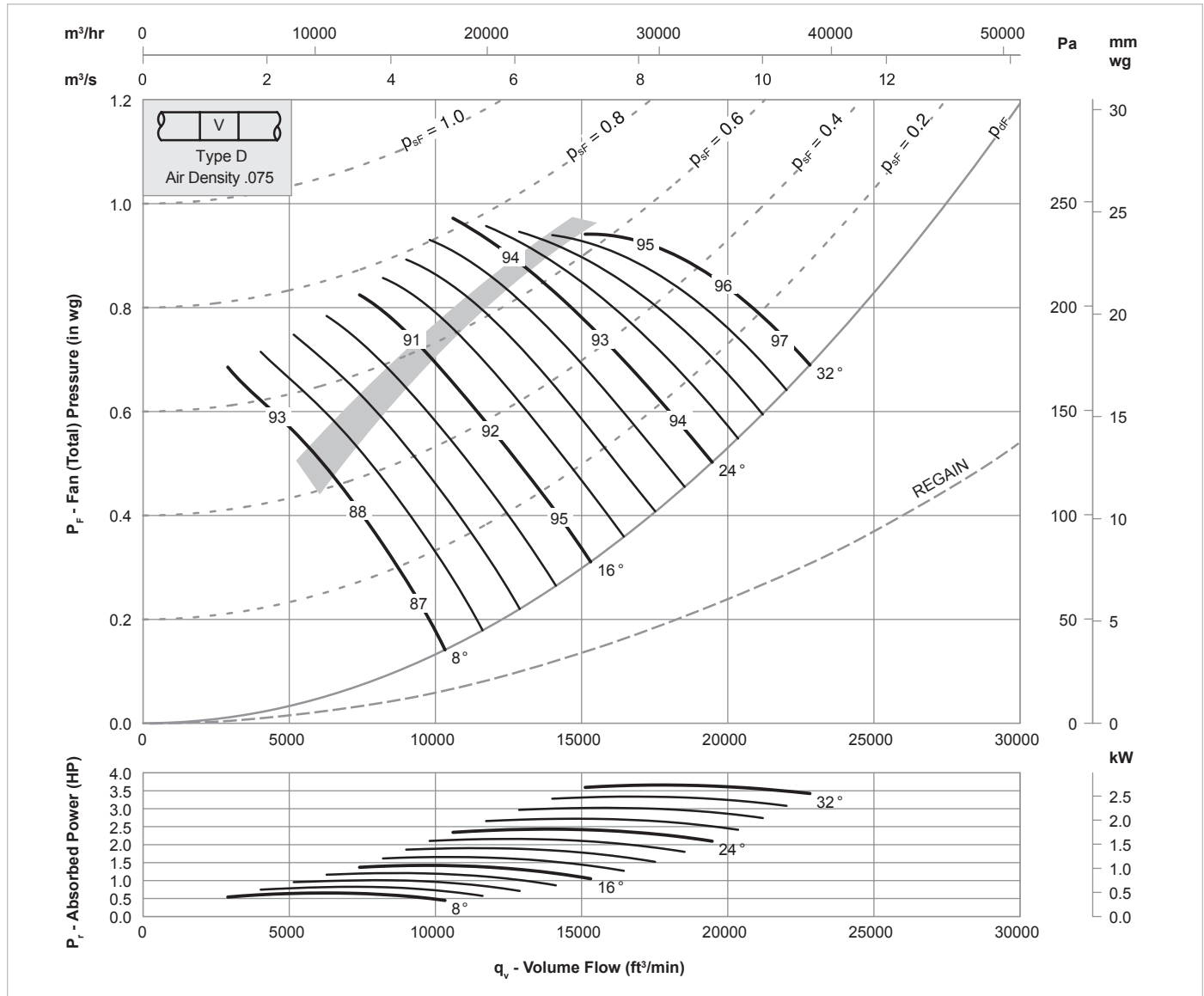
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-9	-7	-4	-7	-13	-20	-26
	-13	-9	-8	-6	-6	-7	-15	-21
16°	-11	-10	-6	-4	-8	-13	-18	-24
	-9	-7	-6	-7	-8	-12	-16	-21
24 - 36°	-7	-8	-7	-6	-8	-12	-14	-19
	-6	-6	-7	-8	-10	-13	-15	-20

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 36 / 25 / 1170 / 3



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-14	-8	-4	-7	-13	-18	-22
	-2	-11	-9	-9	-9	-10	-14	-18
16°	-1	-11	-10	-10	-11	-13	-15	-17
	-1	-10	-11	-12	-13	-15	-17	-20
24 - 32°	-3	-7	-8	-10	-11	-13	-16	-19
	-2	-9	-10	-10	-11	-13	-15	-17

End Reflection (dB)

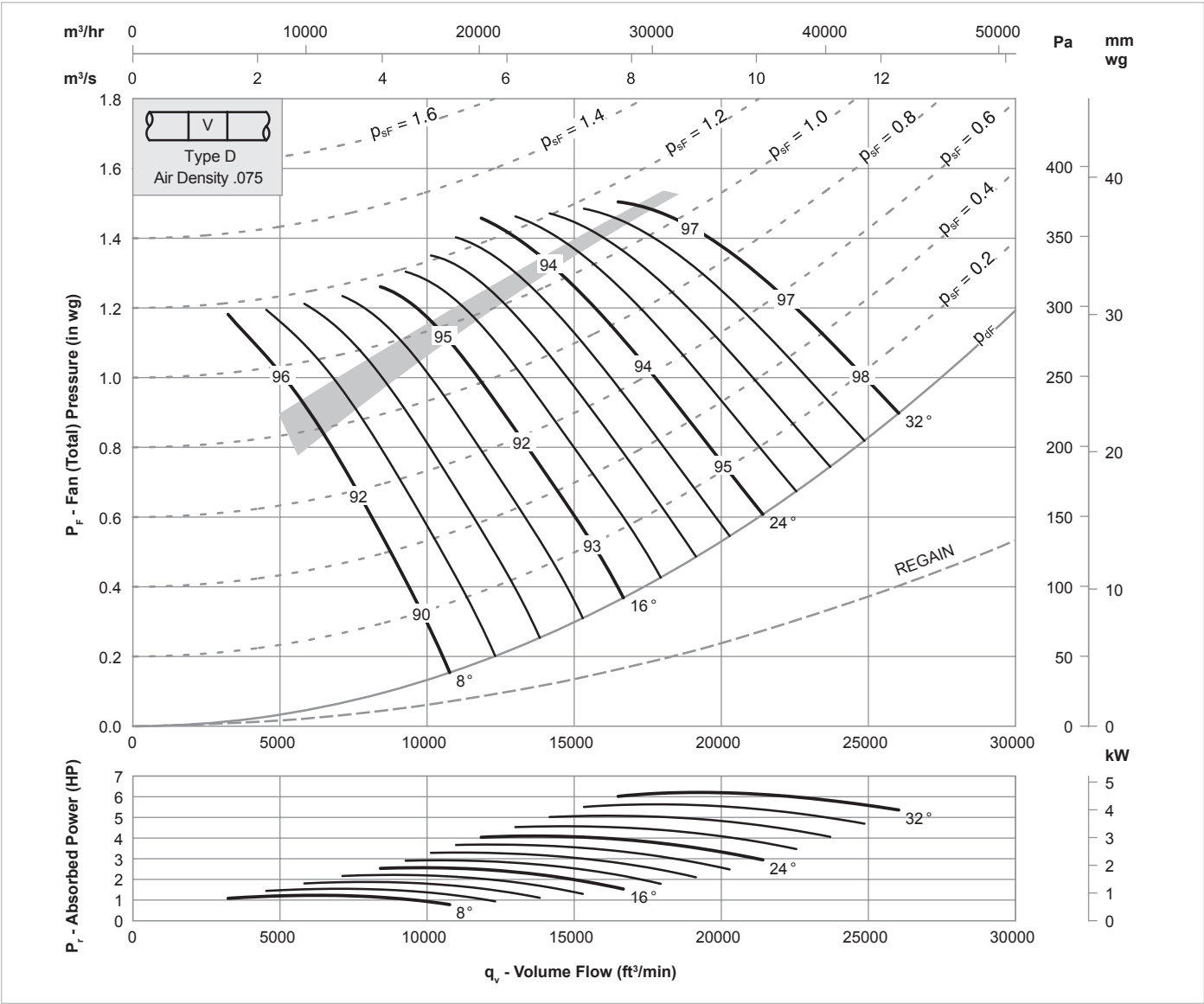
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 36 / 25 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-15	-8	-4	-6	-13	-19	-26
	-9	-13	-10	-9	-5	-9	-14	-21
16°	-10	-13	-10	-5	-6	-12	-18	-24
	-5	-9	-9	-10	-10	-12	-17	-22
24 - 32°	-6	-9	-8	-8	-8	-12	-16	-20
	-5	-8	-8	-9	-10	-13	-16	-21

Outlet Levels

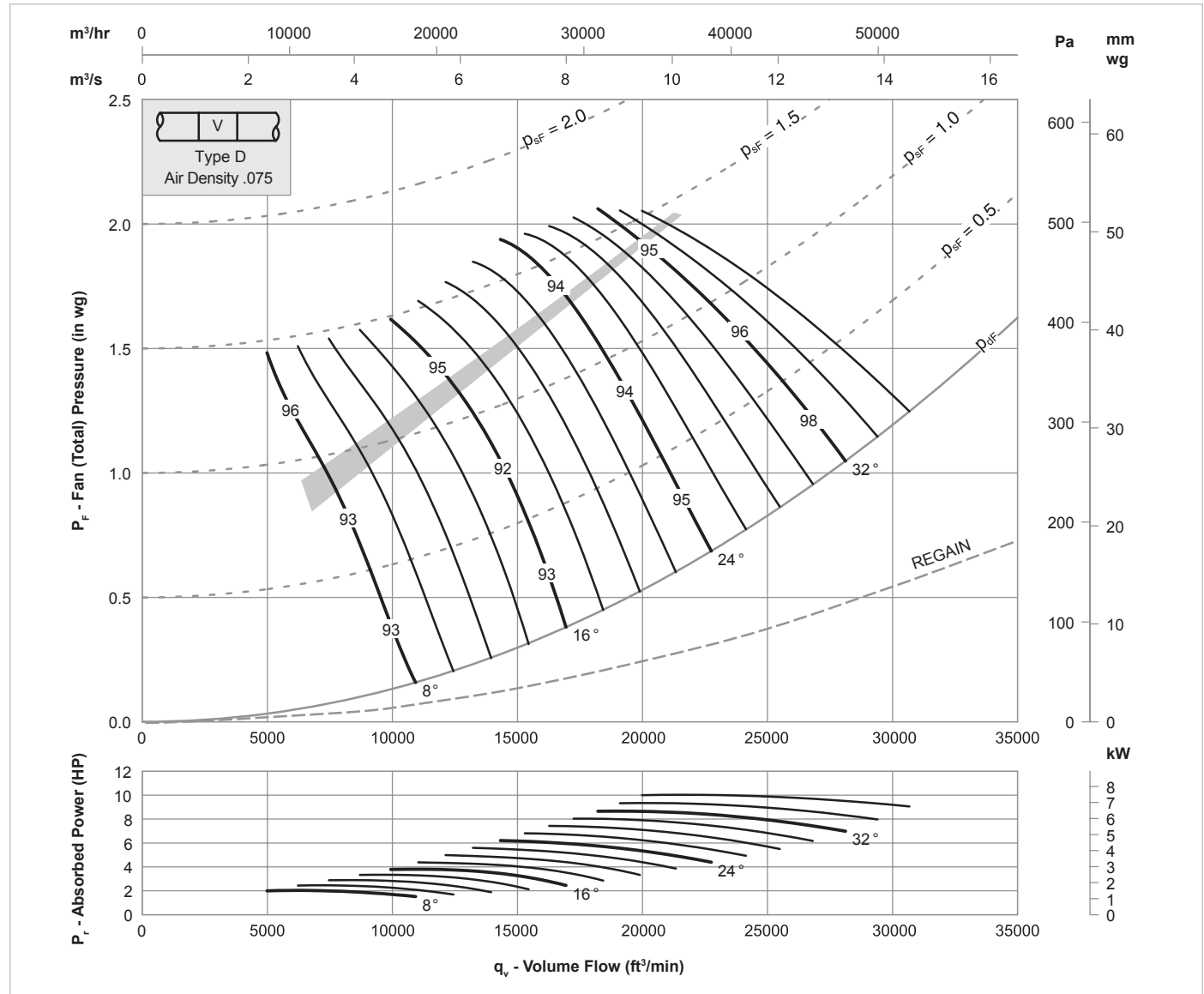
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-13	-7	-4	-6	-13	-18	-24
	-8	-12	-10	-9	-5	-7	-13	-19
16°	-8	-12	-10	-5	-5	-12	-17	-22
	-4	-8	-9	-9	-9	-11	-15	-20
24 - 32°	-5	-9	-8	-7	-8	-12	-15	-19
	-4	-7	-8	-9	-9	-12	-15	-19

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

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VXDA 36 / 25 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-11	-5	-5	-11	-19	-26
	-14	-11	-10	-8	-6	-7	-13	-20
16°	-12	-12	-8	-5	-7	-12	-17	-24
	-9	-9	-7	-8	-8	-11	-16	-21
24 - 36°	-8	-9	-8	-8	-8	-11	-14	-19
	-6	-8	-7	-8	-9	-12	-16	-20

Outlet Levels

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

End Reflection (dB)

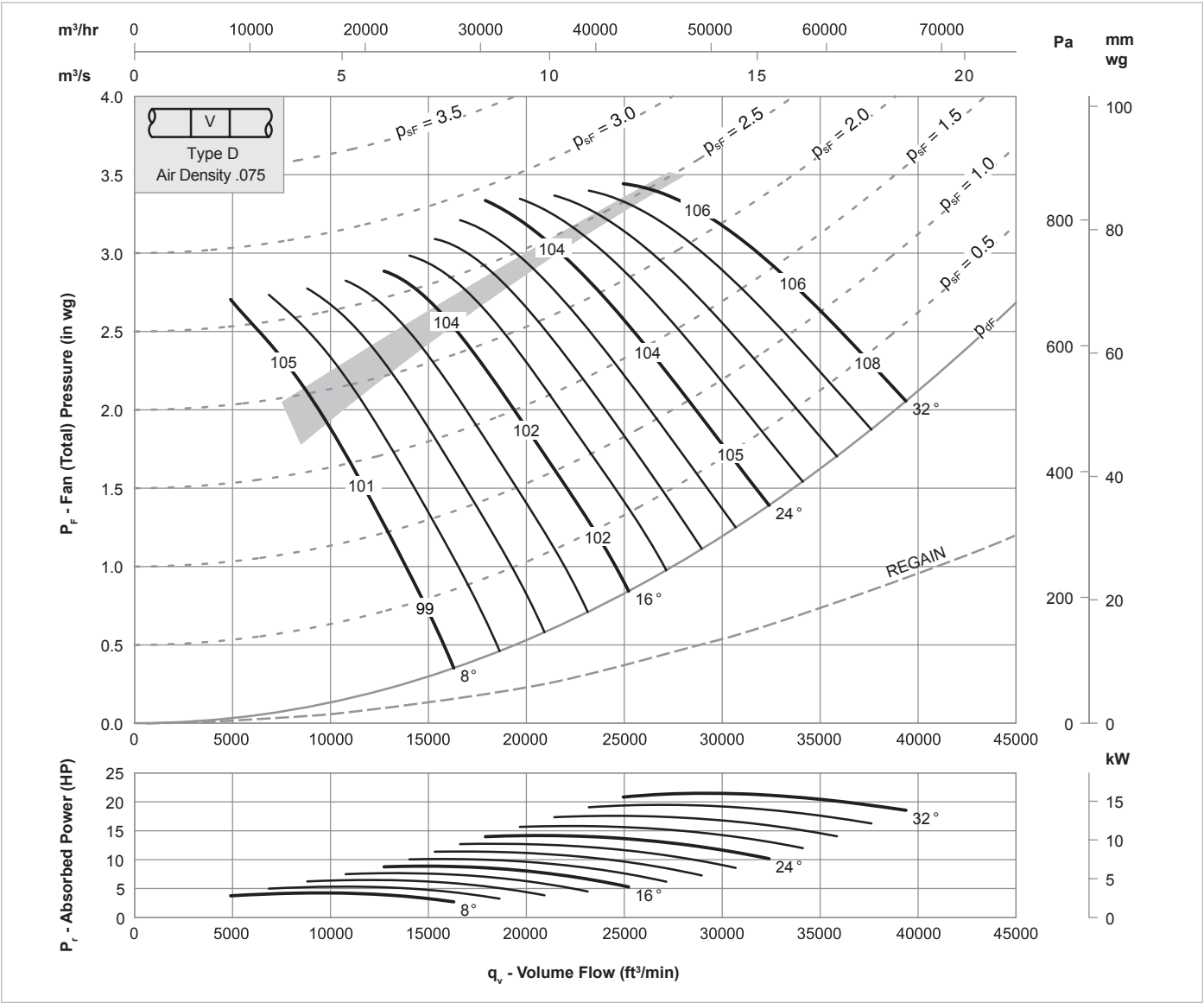
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 36 / 25 / 1770 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-13	-6	-4	-9	-16	-22
	-10	-12	-12	-11	-7	-7	-11	-17
16°	-10	-12	-11	-8	-4	-9	-15	-21
	-7	-8	-8	-10	-10	-11	-14	-19
24 - 32°	-7	-8	-9	-8	-8	-10	-14	-18
	-6	-7	-9	-9	-10	-12	-15	-18

Outlet Levels

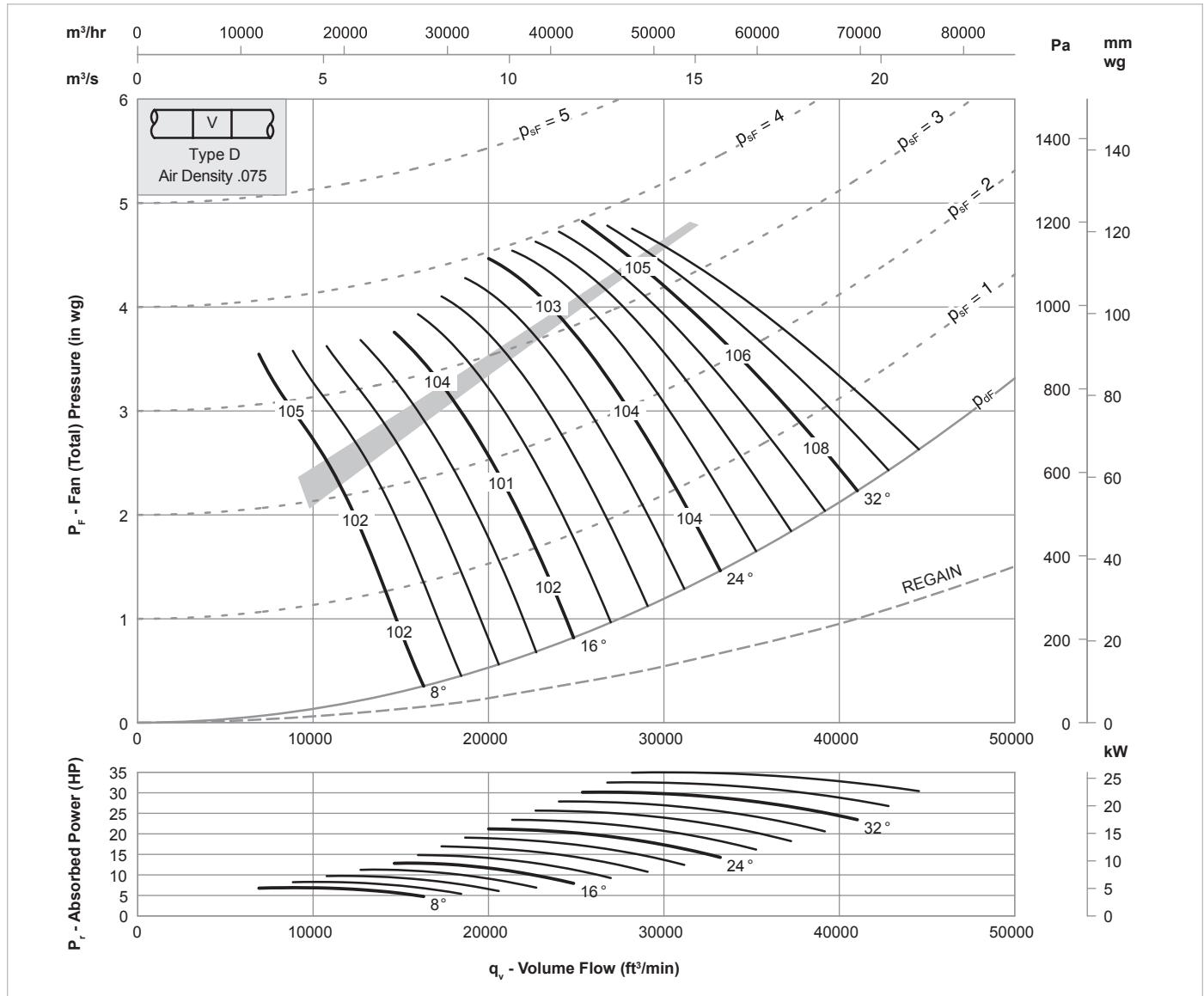
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-14	-12	-6	-4	-9	-15	-19
	-9	-10	-12	-10	-6	-5	-10	-15
16°	-9	-12	-11	-7	-4	-9	-14	-18
	-6	-7	-8	-9	-9	-10	-13	-16
24 - 32°	-5	-8	-9	-8	-8	-10	-14	-16
	-5	-6	-9	-9	-10	-11	-14	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 36 / 31 / 1770 / 9



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-15	-10	-9	-4	-6	-12	-19
	-13	-14	-9	-10	-7	-5	-8	-15
16°	-9	-13	-10	-7	-5	-8	-13	-18
	-8	-10	-8	-8	-7	-9	-12	-16
24 - 36°	-5	-10	-9	-9	-8	-10	-12	-15
	-5	-8	-7	-9	-9	-11	-13	-16

End Reflection (dB)

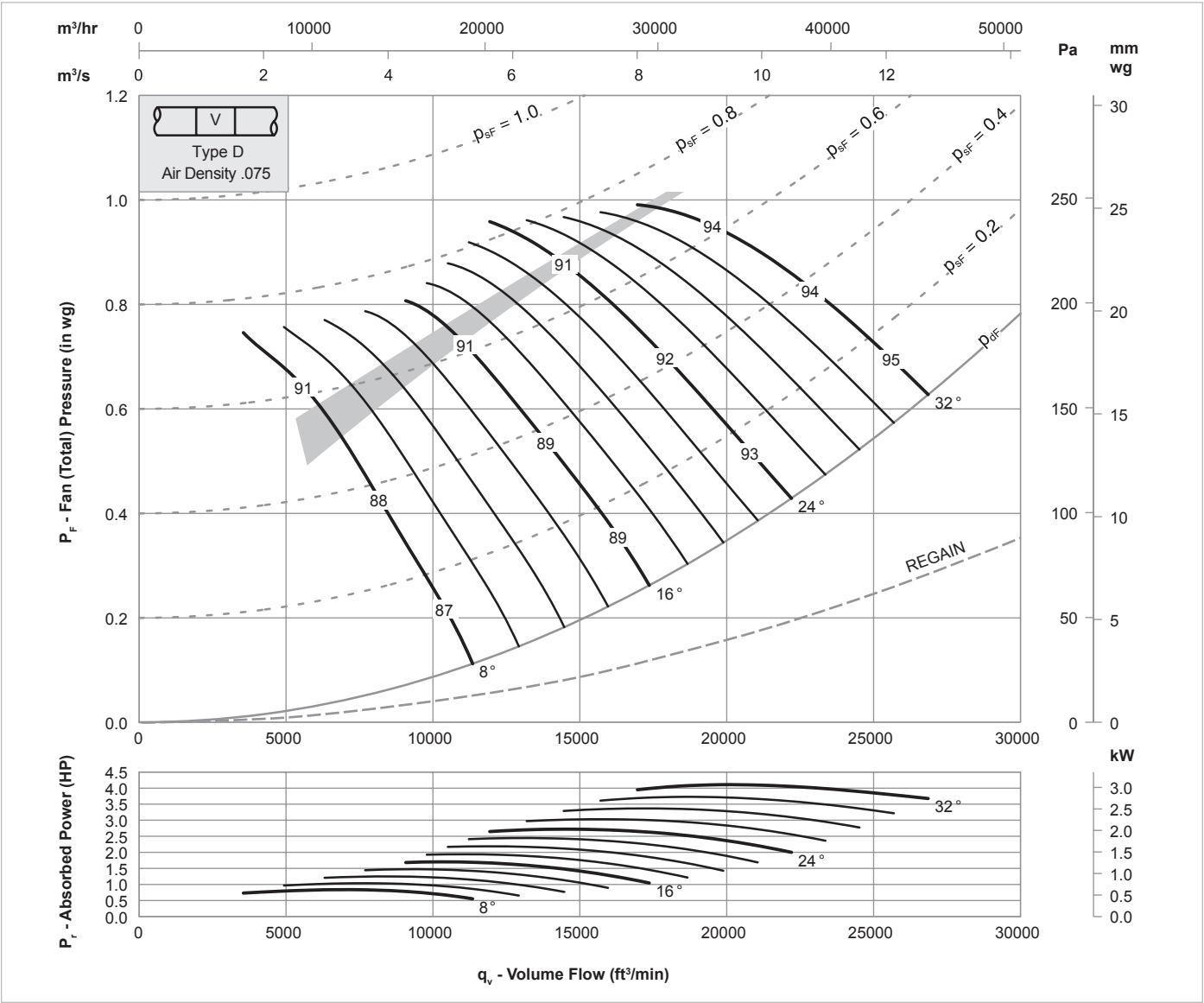
63	125	250	500	1k	2k	4k	8k
-6	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 25 / 875 / 6



Inlet Levels

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

Outlet Levels

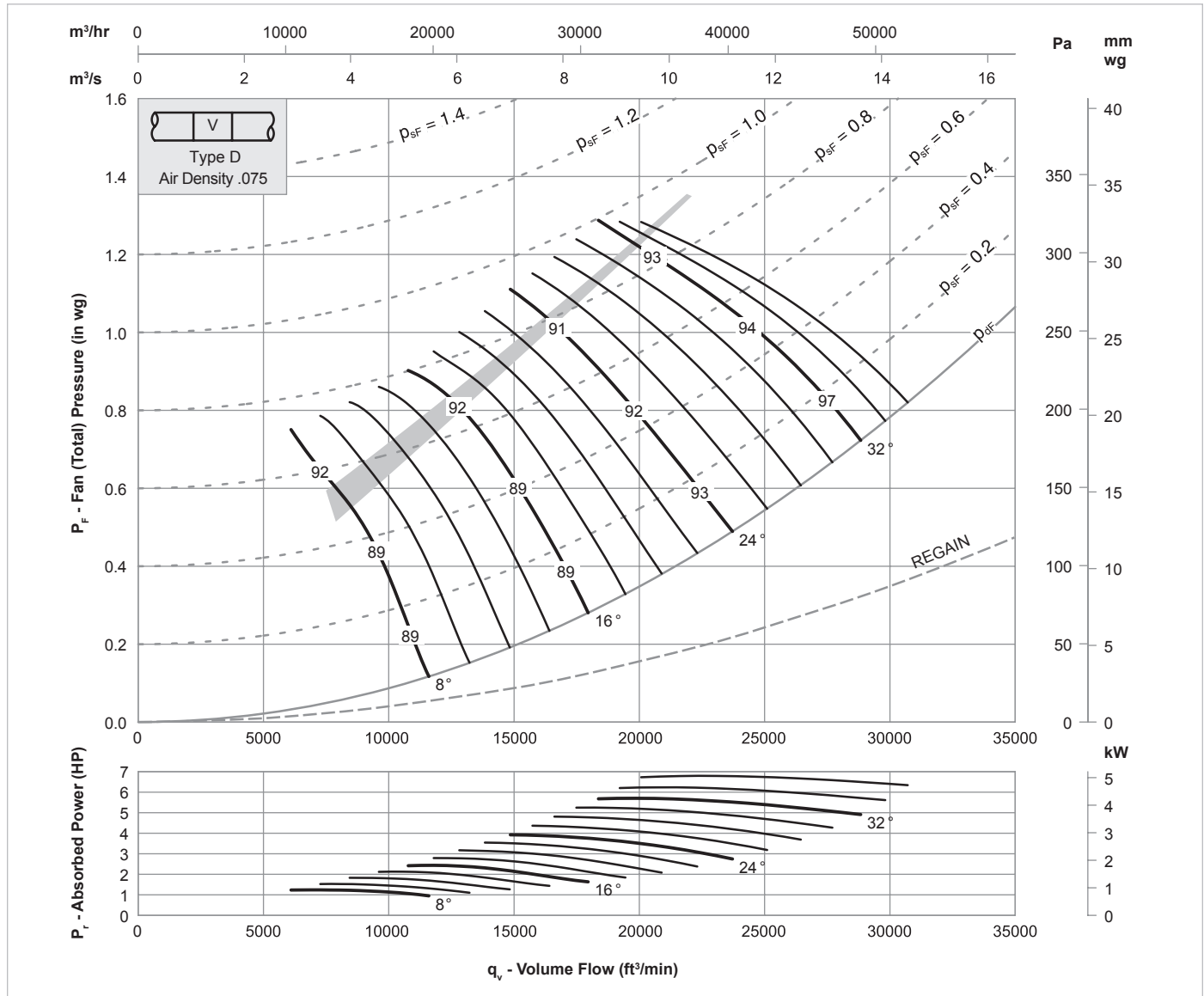
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-6	-4	-7	-13	-19	-25
	-9	-10	-11	-7	-5	-7	-14	-20
16°	-13	-13	-7	-3	-7	-14	-18	-25
	-6	-9	-8	-6	-8	-11	-15	-22
24 - 32°	-6	-8	-7	-7	-9	-13	-16	-21
	-4	-8	-8	-9	-9	-13	-15	-20

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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VXDA 40 / 25 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-9	-4	-5	-11	-18	-26
	-17	-10	-10	-6	-4	-8	-14	-20
16°	-16	-12	-7	-4	-6	-11	-18	-26
	-10	-8	-8	-6	-7	-11	-16	-22
24 - 36°	-8	-8	-8	-7	-7	-11	-15	-21
	-6	-7	-8	-9	-9	-12	-16	-22

Outlet Levels

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

End Reflection (dB)

