

AXIAL FAN

MODEL: AAOM & SAOM

DLK[®]

VENTILATOREN



DLK VENTILATOREN SDN BHD certifies that the AAOM and SAOM series shown herein are licensed to bear the AMCA Seal.

The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

[Product Brochure](#)

AAOM & SAOM Series

Introduction

DLK Asia has developed an agile and engineered product line to tackle ventilation at volumes large, small, dusty, roofed, and more. This is accomplished with our AAOM & SAOM models, letting the series meet your every purpose.

With this product lineup we can effectively provide extraction with ranges 360m³/hr - 216,000m³/hr, with static pressure rated for 1000 Pa.

Features

- Versatile Application
- Quality Construction
- Modularized Components
- GRN/ALU Blade Material
- Anti-static GRN
- Specialized Three-phase Motor
- Third Party Certificate on BS 7346, part 2: BS 1990 for Smoke Spill Application

Technologies

Impeller

Our line offer impeller blades constructed in either material: Glass Reinforced Nylon (GRN) and Aluminium (AL).

Glass Reinforced Nylon

Glass Reinforced Nylon 66 impellers boast greater strength, higher operating temperatures (-40°C to 150°C), and are able to operate at faster speeds (RPM).

Aluminium

Aluminium LM6 impellers offer the best solution for fume, and emergency smoke extraction (up to 400°C) in operating temperatures (-40°C to 200°C). Continuous operation is rated for -40°C to 200°C. Note, the maximum tip speed is 100m/sec.

Balancing

Fans and axial-impellers are balanced as per ISO Standard No. 1940 with a balancing grade of G2.5 and a Displacement Amplitude of 2.5mm/s

Casing Surface Finishing

Axial fan tube casing's surface use a paint – RAL 7030 via a powder coating method, with a coating thickness of 60µm. Thanks to this method we are able to produce fans with tube casings which appear with a “wrinkled” texture, providing increased protection against chemical and environmental wear.

Long case axial casings are rolled from 2.0mm to 5.0mm mild steel, a standard double-flanged L bracket mounting is provided, with a foot mounted support as an option. Tube casing comes with a standard view port and an access door can be requested as a further option.

Electric Motor

Our model uses a standard three phase motor (TEFC), foot mounted insulation is in accordance with IEC standard EN 60034, Enclosure IP55, with insulation Class “F”.

Reversed Airflow

Our series achieves a reversed air flow direction by reversing the direction of rotation, the impact on performance in this mode is as follows:

Volume Reduction: -40%

Pressure Reduction: -50%

Power Reduction: -35%

Performance for reversed airflow is not certified by AMCA.

Improved Reversible Airflow

For improved performance with reversed airflow: every other blade ought to be set in the opposite direction of flow, the new impact on performance in this mode is as follows:

Volume Reduction: -20%

Pressure Reduction: -35%

Power Reduction: -30%

Performance for improved reversed airflow is not certified by AMCA.

Contra-Rotating

A multi-stage axial fans with contra-rotating impellers are further options. A two stage contra-rotating assembly develops approximately 2.5 times the pressure developed by a single stage fan and increases the overall sound level by 8-10 dB.

To select a contra-rotating axial, divide the static pressure by 2.5 and select as though it was a single stage unit. The kW figure is for one stage only and should multiply 2 to the system.

Performance for contra-rotating is not certified by AMCA

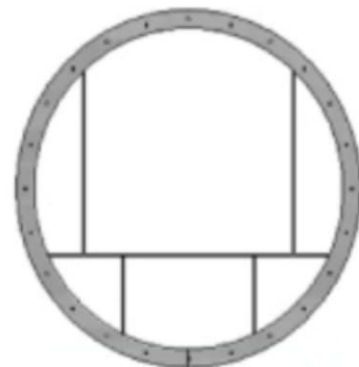
Casing Dimensions



0315-0560

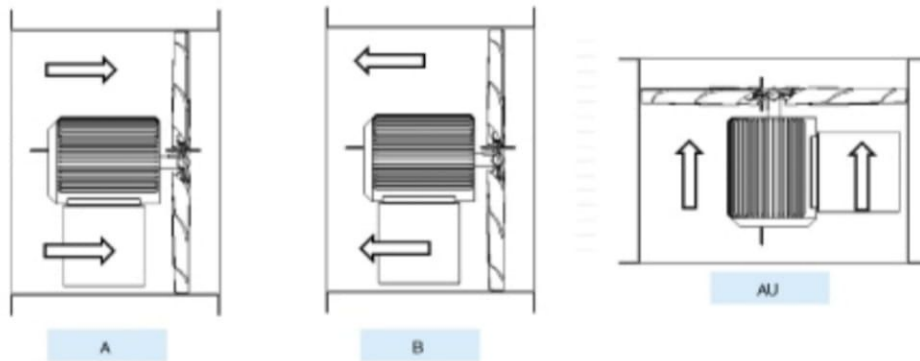


0630-1600(≤FS200)



1120-1600(≤FS200)

Standard Arrangement



A = From motor to impeller

B = From impeller to motor

AU = From the motor to the impeller, up position

Form A and AU are not licensed by AMCA

Air Performance

Our series air performance ratings are derived from performance tests made with installation type “D” with a ducted inlet and outlet. These tests were carried out in accordance with DIN EN ISO 5801 and DIN 24166 with accuracy class 2. Ratings refer to standard air density.

Fan Balancing

Our Fan Balancing quality assurance is performed under DIN EN ISO 21940-11 grade G2.5

AAOM Series

Uses

Our **AAOM** series is the perfect solution when moving large volumes of stagnant air is your problem. Designed for use in general ventilation as well as large volume drying processes.



AAOM CAD DESIGN

Build

The build includes a heavy-gauge steel casing structure and a powder coated bake enamel finishing with the the option of galvanized steel.

Our high-efficiency impeller is made of adjustable pitch aerofoil blade: available in ALU or GRN type. Further options include foot mounting & hot-dipped galvanized casing.

Operating Temperature

The operating temperatures differs depending on your choice of GRN and ALU impeller types:

GRN: -40°C to 150°C

ALU: -40°C to 200°C

Motor

Three-phase motor which is "Totally Enclosed Fan Cooled" (TEFC), horizontal foot mounted Squirrel Cage Induction Motor, featuring a class F insulation.

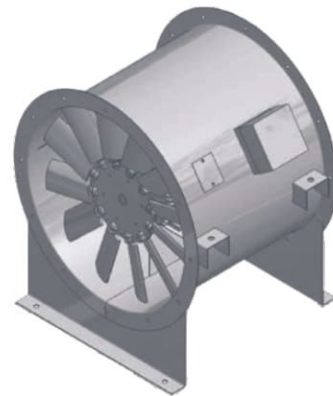
Voltage supply of 400V/50Hz or 440V/60Hz.

All motors comply with standard IEC 60034 and BS 4999.

SAOM Series

Uses

Our SAOM incorporates the best in general ventilation but specializes for medium pressure and heavier particulates. Perfect for cases such as smoke extraction and removal of heavy particulates



SAOM CAD DESIGN

Build

The build includes a heavy-gauge steel casing structure and a powder coated bake enamel finishing with the the option of galvanized steel.

Our high-efficiency impeller is made of adjustable pitch aerofoil blade: available in ALU or GRN type. Further options include foot mounting & hot-dipped galvanized casing.

Operating Temperature

Operating temperature differs between GRN and ALU impeller types:

GRN: -40°C to 150°C

ALU: -40°C to 200°C

Motor

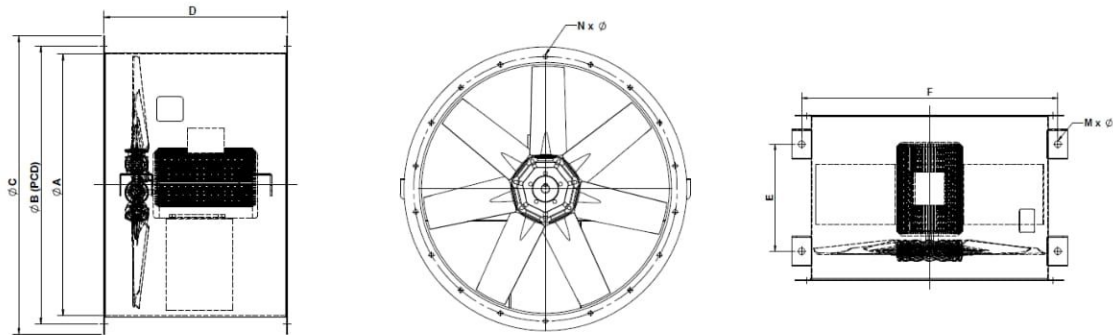
Three-phase motor which is "Totally Enclosed Air Over" (TEAO), with a horizontal foot mounted Squirrel Cage Induction Motor, featuring a class H insulation.

Voltage supply of 400V/50Hz or 440V/60Hz.

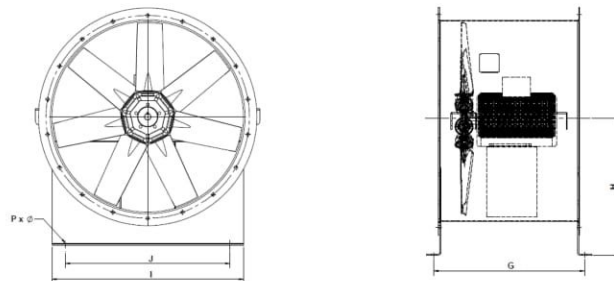
All motors comply with standard IEC 60034 and BS 4999.

Specification

Hanger



Mounting Feet (Optional)