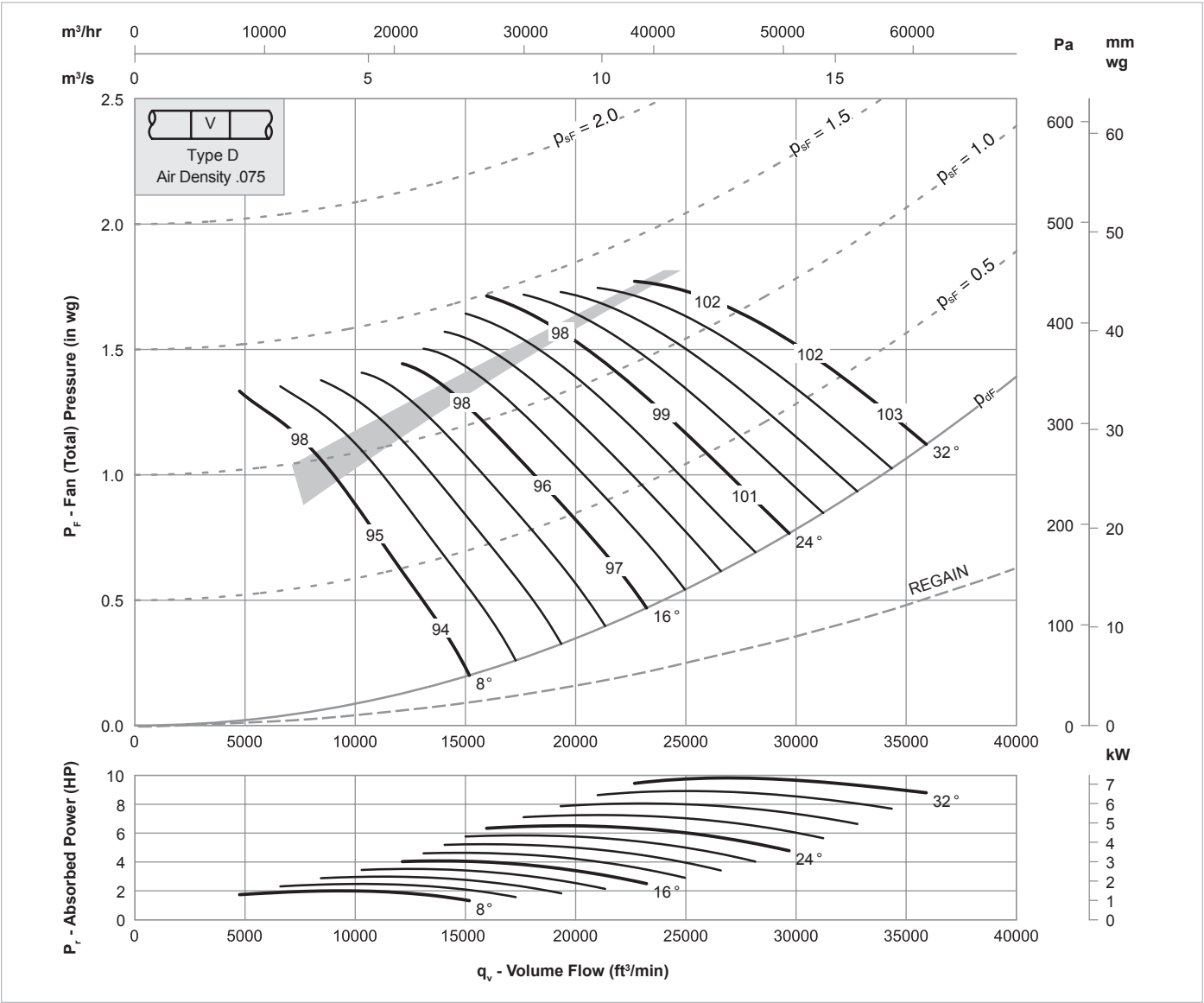
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 25 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-16	-8	-5	-5	-12	-17	-24
	-7	-13	-10	-12	-6	-8	-13	-20
16°	-11	-16	-10	-5	-5	-11	-18	-23
	-5	-11	-10	-9	-8	-11	-16	-21
24 - 32°	-6	-9	-8	-7	-8	-11	-16	-20
	-4	-8	-9	-10	-10	-12	-16	-20

Outlet Levels

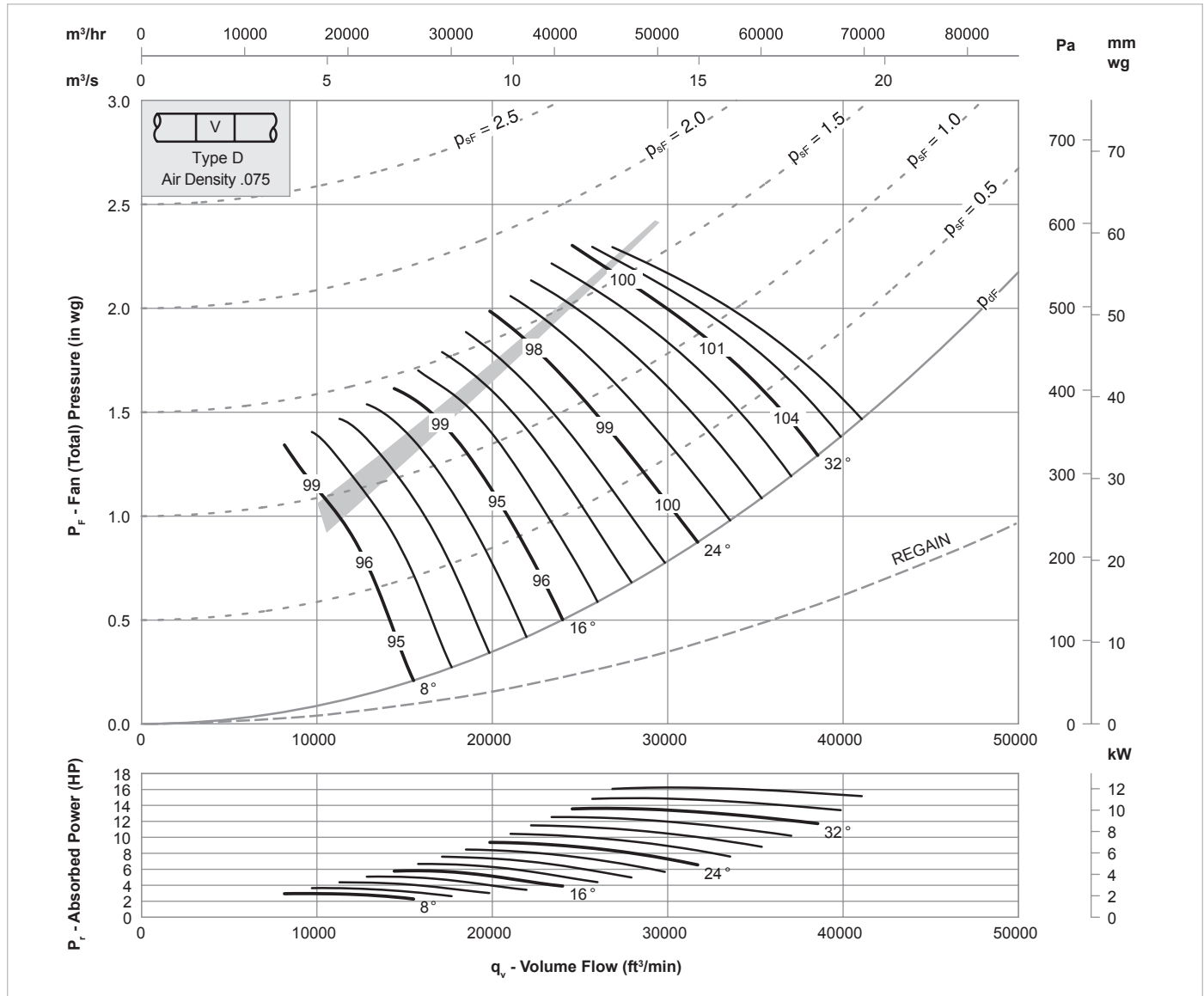
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-14	-8	-5	-5	-11	-16	-21
	-6	-12	-10	-12	-5	-6	-12	-18
16°	-9	-16	-10	-5	-5	-11	-17	-22
	-4	-10	-9	-9	-8	-10	-15	-20
24 - 32°	-5	-9	-7	-7	-8	-11	-15	-19
	-3	-8	-9	-10	-10	-12	-15	-19

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 25 / 1170 / 9



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

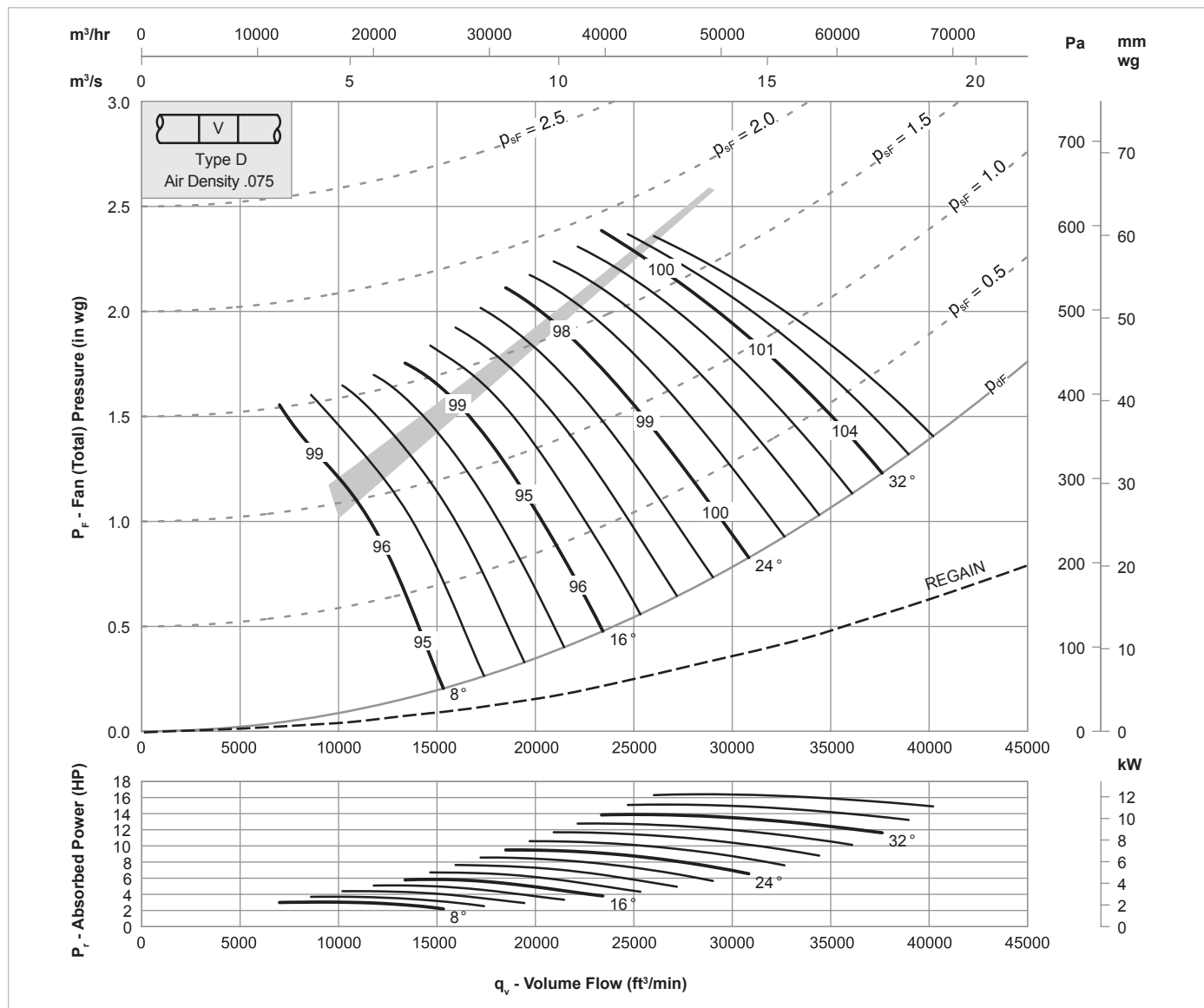
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 31 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-12	-5	-4	-8	-15	-22
	-17	-11	-11	-8	-4	-6	-12	-17
16°	-15	-13	-11	-4	-5	-9	-15	-22
	-9	-8	-9	-7	-6	-9	-14	-19
$24 - 36^\circ$	-8	-9	-9	-8	-8	-10	-14	-17
	-6	-7	-8	-9	-9	-11	-15	-19

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-13	-12	-5	-4	-8	-14	-20
	-17	-10	-11	-8	-4	-5	-11	-16
16°	-13	-13	-11	-4	-5	-9	-14	-20
	-9	-8	-9	-7	-6	-9	-13	-18
$24 - 36^\circ$	-6	-8	-8	-8	-8	-10	-13	-16
	-5	-7	-8	-9	-9	-11	-14	-17

End Reflection (dB)

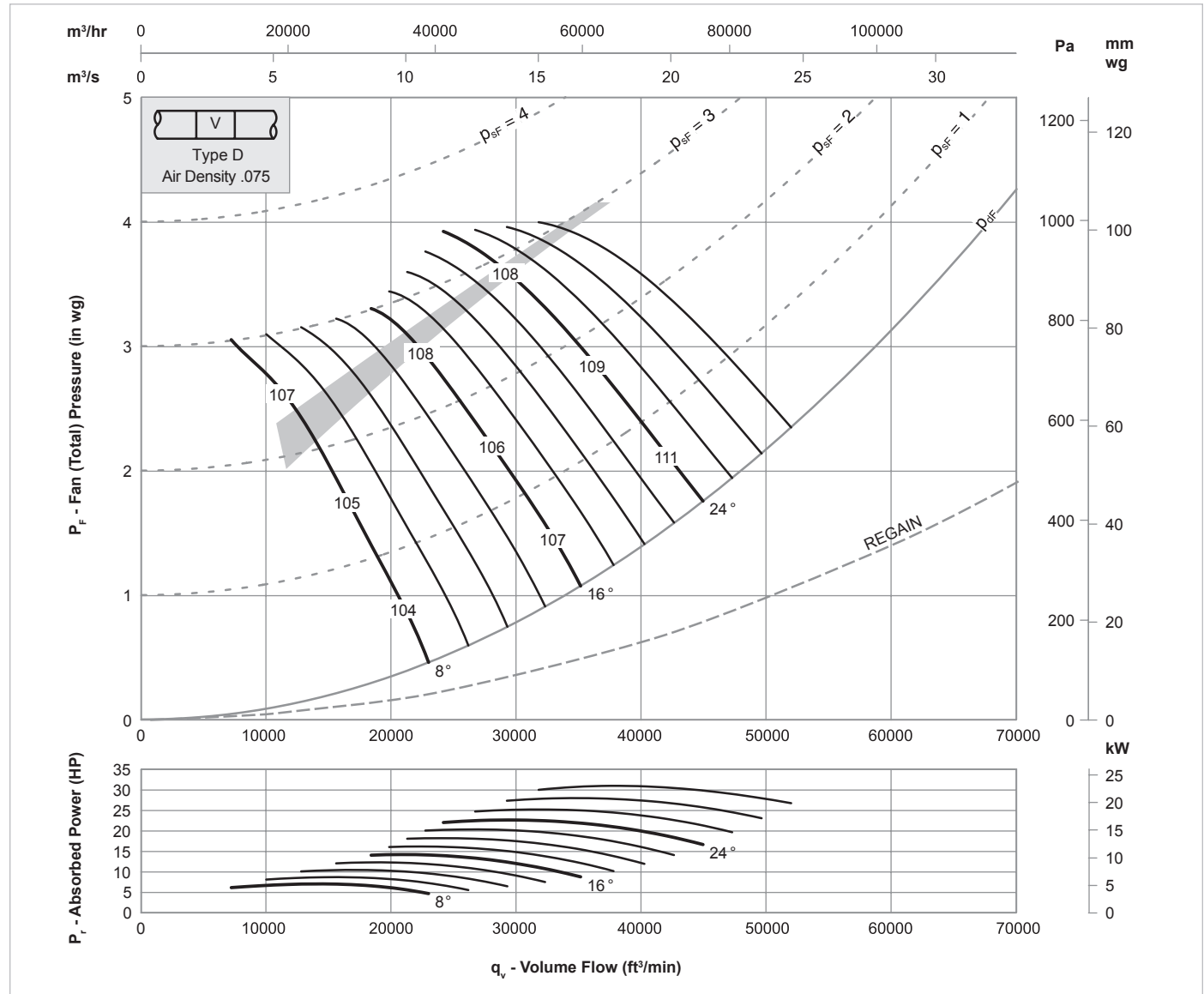
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 25 / 1770 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-17	-13	-6	-4	-8	-14	-20
	-6	-12	-12	-13	-9	-7	-10	-16
16°	-9	-15	-14	-7	-4	-8	-14	-20
	-4	-9	-11	-11	-9	-10	-14	-18
24 - 30°	-7	-9	-9	-7	-8	-9	-13	-18
	-5	-7	-10	-10	-11	-11	-15	-18

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-15	-13	-6	-4	-7	-13	-17
	-6	-11	-12	-12	-9	-5	-9	-14
16°	-8	-15	-14	-7	-4	-8	-13	-18
	-4	-9	-11	-10	-9	-9	-13	-17
24 - 30°	-6	-8	-9	-7	-8	-9	-13	-16
	-4	-6	-9	-10	-11	-11	-13	-16

End Reflection (dB)

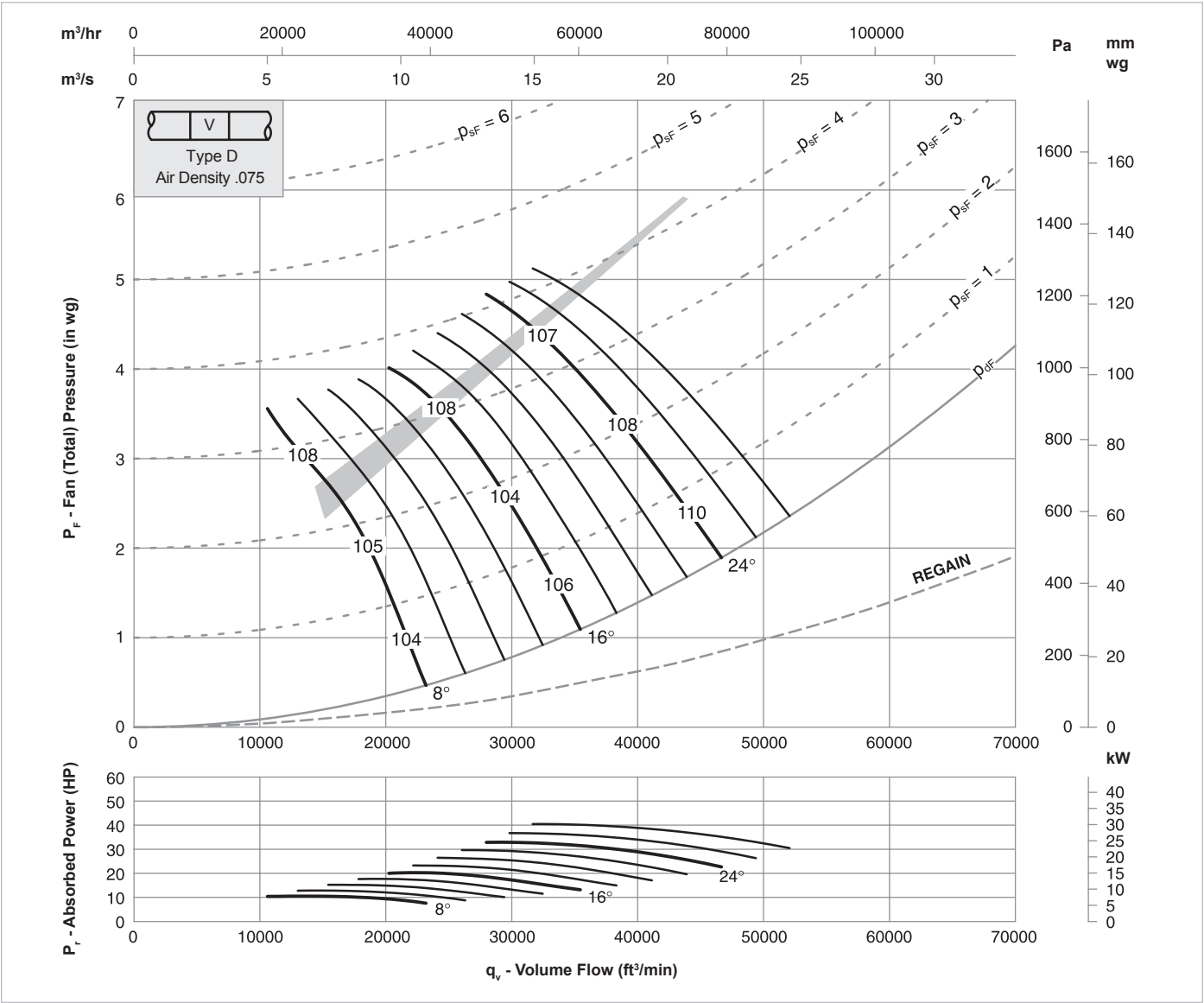
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 31 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-21	-21	-15	-10	-4	-5	-11	-18
	-17	-18	-11	-10	-7	-4	-8	-14
16°	-15	-16	-12	-8	-4	-6	-11	-18
	-10	-11	-8	-8	-7	-8	-12	-16
24 - 28°	-8	-9	-9	-8	-8	-8	-12	-16
	-7	-7	-8	-9	-10	-10	-13	-17

Outlet Levels

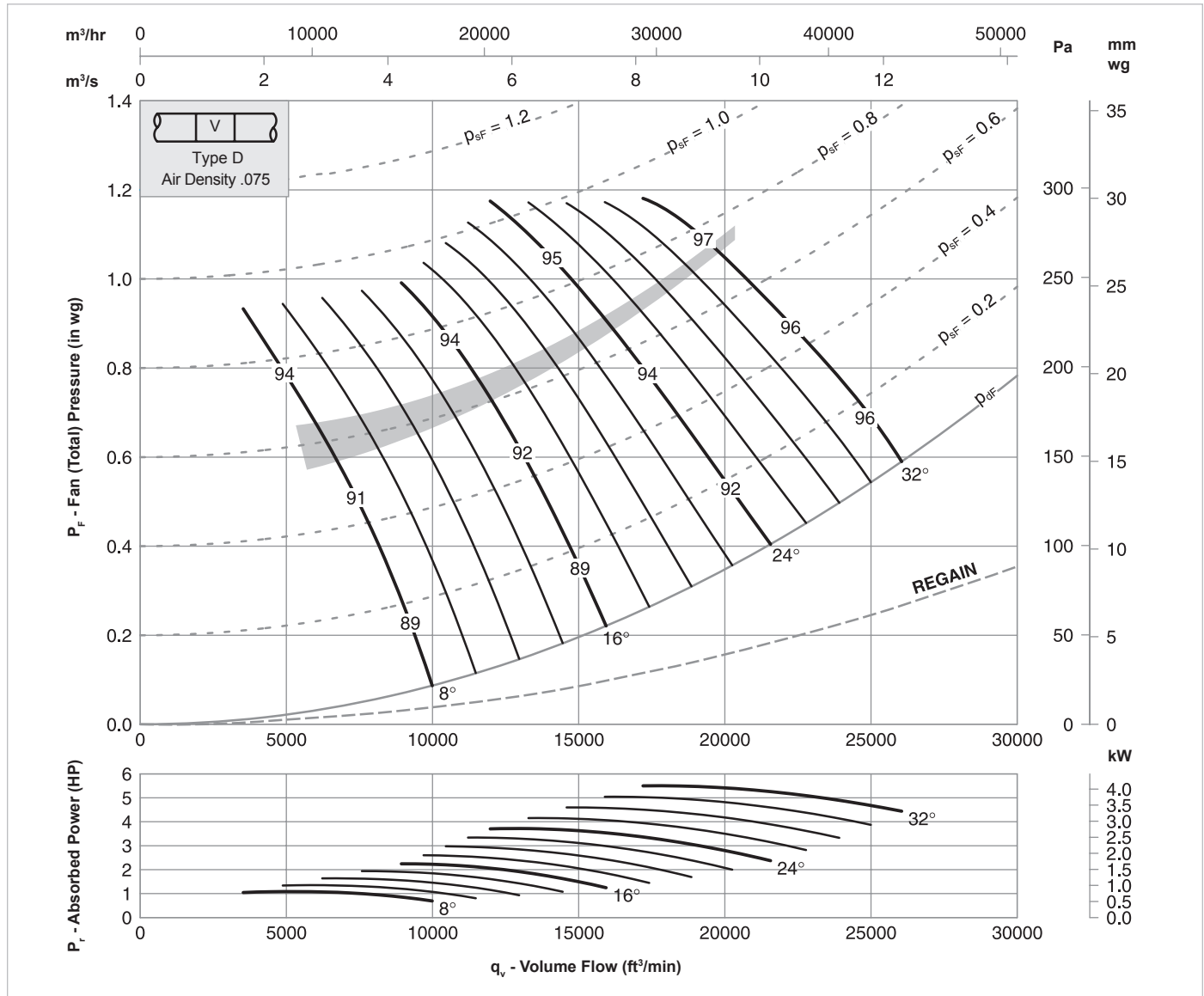
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-20	-13	-9	-4	-5	-10	-16
	-17	-18	-9	-10	-7	-3	-8	-13
16°	-14	-16	-12	-8	-4	-6	-10	-16
	-9	-11	-8	-8	-6	-7	-11	-15
24 - 28°	-7	-9	-9	-8	-8	-8	-11	-14
	-6	-7	-7	-9	-10	-10	-12	-15

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 40 / 875 / 6



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-4	-11	-5	-5	-10	-18	-24	-31
	0	-9	-9	-9	-11	-14	-20	-27
16°	0	-9	-8	-10	-13	-17	-21	-28
	0	-8	-9	-12	-13	-16	-22	-29
24 - 32°	0	-9	-9	-12	-12	-14	-18	-23
	-1	-7	-8	-11	-12	-16	-21	-23

End Reflection (dB)

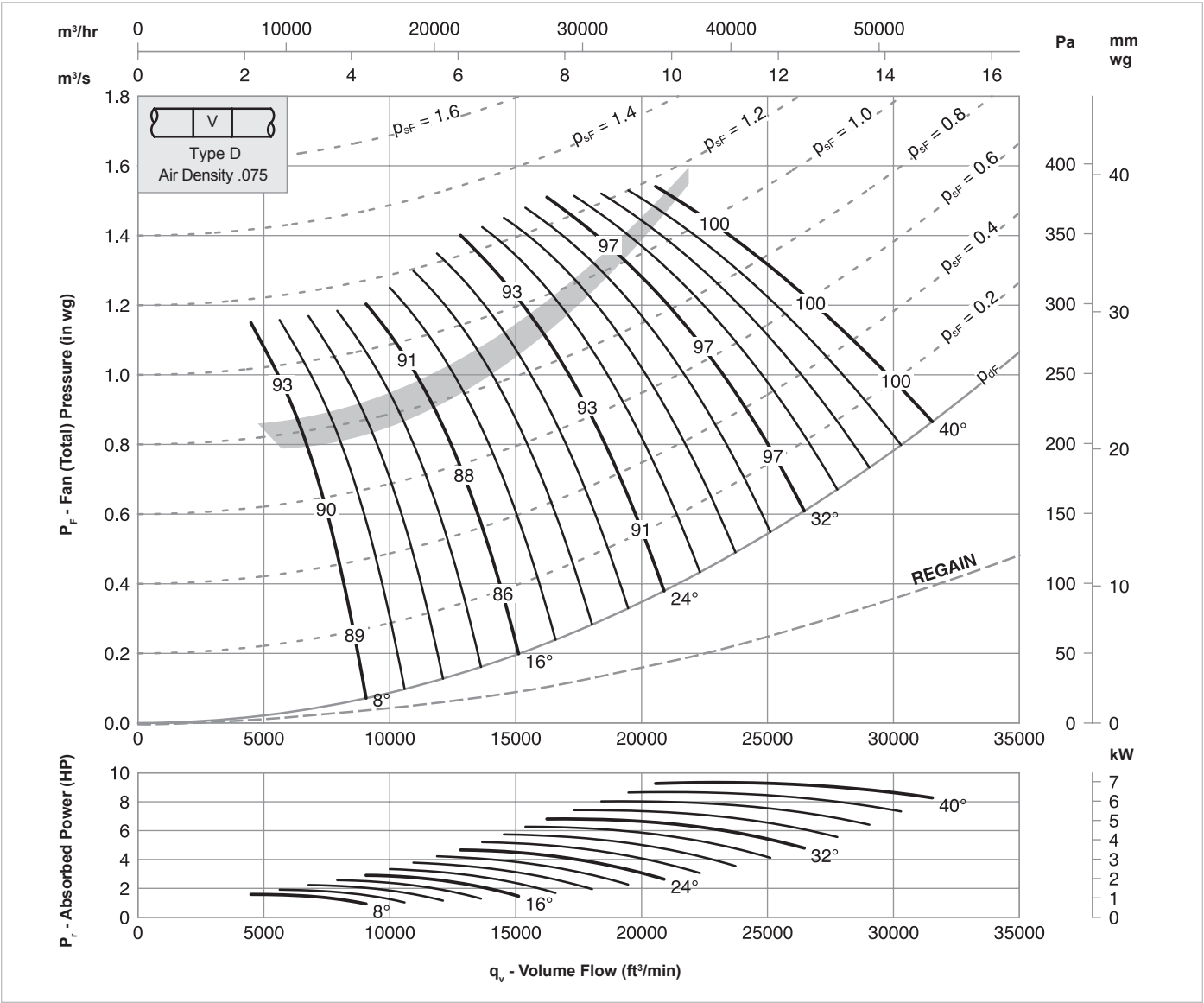
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 40 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-4	-7	-11	-18	-24	-32
	-11	-6	-7	-7	-7	-12	-19	-28
16°	-9	-9	-5	-6	-9	-13	-20	-28
	-8	-6	-7	-10	-9	-13	-18	-25
24 - 40°	-5	-8	-5	-13	-13	-15	-17	-23
	-6	-6	-5	-13	-15	-16	-19	-26

Outlet Levels

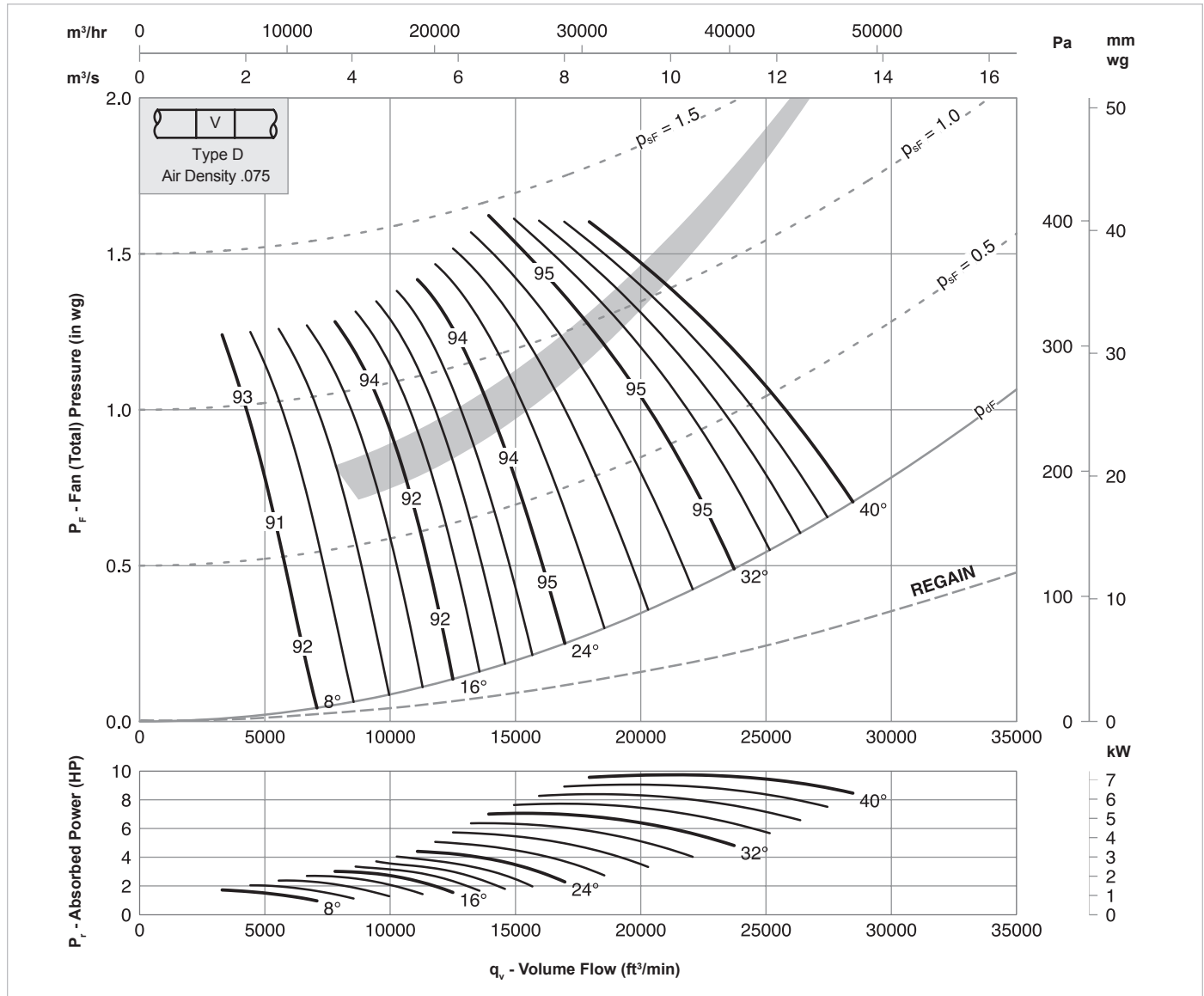
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-4	-4	-6	-11	-17	-23	-30
	-7	-3	-7	-7	-8	-12	-18	-27
16°	-4	-7	-4	-6	-11	-14	-19	-27
	-2	-3	-6	-9	-10	-11	-17	-24
24 - 40°	-2	-5	-3	-12	-13	-15	-16	-22
	-2	-3	-3	-12	-14	-16	-18	-25