Dimensions Reference

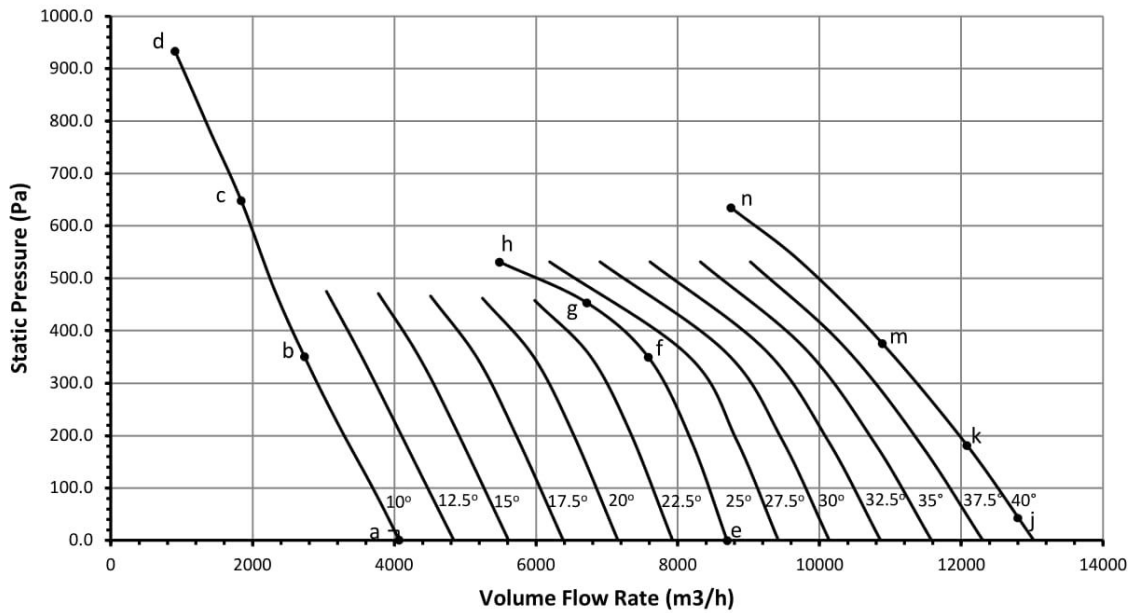
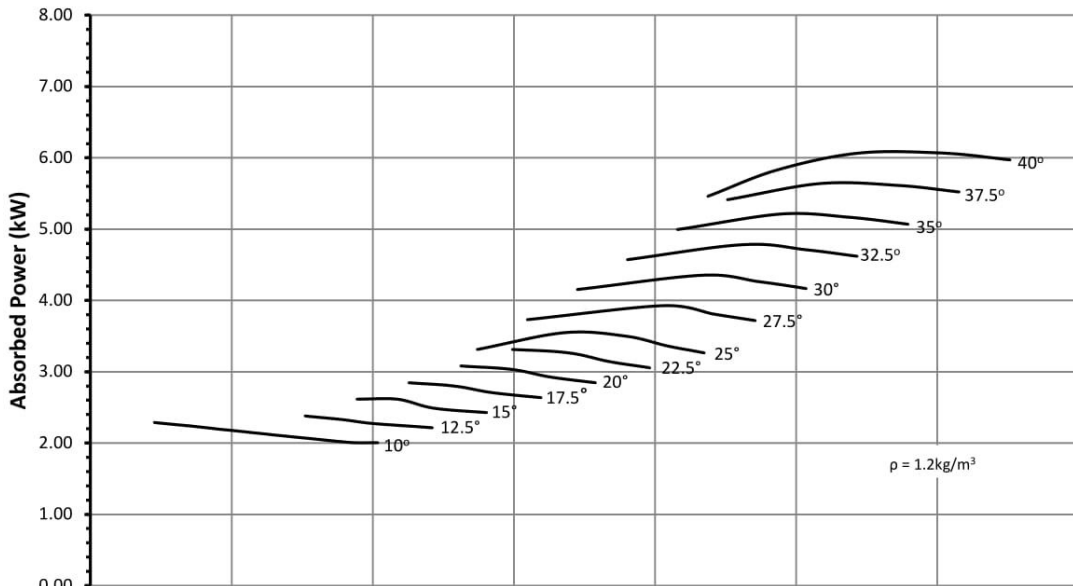
MODEL	øA	øB(PCD)	øC	D	N x ø	E	F	M x ø	G	H	I	J	P x ø	Frame
315	315	355	395	355	8 x 10	211	385	4 x 16	395	277.5	265	315	2 x 10	90
400	400	440	480	355	12 x 10	211	450	4 x 16	395	320	350	400	2 x 10	90
400	400	440	480	435	12 x 10	291	450	4 x 16	475	320	350	400	2 x 10	112
500	500	540	580	500	12 x 10	356	550	4 x 16	538	370	450	500	2 x 14	132
560	560	605	660	500	12 x 10	356	611	4 x 16	538	402.5	460	560	2 x 14	132
630	630	675	730	500	12 x 10	326	691	4 x 20	538	437.5	530	630	2 x 14	112
630	630	675	730	700	12 x 10	526	691	4 x 20	738	437.5	530	630	2 x 14	160
710	710	755	810	500	18 x 12	324	774	4 x 20	536	477.5	610	710	2 x 16	112
710	710	755	810	710	18 x 12	534	774	4 x 20	746	477.5	610	710	2 x 16	160
800	800	845	900	560	18 x 12	384	864	4 x 20	596	522.5	700	800	2 x 16	132
800	800	845	900	760	18 x 12	584	864	4 x 20	796	522.5	700	800	2 x 16	180
900	900	945	1000	630	18 x 12	454	964	4 x 20	666	592.5	800	900	2 x 16	132
900	900	945	1000	820	18 x 12	644	964	4 x 20	856	592.5	800	900	2 x 16	200
1000	1000	1045	1100	630	24 x 12	454	1065	4 x 20	666	672.5	900	1000	2 x 16	160
1000	1000	1045	1100	800	24 x 12	624	1065	4 x 20	836	672.5	900	1000	2 x 16	200
1120	1120	1185	1250	900	24 x 12	724	1185	4 x 20	936	742.5	1020	1120	2 x 16	225
1120	1120	1185	1250	1150	24 x 12	974	1185	4 x 20	1186	742.5	1020	1120	2 x 16	280
1250	1250	1315	1380	1000	24 x 12	794	1324	4 x 25	1084	807.5	1050	1250	3 x 20	250
1250	1250	1315	1380	1150	24 x 12	974	1324	4 x 25	1234	807.5	1050	1250	3 x 20	280

Performance Curve

AAOM 400-160-10B
SAOM 400-160-10B

60Hz 3456 rpm

Outlet Area: 0.127 m²



Ref	Full Octave Band Center Frequency								L _{WA}
	63	125	250	500	1K	2K	4K	8K	
a	112	112	111	108	98	94	91	88	108
b	112	112	112	110	96	92	89	87	109
c	112	112	112	109	95	91	89	87	108
d	112	112	112	109	96	91	90	87	108
e	108	108	108	105	95	91	91	90	105
f	108	108	108	108	95	92	91	90	107
g	113	113	114	119	98	92	90	88	116
h	111	111	111	115	96	91	90	88	113
j	111	111	111	106	95	95	93	90	107
k	111	111	111	107	95	94	93	90	107
m	112	112	111	107	95	94	93	90	107
n	116	116	116	116	98	94	93	90	115



Performance certified for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and L_{WA} sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

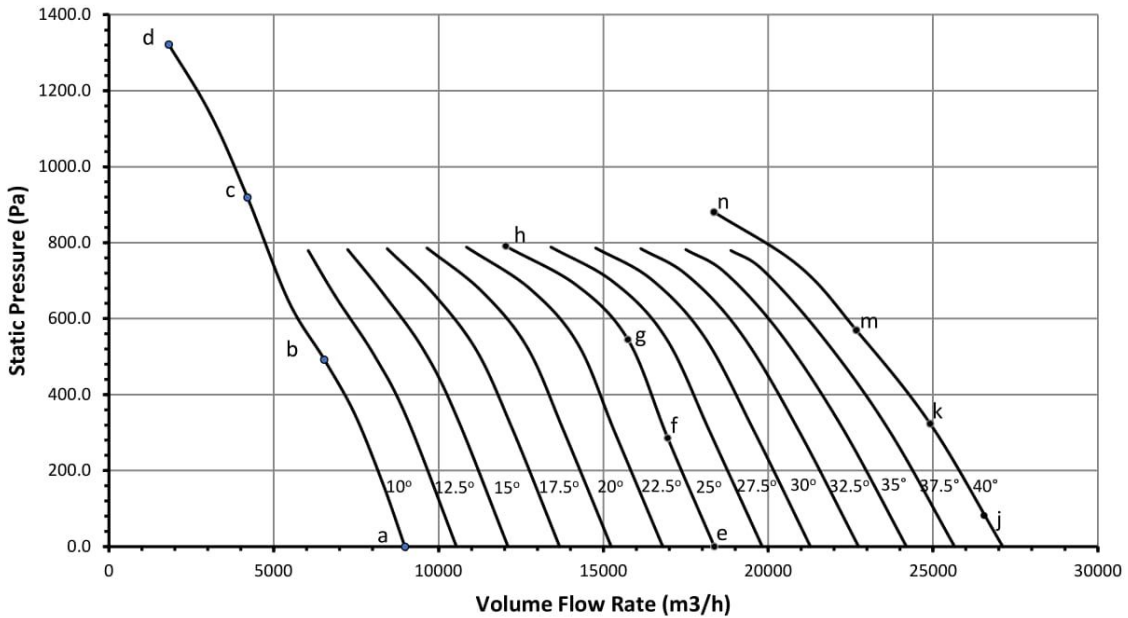
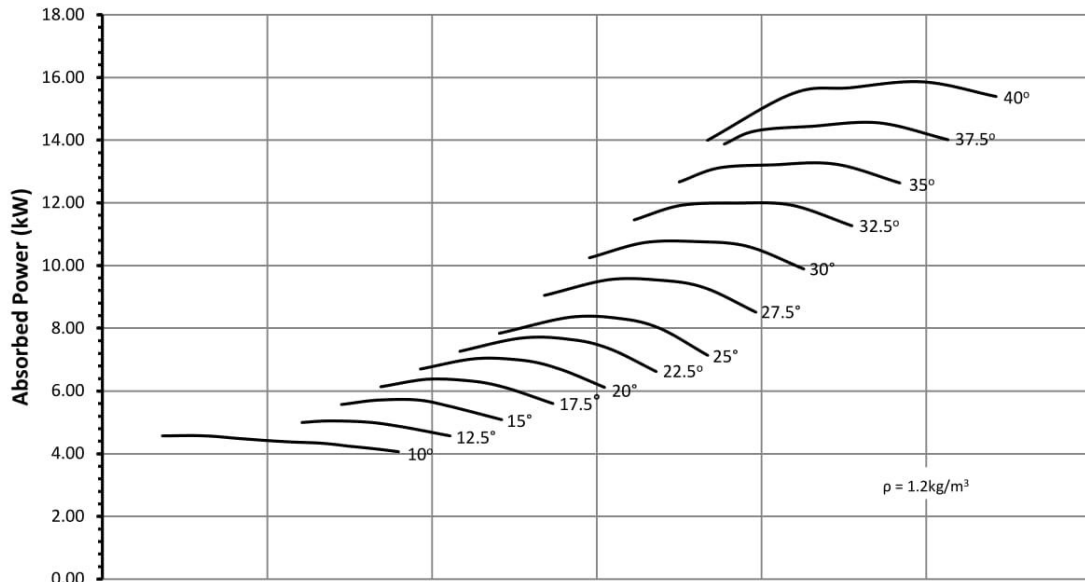
AAOM 500-160-10B

60Hz 3456 rpm

FEG 50

SAOM 500-160-10B

Outlet Area: 0.200 m²



Ref	Full Octave Band Center Frequency								L _W /A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	105	105	105	105	100	97	96	93	107
b	106	106	107	114	101	98	95	91	112
c	106	106	106	110	97	93	92	90	108
d	105	105	106	108	97	93	93	91	107
e	107	107	107	105	98	95	95	94	106
f	106	106	106	104	98	95	95	94	105
g	106	106	106	106	102	96	96	94	107
h	110	110	111	115	106	100	97	93	114
j	109	109	109	106	101	97	97	95	108
k	109	109	108	106	101	97	97	95	107
m	108	108	108	106	100	97	97	95	107
n	110	110	109	106	100	97	97	95	108



Performance certified is for Installation type D: Ducted Inlet- Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
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 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

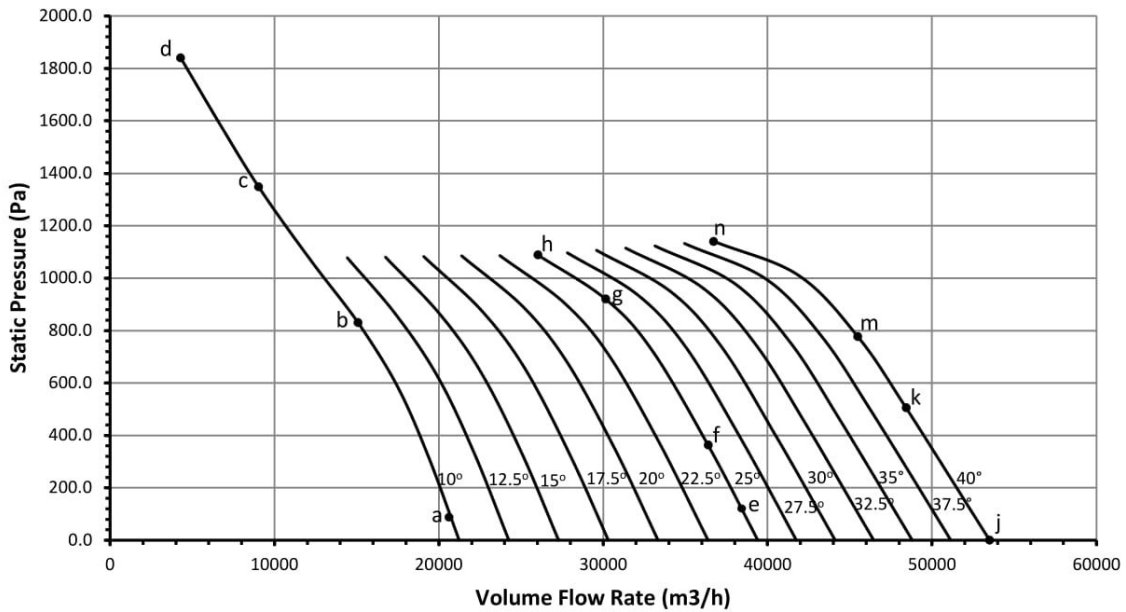
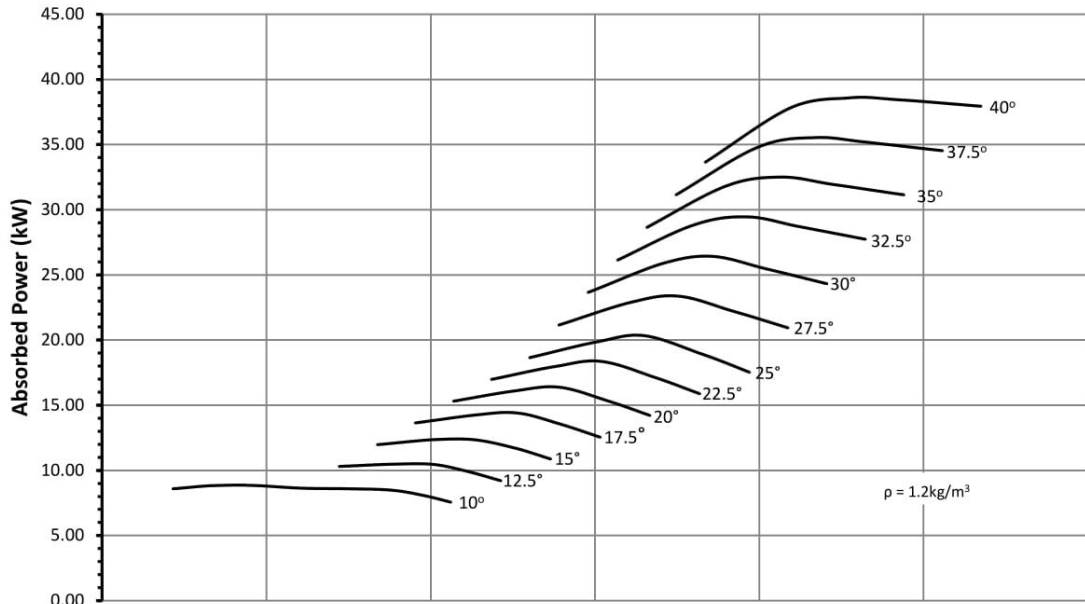
AAOM 630-160-10B