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 50 / 875 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-6	-8	-4	-8	-15	-20	-28
	-17	-6	-8	-5	-8	-13	-18	-25
16°	-14	-6	-8	-6	-8	-14	-20	-27
	-12	-4	-9	-8	-9	-13	-17	-25
24 - 40°	-8	-5	-8	-8	-10	-14	-17	-21
	-8	-4	-8	-8	-10	-14	-17	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-4	-7	-6	-8	-12	-17	-25
	-14	-3	-7	-7	-8	-11	-15	-23
16°	-11	-3	-7	-6	-8	-12	-17	-24
	-9	0	-8	-7	-9	-11	-14	-22
24 - 40°	-6	-3	-7	-8	-10	-11	-14	-19
	-6	-2	-7	-8	-10	-12	-14	-20

End Reflection (dB)

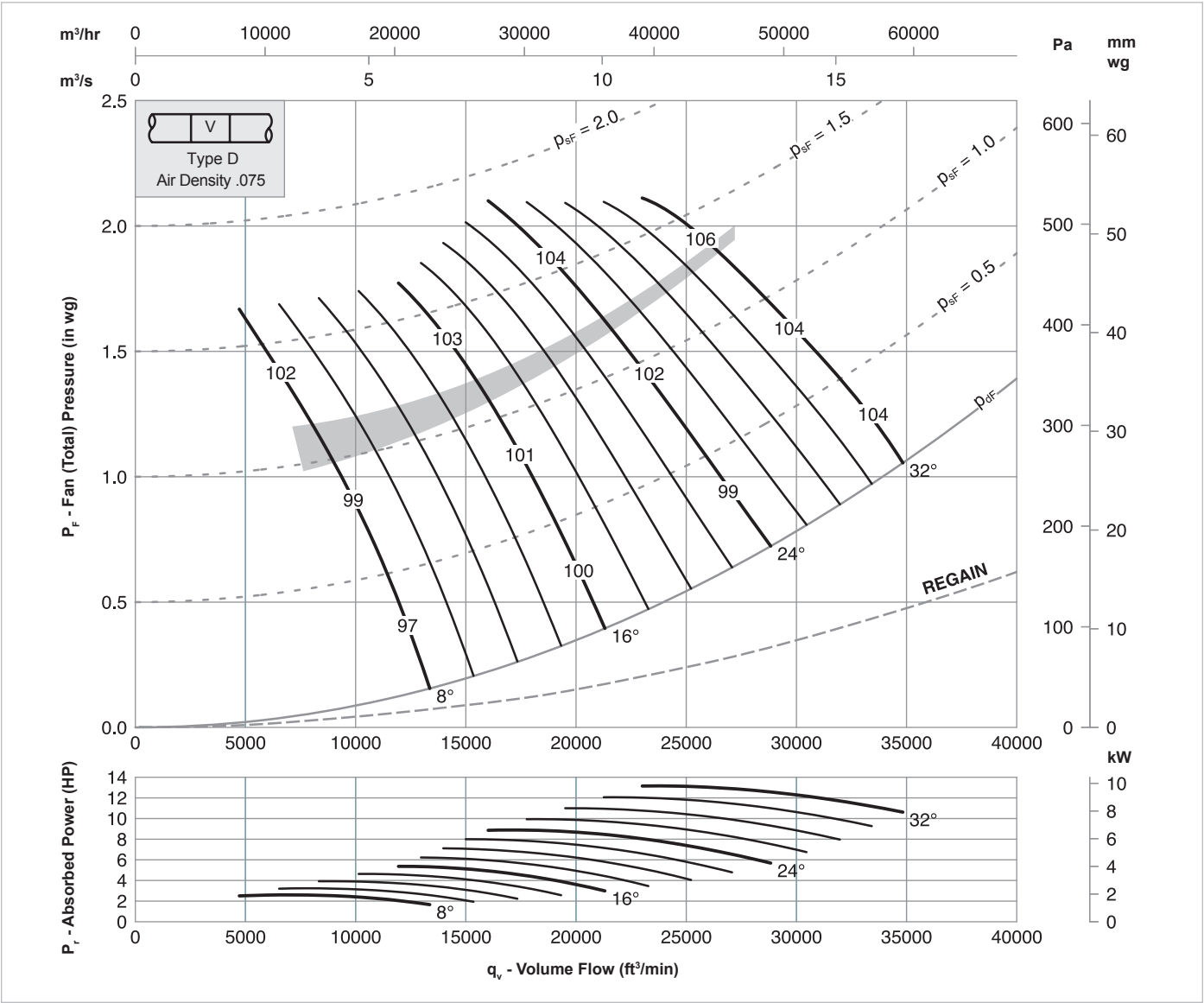
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 40 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-8	-7	-6	-8	-15	-21	-30
	-6	-4	-9	-11	-10	-13	-18	-26
16°	-3	-7	-9	-10	-13	-17	-20	-28
	-3	-6	-8	-12	-14	-16	-20	-28
24 - 32°	-3	-7	-9	-13	-13	-15	-19	-24
	-4	-7	-7	-11	-12	-15	-21	-24

Outlet Levels

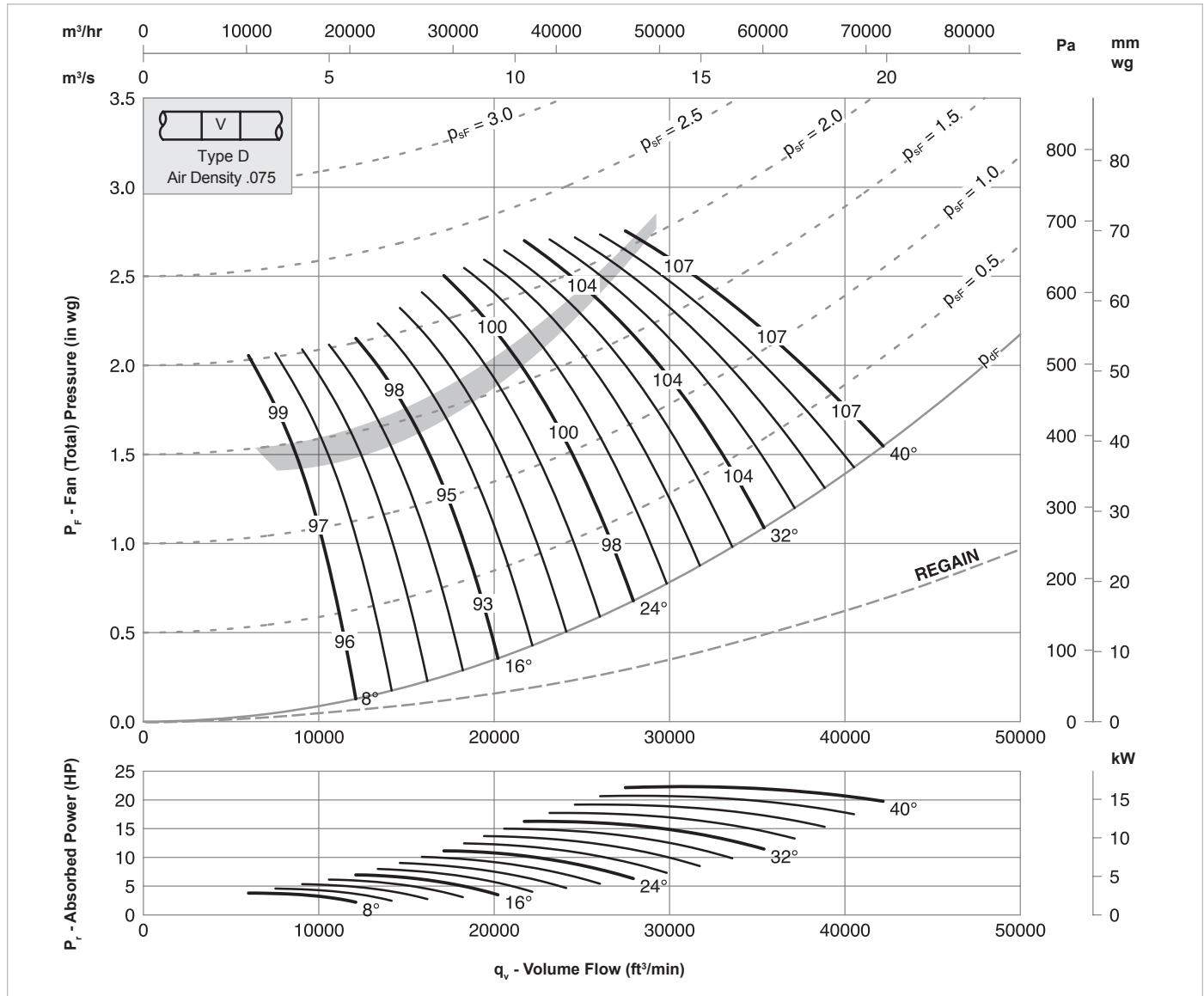
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-6	-6	-7	-6	-7	-15	-22	-29
	-5	-1	-9	-11	-10	-13	-18	-25
16°	-1	-5	-8	-10	-13	-16	-20	-27
	-1	-4	-8	-12	-13	-16	-21	-27
24 - 32°	-1	-6	-8	-13	-13	-14	-19	-23
	-1	-6	-7	-11	-12	-15	-21	-23

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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VXDA 40 / 40 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-9	-5	-5	-9	-16	-20	-29
	-11	-7	-8	-8	-6	-10	-15	-26
16°	-8	-11	-7	-5	-9	-12	-17	-25
	-7	-5	-7	-8	-10	-10	-14	-24
24 - 40°	-5	-8	-7	-7	-14	-15	-16	-21
	-6	-6	-7	-7	-14	-17	-17	-25

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-7	-6	-5	-5	-9	-16	-19	-28
	-7	-4	-7	-7	-7	-10	-14	-24
16°	-4	-8	-6	-5	-10	-12	-16	-25
	-3	-4	-6	-7	-11	-11	-13	-22
24 - 40°	-2	-5	-6	-6	-13	-15	-15	-20
	-2	-3	-5	-6	-14	-16	-17	-24

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

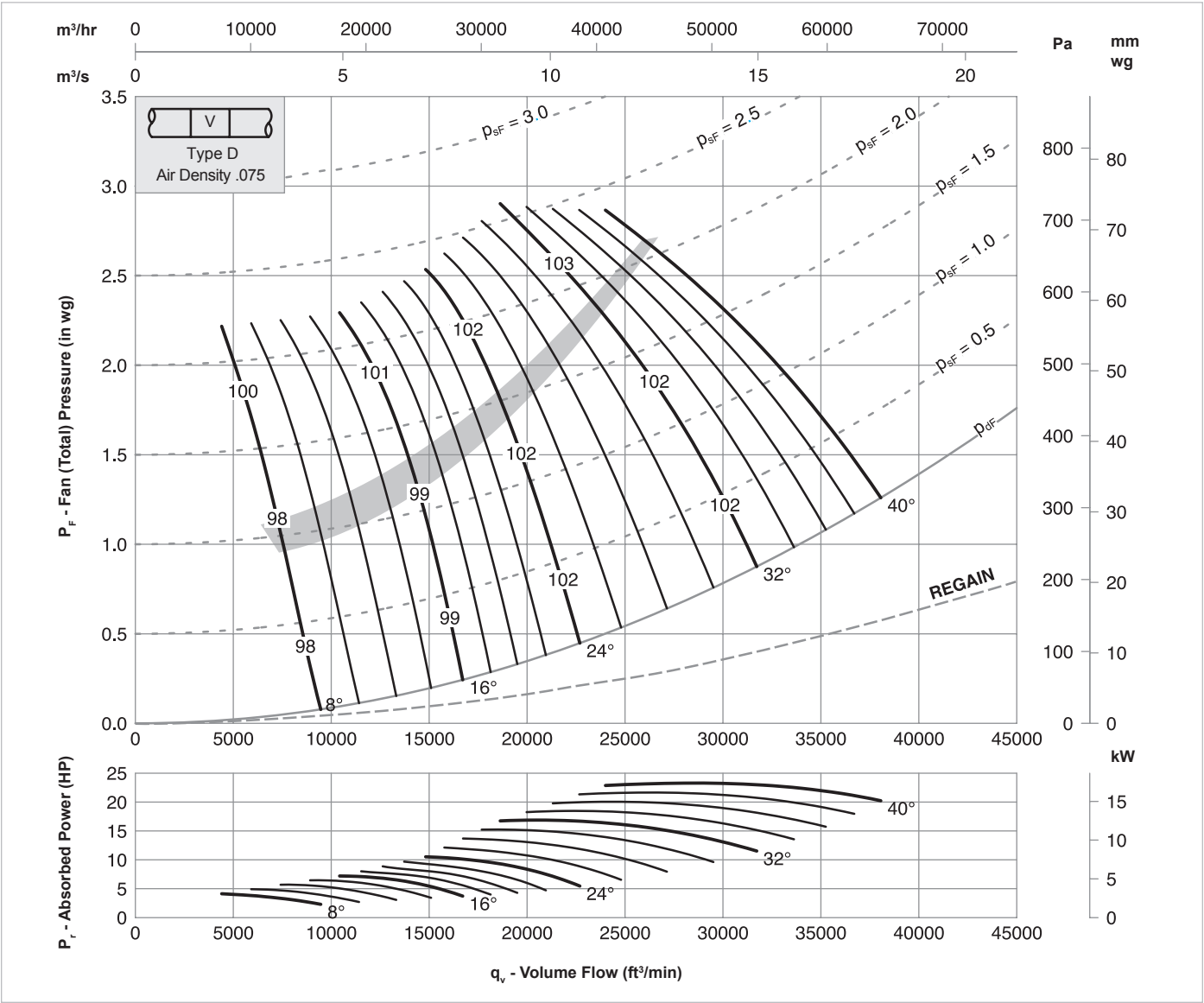
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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections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

VXDA 40 / 50 / 1170 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-5	-6	-6	-11	-17	-24
	-17	-14	-5	-6	-6	-11	-16	-21
16°	-12	-13	-5	-7	-7	-11	-17	-24
	-11	-13	-3	-9	-8	-12	-16	-21
24 - 40°	-8	-9	-5	-8	-9	-13	-15	-20
	-8	-9	-4	-9	-9	-13	-15	-20

Outlet Levels

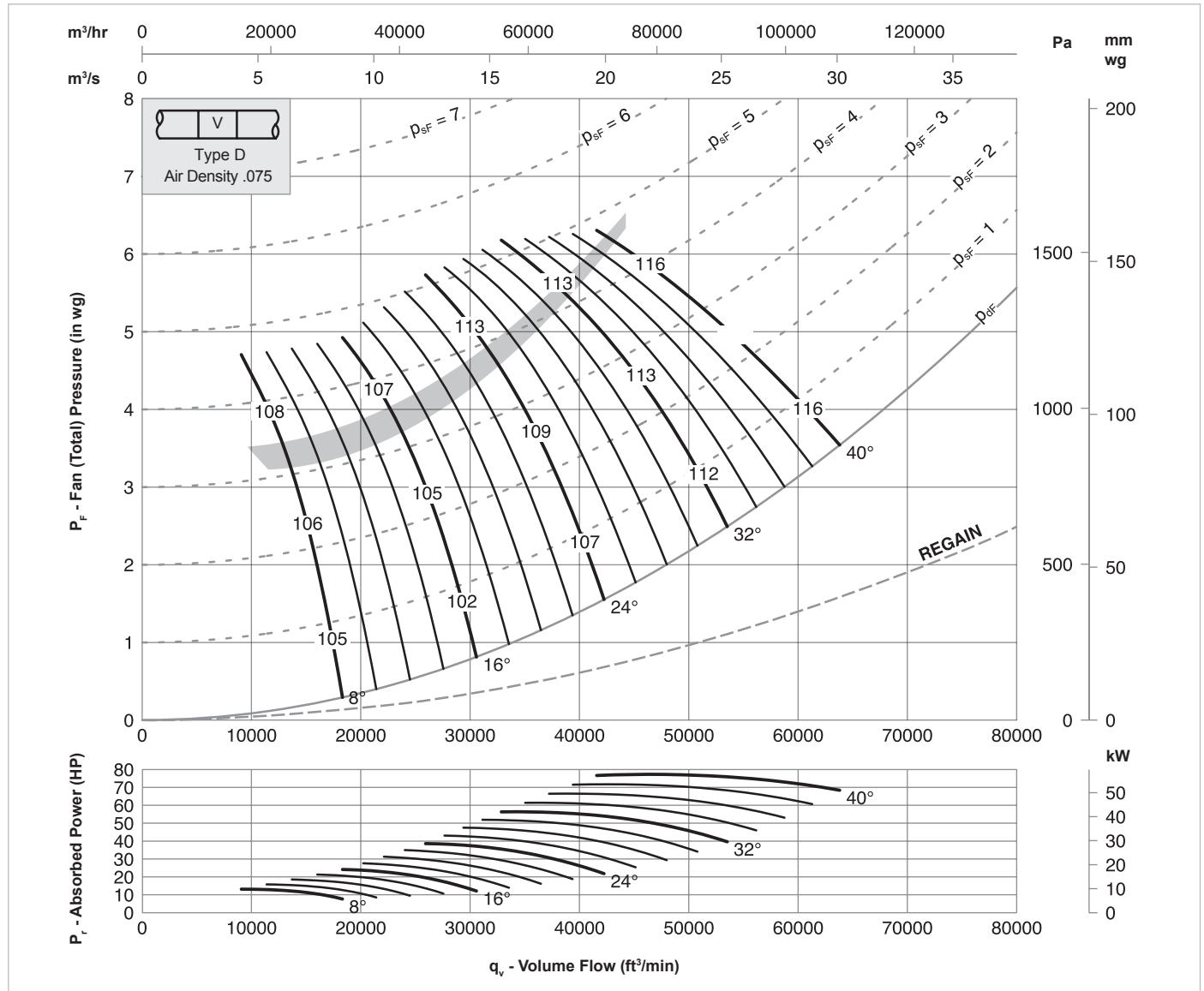
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-3	-7	-6	-9	-15	-21
	-13	-12	-3	-8	-6	-9	-13	-19
16°	-10	-11	-3	-7	-6	-10	-14	-21
	-9	-11	0	-8	-8	-10	-13	-19
24 - 40°	-5	-7	-4	-8	-9	-11	-13	-18
	-6	-7	-3	-9	-9	-11	-13	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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VXDA 40 / 40 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-8	-5	-7	-11	-18	-24
	-12	-11	-6	-7	-7	-7	-12	-19
16°	-10	-9	-9	-6	-7	-10	-14	-20
	-9	-8	-6	-7	-10	-10	-11	-18
24 - 40°	-6	-7	-9	-8	-14	-14	-16	-18
	-7	-7	-7	-6	-14	-16	-17	-20

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-9	-7	-6	-4	-8	-11	-17	-22
	-8	-8	-4	-7	-8	-7	-11	-18
16°	-6	-6	-8	-6	-8	-10	-13	-19
	-4	-5	-4	-7	-11	-10	-10	-17
24 - 40°	-3	-3	-7	-5	-13	-14	-16	-17
	-4	-3	-5	-5	-13	-15	-17	-19

End Reflection (dB)

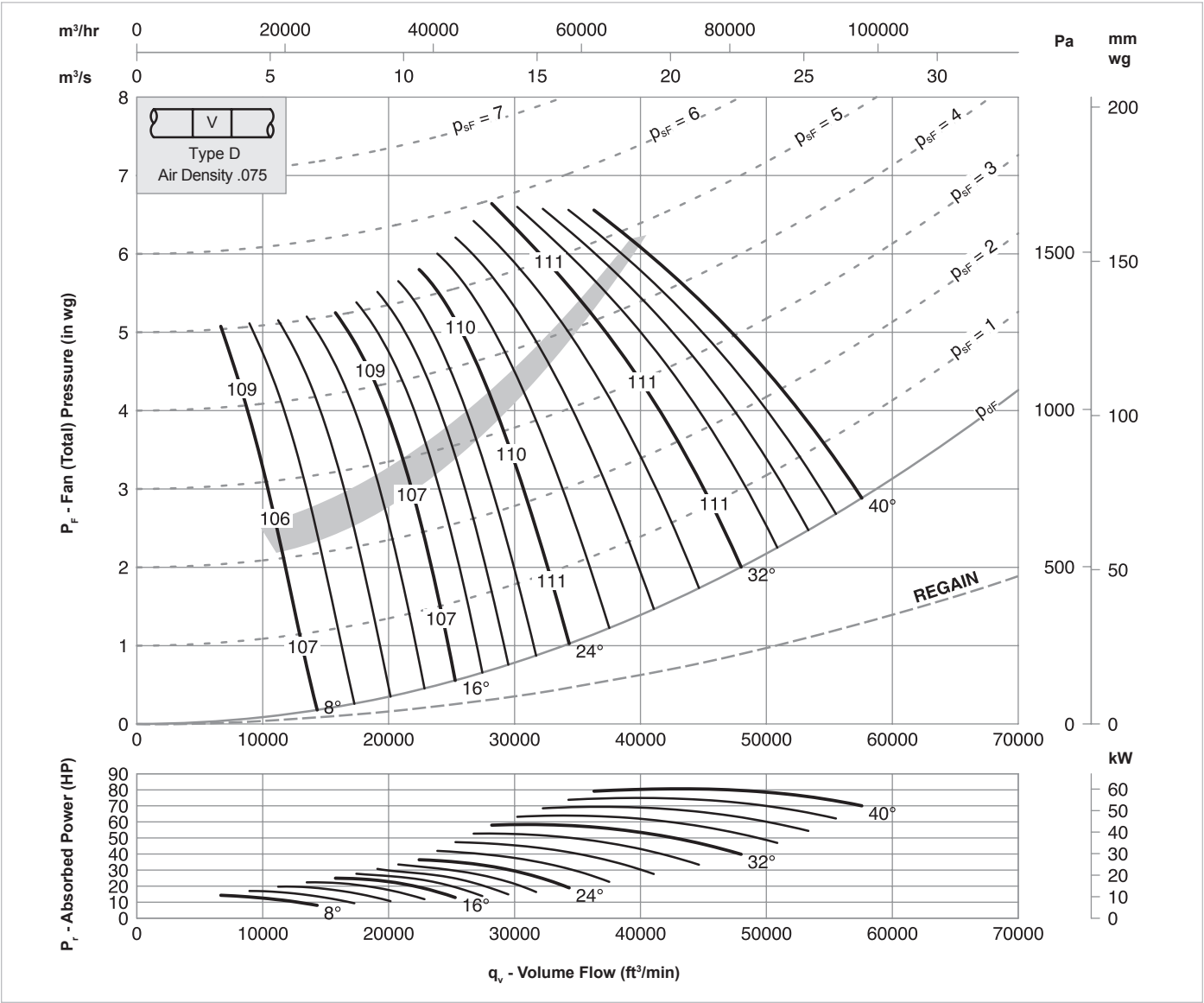
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 40 / 50 / 1770 / 12



Inlet Levels

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

Outlet Levels

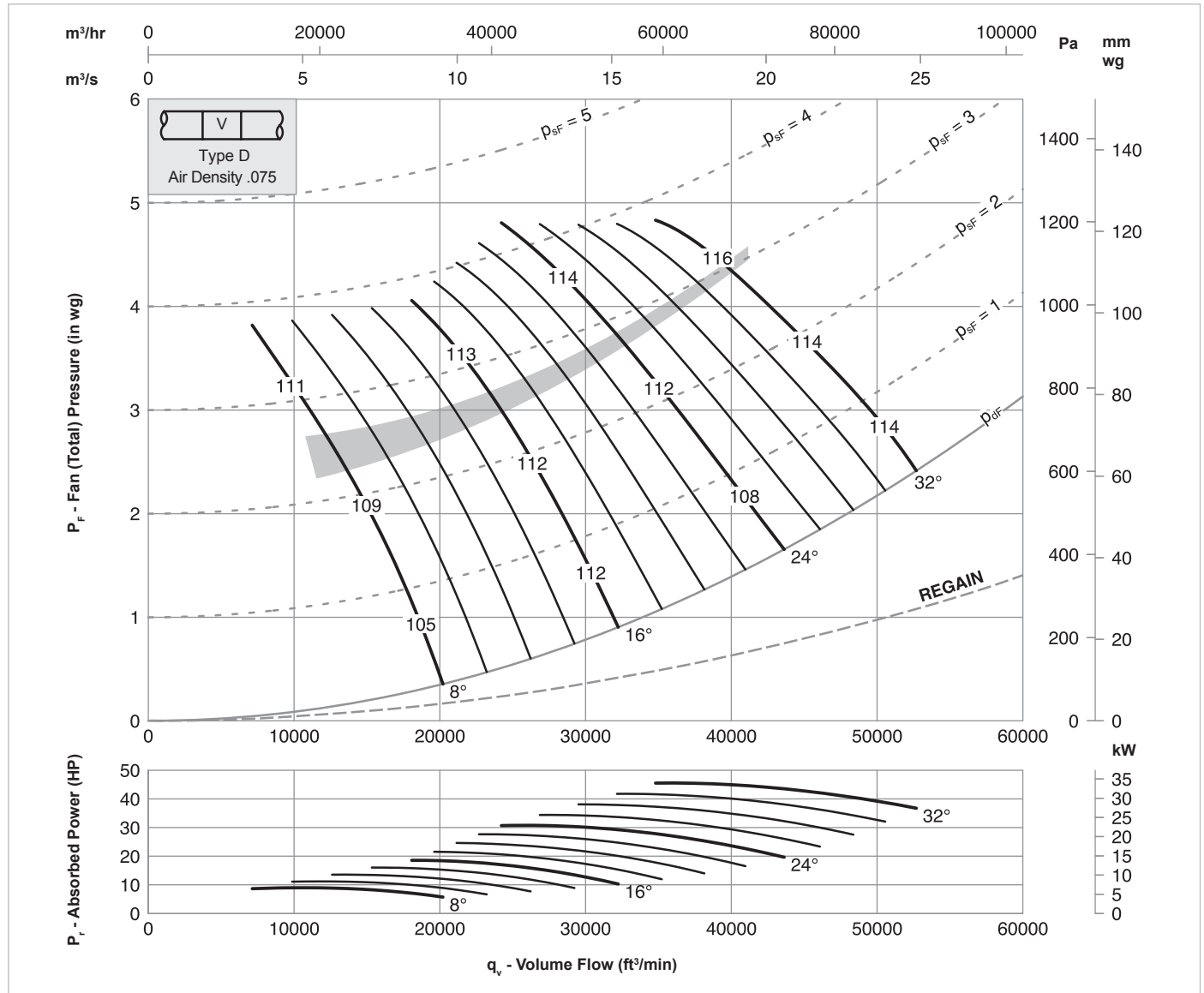
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-4	-8	-4	-6	-13	-18
	-14	-15	-3	-7	-6	-7	-12	-17
16°	-10	-13	-3	-7	-6	-7	-12	-18
	-9	-12	-1	-9	-8	-9	-11	-16
24 - 40°	-6	-7	-4	-8	-9	-9	-12	-16
	-6	-7	-3	-9	-9	-9	-12	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

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VXDA 40 / 40 / 1770 / 6



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

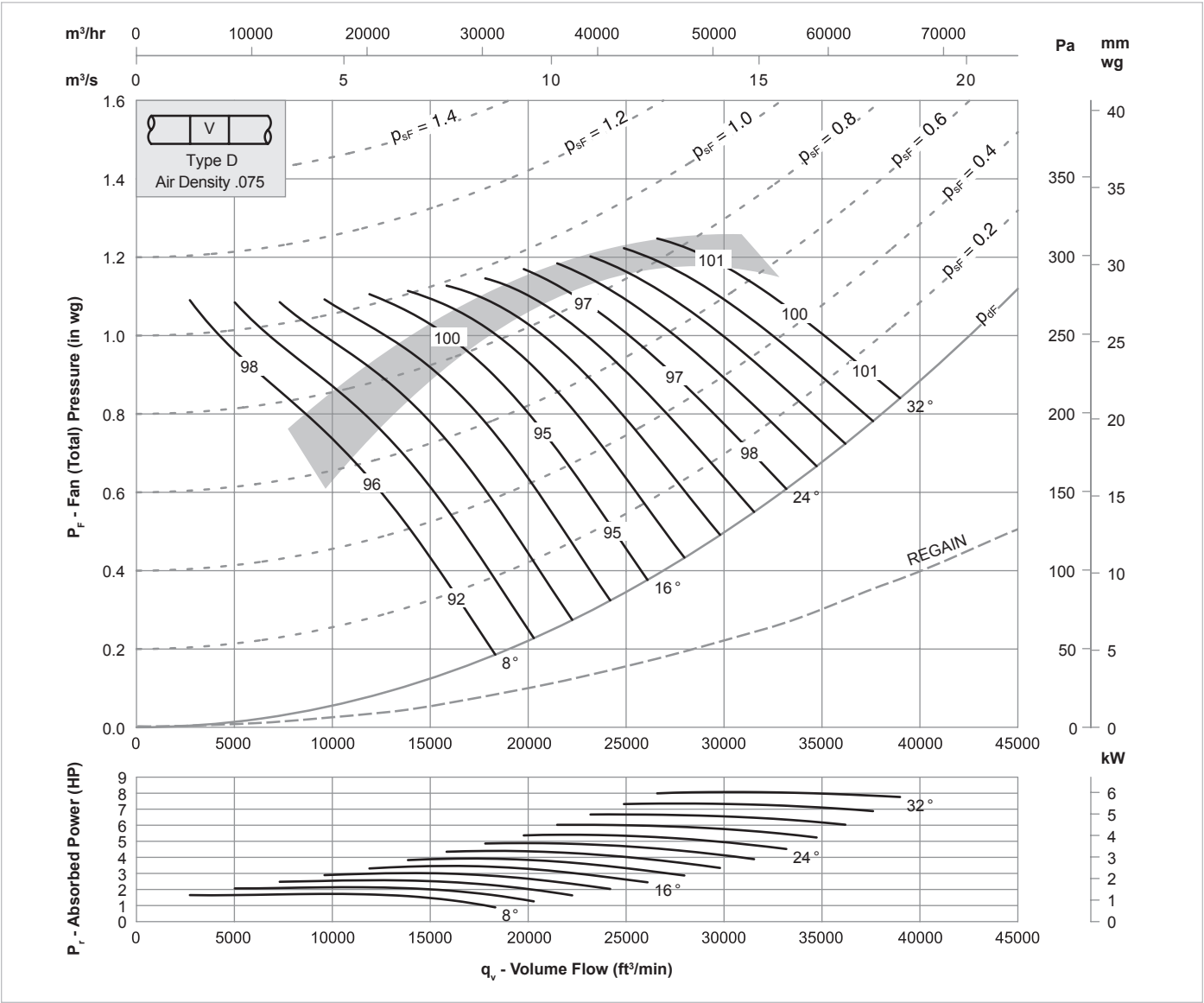
63	125	250	500	1k	2k	4k	8k
-5	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 31 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-6	-4	-7	-14	-19	-26
	-10	-11	-10	-6	-5	-9	-15	-21
16°	-14	-13	-7	-3	-7	-14	-19	-26
	-7	-9	-8	-6	-8	-11	-16	-21
24 - 32°	-7	-8	-7	-7	-9	-12	-16	-21
	-5	-8	-8	-9	-9	-13	-16	-20