60Hz 3456 rpm

FEG 60

SAOM 630-160-10B

Outlet Area: 0.317 m²



Ref	Hz								L _w A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	109	109	109	107	103	101	100	99	110
b	110	110	110	112	107	106	101	98	113
c	108	108	109	115	100	98	97	95	113
d	110	110	110	110	102	101	99	97	110
e	114	114	113	110	105	102	100	99	112
f	112	112	112	110	104	101	100	99	111
g	112	112	112	112	110	106	104	101	115
h	113	113	113	114	115	108	105	101	118
j	118	118	118	113	109	105	102	100	115
k	117	117	116	113	107	104	102	100	114
m	116	116	115	113	108	104	102	101	115
n	122	122	121	111	104	100	97	93	115



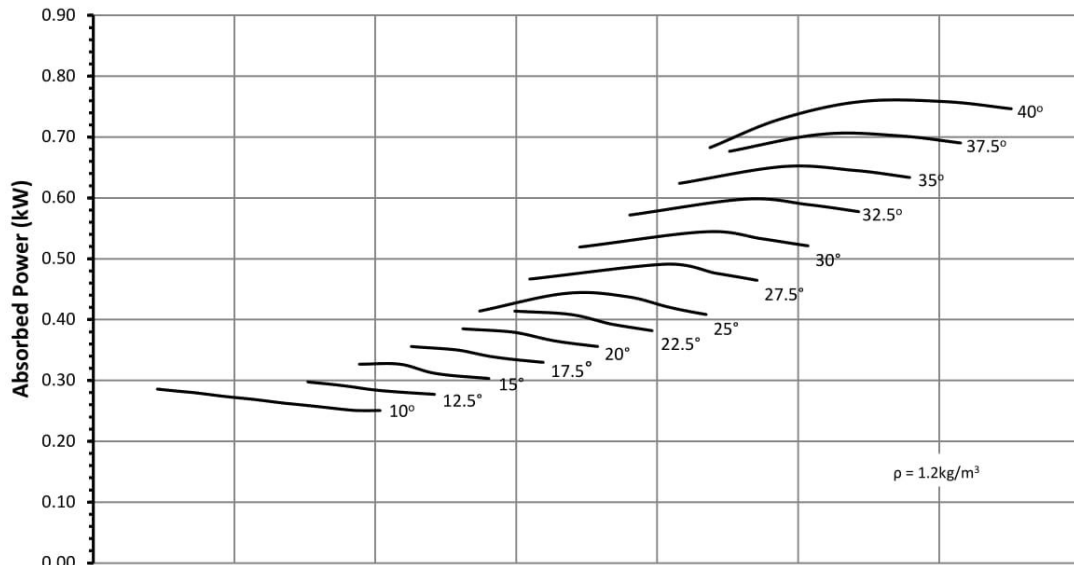
Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{wi} and L_{wA} sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

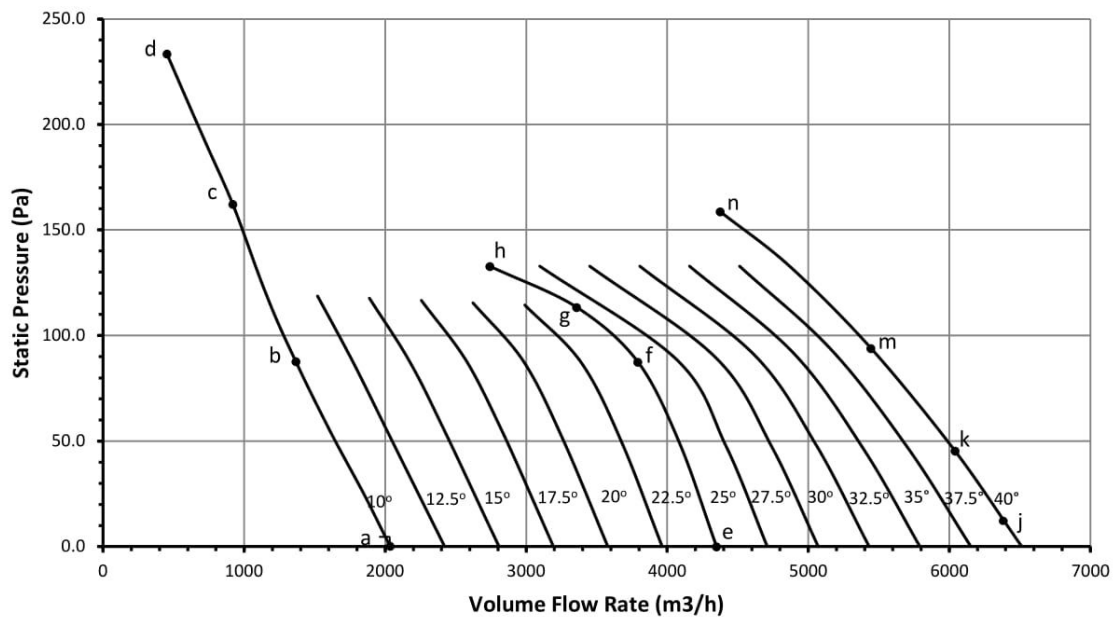
AAOM 400-160-10B
SAOM 400-160-10B

60Hz 1728 rpm

Outlet Area: 0.127 m²



$\rho = 1.2 \text{ kg/m}^3$



Ref	Full Octave Band Center Frequency								L _w A dB(A)
	Hz								
	63	125	250	500	1K	2K	4K	8K	
a	97	96	93	83	79	76	73	67	88
b	97	97	95	81	77	74	72	67	89
c	97	97	94	80	76	74	72	67	88
d	97	97	94	81	76	75	72	68	88
e	93	93	90	80	76	76	75	69	86
f	93	93	93	80	77	76	74	69	87
g	98	99	104	82	77	75	73	68	96
h	96	96	100	81	76	74	73	68	92
j	96	95	91	80	80	78	75	70	87
k	96	96	91	80	79	78	75	70	87
m	97	96	92	80	79	78	75	70	88
n	101	101	101	83	79	77	75	70	94



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
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Performance Curve

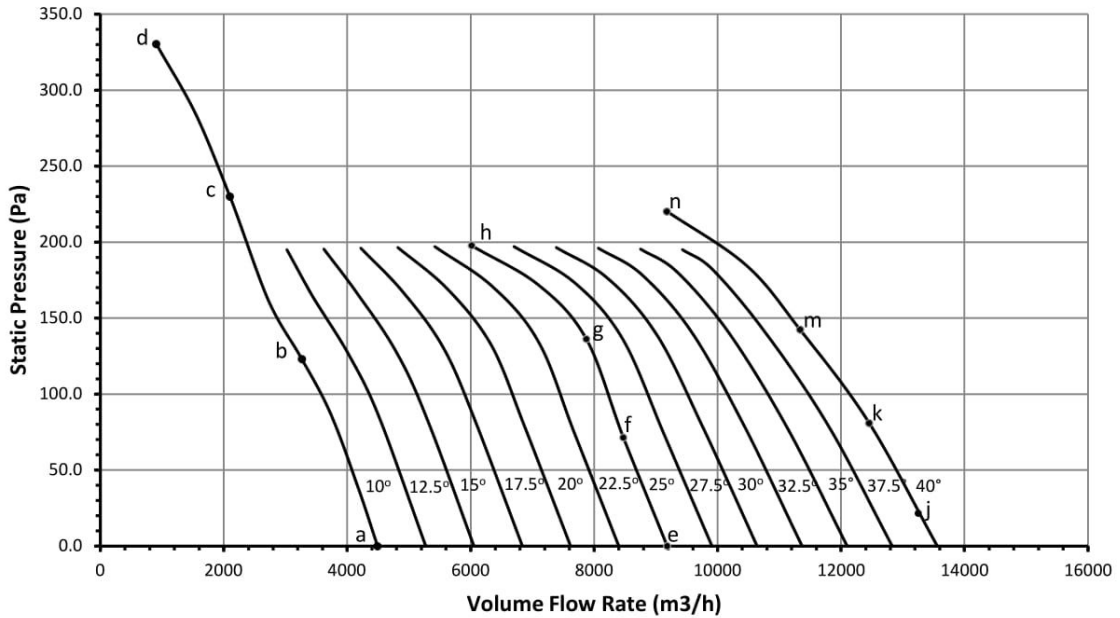
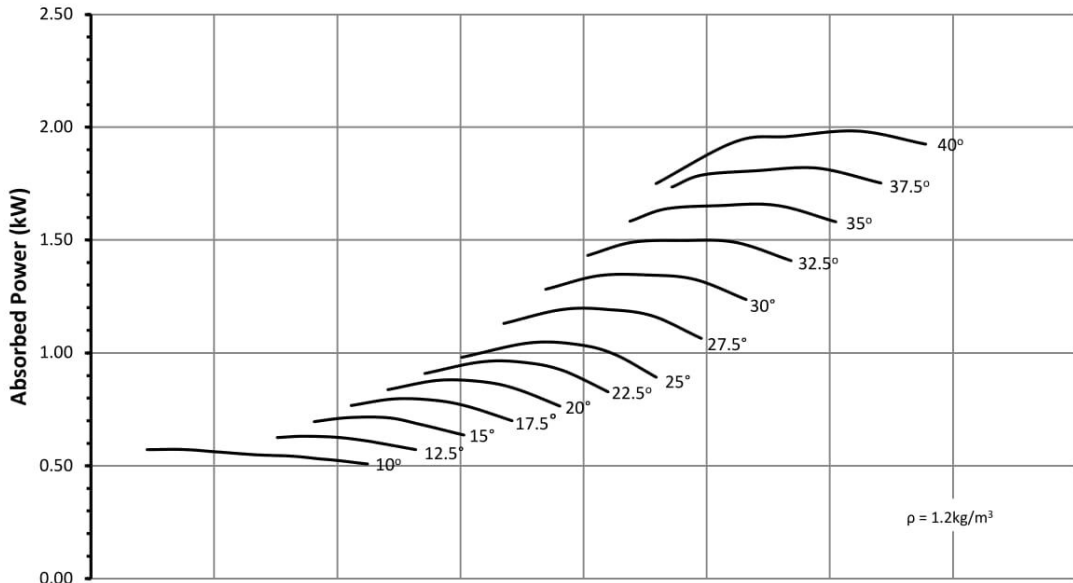
AAOM 500-160-10B