Outlet Levels

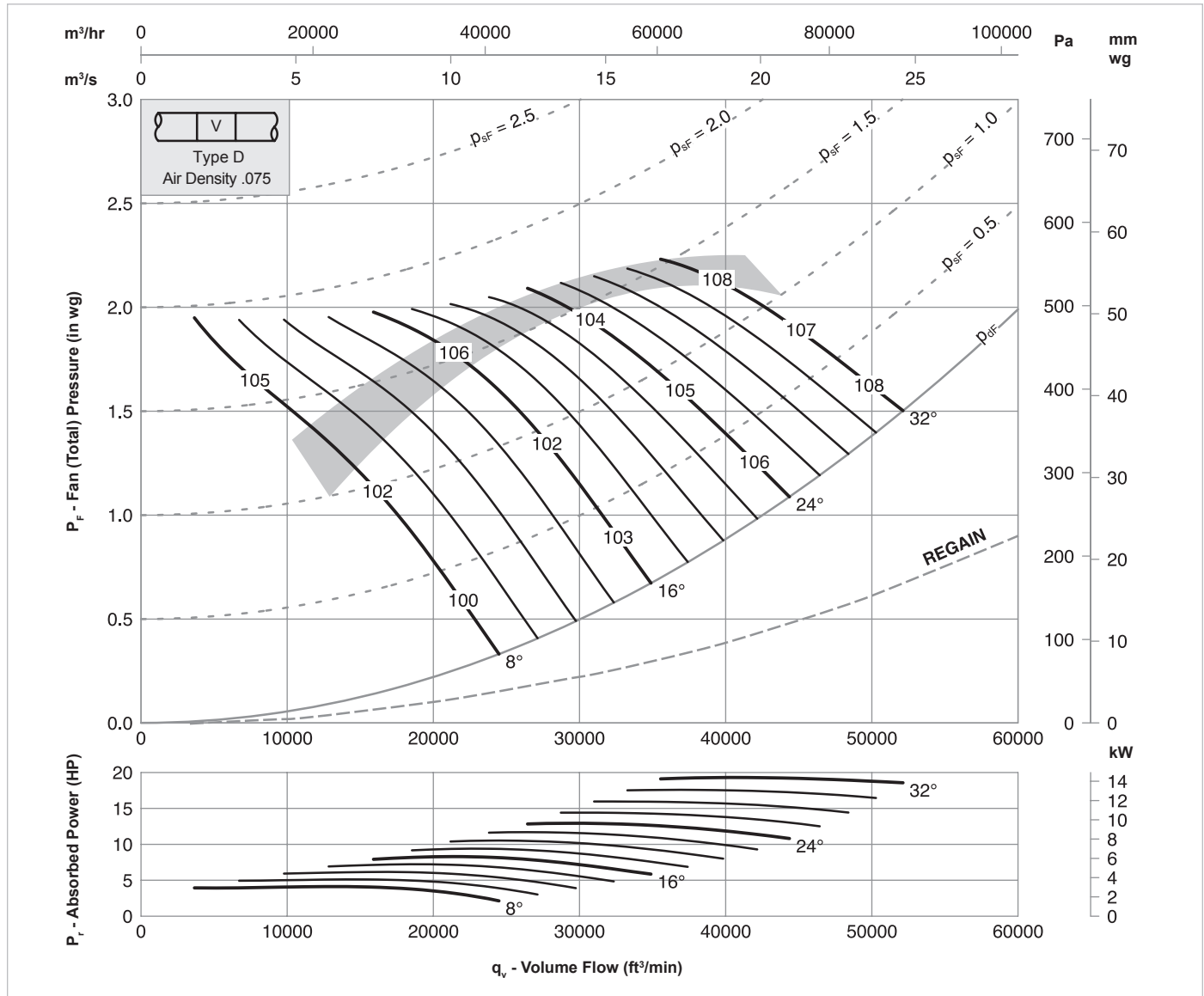
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-6	-5	-8	-13	-19	-24
	-10	-11	-10	-7	-6	-8	-15	-20
16°	-13	-13	-7	-4	-8	-14	-18	-25
	-6	-9	-8	-7	-8	-11	-15	-20
24 - 32°	-6	-8	-7	-8	-9	-12	-16	-19
	-4	-8	-8	-10	-10	-13	-15	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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VXDA 44 / 31 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-15	-8	-5	-5	-11	-17	-23
	-7	-12	-10	-9	-5	-8	-13	-19
16°	-11	-15	-10	-5	-5	-11	-17	-23
	-5	-10	-9	-9	-8	-10	-15	-20
24 - 32°	-6	-9	-8	-8	-8	-11	-16	-19
	-4	-7	-9	-10	-10	-12	-16	-20

Outlet Levels

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

End Reflection (dB)

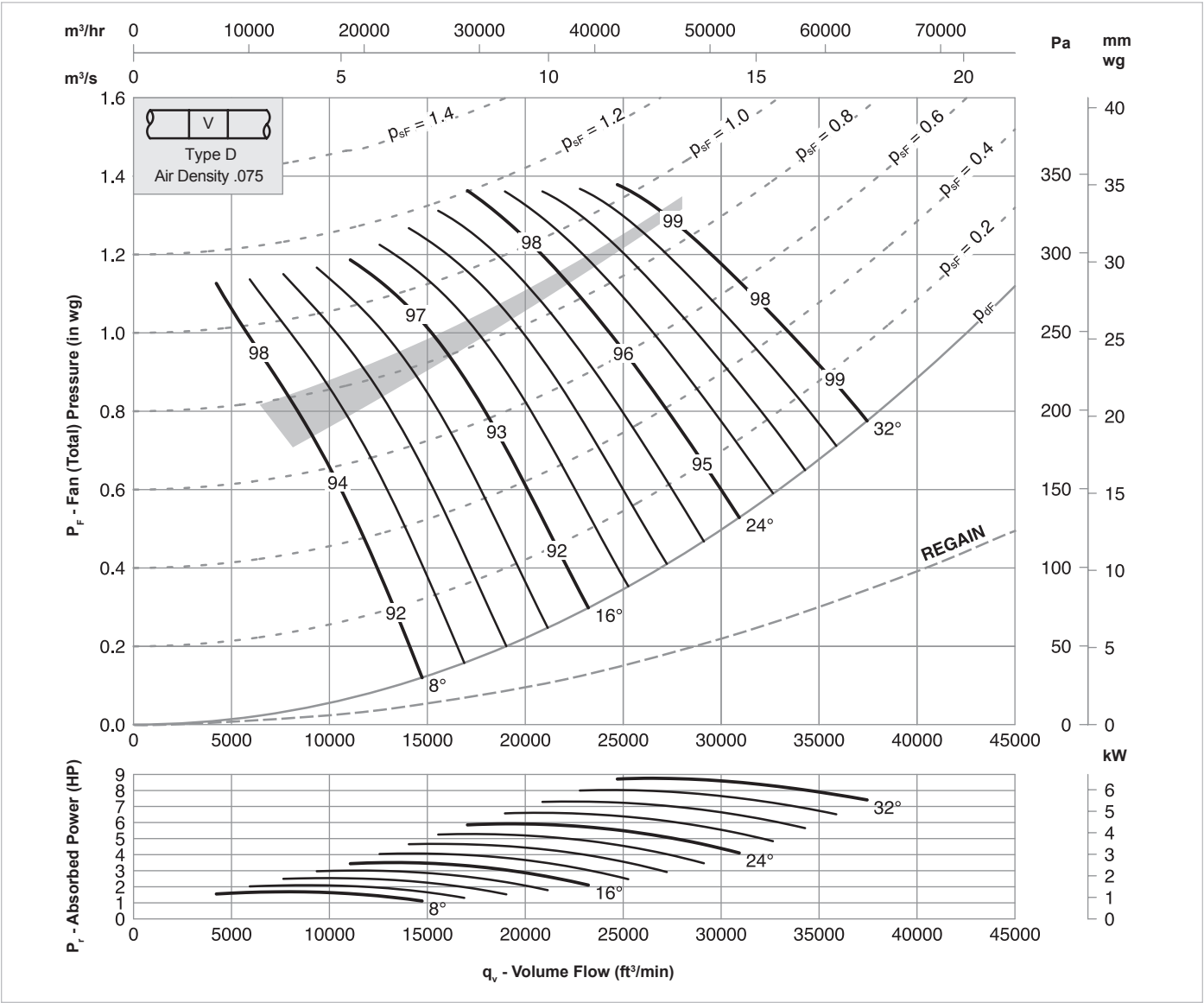
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 40 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-10	-5	-6	-11	-19	-24	-31
	-8	-11	-9	-7	-9	-14	-19	-27
16°	-7	-11	-7	-7	-11	-16	-21	-28
	-4	-7	-8	-11	-12	-15	-19	-26
24 - 32°	-5	-8	-8	-9	-11	-15	-18	-22
	-5	-7	-7	-10	-11	-16	-19	-23

Outlet Levels

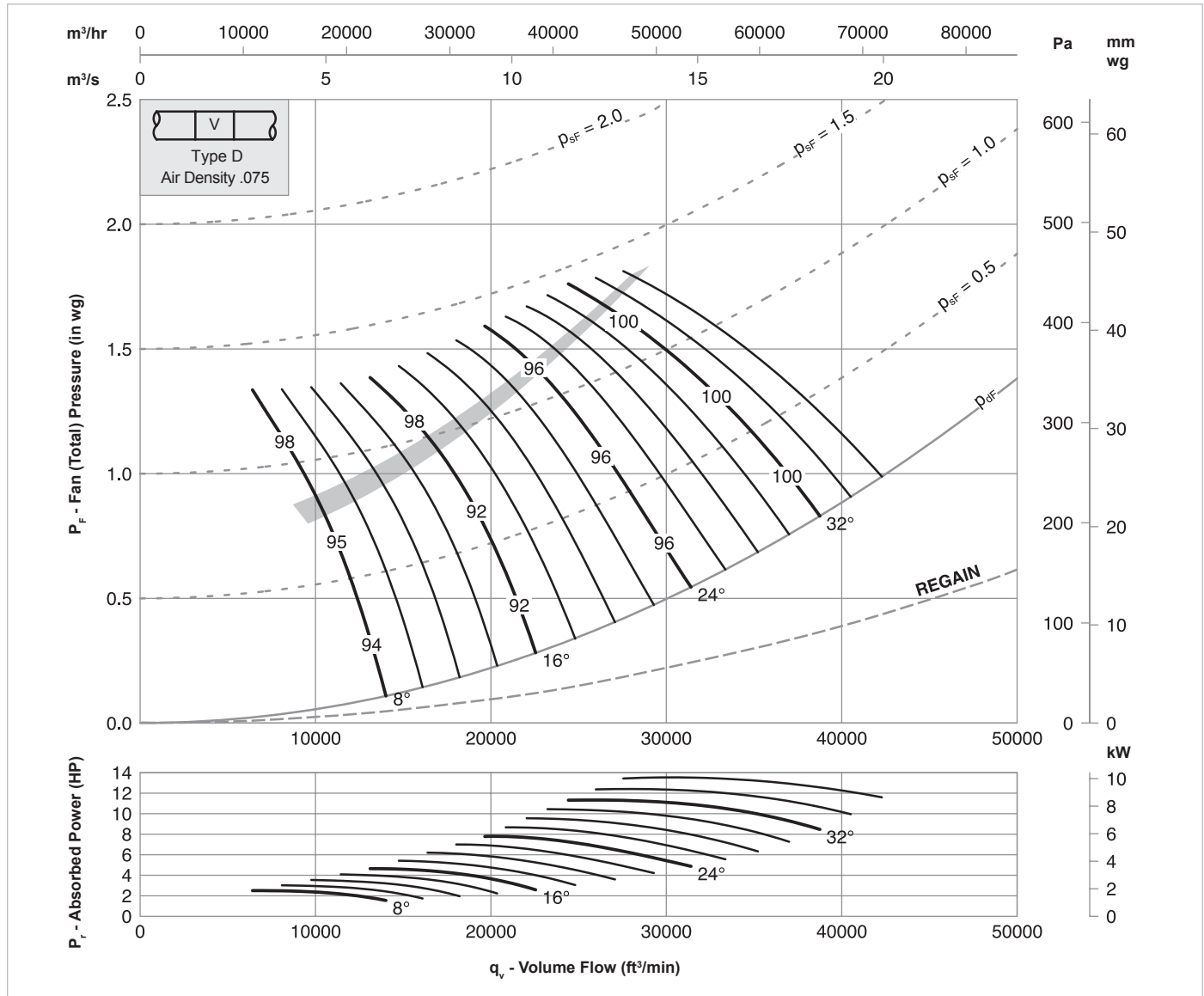
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-8	-9	-4	-5	-11	-18	-24	-29
	-4	-9	-8	-5	-8	-13	-18	-25
16°	-4	-9	-7	-6	-9	-14	-20	-26
	-2	-6	-8	-10	-11	-14	-19	-25
24 - 32°	-2	-7	-8	-8	-11	-14	-17	-21
	-2	-6	-8	-10	-11	-15	-19	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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VXDA 44 / 40 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-9	-5	-5	-11	-18	-25	-32
	-16	-9	-9	-5	-7	-12	-19	-28
16°	-14	-9	-5	-5	-9	-15	-22	-29
	-12	-7	-8	-8	-8	-11	-17	-24
24 - 36°	-7	-7	-6	-10	-12	-14	-17	-23
	-7	-6	-6	-10	-12	-14	-17	-24

Outlet Levels

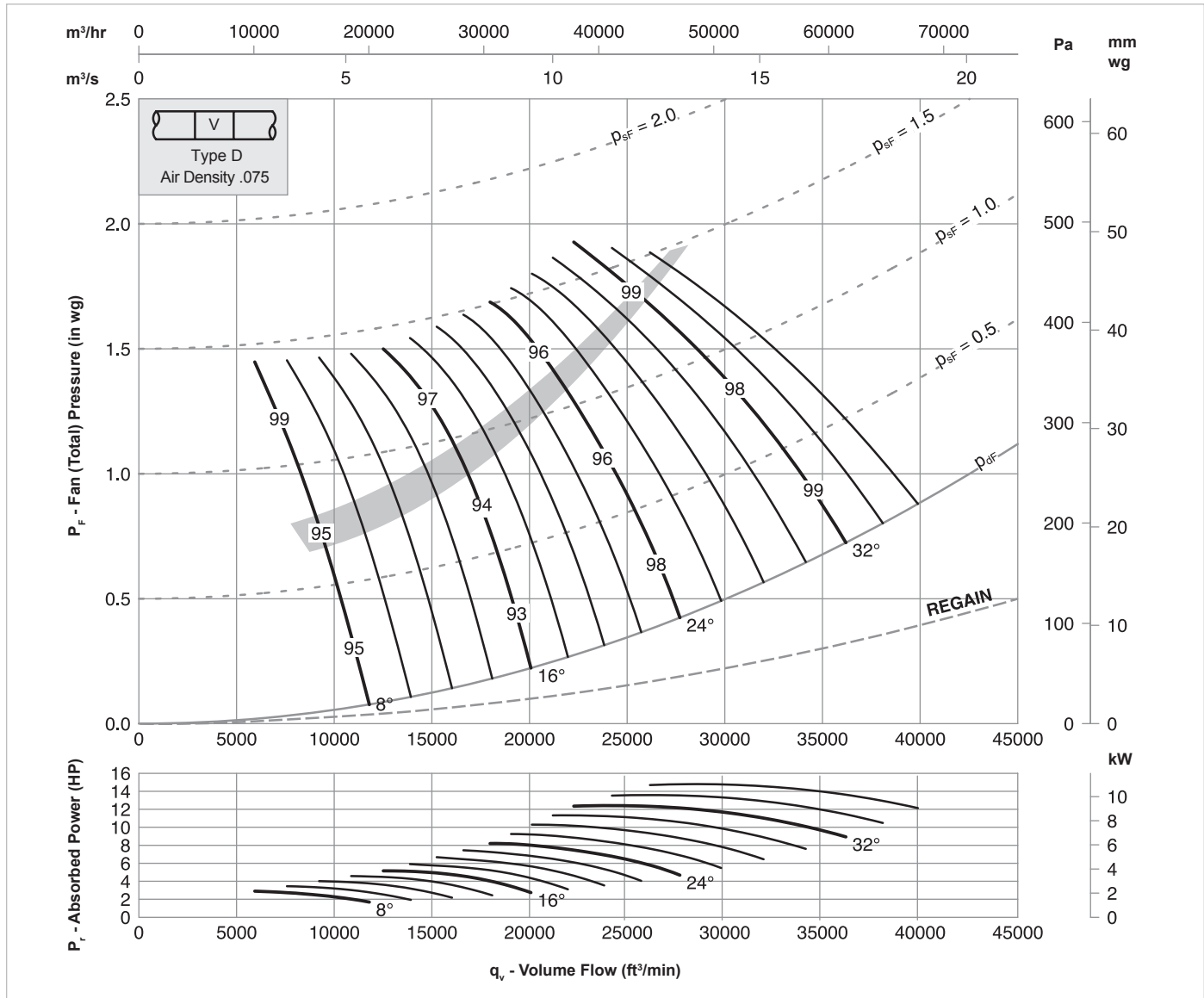
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-6	-4	-4	-11	-17	-23	-30
	-12	-6	-8	-4	-7	-12	-17	-25
16°	-10	-7	-4	-5	-10	-16	-21	-28
	-7	-4	-6	-6	-9	-11	-15	-22
24 - 36°	-4	-4	-4	-8	-11	-13	-16	-22
	-3	-3	-4	-9	-11	-13	-16	-23

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
 Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).
 Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 50 / 875 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-6	-8	-4	-8	-15	-20	-28
	-17	-6	-8	-5	-8	-13	-18	-25
16°	-14	-6	-8	-6	-8	-14	-20	-27
	-12	-4	-9	-8	-9	-13	-17	-25
24 - 36°	-8	-5	-8	-8	-10	-14	-17	-21
	-8	-4	-8	-8	-10	-14	-17	-23

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-4	-7	-6	-8	-12	-17	-25
	-14	-3	-7	-7	-8	-11	-15	-23
16°	-11	-3	-7	-6	-8	-12	-17	-24
	-9	0	-8	-7	-9	-11	-14	-22
24 - 36°	-6	-3	-7	-8	-10	-11	-14	-19
	-6	-2	-7	-8	-10	-12	-14	-20

End Reflection (dB)

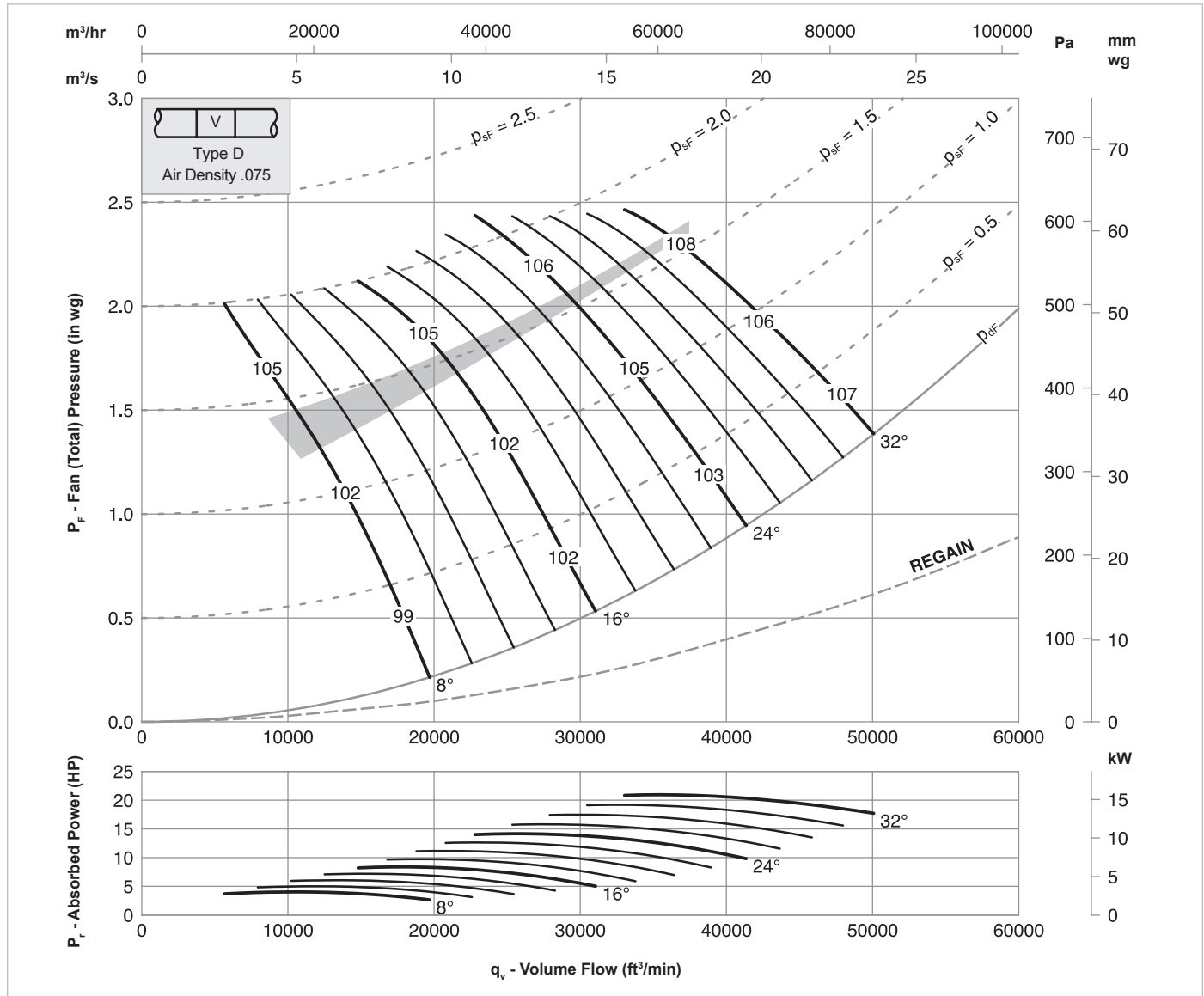
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 40 / 1170 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-11	-6	-4	-8	-16	-21	-28
	-8	-8	-8	-6	-7	-11	-16	-23
16°	-6	-9	-8	-7	-9	-13	-18	-25
	-5	-6	-7	-10	-11	-14	-17	-24
24 - 32°	-5	-8	-7	-9	-10	-14	-17	-21
	-5	-7	-7	-10	-11	-14	-18	-22

Outlet Levels

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

End Reflection (dB)

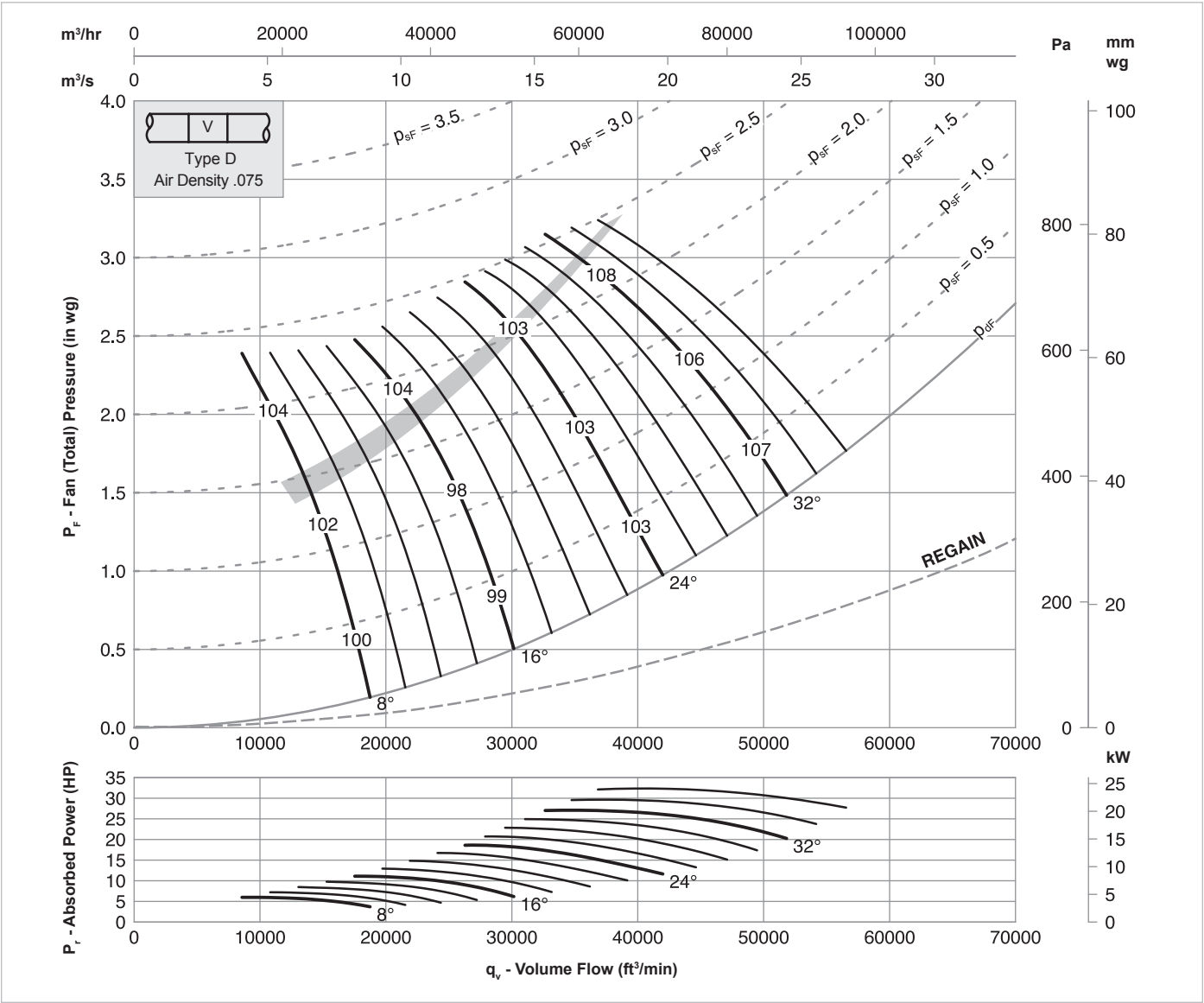
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 40 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-11	-5	-4	-7	-15	-21	-25
	-15	-10	-9	-6	-5	-10	-15	-23
16°	-15	-12	-7	-4	-7	-12	-19	-26
	-12	-7	-8	-7	-8	-9	-14	-21
24 - 36°	-7	-7	-7	-7	-10	-14	-15	-21
	-7	-6	-7	-8	-11	-14	-15	-22

Outlet Levels

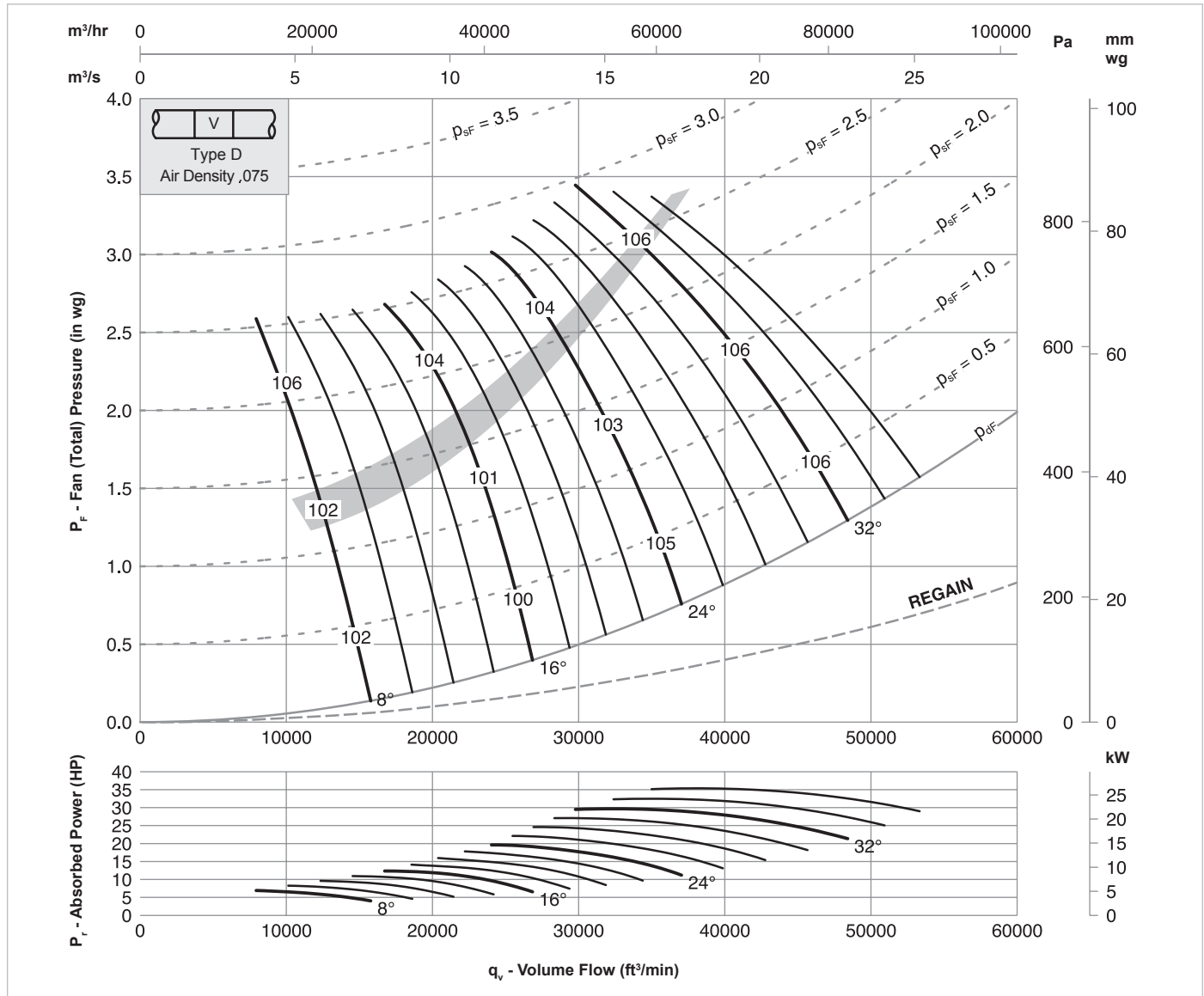
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-8	-5	-4	-8	-15	-20	-27
	-11	-6	-8	-6	-5	-10	-14	-22
16°	-11	-10	-6	-4	-8	-13	-18	-26
	-7	-10	-6	-4	-8	-10	-12	-20
24 - 36°	-4	-4	-6	-6	-10	-13	-14	-20
	-4	-3	-5	-7	-10	-13	-14	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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VXDA 44 / 50 / 1170 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-5	-6	-6	-11	-17	-24
	-17	-14	-5	-6	-6	-11	-16	-21
16°	-12	-13	-5	-7	-7	-11	-17	-24
	-11	-13	-3	-9	-8	-12	-16	-21
24 - 36°	-8	-9	-5	-8	-9	-13	-15	-20
	-8	-9	-4	-9	-9	-13	-16	-21

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-3	-7	-6	-9	-15	-21
	-13	-12	-3	-8	-6	-9	-13	-19
16°	-10	-11	-3	-7	-6	-10	-14	-21
	-9	-11	-0	-8	-8	-10	-13	-19
24 - 36°	-5	-7	-4	-8	-9	-11	-13	-18
	-6	-7	-3	-9	-9	-11	-13	-18

End Reflection (dB)

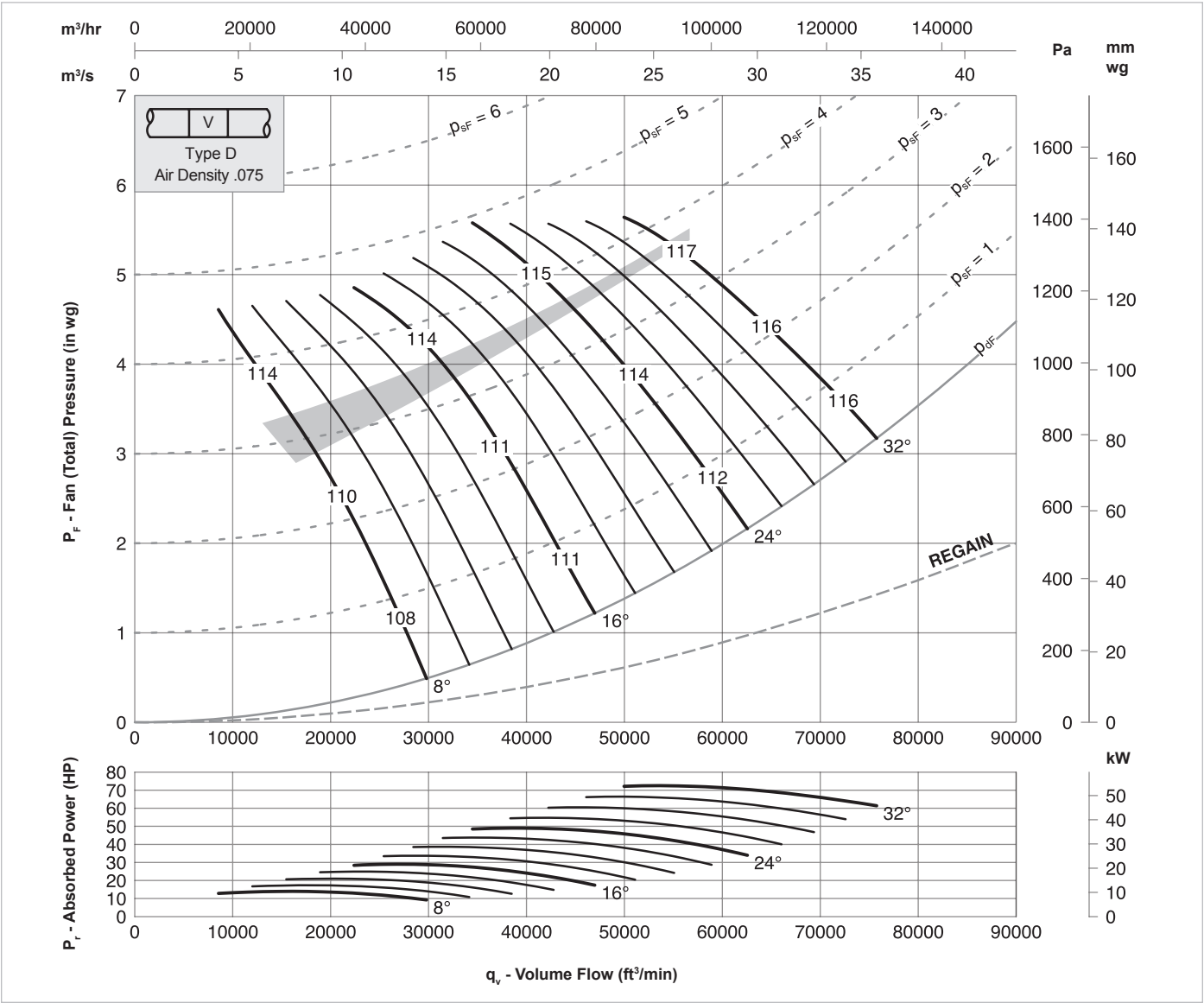
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 40 / 1770 / 6



Inlet Levels

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

Outlet Levels

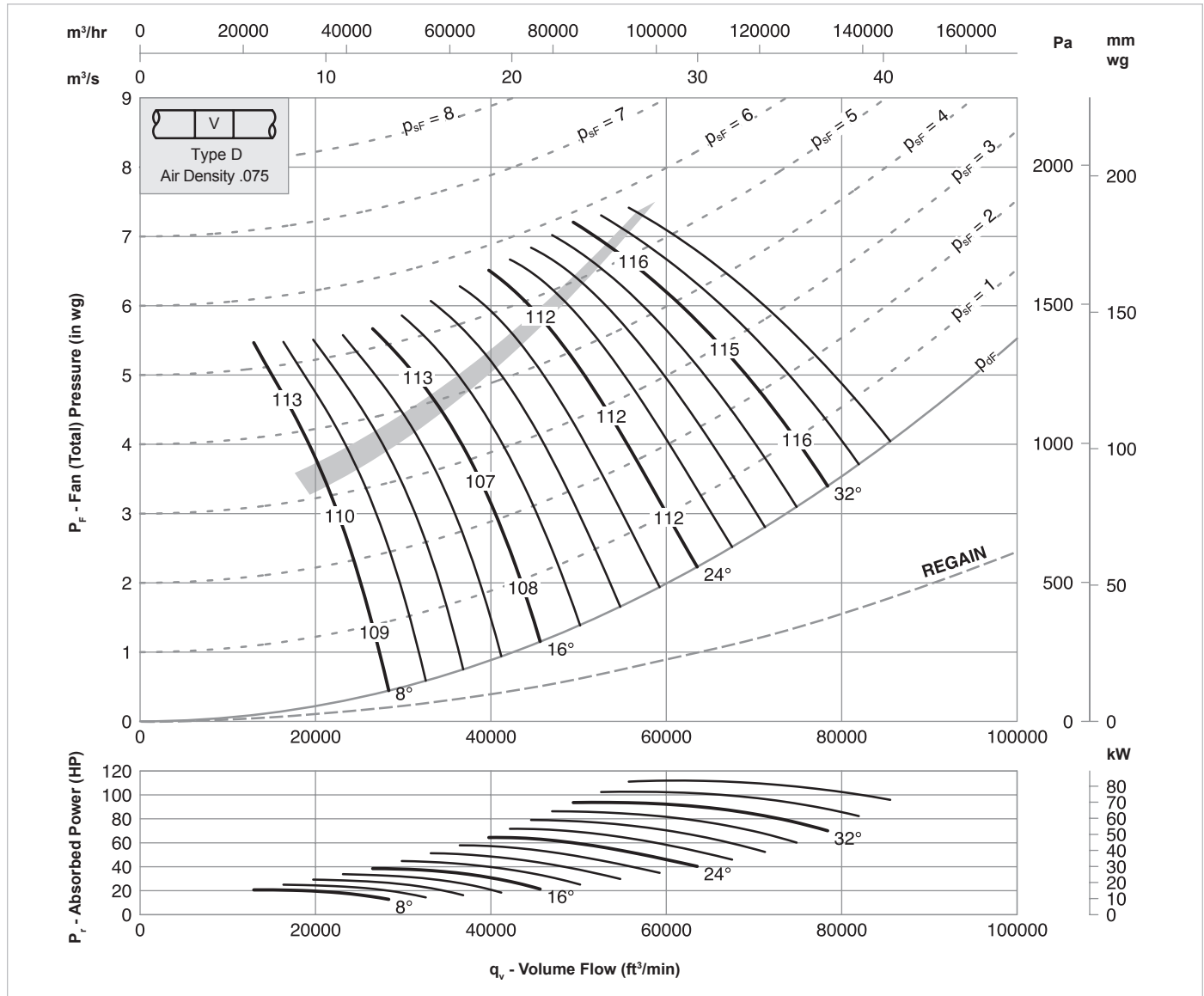
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-11	-8	-9	-4	-5	-11	-19	-23
	-8	-5	-10	-8	-6	-8	-14	-17
16°	-5	-5	-11	-7	-7	-10	-16	-18
	-4	-4	-9	-9	-11	-12	-16	-18
24 - 32°	-4	-4	-9	-8	-10	-11	-15	-18
	-4	-4	-8	-8	-11	-12	-16	-19

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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VXDA 44 / 40 / 1770 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-14	-9	-4	-5	-10	-17	-24
	-16	-16	-8	-8	-5	-6	-12	-18
16°	-16	-14	-9	-5	-5	-9	-15	-22
	-13	-12	-6	-7	-7	-8	-10	-16
24 - 36°	-8	-8	-7	-6	-10	-12	-14	-17
	-8	-7	-6	-6	-11	-13	-15	-17

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-7	-4	-5	-10	-16	-22
	-13	-13	-6	-8	-5	-7	-11	-16
16°	-12	-11	-8	-6	-6	-10	-14	-21
	-9	-9	-4	-7	-8	-9	-9	-15
24 - 36°	-5	-4	-6	-5	-10	-11	-14	-16
	-5	-4	-4	-5	-10	-12	-14	-16

End Reflection (dB)

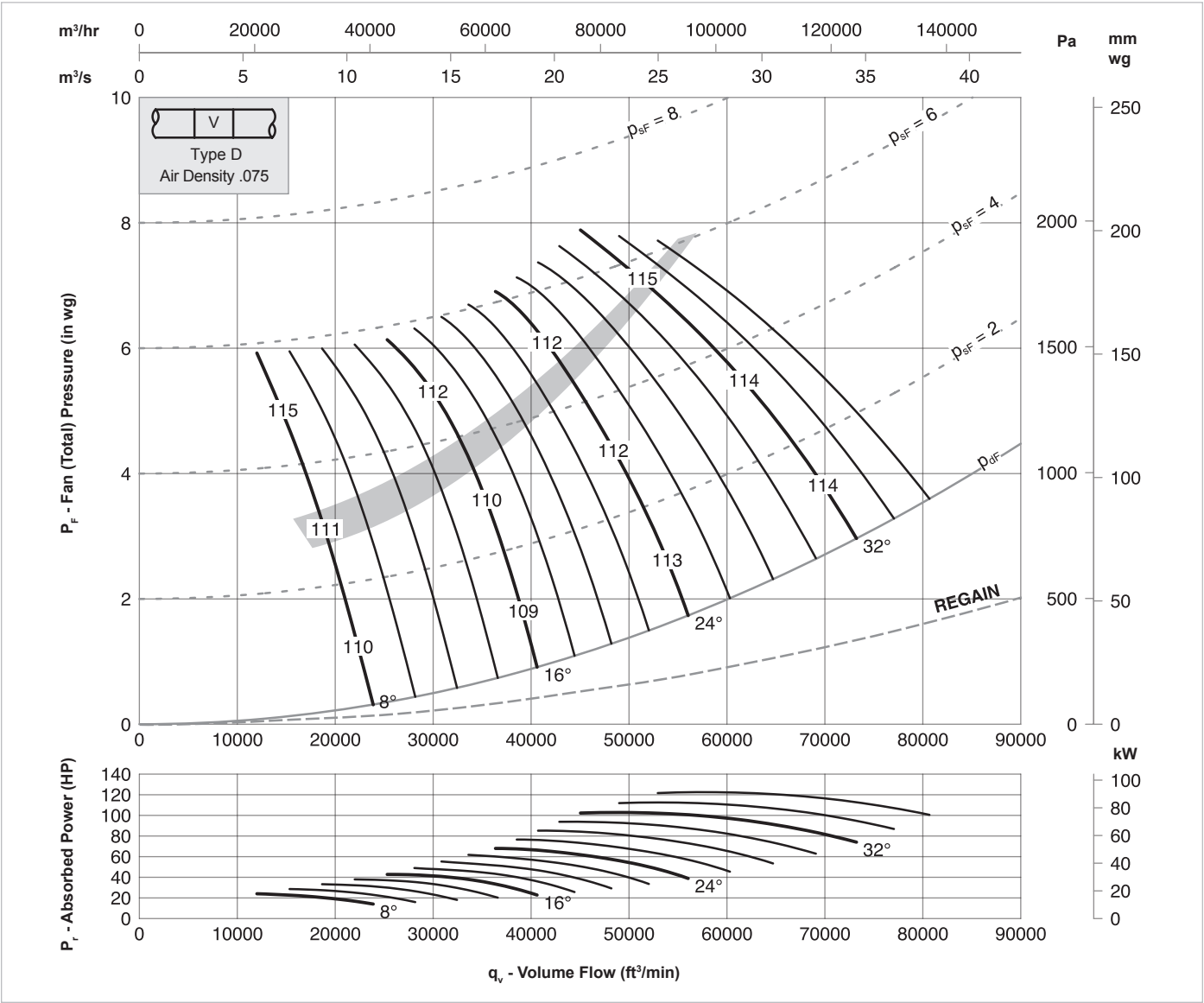
63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 44 / 50 / 1770 / 12



Inlet Levels

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

Outlet Levels

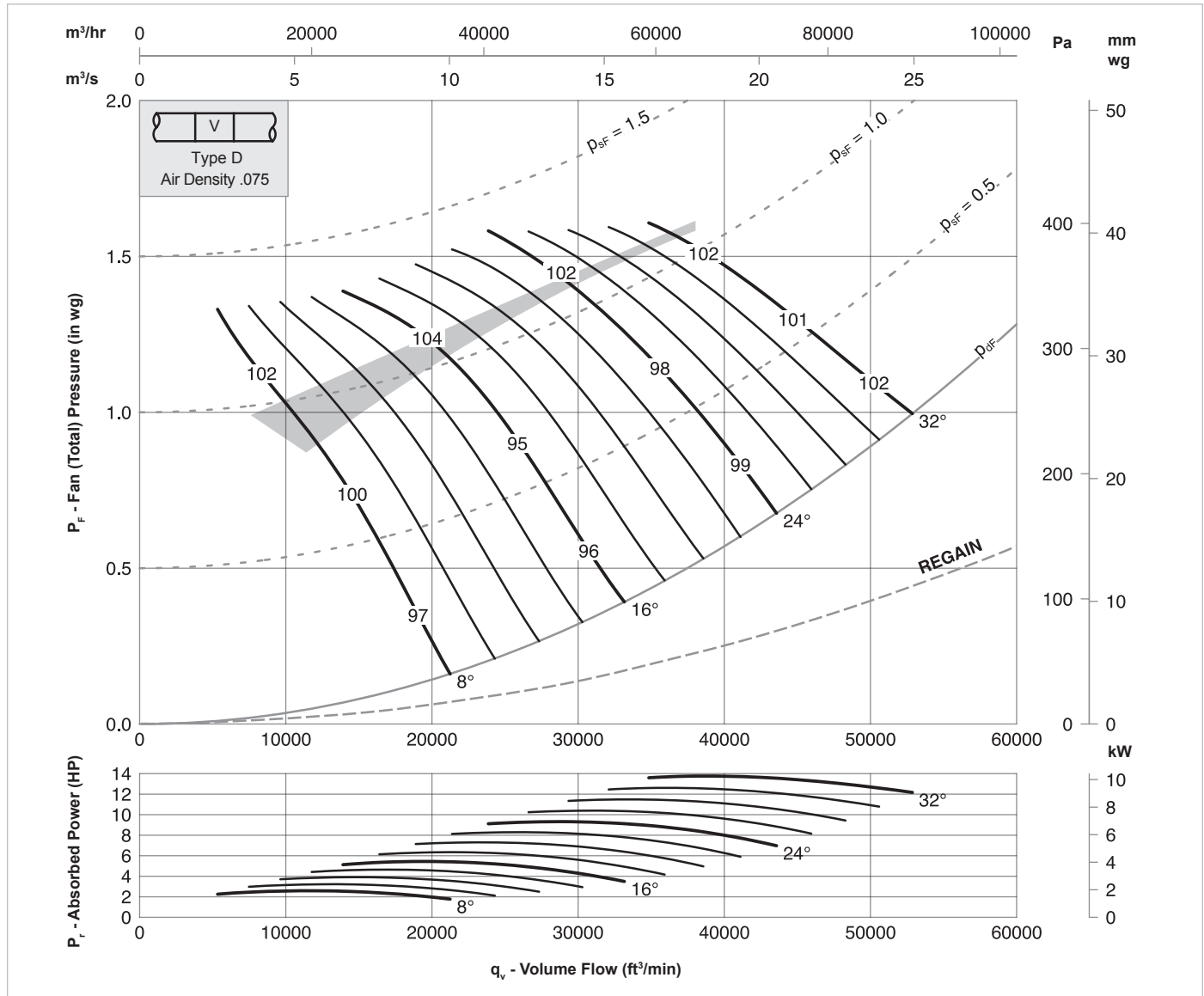
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-16	-4	-8	-4	-6	-13	-18
	-14	-15	-3	-8	-5	-7	-12	-17
16°	-10	-13	-3	-7	-6	-7	-12	-18
	-9	-12	-1	-9	-8	-9	-11	-16
24 - 36°	-6	-7	-4	-8	-9	-9	-12	-16
	-6	-7	-3	-9	-9	-9	-12	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-2	0	0	0	0	0	0

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VXDA 50 / 40 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-7	-4	-6	-13	-20	-25	-30
	-13	-12	-7	-4	-7	-14	-18	-26
16°	-11	-11	-7	-4	-8	-14	-20	-26
	-6	-6	-8	-9	-10	-13	-15	-23
24 - 32°	-8	-8	-7	-5	-11	-15	-18	-21
	-6	-6	-8	-9	-11	-15	-17	-20

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-12	-6	-4	-6	-12	-20	-25	-28
	-11	-11	-7	-4	-7	-14	-18	-25
16°	-8	-9	-7	-4	-8	-13	-20	-24
	-4	-5	-8	-9	-9	-13	-16	-22
24 - 32°	-6	-7	-8	-5	-11	-14	-18	-20
	-3	-5	-8	-9	-11	-14	-17	-19

End Reflection (dB)

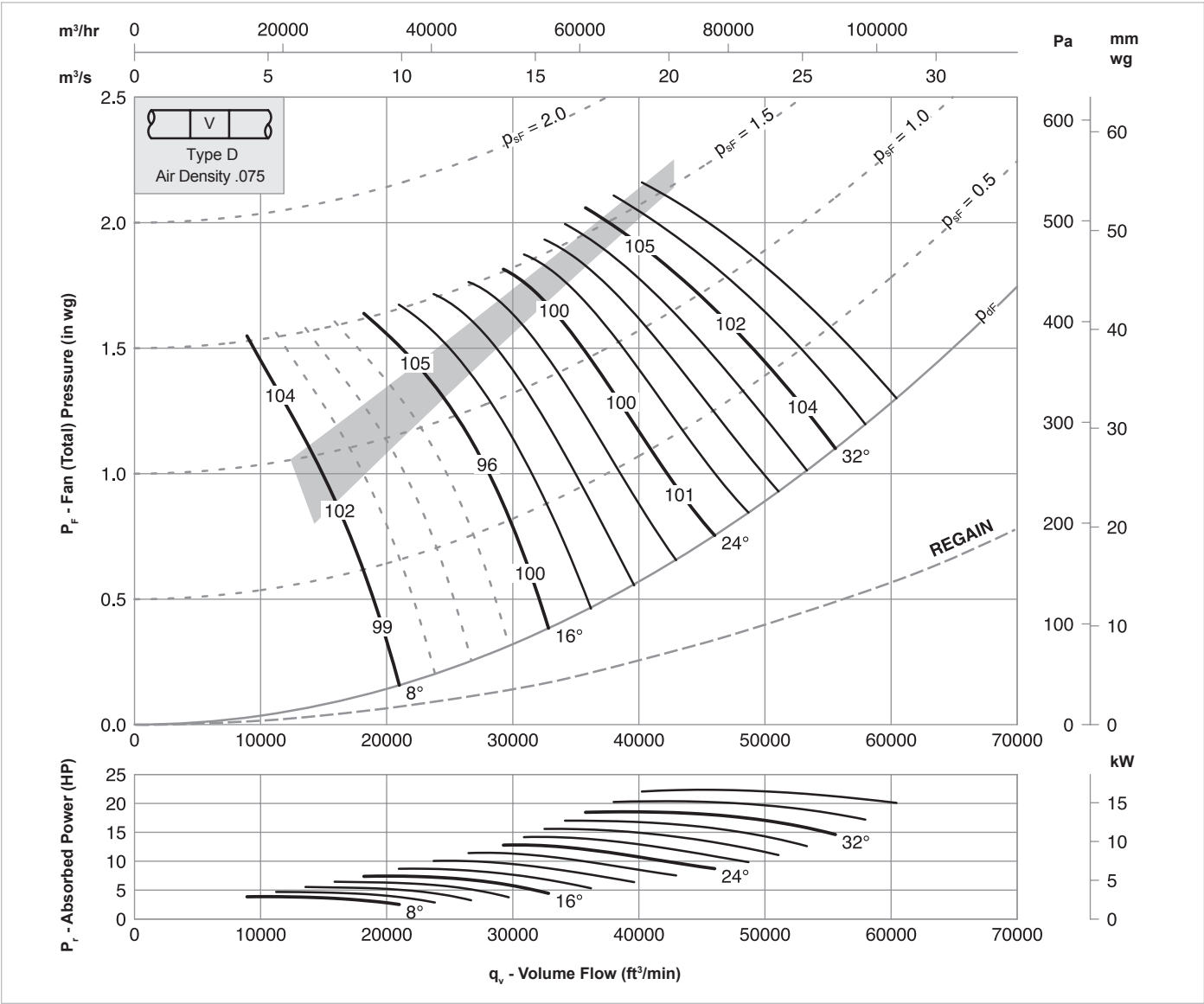
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 50 / 40 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-11	-6	-3	-10	-18	-26	-32
	-22	-12	-10	-3	-7	-13	-18	-27
16°	-20	-9	-6	-4	-9	-17	-25	-31
	-16	-7	-8	-5	-7	-11	-15	-23
24 - 36°	-8	-7	-7	-7	-10	-13	-18	-24
	-8	-6	-7	-7	-10	-13	-15	-22

Outlet Levels

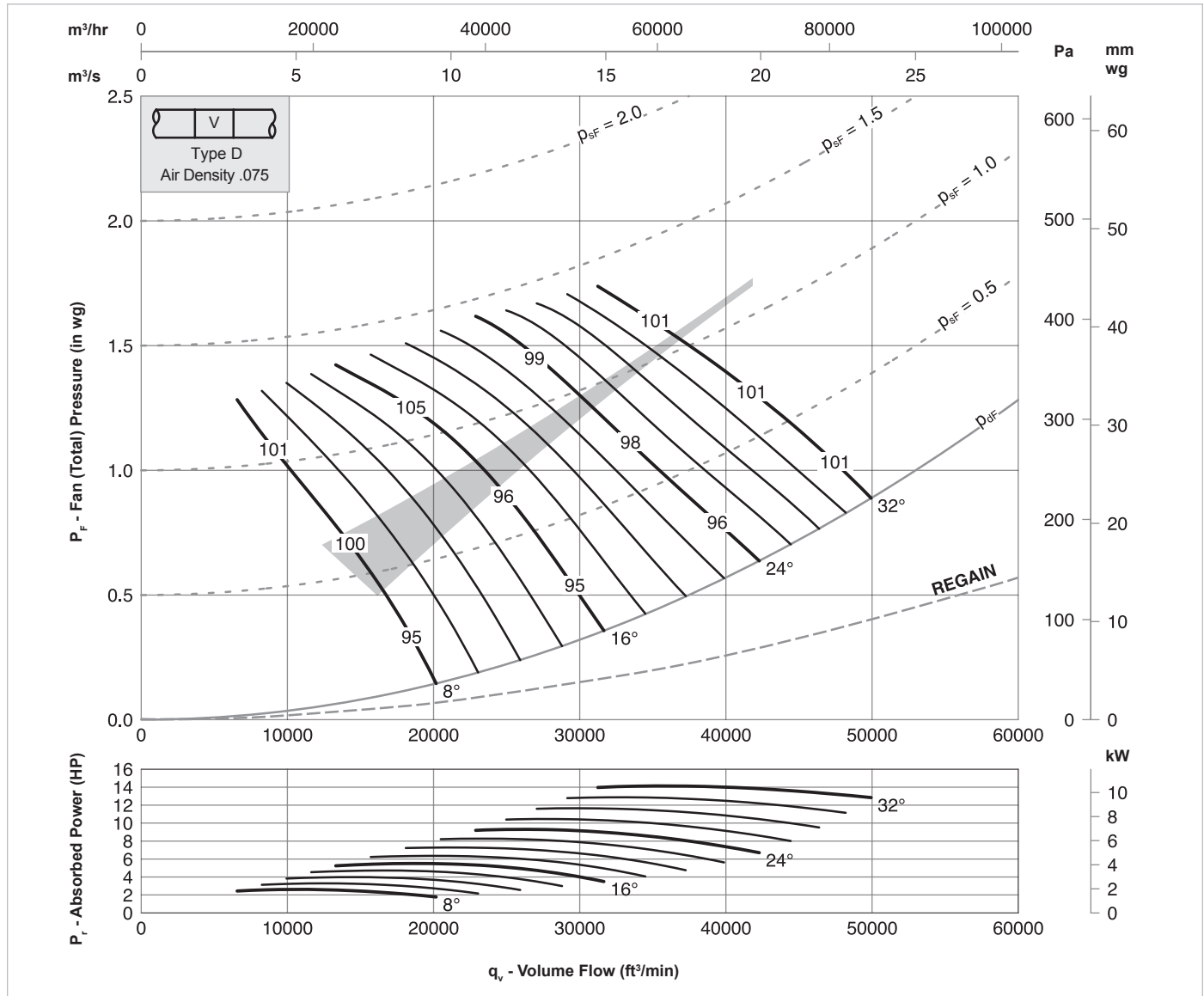
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-8	-6	-3	-11	-18	-24	-31
	-18	-9	-10	-2	-7	-13	-16	-25
16°	-16	-7	-5	-4	-11	-18	-24	-30
	-12	-5	-7	-4	-8	-11	-14	-22
24 - 36°	-5	-5	-5	-6	-10	-13	-17	-23
	-5	-4	-5	-6	-9	-12	-14	-21

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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VXDA 50 / 50 / 875 / 6



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

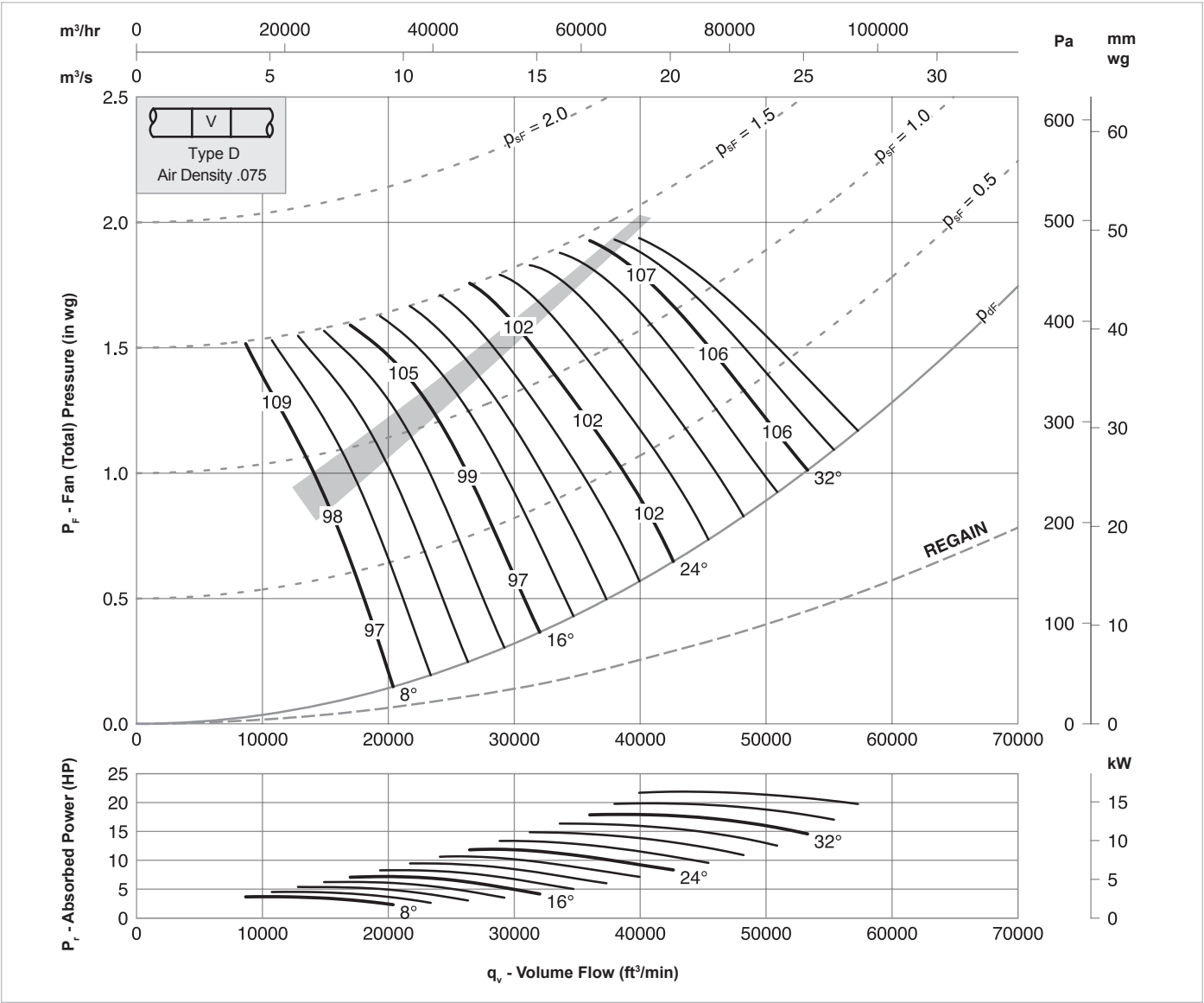
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 50 / 50 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-11	-7	-3	-8	-15	-21	-27
	-11	-6	-9	-6	-8	-12	-14	-23
16°	-13	-7	-5	-5	-11	-17	-23	-29
	-10	-4	-8	-9	-11	-14	-16	-24
24 - 36°	-7	-6	-7	-8	-11	-16	-19	-23
	-8	-4	-7	-10	-12	-15	-19	-24

Outlet Levels

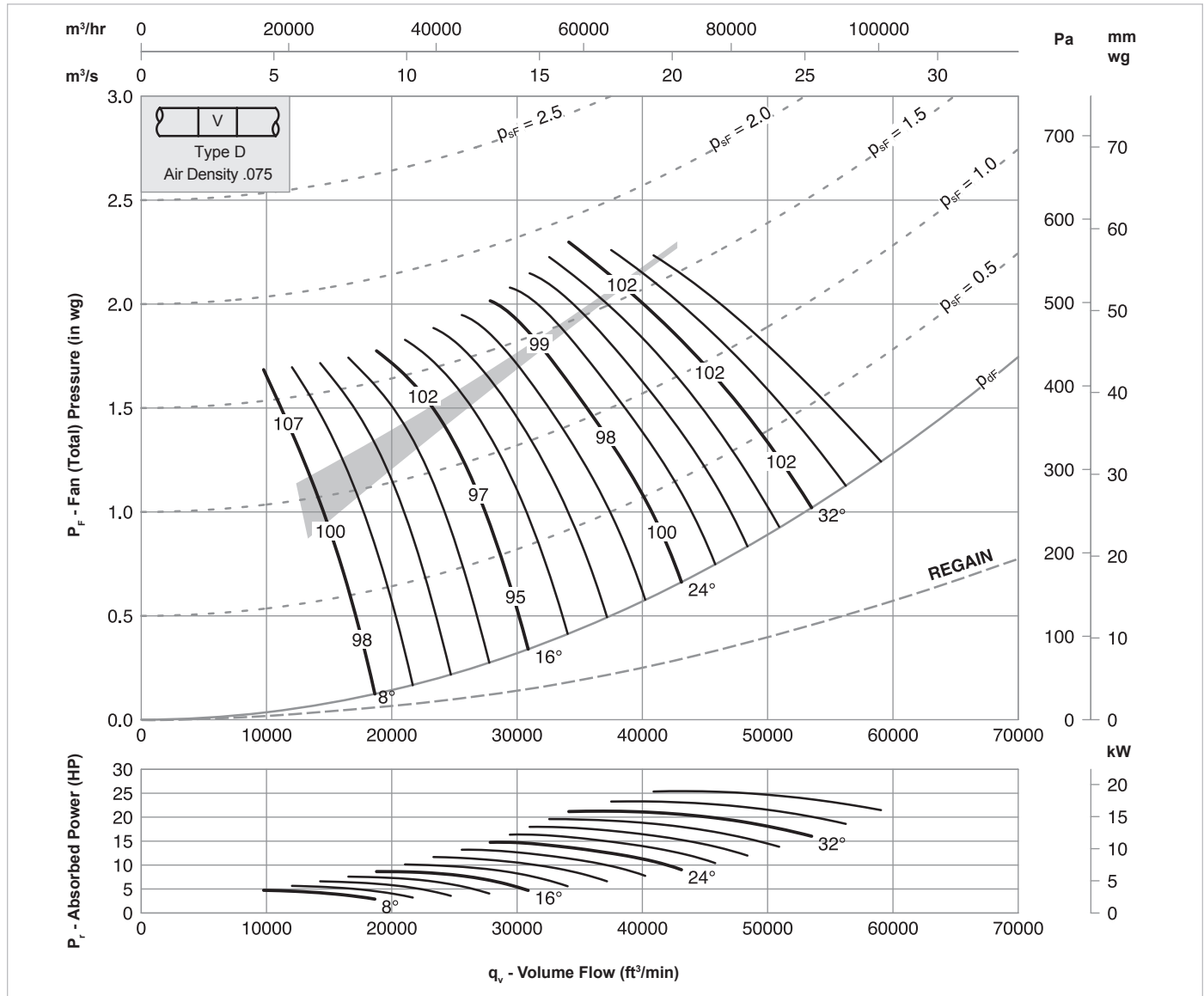
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-9	-6	-3	-8	-14	-20	-26
	-18	-4	-8	-5	-8	-11	-13	-22
16°	-11	-6	-3	-5	-10	-16	-22	-27
	-7	-2	-6	-9	-10	-13	-15	-23
24 - 36°	-4	-5	-5	-7	-11	-15	-17	-22
	-4	-3	-4	-9	-11	-14	-17	-22