60Hz 1728 rpm

FEG 50

SAOM 500-160-10B

Outlet Area: 0.200 m²



Ref	Full Octave Band Center Frequency								L _W /A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	90	90	90	85	82	81	78	71	89
b	91	92	99	86	83	80	76	70	92
c	91	91	95	82	78	77	75	69	89
d	90	91	93	82	78	78	76	70	88
e	92	91	90	83	80	80	79	74	88
f	91	91	89	83	80	80	79	74	88
g	91	91	91	87	81	81	79	75	89
h	95	96	100	91	85	82	78	72	94
j	94	94	91	86	82	82	80	76	90
k	93	93	90	86	82	82	80	75	89
m	93	93	91	85	82	82	80	75	89
n	95	94	91	85	82	82	80	76	90



Performance certified is for Installation type D: Ducted Inlet- Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
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Performance Curve

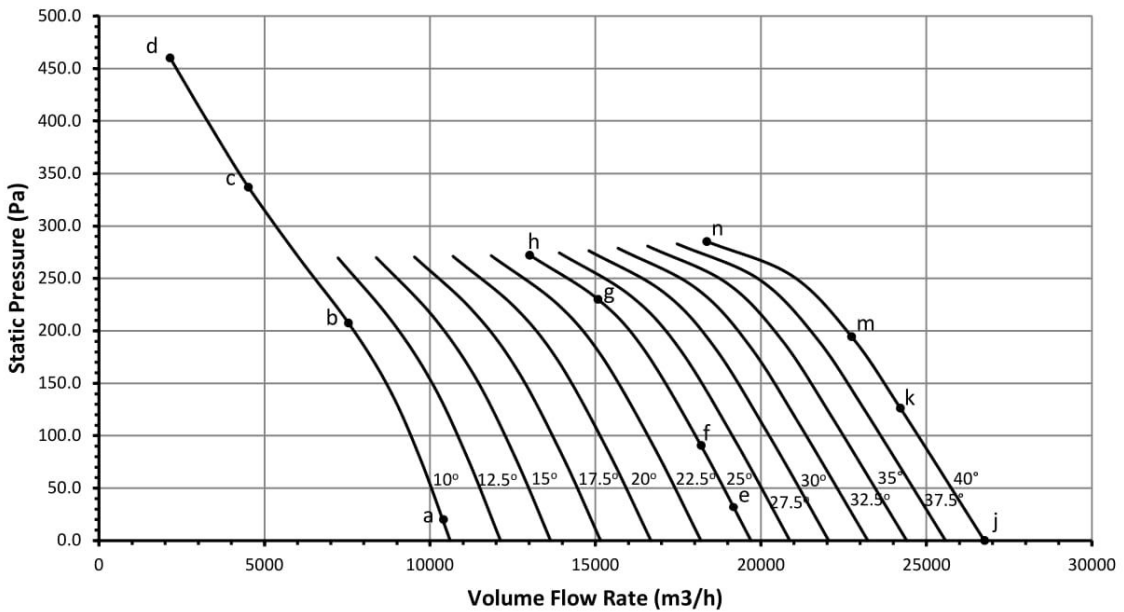
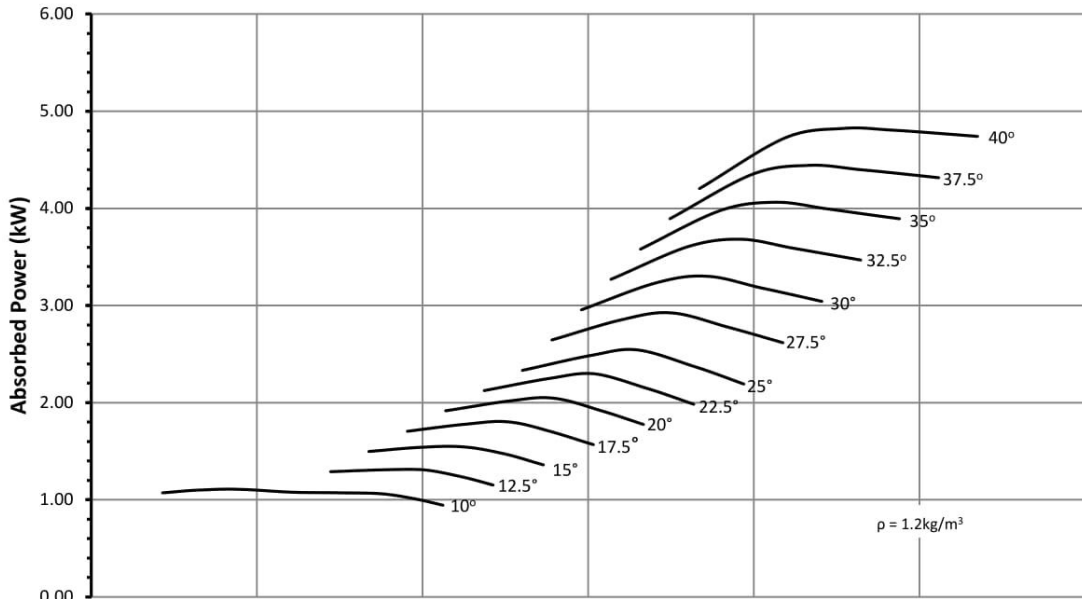
AAOM 630-160-10B

60Hz 1728 rpm

FEG 60

SAOM 630-160-10B

Outlet Area: 0.317 m²



Ref	Hz								L _w A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	94	94	92	87	86	85	84	78	92
b	94	95	97	92	91	86	83	76	95
c	93	94	100	85	83	82	80	74	93
d	95	95	95	87	86	83	82	77	92
e	99	98	95	90	87	85	84	80	94
f	97	97	95	89	86	85	84	81	94
g	97	97	96	95	91	89	86	81	97
h	98	98	99	100	93	90	85	80	100
j	103	103	98	94	90	87	85	82	97
k	102	101	97	92	89	87	85	82	96
m	101	100	98	93	89	87	86	82	96
n	107	106	96	89	85	82	77	70	94



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
 Power rating kW is fan input power.
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Performance Curve

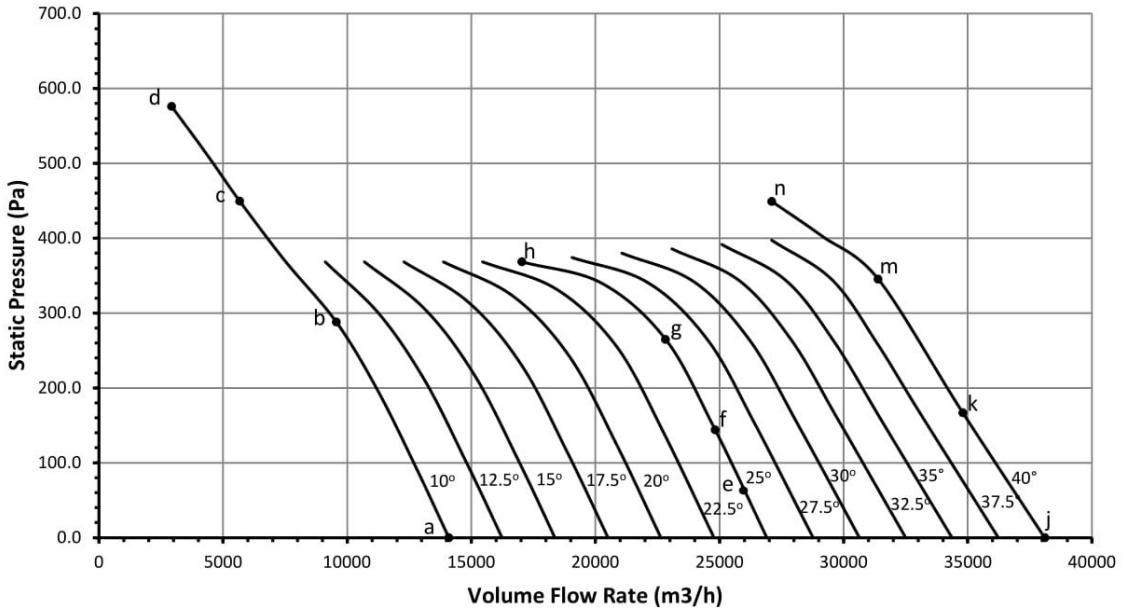
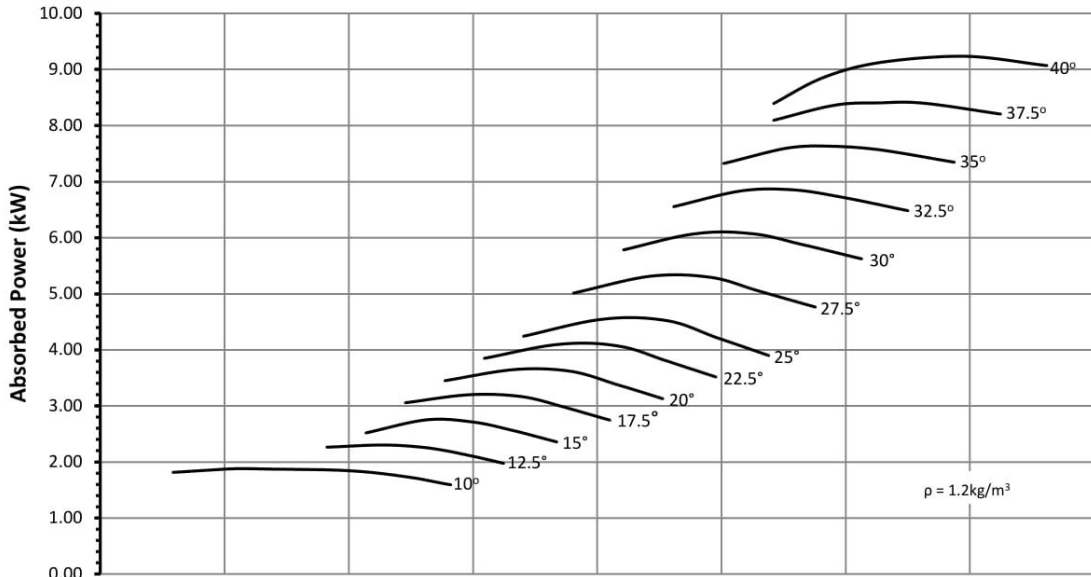
AAOM 710-230-12B

60Hz 1728 rpm

FEG 63

SAOM 710-230-12B

Outlet Area: 0.396 m²



Ref	Full Octave Band Center Frequency								L _W /A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	101	101	99	93	91	90	89	83	98
b	99	99	103	98	93	90	87	81	100
c	98	98	101	92	88	87	85	79	97
d	99	99	98	91	88	87	85	81	96
e	108	108	103	96	92	90	89	85	100
f	106	106	102	96	93	91	89	85	100
g	104	104	103	99	95	92	89	85	101
h	108	108	109	101	96	92	88	83	104
j	107	107	101	96	92	91	90	87	100
k	106	106	100	94	91	90	89	87	99
m	107	107	101	94	91	90	90	87	99
n	110	110	106	98	94	92	91	87	102



Performance certified for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_W and L_W/A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