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 50 / 50 / 875 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-8	-9	-4	-7	-15	-21	-29
	-17	-5	-8	-5	-8	-14	-18	-26
16°	-15	-9	-6	-5	-7	-15	-22	-29
	-12	-4	-9	-7	-9	-13	-18	-25
24 - 36°	-8	-6	-7	-7	-10	-14	-17	-21
	-8	-5	-9	-8	-10	-13	-16	-22

Outlet Levels

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

End Reflection (dB)

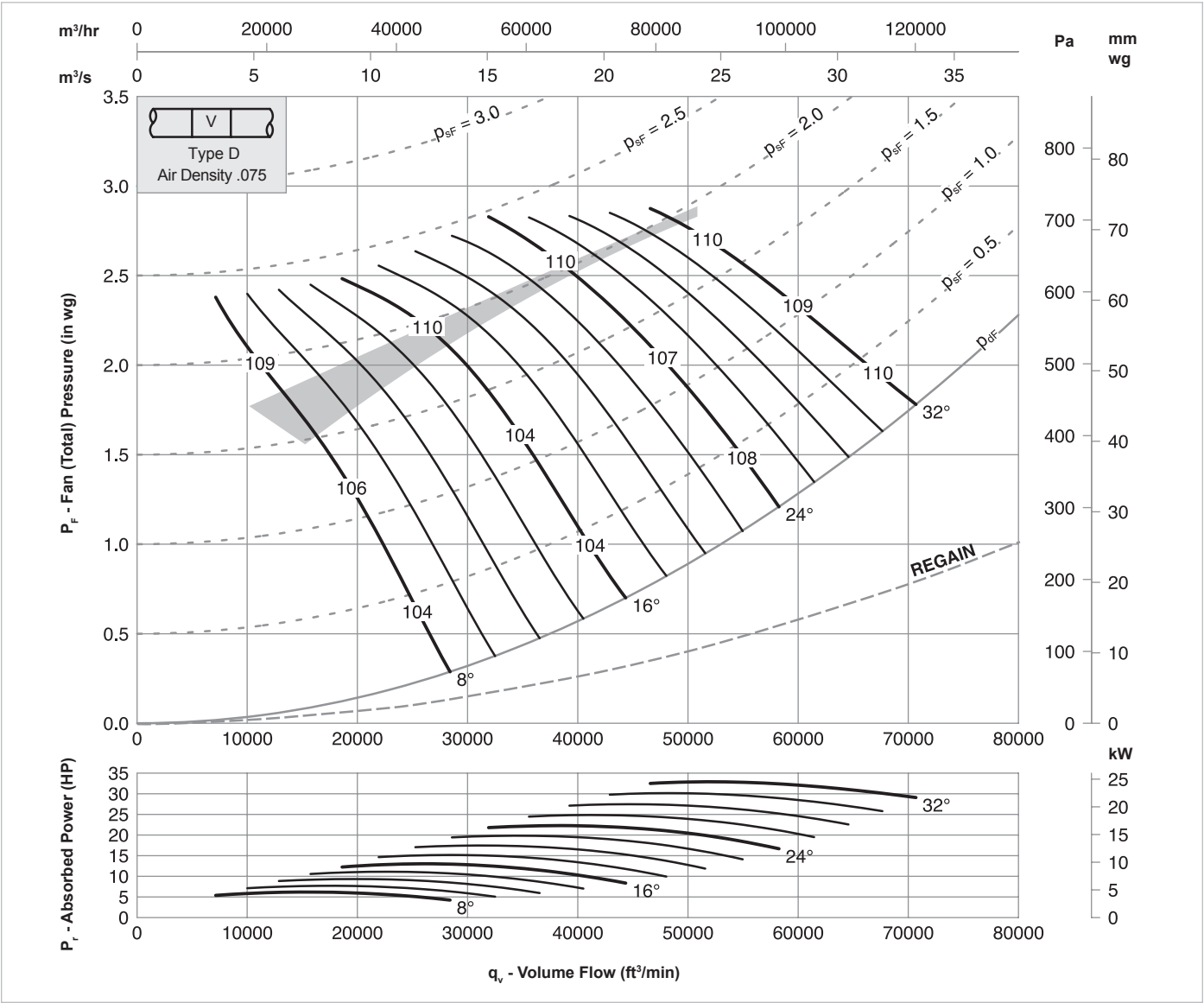
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 50 / 40 / 1170 / 6



Inlet Levels

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

Outlet Levels

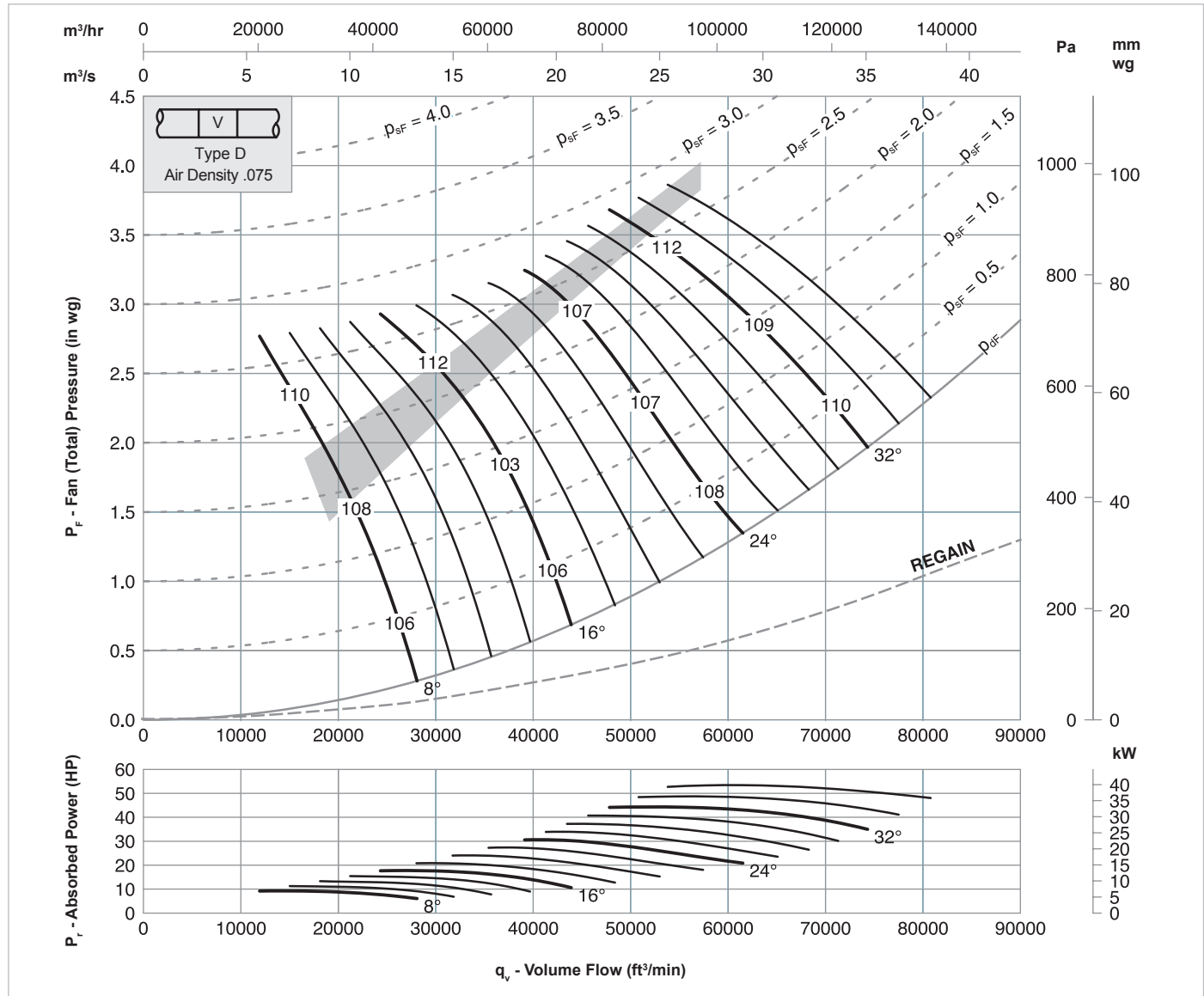
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-7	-4	-4	-9	-17	-23	-26
	-12	-11	-10	-4	-5	-10	-17	-20
16°	-9	-9	-8	-5	-6	-11	-18	-23
	-4	-5	-6	-9	-9	-12	-15	-19
24 - 32°	-6	-7	-6	-6	-7	-13	-17	-19
	-4	-5	-5	-9	-10	-13	-17	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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VXDA 50 / 40 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-23	-14	-6	-3	-7	-15	-23	-29
	-21	-14	-10	-5	-4	-11	-16	-22
16°	-22	-15	-7	-4	-6	-14	-22	-28
	-17	-8	-9	-6	-5	-9	-14	-19
24 - 36°	-9	-7	-7	-7	-8	-13	-16	-22
	-8	-6	-7	-8	-8	-12	-14	-19

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-21	-11	-6	-3	-7	-15	-22	-28
	-17	-11	-9	-5	-4	-11	-15	-20
16°	-18	-12	-6	-4	-7	-14	-21	-28
	-13	-5	-8	-5	-7	-10	-12	-18
24 - 36°	-6	-4	-6	-6	-7	-12	-15	-21
	-5	-4	-6	-6	-7	-12	-13	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

The figure consists of two vertically stacked graphs sharing a common x-axis representing Volume Flow (q_v) in ft^3/min , ranging from 0 to 80,000.

Top Graph: P_F - Fan (Total) Pressure (in wg)

- Y-axis:** Ranges from 0.0 to 4.0 wg. It also includes secondary scales for m^3/hr (0 to 120,000) and m^3/s (0 to 35) at the top, and for Pa (0 to 100) and mm wg (0 to 80) on the right.
- Curves:** Solid lines represent constant total pressure (102, 103, 105, 106, 108, 111 wg). Dashed lines represent constant static pressure (p_{sF}) from 0.5 to 3.5 wg.
- Efficiency:** A shaded region indicates the efficiency range, with specific efficiency values (8°, 16°, 24°, 32°) marked along the curves.
- REGAIN:** A dashed line labeled "REGAIN" is shown at the bottom right of the pressure plot.
- Legend:** A box labeled "Type D" with "Air Density .075" and a schematic of the fan impeller is located in the upper left corner.

Bottom Graph: P_i - Absorbed Power (HP)

- Y-axis:** Ranges from 0 to 35 HP. It also includes a secondary scale for kW (0 to 25) on the right.
- Curves:** Solid lines represent constant absorbed power for different efficiency levels (8°, 16°, 24°, 32°).

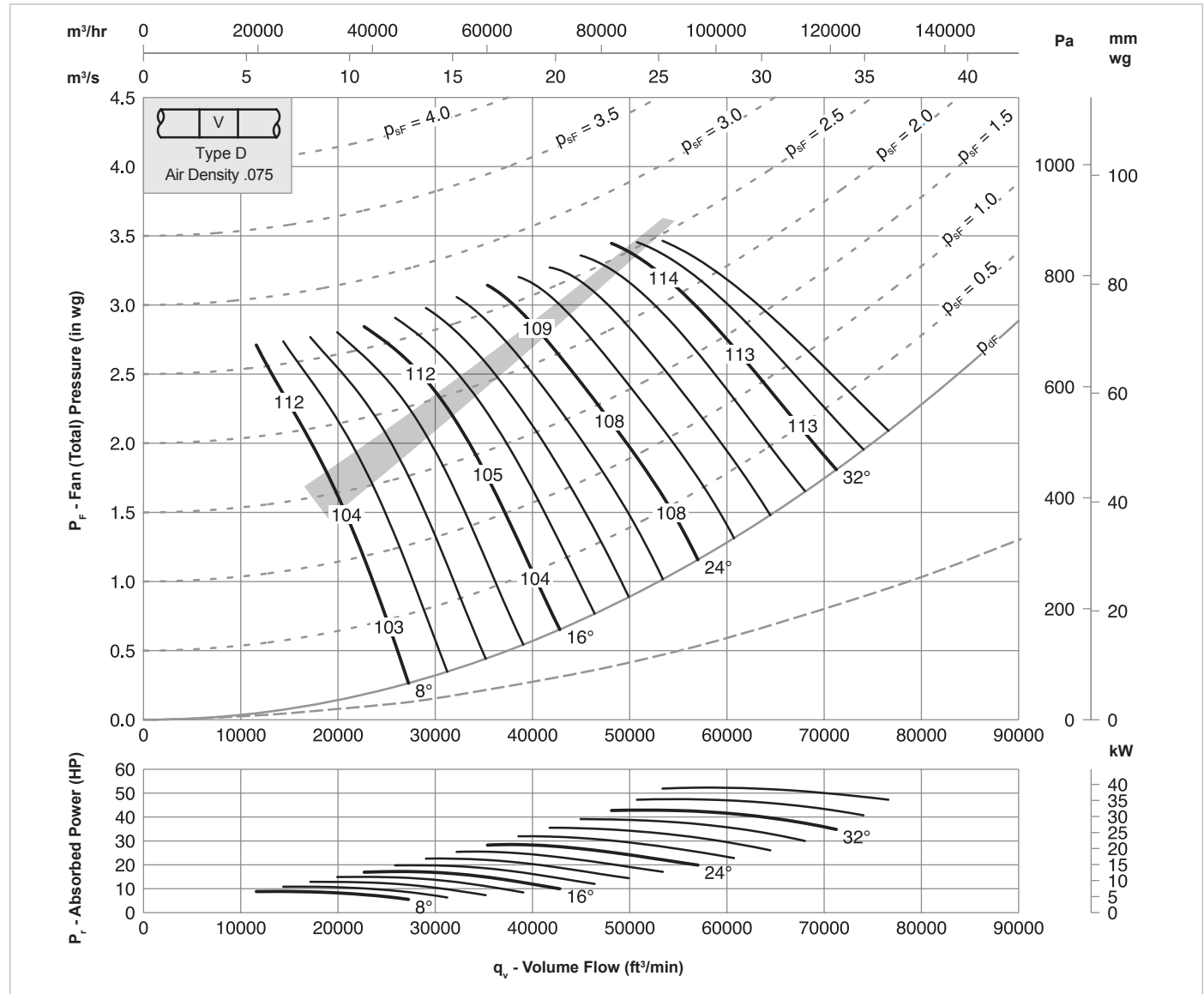
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-10	-10	-6	-4	-13	-21	-25
	-14	-8	-8	-7	-6	-10	-14	-16
16°	-16	-9	-7	-4	-7	-14	-20	-24
	-9	-5	-6	-10	-10	-13	-17	-20
24 - 32°	-7	-6	-7	-8	-10	-13	-15	-17
	-7	-6	-7	-9	-10	-13	-15	-18

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

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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VXDA 50 / 50 / 1170 / 9



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

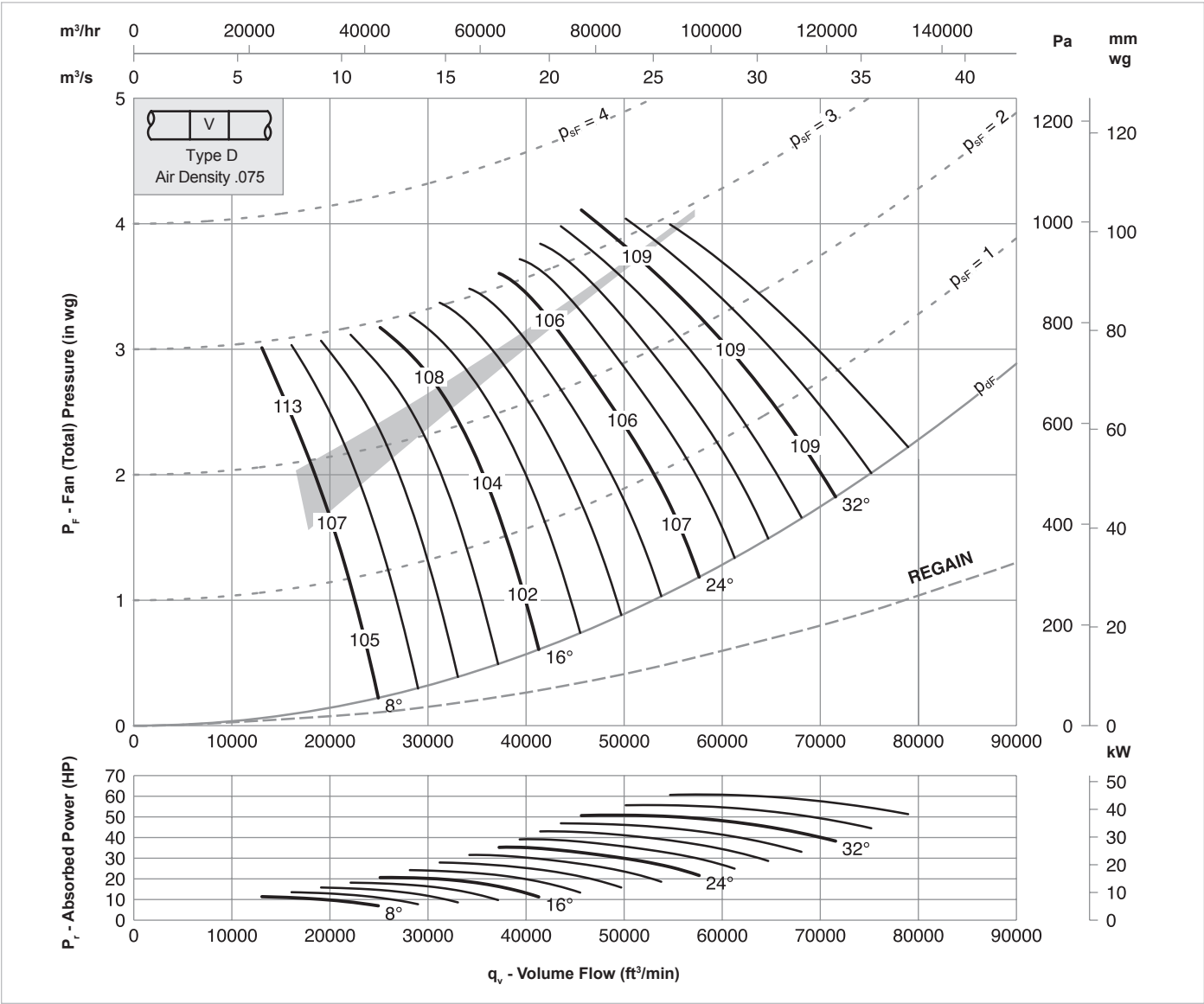
63	125	250	500	1k	2k	4k	8k
4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 50 / 50 / 1170 / 12



Inlet Levels

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

Outlet Levels

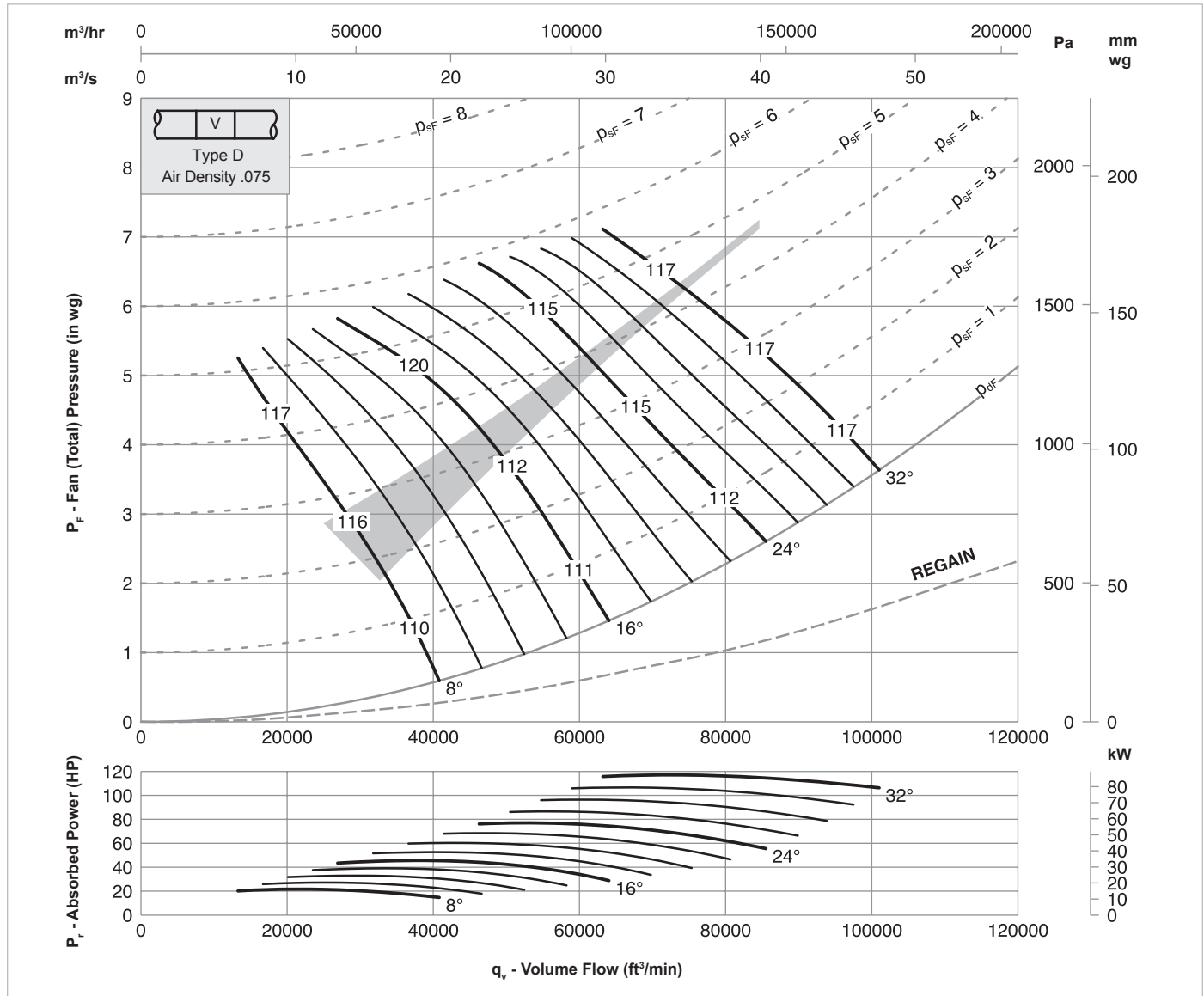
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-13	-5	-6	-5	-9	-15	-23
	-13	-12	-3	-8	-6	-9	-14	-20
16°	-12	-12	-4	-5	-5	-10	-16	-23
	-8	-10	-1	-8	-8	-10	-13	-19
24 - 36°	-5	-8	-4	-8	-9	-11	-13	-17
	-5	-7	-3	-9	-9	-10	-12	-18

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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VXDA 50 / 50 / 1770 / 6



Inlet Levels

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

Outlet Levels

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

End Reflection (dB)

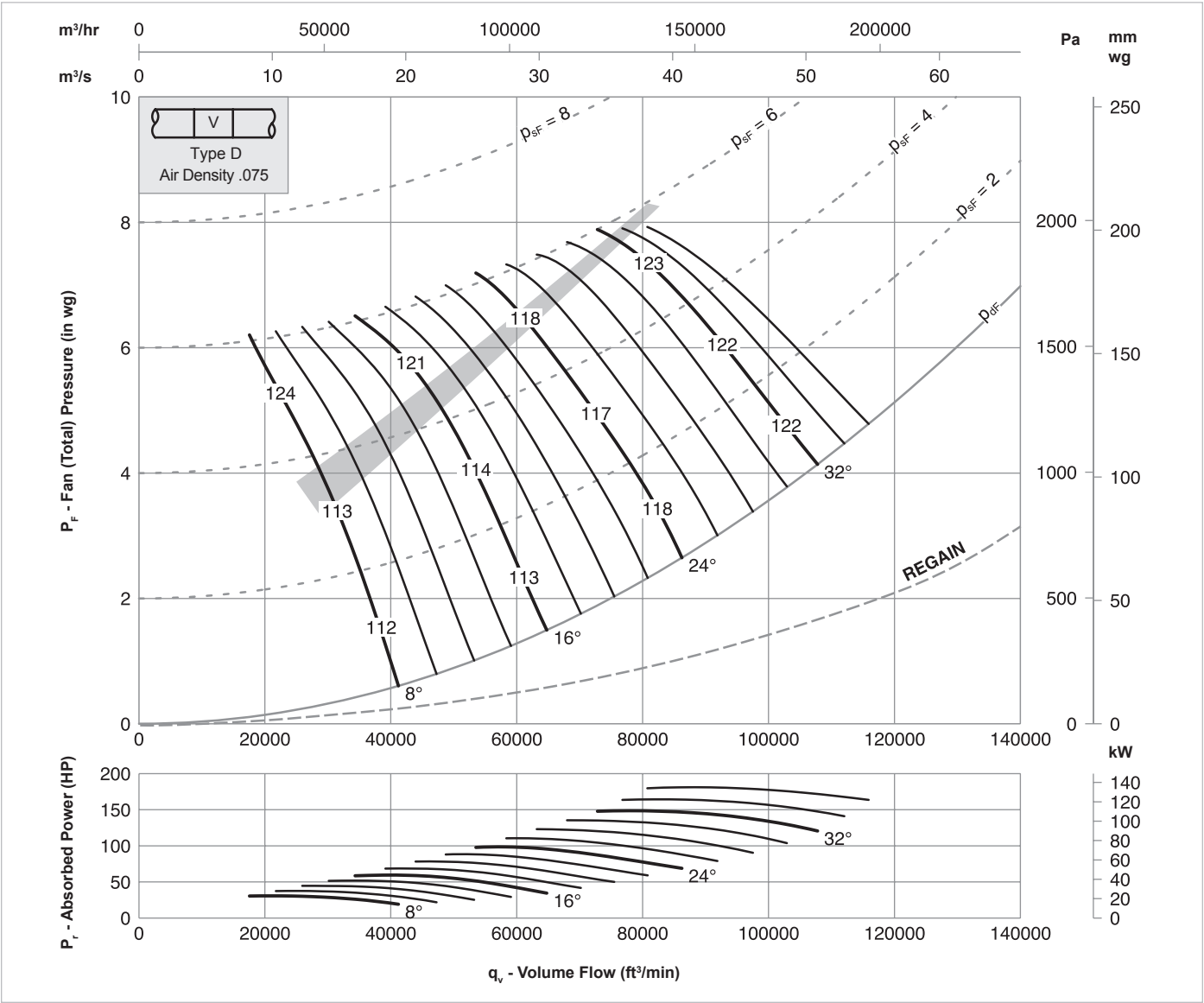
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 50 / 50 / 1770 / 9



Inlet Levels

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

Outlet Levels

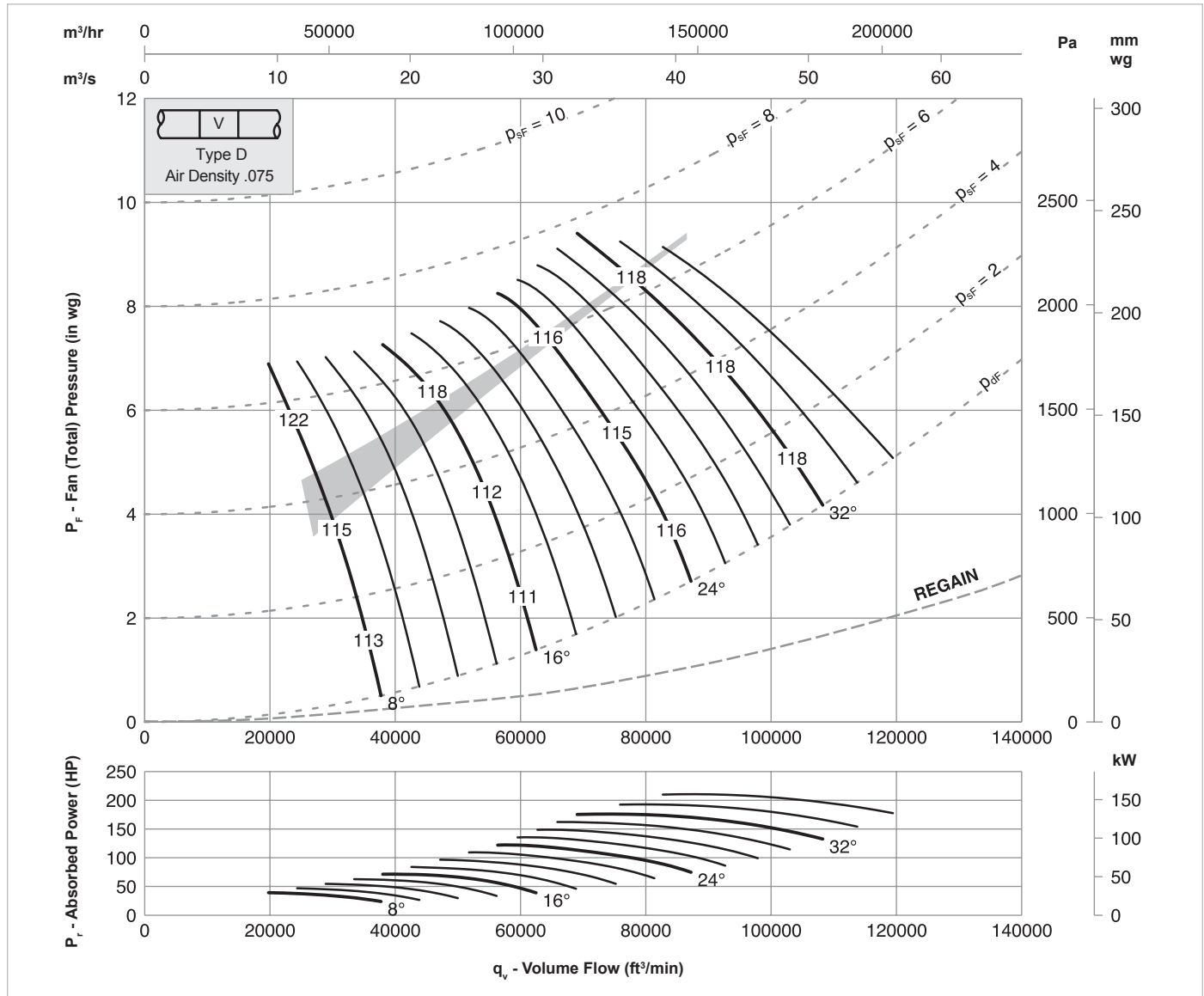
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-14	-9	-7	-3	-6	-14	-20
	-13	-10	-4	-8	-5	-6	-11	-13
16°	-15	-12	-5	-4	-5	-10	-16	-22
	-11	-9	-2	-7	-8	-10	-13	-15
24 - 36°	-16	-7	-5	-6	-8	-11	-15	-18
	-7	-7	-3	-5	-9	-11	-14	-17

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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VXDA 50 / 50 / 1770 / 12



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-18	-6	-8	-3	-5	-12	-18
	-14	-15	-4	-8	-5	-6	-11	-16
16°	-12	-13	-7	-5	-5	-5	-11	-19
	-9	-10	-1	-8	-8	-8	-10	-15
24 - 36°	-6	-6	-6	-7	-8	-8	-11	-15
	-6	-6	-4	-8	-9	-8	-11	-14

End Reflection (dB)

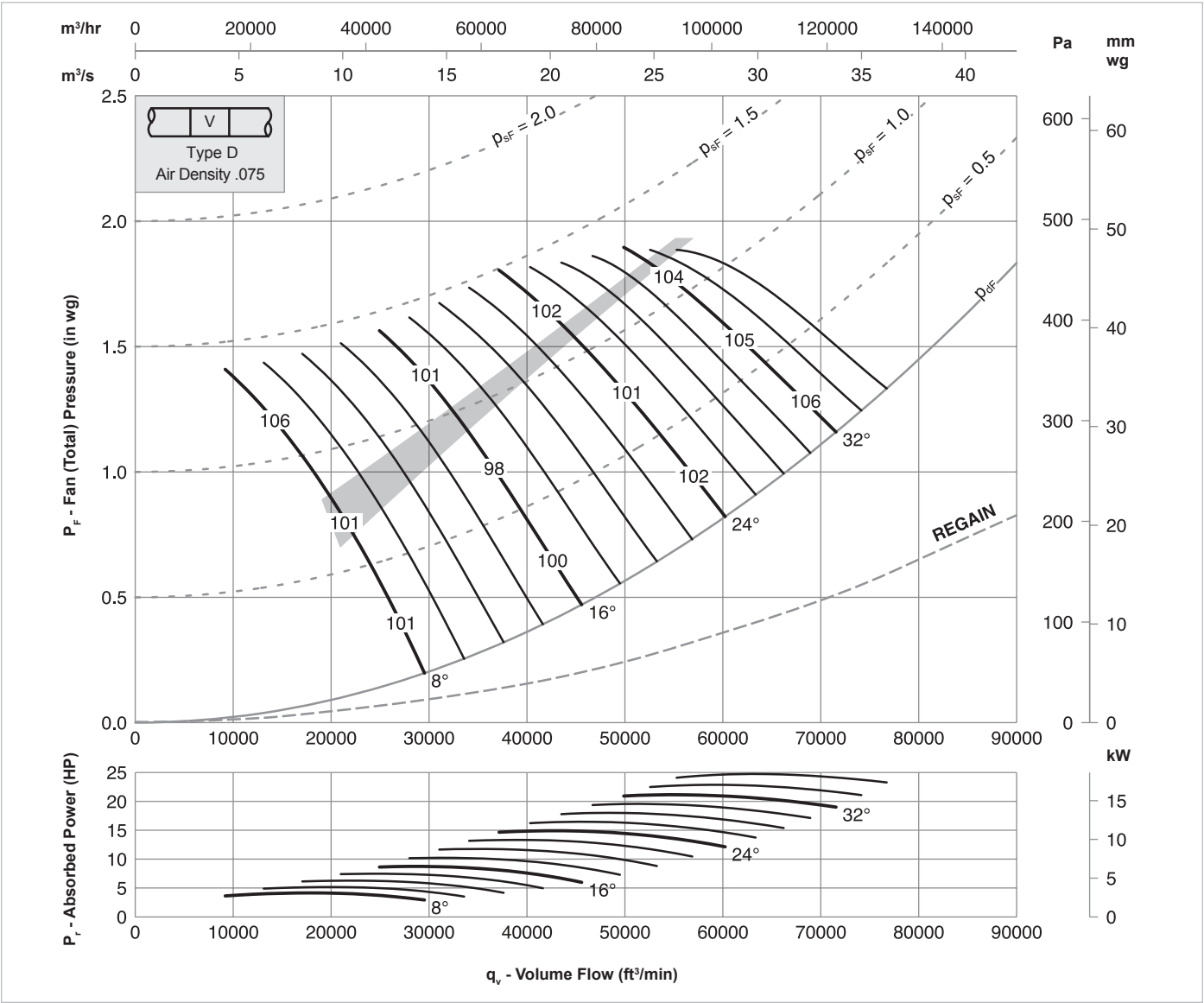
63	125	250	500	1k	2k	4k	8k
-4	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 54 / 40 / 875 / 6



Inlet Levels

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

Outlet Levels

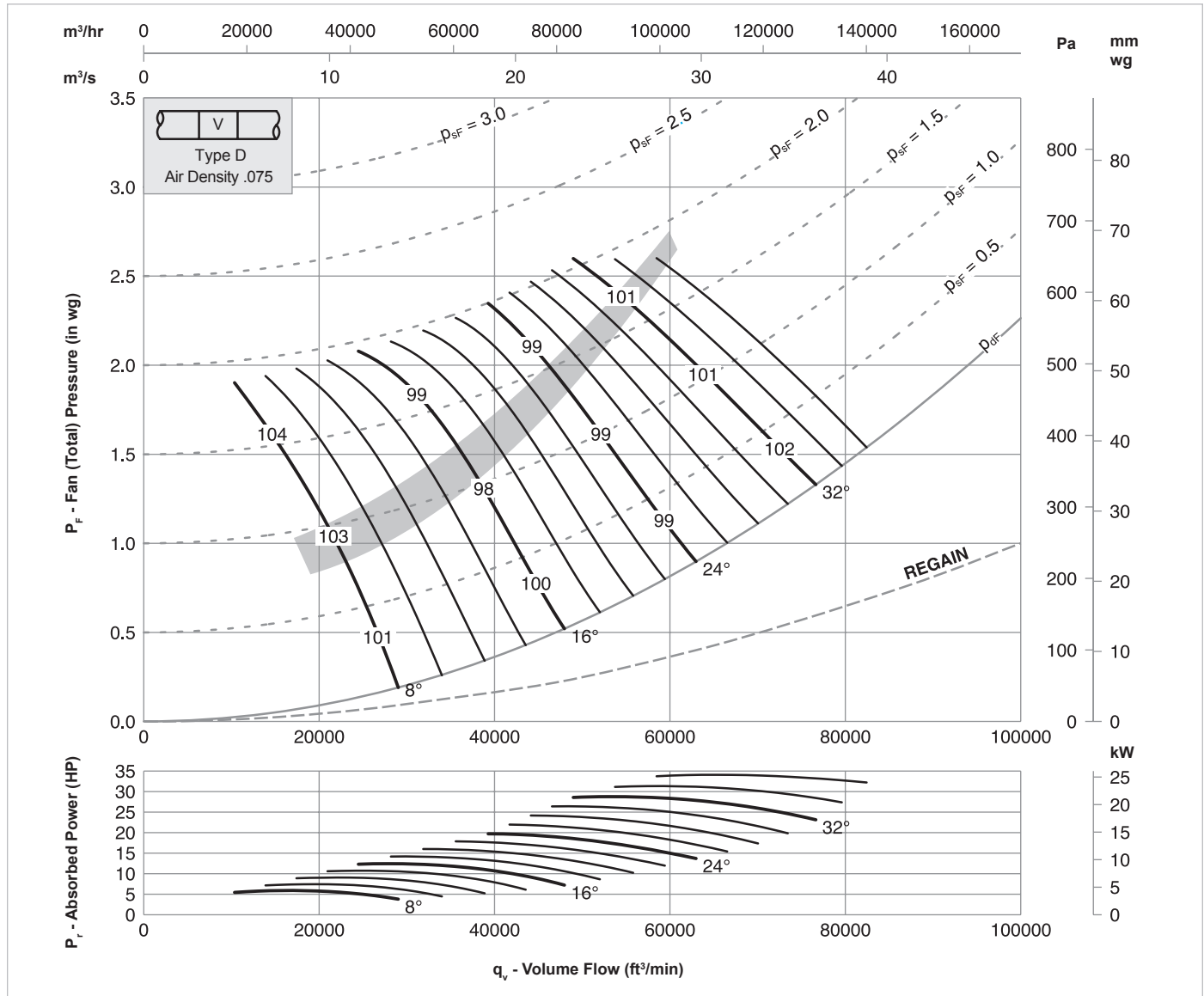
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-14	-12	-10	-2	-6	-9	-13	-25
	-12	-10	-11	-6	-5	-5	-8	-23
16°	-11	-9	-9	-3	-7	-13	-16	-22
	-4	-5	-8	-9	-11	-8	-9	-20
24 - 36°	-5	-5	-7	-6	-9	-12	-14	-16
	-3	-5	-6	-6	-11	-13	-13	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.
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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 54 / 40 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-18	-15	-11	-4	-6	-11	-16	-26
	-18	-14	-13	-8	-7	-5	-8	-22
16°	-7	-10	-10	-6	-8	-9	-12	-18
	-12	-10	-11	-9	-9	-5	-9	-20
24 - 36°	-7	-7	-9	-7	-9	-12	-15	-15
	-7	-7	-8	-7	-9	-11	-15	-17

Outlet Levels

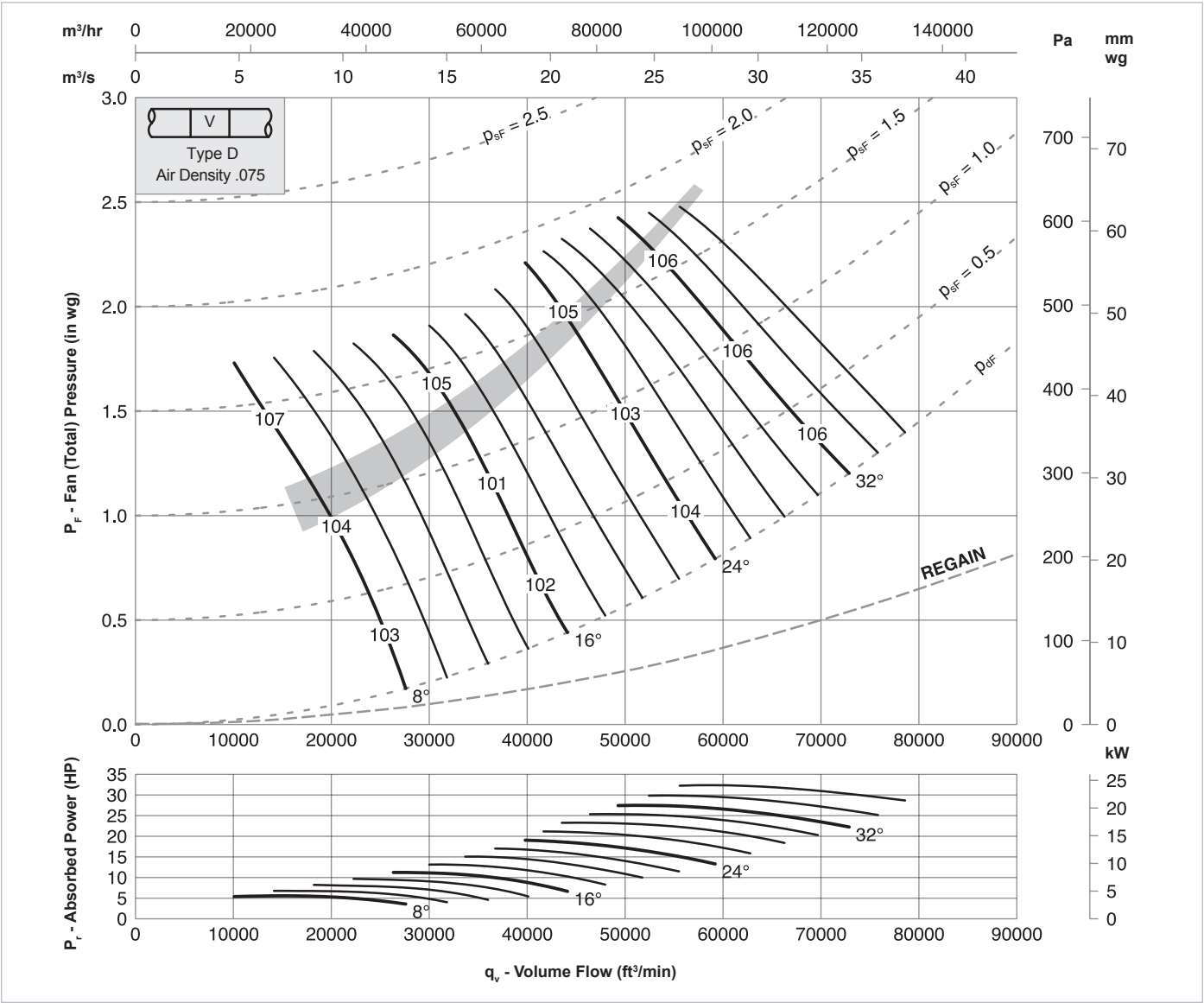
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-10	-2	-4	-9	-15	-25
	-15	-11	-12	-6	-5	-3	-8	-21
16°	-4	-7	-10	-6	-7	-9	-10	-17
	-8	-7	-9	-9	-7	-5	-9	-18
24 - 36°	-3	-4	-7	-7	-8	-11	-14	-14
	-3	-4	-6	-6	-8	-11	-13	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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 Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 54 / 50 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-10	-9	-4	-7	-12	-17	-27
	-13	-10	-11	-5	-6	-8	-12	-25
16°	-13	-11	-7	-4	-8	-13	-19	-24
	-9	-6	-9	-8	-9	-9	-12	-20
24 - 36°	-7	-5	-9	-8	-11	-14	-16	-18
	-6	-5	-9	-9	-12	-14	-16	-19

Outlet Levels

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

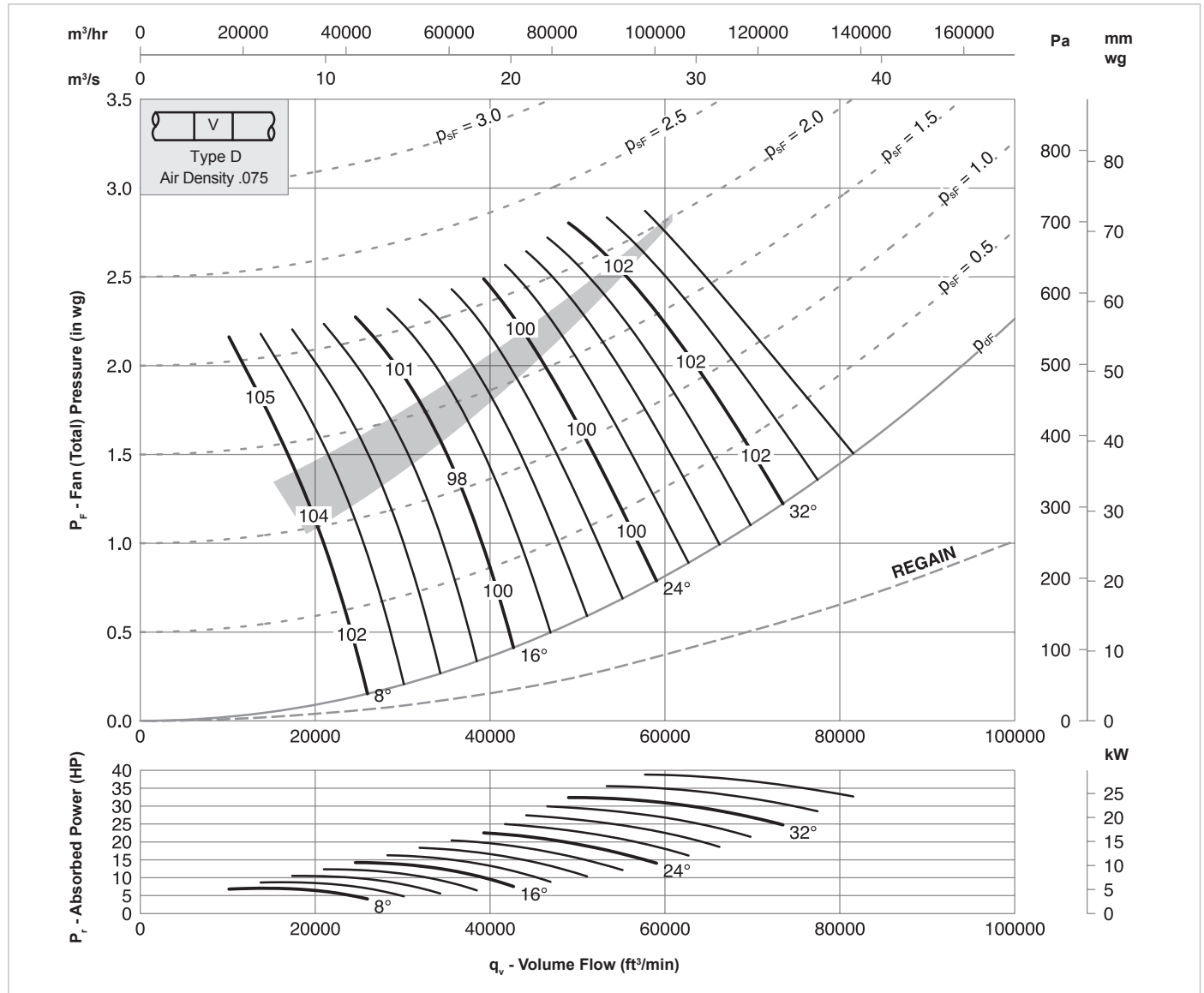
End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

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VXDA 54 / 50 / 875 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-17	-9	-10	-4	-6	-13	-19	-29
	-19	-13	-12	-6	-6	-7	-11	-23
16°	-16	-13	-7	-3	-8	-15	-23	-27
	-11	-7	-12	-9	-8	-7	-11	-20
24 - 36°	-5	-6	-10	-8	-9	-13	-16	-16
	-7	-6	-10	-8	-9	-11	-15	-20

Outlet Levels

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

End Reflection (dB)

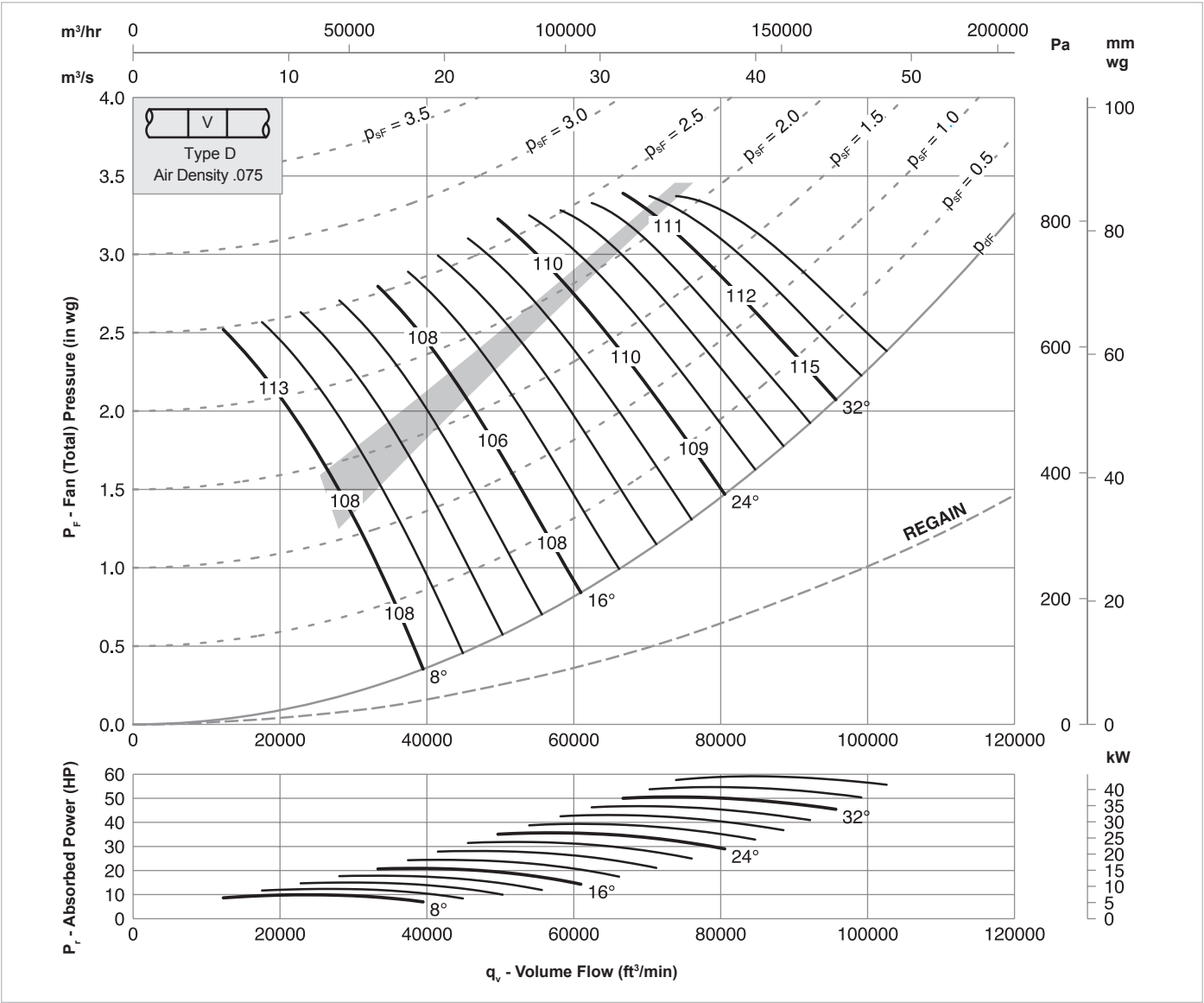
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 54 / 40 / 1170 / 6



Inlet Levels

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

Outlet Levels

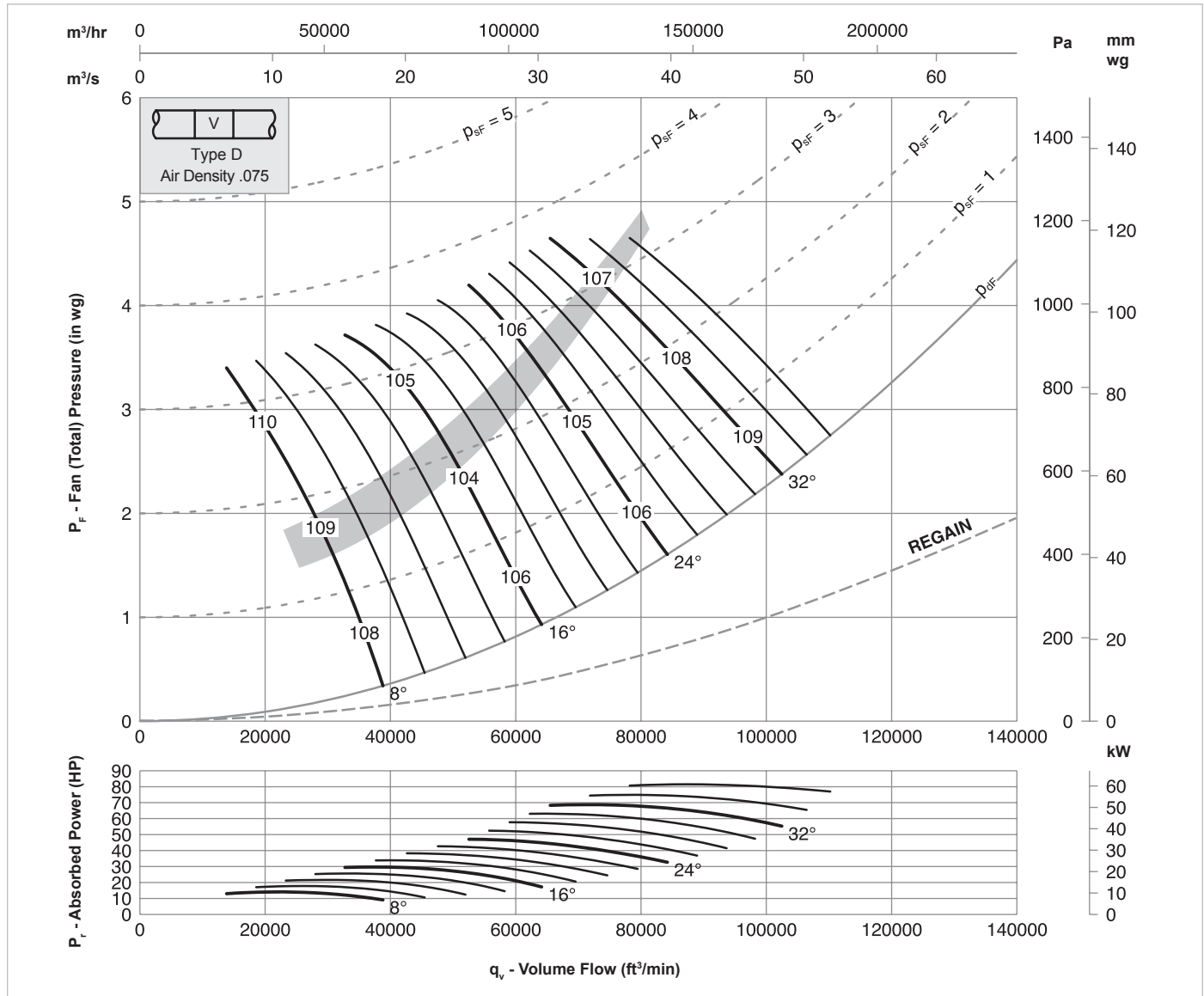
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-13	-14	-12	-4	-4	-8	-10	-21
	-11	-12	-11	-8	-5	-6	-6	-18
16°	-10	-11	-10	-5	-4	-11	-14	-20
	-4	-6	-7	-9	-10	-10	-8	-17
24 - 36°	-5	-6	-6	-6	-8	-11	-13	-15
	-6	-6	-6	-7	-10	-12	-13	-16

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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VXDA 54 / 40 / 1170 / 9



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-13	-12	-4	-3	-7	-12	-23
	-15	-11	-13	-8	-5	-5	-5	-17
16°	-3	-7	-11	-8	-6	-9	-8	-16
	-8	-7	-11	-9	-8	-6	-6	-15
24 - 36°	-2	-4	-8	-7	-8	-10	-13	-14
	-2	-3	-7	-6	-8	-10	-11	-16

End Reflection (dB)

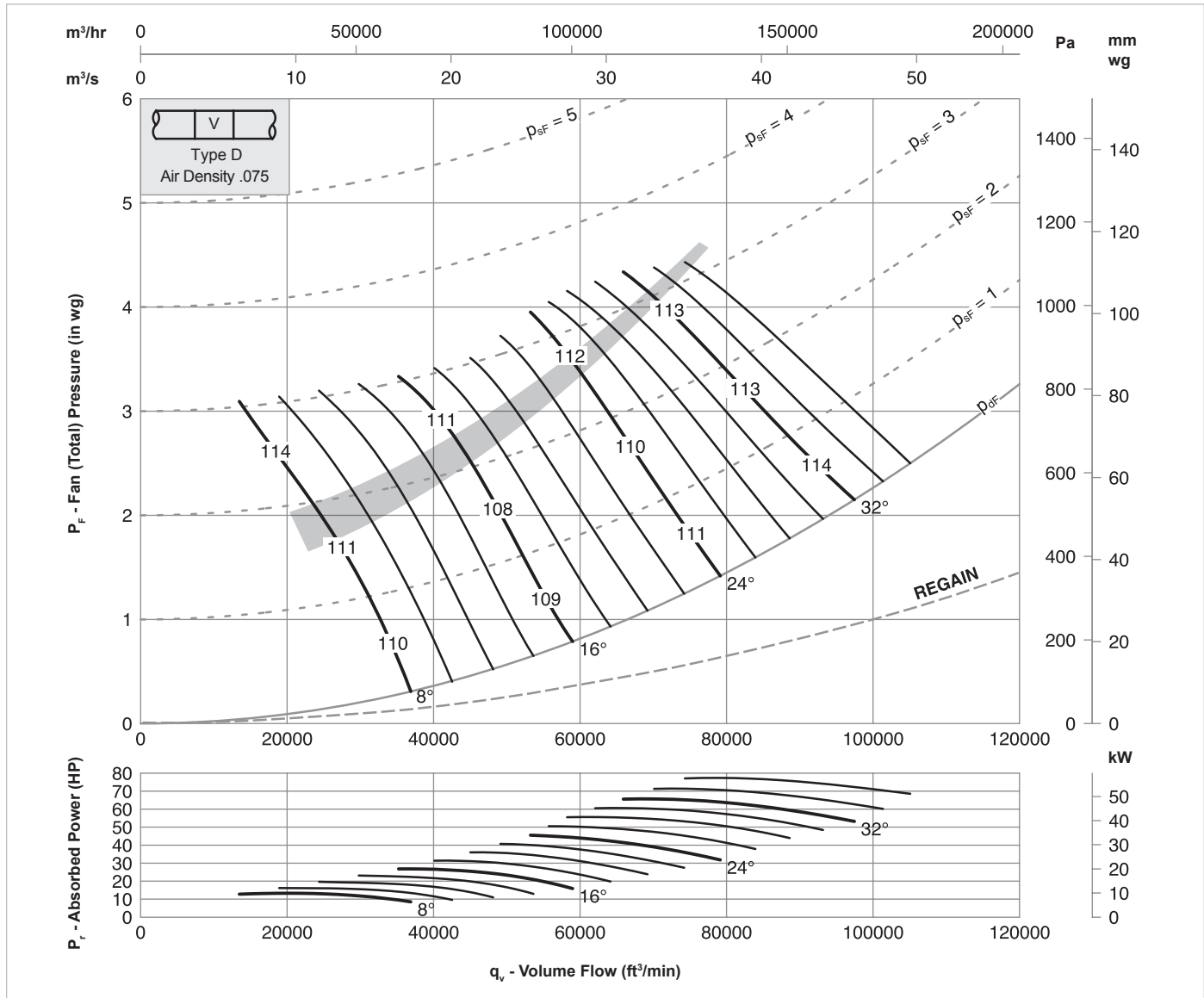
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 54 / 50 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-11	-10	-5	-5	-10	-14	-24
	-13	-11	-11	-7	-5	-8	-9	-20
16°	-13	-12	-10	-4	-6	-11	-16	-22
	-8	-8	-7	-9	-9	-9	-10	-18
24 - 36°	-7	-5	-7	-10	-12	-14	-15	-18
	-6	-5	-7	-10	-12	-14	-15	-18

Outlet Levels

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

End Reflection (dB)