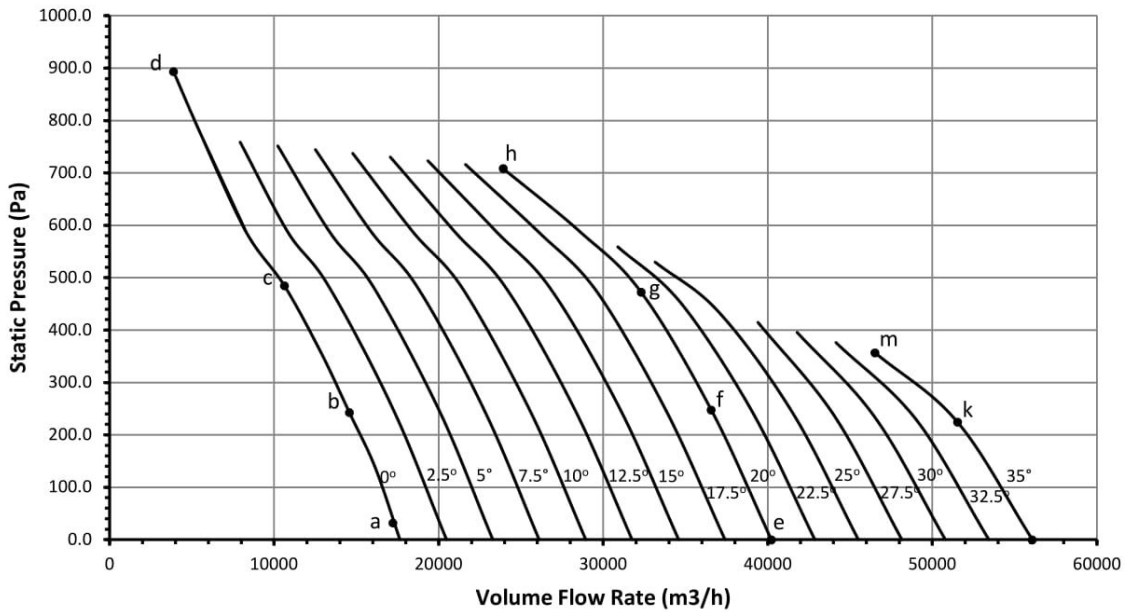
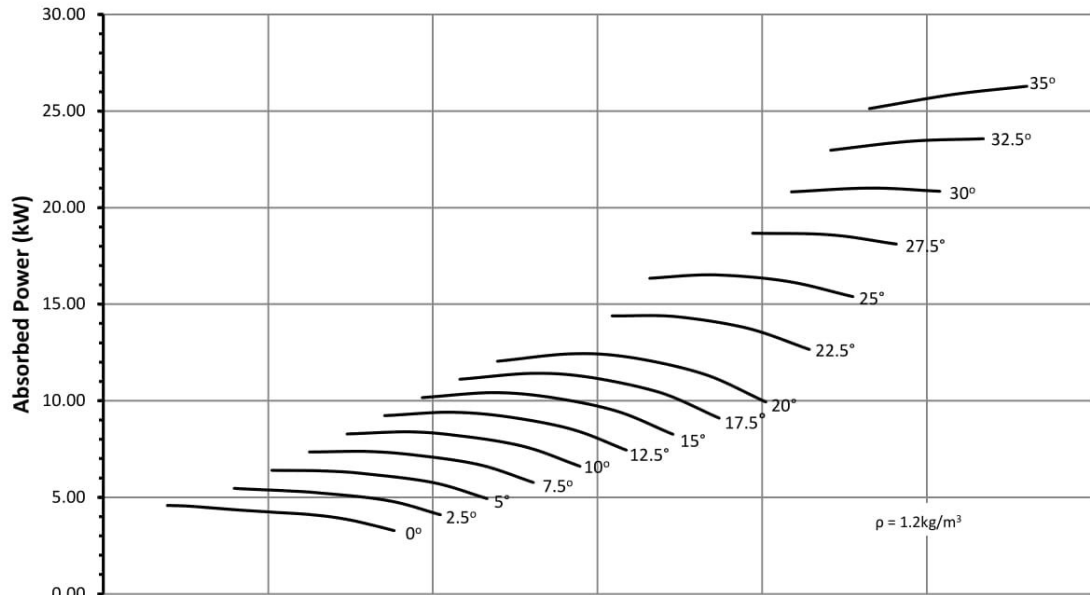
AAOM 800-400-08C

60Hz 1728 rpm

FEG 50

SAOM 800-400-08C

Outlet Area: 0.509 m²



Ref	Hz								L _{W1} A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	104	104	104	100	94	91	88	81	101
b	104	104	103	101	97	94	89	80	103
c	110	110	107	101	95	91	85	79	103
d	114	114	107	99	94	91	88	82	104
e	111	111	110	102	96	92	88	81	105
f	111	111	110	100	94	91	87	80	104
g	111	111	110	99	93	90	87	81	104
h	112	112	109	100	95	92	89	83	104
j	116	116	116	106	101	98	93	88	110
k	114	114	116	106	100	97	93	88	110
m	112	112	113	103	98	97	93	88	108



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{W1} and L_{W1}A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

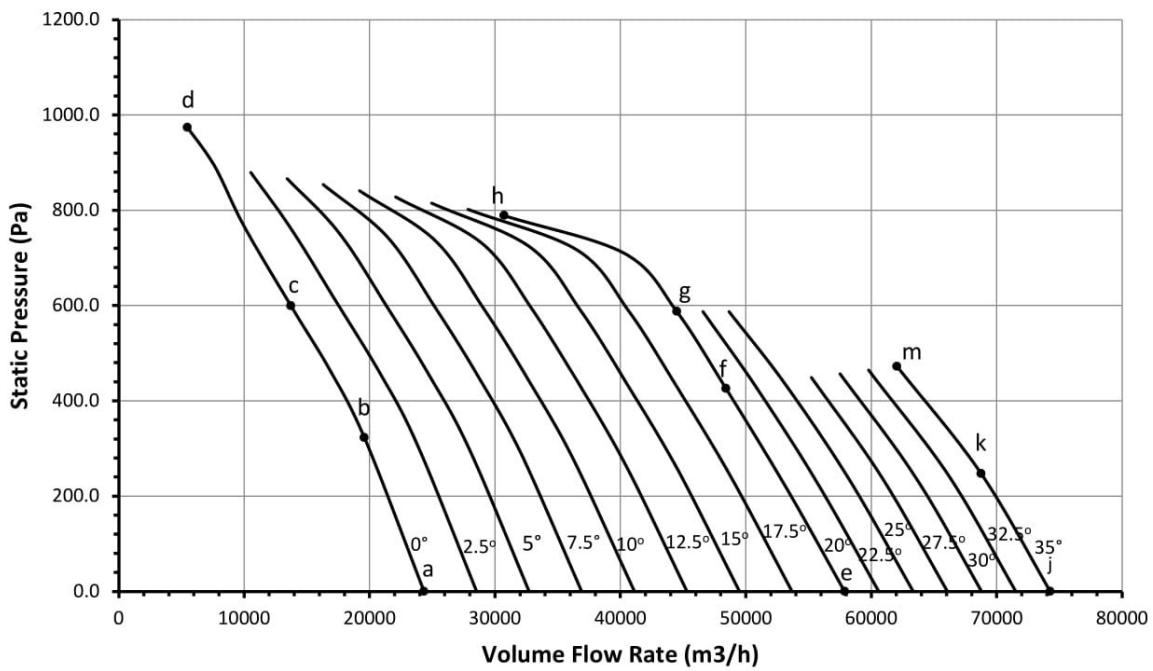
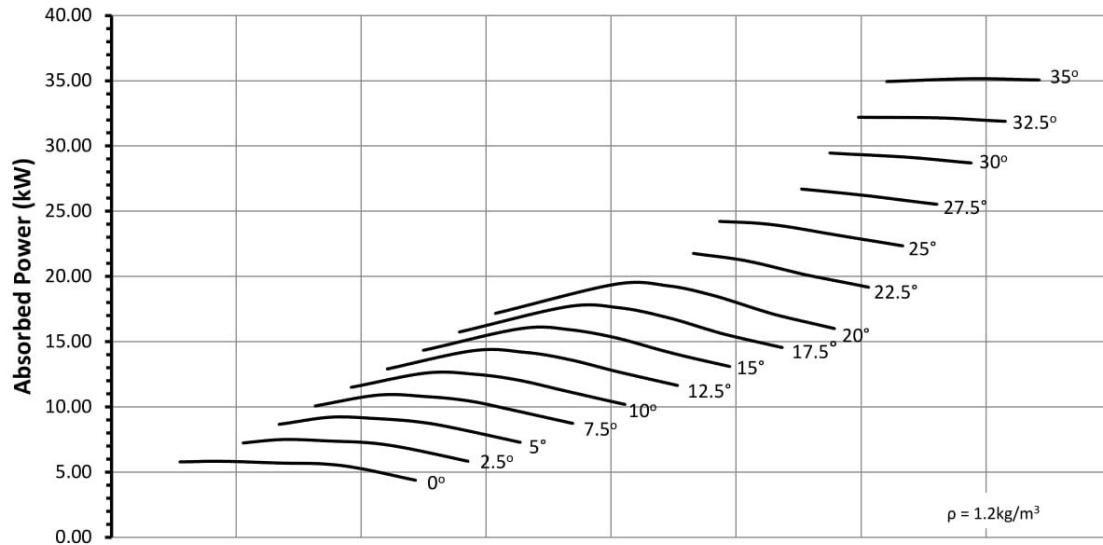
AAOM 900-400-08C

60Hz 1728 rpm

SAOM 900-400-08C

Outlet Area: 0.643 m²

FEG 53



Ref	Full Octave Band Center Frequency								L _{WA} dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	102	103	99	100	100	98	95	85	105
b	102	103	98	102	102	100	93	85	106
c	110	111	103	105	99	95	90	83	105
d	114	116	105	99	94	92	91	85	104
e	108	108	106	104	98	95	95	87	105
f	108	109	106	102	95	92	93	86	104
g	108	109	107	101	95	93	93	87	104
h	109	110	105	102	96	94	94	88	104
j	112	112	110	107	102	97	96	91	108
k	111	112	109	107	101	97	96	91	108
m	110	110	108	106	100	97	97	91	107



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and L_{WA}A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

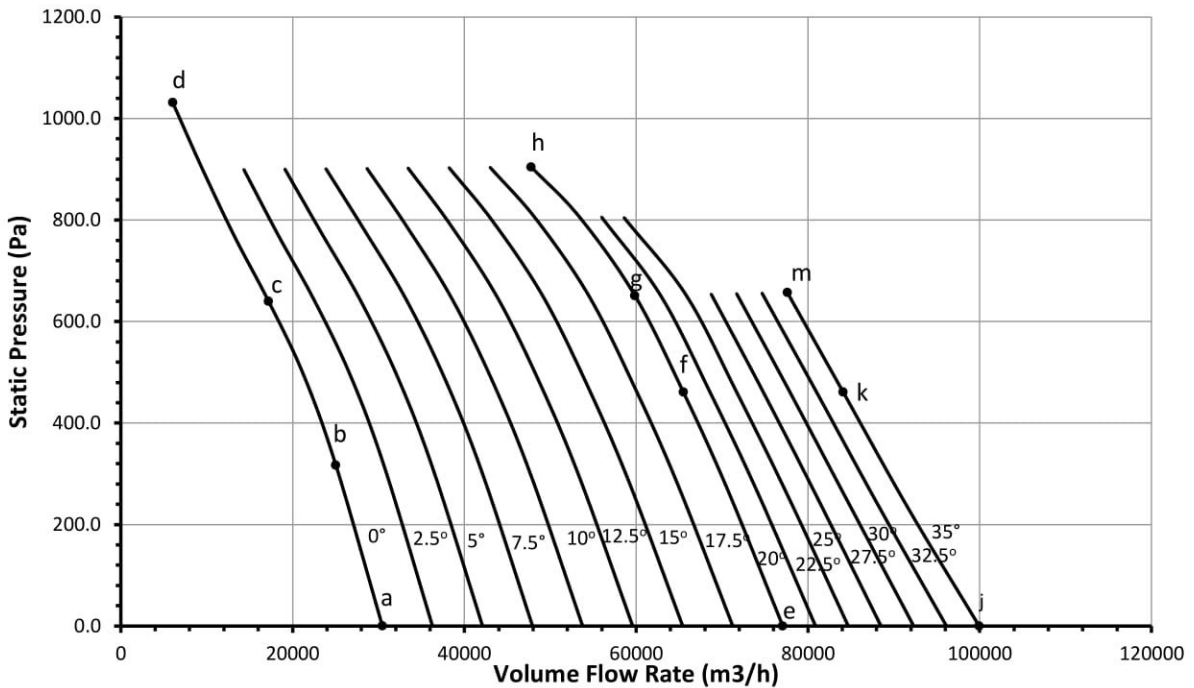
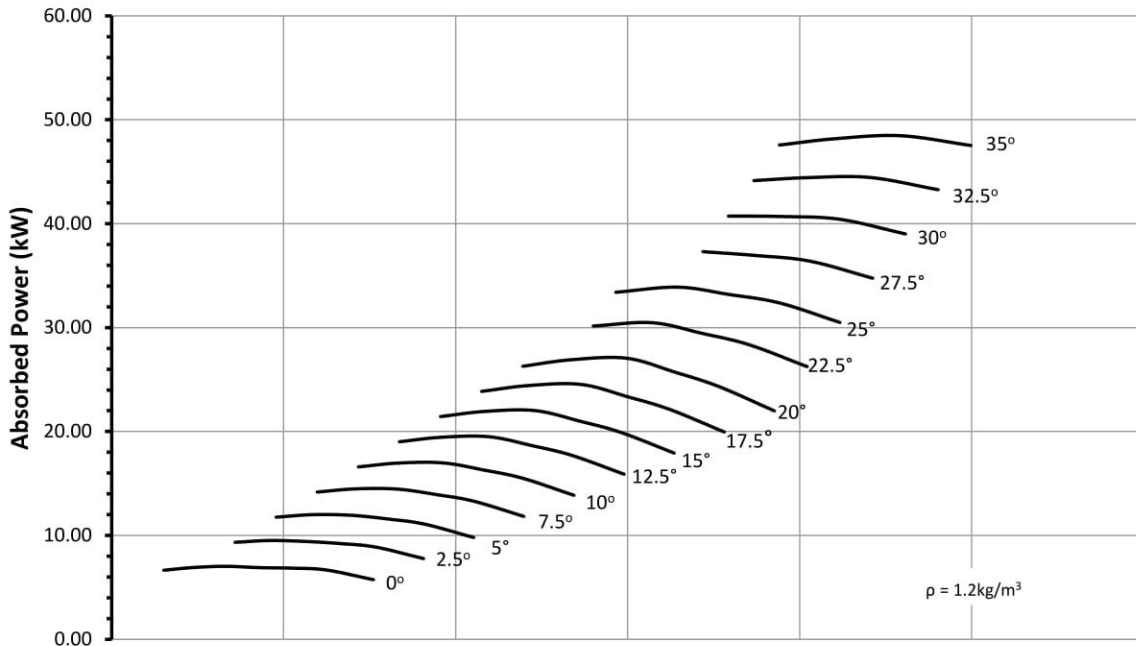
AAOM 1000-400-08C

60Hz 1728 rpm

FEG 60

SAOM 1000-400-08C

Outlet Area: 0.793 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	104	104	102	103	104	102	98	90	108
b	104	105	103	108	104	100	95	87	109
c	116	119	106	104	100	97	94	85	108
d	111	113	105	102	97	96	96	88	105
e	109	109	111	107	102	98	97	92	109
f	107	107	110	106	99	96	95	91	107
g	108	108	109	105	99	97	96	92	107
h	109	108	114	111	105	102	99	93	112
j	111	111	115	110	105	101	99	94	112
k	110	109	112	108	104	101	100	94	110
m	110	110	114	108	104	102	100	94	111



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of apertures (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_Wi and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

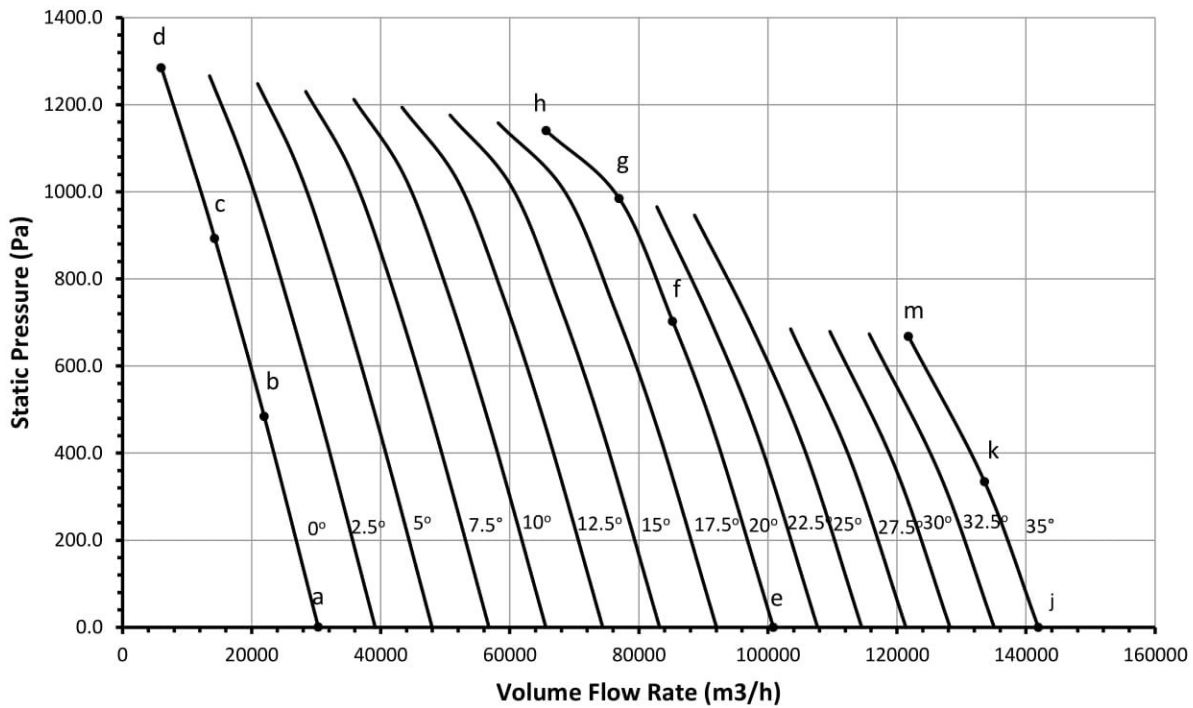
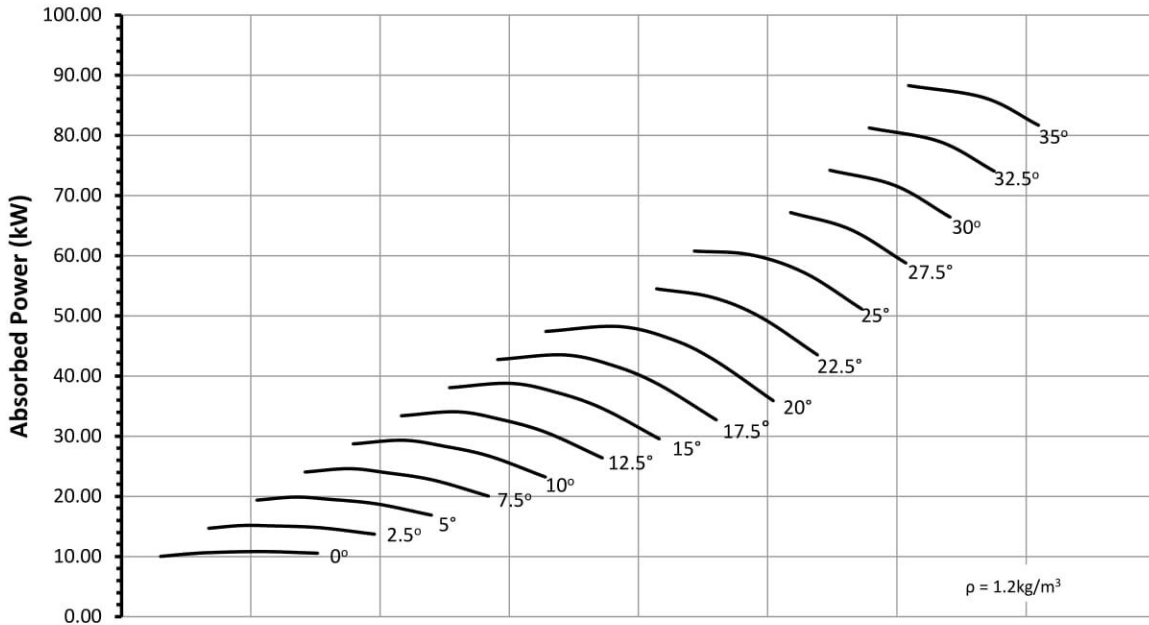
AAOM 1120-400-12C

60Hz 1728 rpm

FEG 56

SAOM 1120-400-12C

Outlet Area: 0.994 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	110	109	114	111	107	104	102	95	113
b	111	111	113	106	104	102	100	91	110
c	110	111	109	103	102	101	99	91	108
d	111	112	111	105	102	101	99	92	109
e	114	114	116	109	105	103	103	98	113
f	115	114	117	107	104	102	100	97	112
g	115	115	115	112	108	106	103	98	115
h	118	118	120	116	111	108	103	96	118
j	119	119	118	112	108	105	101	98	115
k	118	118	119	111	108	105	101	98	115
m	119	119	116	111	108	105	102	98	114



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_Wi and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

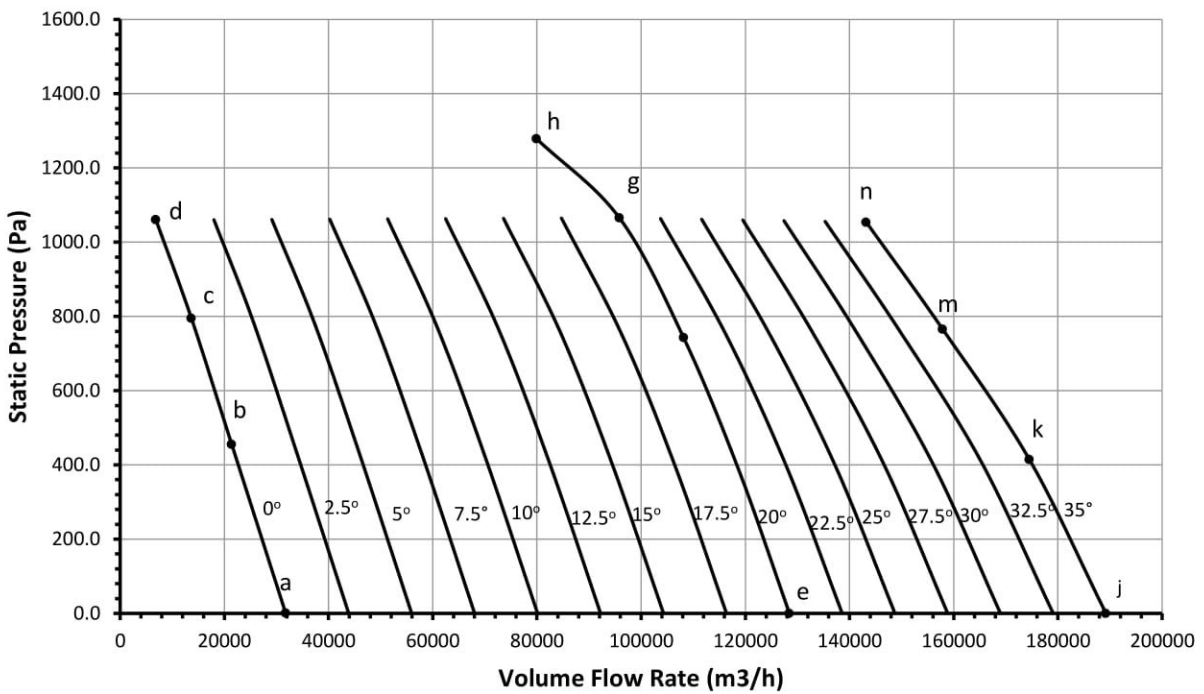
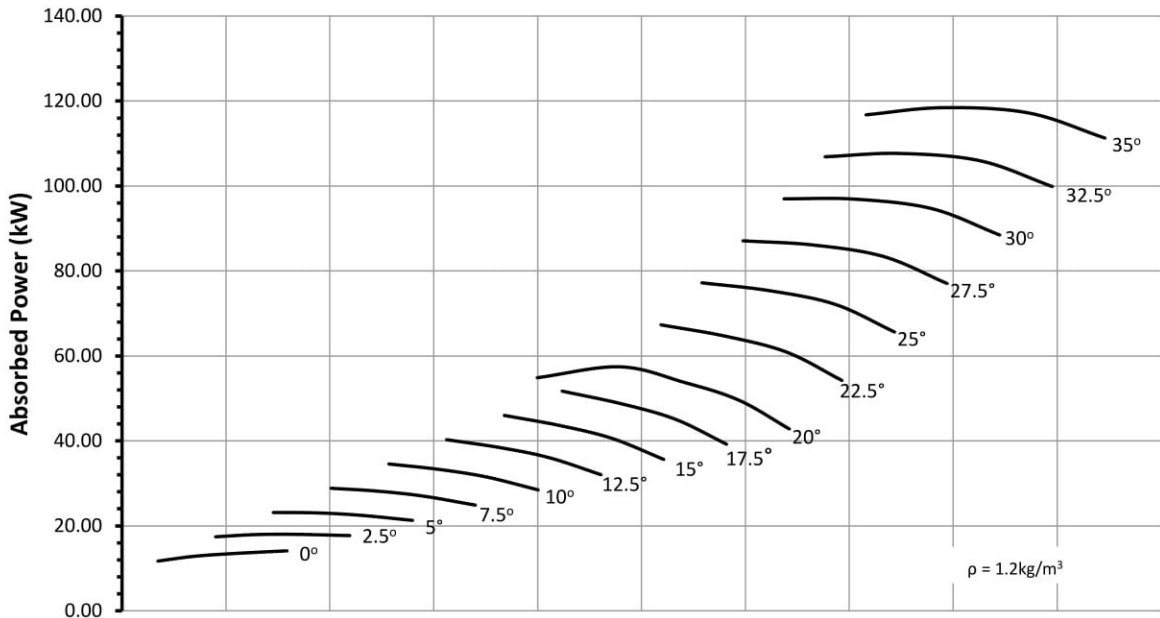
AAOM 1250-400-12C