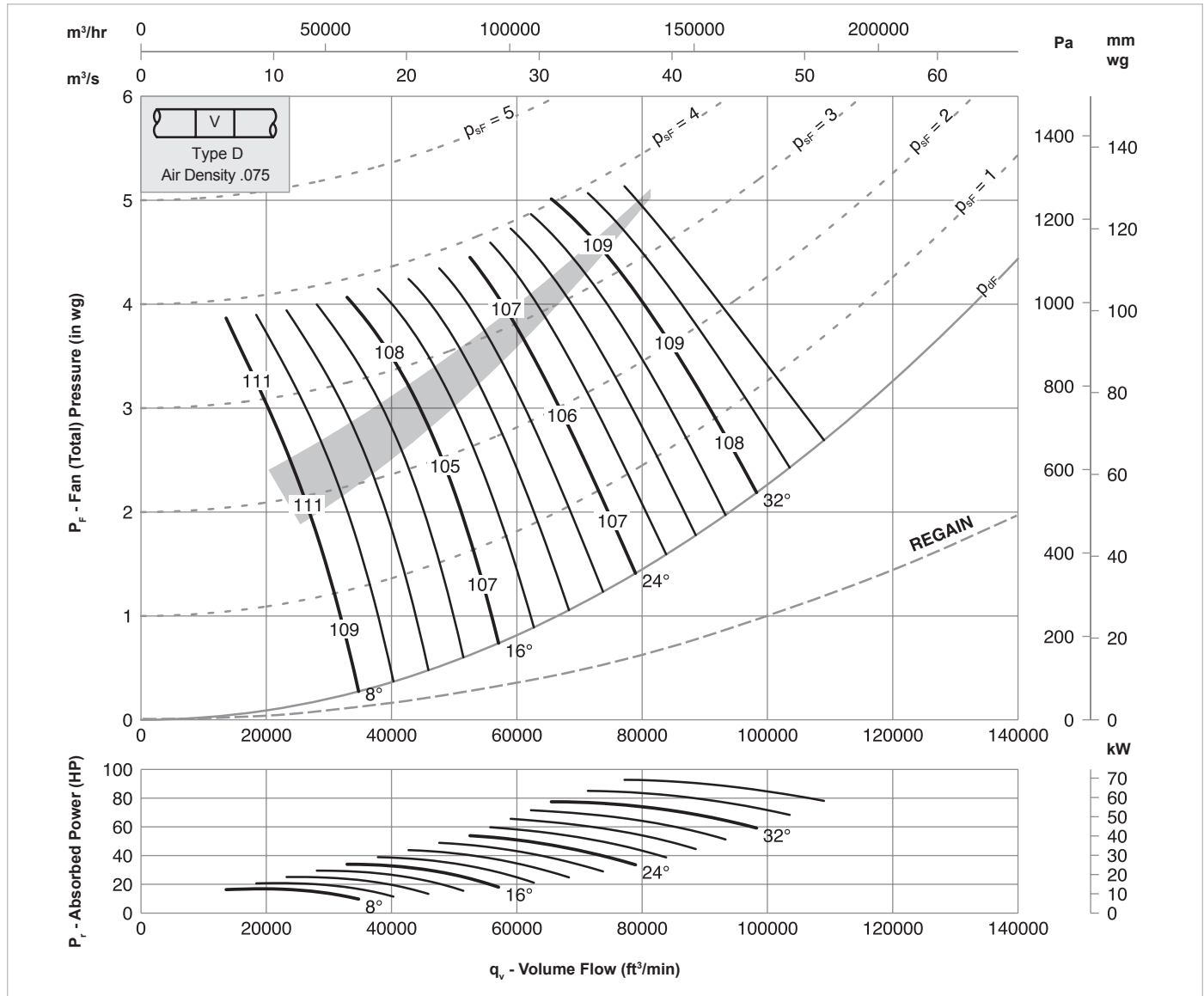
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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VXDA 54 / 50 / 1170 / 12



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-15	-12	-6	-5	-4	-8	-14	-25
	-16	-15	-10	-7	-3	-4	-16	-18
16°	-12	-14	-8	-3	-4	-11	-17	-25
	-6	-10	-4	-9	-8	-7	-5	-16
24 - 36°	-2	-5	-5	-9	-8	-12	-15	-17
	-3	-6	-4	-8	-8	-11	-12	-18

End Reflection (dB)

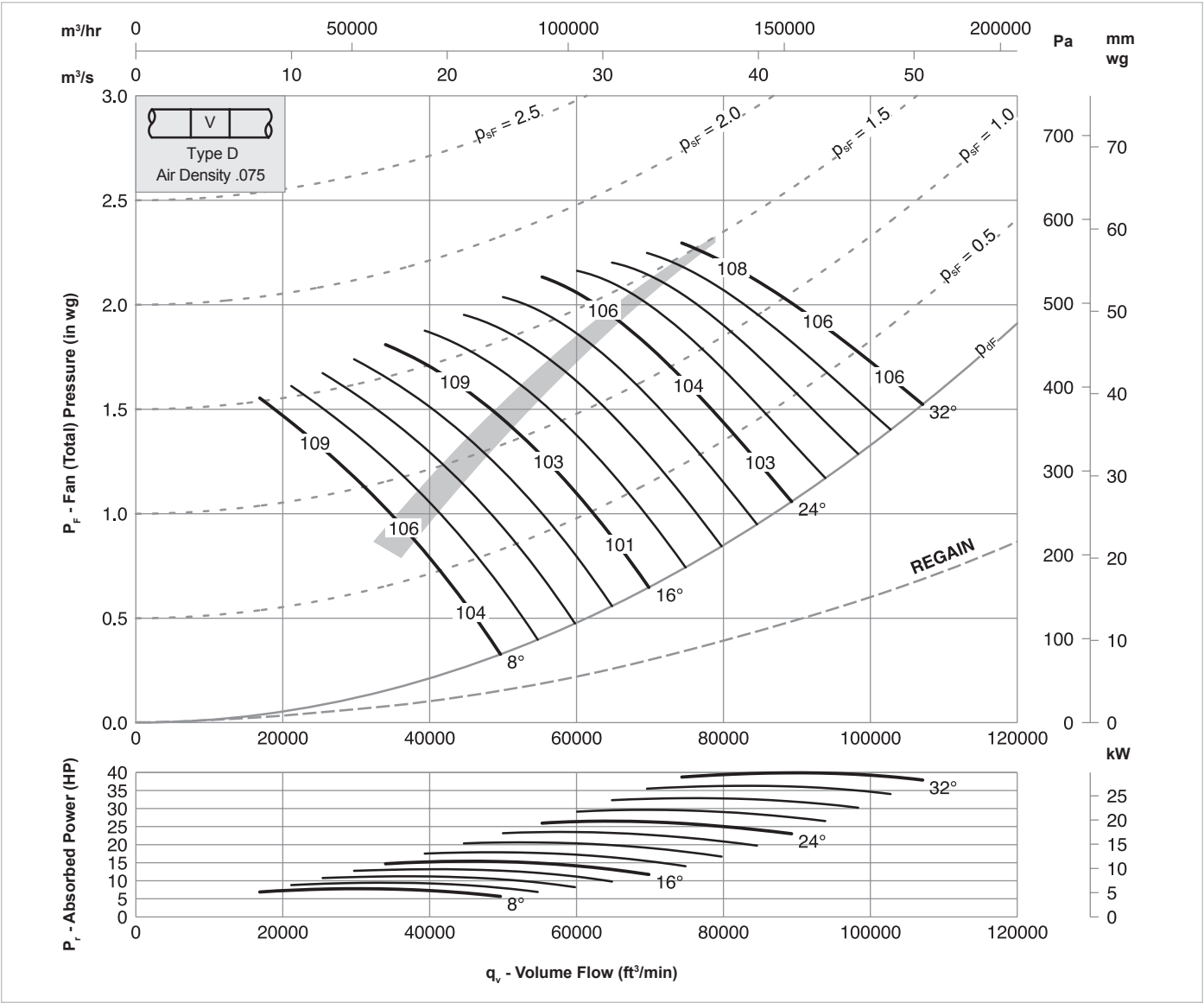
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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VXDA 62 / 40 / 875 / 6



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-14	-7	-4	-8	-14	-17	-27
	-17	-14	-13	-7	-4	-7	-9	-21
16°	-15	-14	-11	-4	-5	-9	-13	-16
	-11	-9	-10	-8	-7	-8	-9	-14
24 - 32°	-13	-8	-7	-6	-9	-14	-17	-19
	-9	-8	-9	-8	-8	-10	-12	-13

Outlet Levels

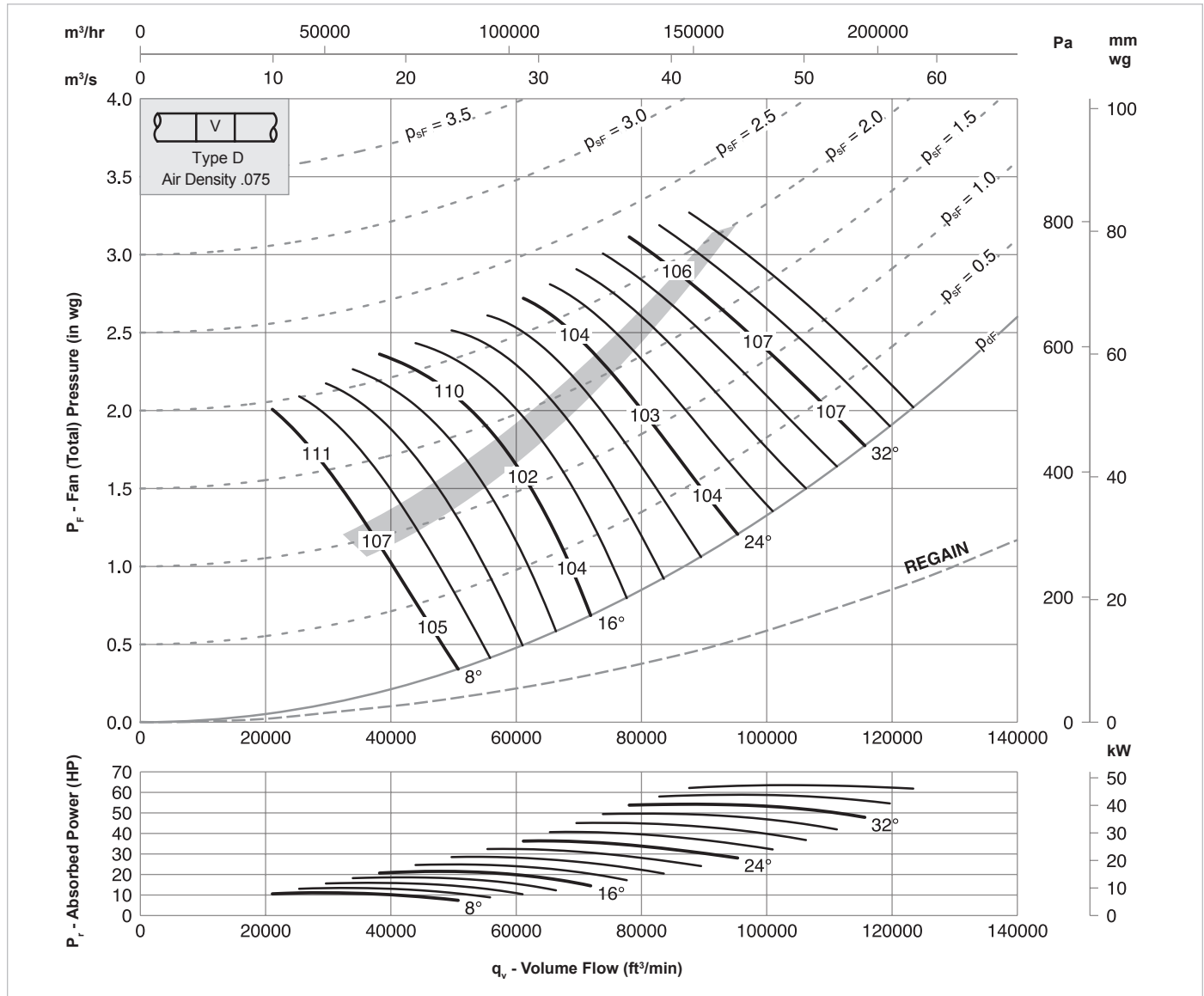
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-12	-6	-3	-7	-12	-16	-23
	-14	-12	-12	-6	-4	-6	-8	-19
16°	-12	-13	-11	-4	-5	-9	-11	-15
	-8	-8	-9	-7	-7	-8	-8	-13
24 - 32°	-10	-7	-6	-4	-8	-12	-15	-17
	-6	-6	-7	-6	-8	-9	-10	-11

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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VXDA 62 / 40 / 875 / 9



Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-14	-8	-1	-6	-13	-17	-26
	-17	-11	-13	-5	-3	-6	-9	-20
16°	-15	-14	-9	-3	-6	-12	-15	-20
	-9	-4	-9	-10	-8	-7	-7	-14
24 - 36°	-5	-7	-8	-7	-6	-8	-10	-11
	-4	-4	-7	-7	-7	-9	-9	-12

End Reflection (dB)

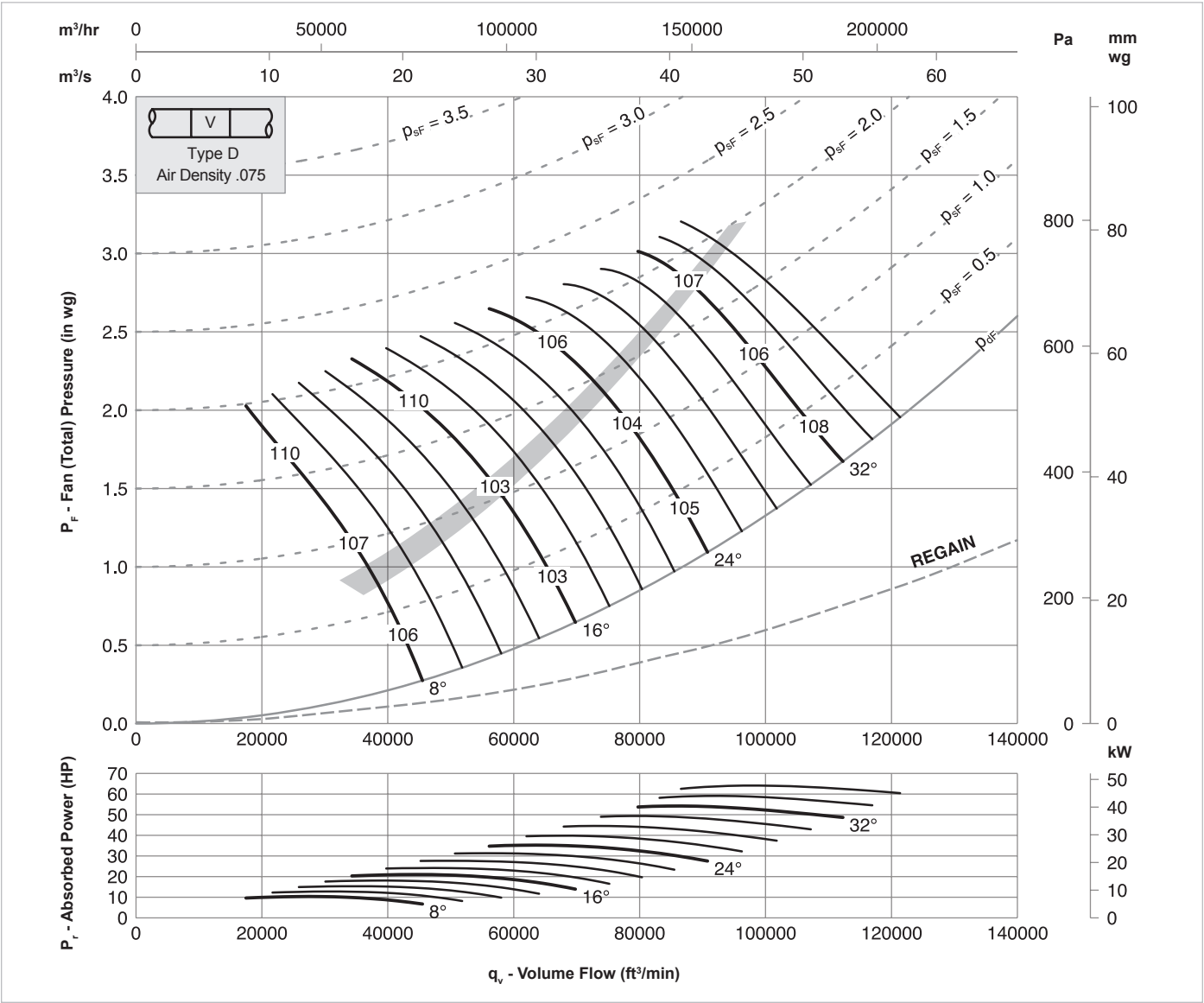
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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VXDA 62 / 50 / 875 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-12	-7	-4	-7	-13	-15	-25
	-19	-16	-13	-7	-5	-7	-8	-23
16°	-18	-12	-6	-4	-8	-14	-19	-23
	-11	-9	-10	-9	-8	-7	-8	-18
24 - 36°	-11	-9	-8	-5	-7	-11	-15	-16
	-8	-7	-9	-8	-9	-10	-12	-14

Outlet Levels

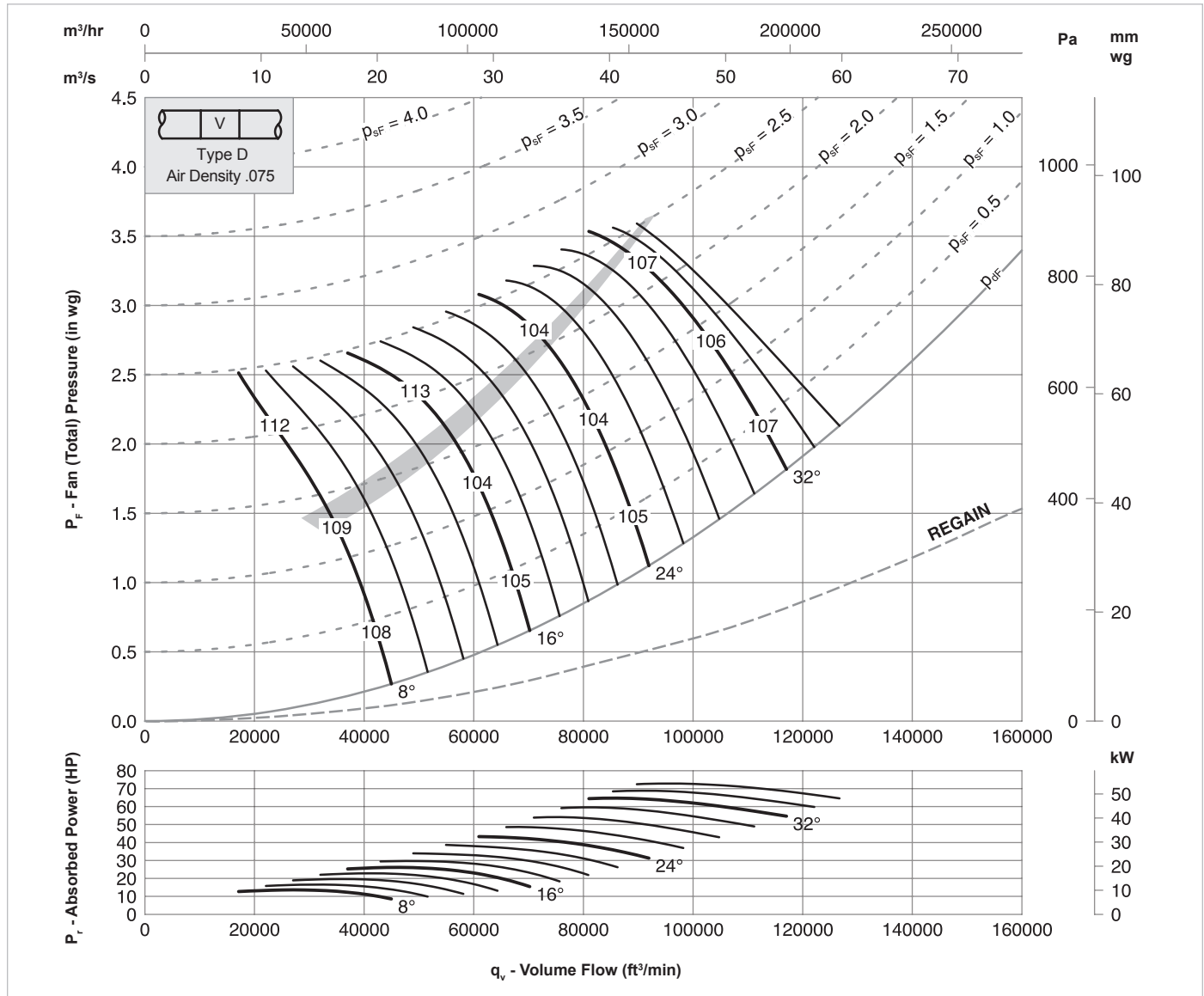
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-9	-6	-3	-6	-11	-14	-23
	-16	-12	-13	-6	-4	-6	-7	-21
16°	-14	-9	-5	-3	-7	-13	-17	-22
	-8	-6	-8	-7	-7	-5	-7	-17
24 - 36°	-9	-7	-7	-4	-6	-10	-14	-15
	-6	-4	-7	-7	-8	-9	-11	-13

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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VXDA 62 / 50 / 875 / 12



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-22	-13	-8	-2	-9	-14	-17	-27
	-22	-15	-14	-5	-5	-8	-10	-24
16°	-17	-15	-12	-4	-5	-10	-13	-21
	-13	-10	-13	-9	-7	-6	-6	-17
24 - 36°	-10	-11	-8	-6	-7	-10	-14	-15
	-7	-8	-10	-8	-8	-9	-11	-15

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-10	-8	-2	-8	-12	-15	-26
	-19	-13	-13	-5	-3	-5	-7	-22
16°	-14	-12	-11	-4	-4	-9	-11	-20
	-10	-7	-12	-10	-7	-5	-3	-14
24 - 36°	-7	-7	-6	-5	-6	-10	-12	-14
	-3	-4	-8	-7	-7	-9	-10	-14

End Reflection (dB)

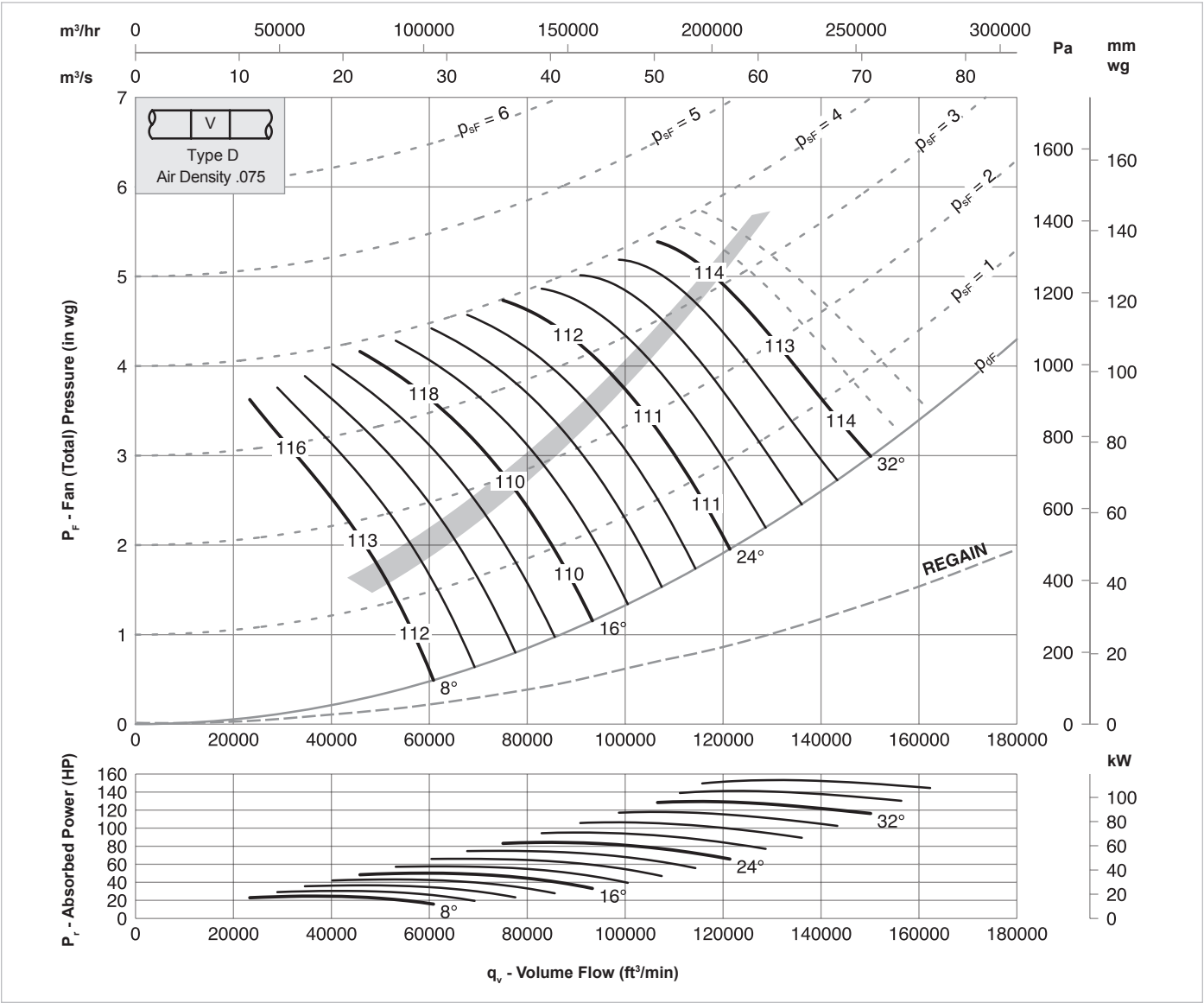
63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

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Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

VXDA 62 / 50 / 1170 / 9



Inlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-19	-14	-9	-4	-5	-10	-13	-21
	-19	-17	-14	-10	-5	-6	-6	-17
16°	-17	-14	-8	-4	-6	-11	-16	-21
	-11	-11	-9	-9	-8	-7	-6	-15
24 - 36°	-11	-12	-8	-5	-7	-9	-14	-15
	-8	-9	-7	-8	-9	-9	-11	-13

Outlet Levels

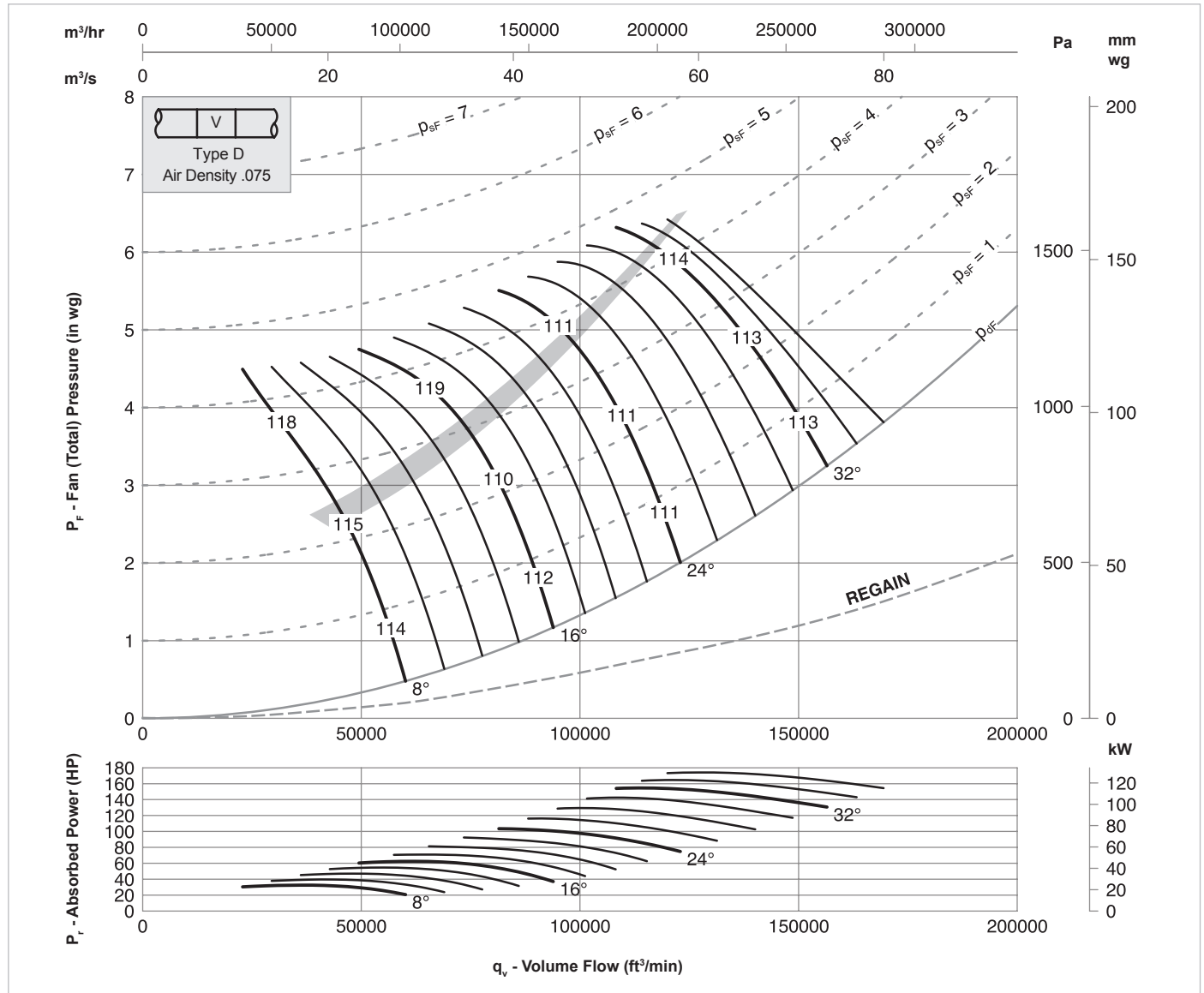
Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-16	-11	-8	-3	-5	-9	-13	-20
	-16	-14	-13	-9	-4	-5	-5	-15
16°	-14	-12	-7	-3	-5	-10	-15	-20
	-8	-8	-7	-8	-8	-6	-5	-14
24 - 36°	-8	-9	-7	-5	-6	-8	-13	-14
	-5	-7	-5	-7	-8	-8	-10	-12

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

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Inlet Levels

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

Outlet Levels

Pitch Angle	Octave Band Center Frequency (Hz)							
	63	125	250	500	1k	2k	4k	8k
8°	-20	-15	-8	-3	-4	-10	-13	-22
	-19	-18	-11	-7	-13	-4	-5	-16
16°	-13	-16	-11	-6	-3	-7	-9	-17
	-9	-13	-7	-11	-7	-6	-2	-10
24 - 36°	-6	-9	-7	-6	-6	-8	-11	-13
	-3	-6	-5	-8	-8	-9	-9	-13

End Reflection (dB)

63	125	250	500	1k	2k	4k	8k
-3	-1	0	0	0	0	0	0

The AMCA Certified Ratings Seal applies to air performance ratings only.

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Sound Data: Single figures on performance curves are overall inlet sound power levels, derived from measurements taken in a 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.

ENGINEERING SPECIFICATIONS

VXDA

Fan shall be provided by PennBarry. Fan casings shall be made of heavy gauge steel with spun flanges and continuously welded seams. They shall be manufactured to stringent tolerance for roundness to assure proper blade tip clearance for optimal performance.

Motors shall be cast iron frame, pad-mounted design suitable for horizontal through vertical operation. Motors shall be 3 phase premium efficiency (or 1 phase standard efficiency) totally enclosed air over design with 1.15 service factor. All motor efficiency testing and labeling shall be done in accordance with NEMA MG1-12.53 standard. Insulation shall be class F with class B rise. Bearings shall be grease lubricated anti-friction ball or roller type with 30,000 hours L-10 life minimum.

Impeller shall consist of high pressure die cast aluminum airfoil blades, hub, and clampplate with fully adjustable blade pitch angle. All impeller components are to be X-ray examined to ASTM E-155 prior to machining to assure casting integrity and quality. Impellers shall be precision balanced as a component and then further balanced as a fan assembly to minimize vibration levels and assure smooth operation.

Motor supports shall be heavy gauge steel and bolted to the fan casing and the motor to assure the concentricity of the motor to the fan casing.

Finish of fan assembly shall consist of high-pressure cleaning, application of 1 coat of primer and 1 coat of enamel paint. Dry film thickness (DFT) shall be 2.5 mils minimum.

Fans shall be licensed to bear the AMCA Seal. Ratings shall be based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Fan manufacturer shall be certified to ISO 9001 quality system standards.



PennBarry Product Solutions

COMMERCIAL

Roof & Wall Exhaust Centrifugal Fans
Ceiling, Wall, & Inline Centrifugal Fans
Roof Supply Centrifugal Fans
Square & Round Centrifugal Fans
Wall Mounted Axial Fans
Hooded Roof Axial Fans
Upblast Roof Axial Fans
Gravity Ventilators
Roof Curbs

INDUSTRIAL

Utility Vent Sets
Freestanding Centrifugal Fans
Industrial & Material Handling Fans
Tubular Centrifugal Inline Fans
Mixed Flow Centrifugal Fans
Plug & Plenum Fans
Wall Mounted Propeller Fans
Tube Axial Fans
Vane Axial Fans
Bifurcator Fans
Fume Exhaust

ENERGY RECOVERY

Outdoor Units
Indoor Units

KITCHEN VENTILATION

Kitchen Hoods
Make-Up Air Units
Exhaust Fans



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PennBarry is proud to be your preferred manufacturer of commercial and industrial fans and blowers. Learn how PennBarry can assist you in your next application by contacting your PennBarry Representative or visiting us on the web at www.pennbarry.com.

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