60Hz 1728 rpm

FEG 63

SAOM 1250-400-12C

Outlet Area: 1.237 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	114	115	114	111	109	107	104	99	115
b	111	113	107	105	107	106	103	95	112
c	112	114	106	104	106	105	102	96	111
d	112	114	107	104	105	105	102	97	111
e	115	116	111	115	109	106	106	103	116
f	114	115	111	114	112	111	107	103	117
g	115	114	119	119	115	112	106	100	120
h	123	124	124	118	113	110	104	98	120
j	122	123	115	117	111	108	105	101	118
k	121	123	113	116	111	108	106	102	118
m	120	121	114	116	113	110	107	102	118
n	123	123	123	118	116	113	108	103	121



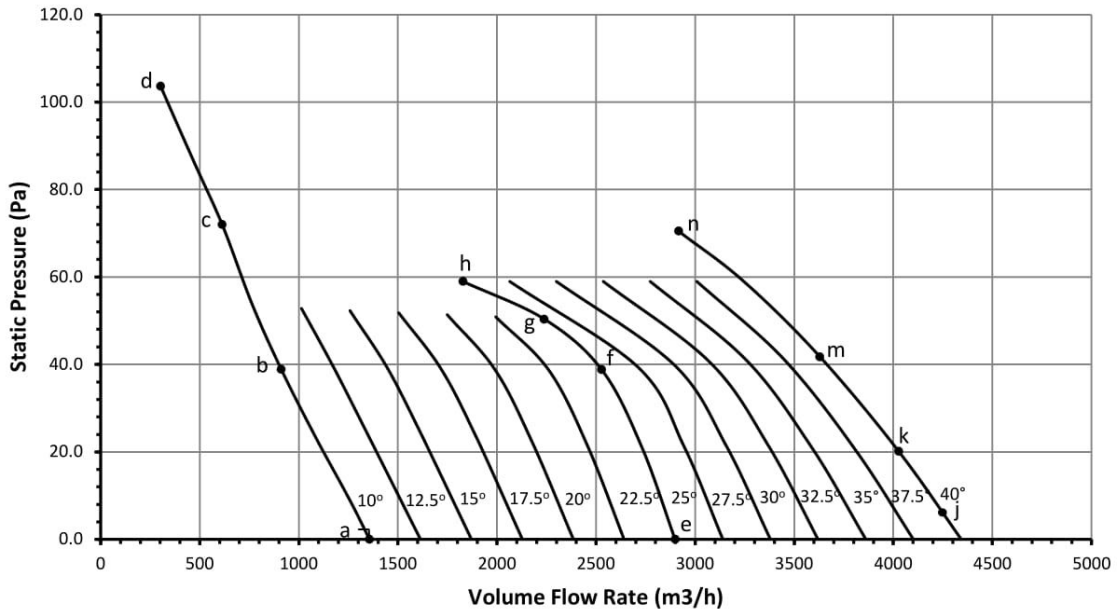
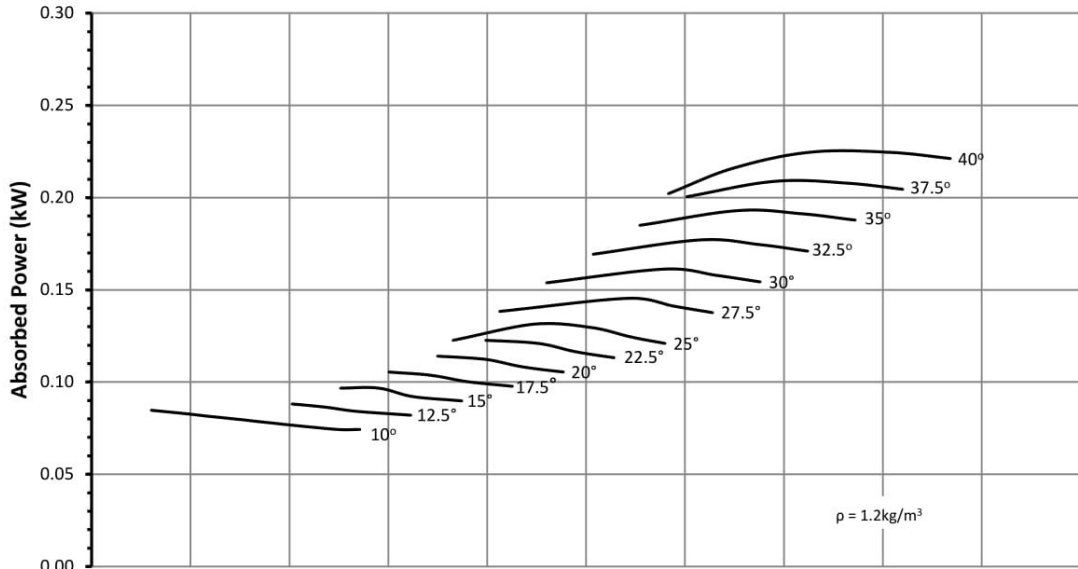
Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_WI and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

AAOM 400-160-10B
SAOM 400-160-10B

60Hz 1152 rpm

Outlet Area: 0.127 m²



Ref	Full Octave Band Center Frequency								L _w A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	88	85	84	71	68	65	61	56	78
b	88	87	86	69	66	64	60	56	79
c	88	86	85	68	66	64	60	55	78
d	88	86	85	69	67	65	61	56	79
e	84	82	81	69	68	67	62	57	76
f	84	84	84	69	68	67	63	57	78
g	89	93	95	70	67	65	61	56	87
h	87	90	91	69	66	65	61	56	84
j	87	83	82	72	70	68	63	57	78
k	87	84	83	71	70	68	64	58	78
m	88	84	83	70	69	68	63	58	78
n	93	93	93	71	69	67	63	58	85



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{wi} and L_wA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

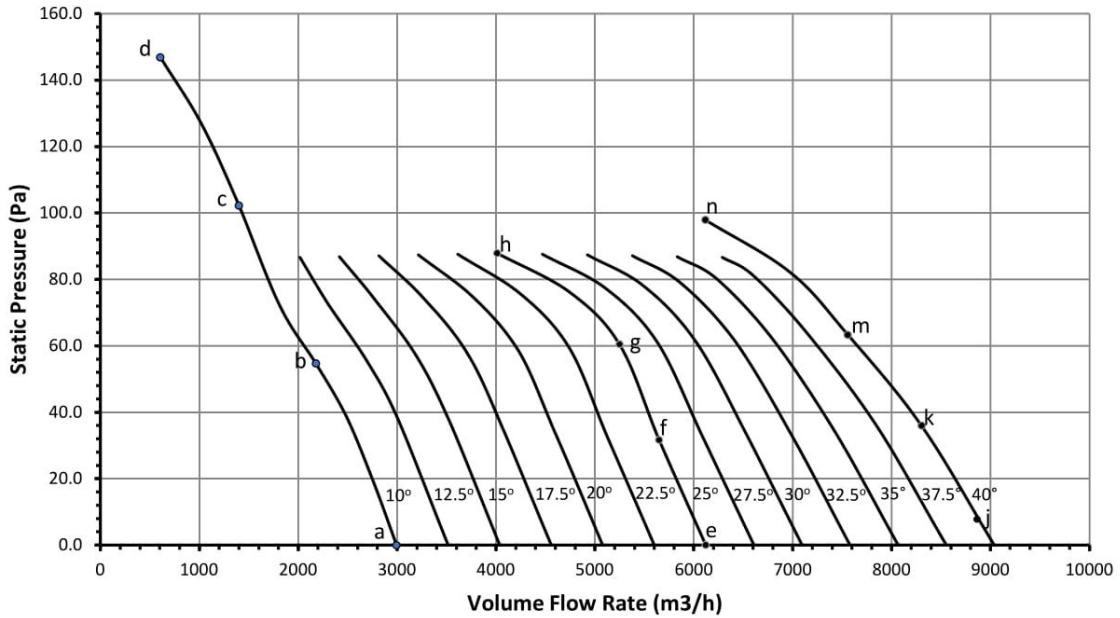
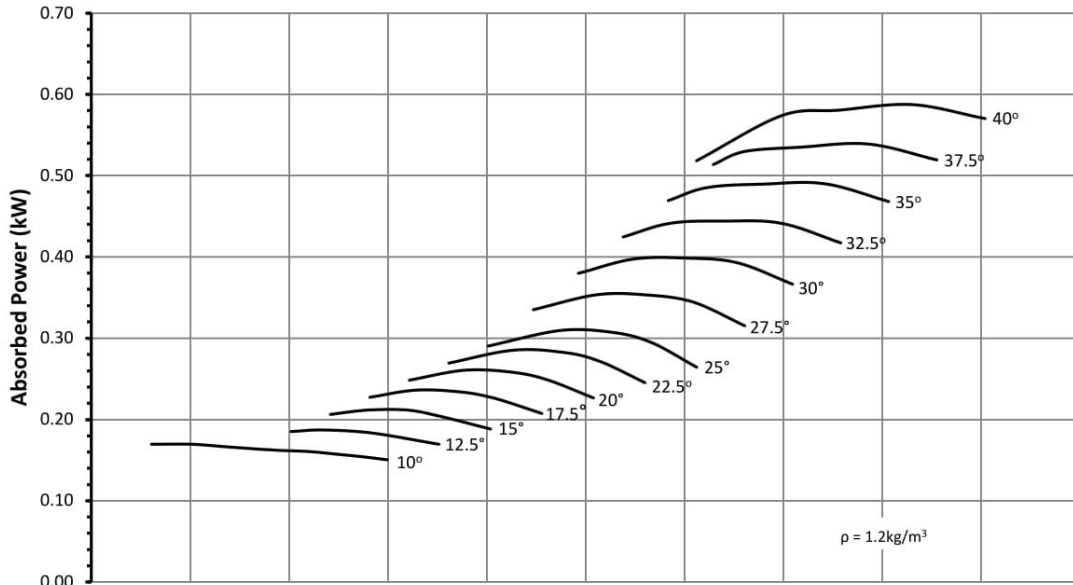
AAOM 500-160-10B

60Hz 1152 rpm

FEG 50

SAOM 500-160-10B

Outlet Area: 0.200 m²



Ref	Full Octave Band Center Frequency								L _{WA} dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	81	81	81	74	72	70	65	59	79
b	83	88	90	76	72	69	63	57	83
c	82	85	86	70	69	67	62	57	79
d	81	84	84	71	69	68	64	58	78
e	83	81	81	72	72	71	67	62	78
f	82	81	80	72	71	71	67	62	78
g	83	82	82	74	73	71	68	62	79
h	86	90	91	79	75	71	66	60	85
j	85	83	82	75	73	72	69	63	80
k	85	82	82	74	73	72	69	63	80
m	84	82	82	74	73	72	69	63	80
n	86	83	83	74	73	72	69	63	80



Performance certified is for Installation type D: Ducted Inlet- Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
 Power rating kW is fan input power.
 The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and L_{WA}A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

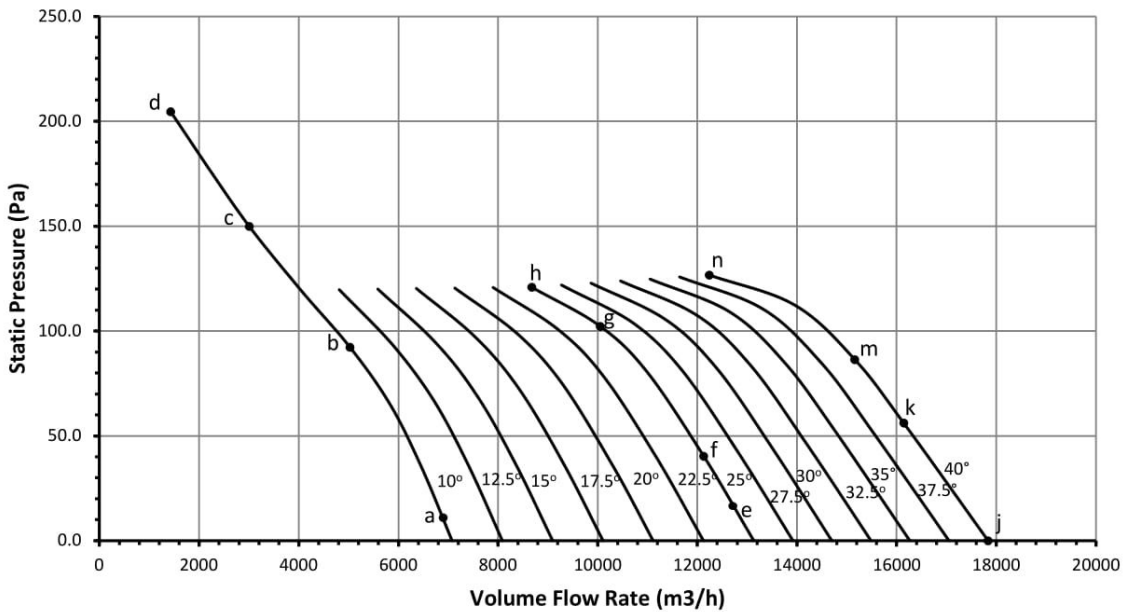
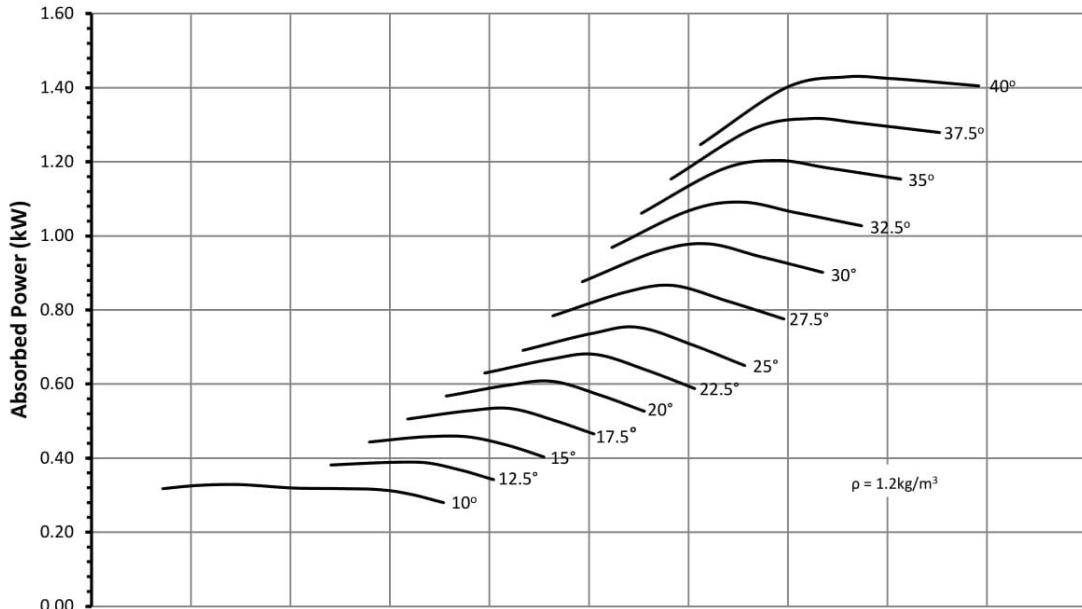
AAOM 630-160-10B

60Hz 1152 rpm

FEG 60

SAOM 630-160-10B

Outlet Area: 0.317 m²



Ref	Hz								L _W /A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	85	84	83	78	77	76	72	66	83
b	86	87	88	83	79	76	70	63	85
c	84	89	91	75	74	72	68	61	84
d	86	86	86	78	76	74	70	64	82
e	90	87	86	79	77	76	73	68	84
f	88	87	86	79	77	76	74	68	84
g	89	88	88	84	81	78	74	68	87
h	89	90	90	87	82	79	73	67	88
j	94	91	89	82	79	77	75	70	86
k	93	90	89	81	79	77	74	70	86
m	92	90	89	82	79	78	75	70	86
n	98	90	88	78	75	71	64	59	83



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_W/A and L_W/A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

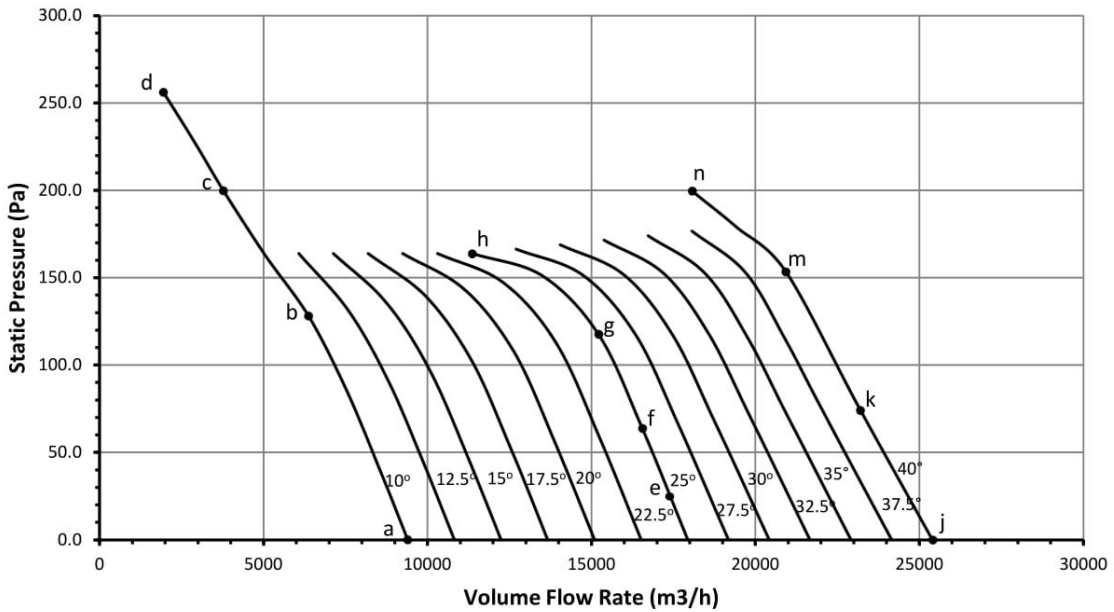
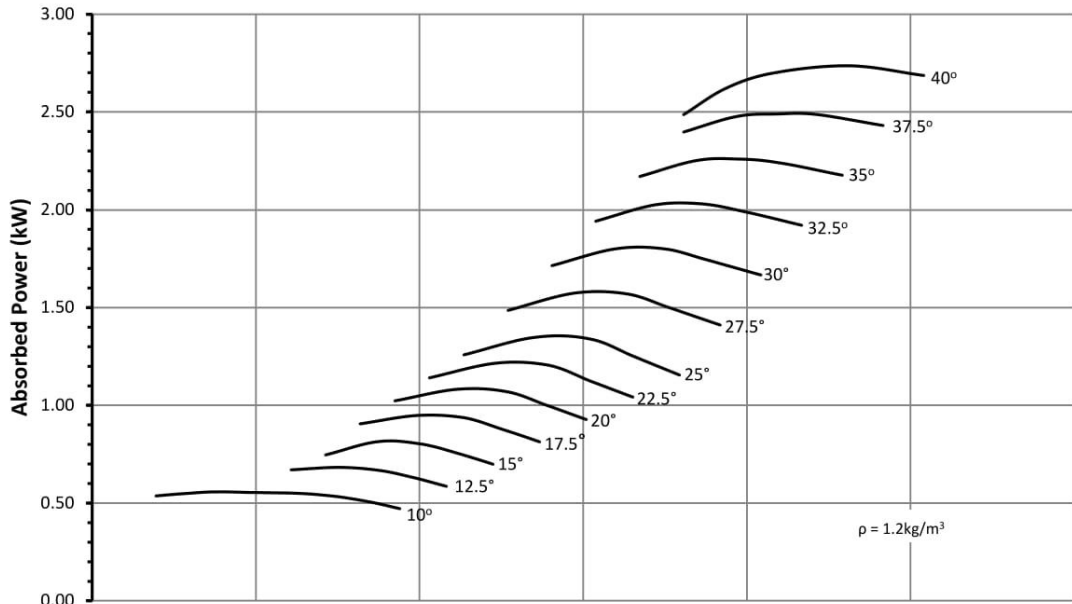
AAOM 710-230-12B

60Hz 1152 rpm

FEG 63

SAOM 710-230-12B

Outlet Area: 0.396 m²



Ref	Hz								L _w A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	92	91	89	82	82	81	77	70	88
b	90	92	95	86	83	79	75	68	90
c	89	90	93	79	79	77	73	66	87
d	90	90	89	80	79	77	74	68	86
e	99	97	93	85	82	81	78	73	90
f	97	96	92	85	83	81	78	73	90
g	96	95	93	88	85	82	78	72	91
h	99	99	100	88	85	81	77	70	94
j	98	95	90	85	82	82	80	76	89
k	97	95	89	83	81	81	79	75	89
m	98	96	91	82	81	81	80	75	89
n	101	99	95	86	84	83	80	75	92



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_w and L_wA sound power levels for installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

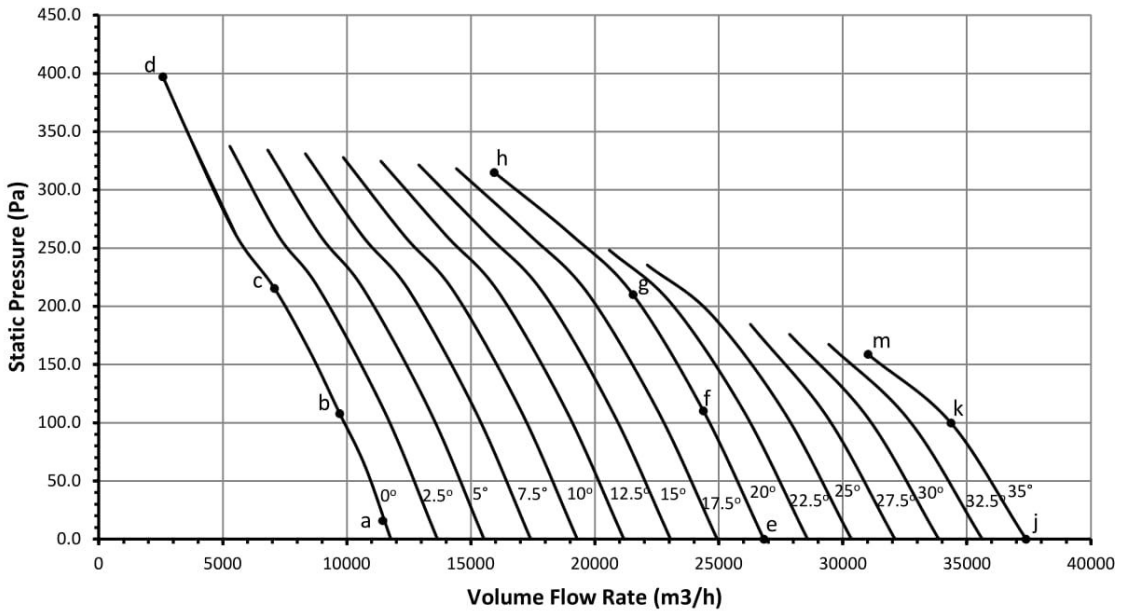
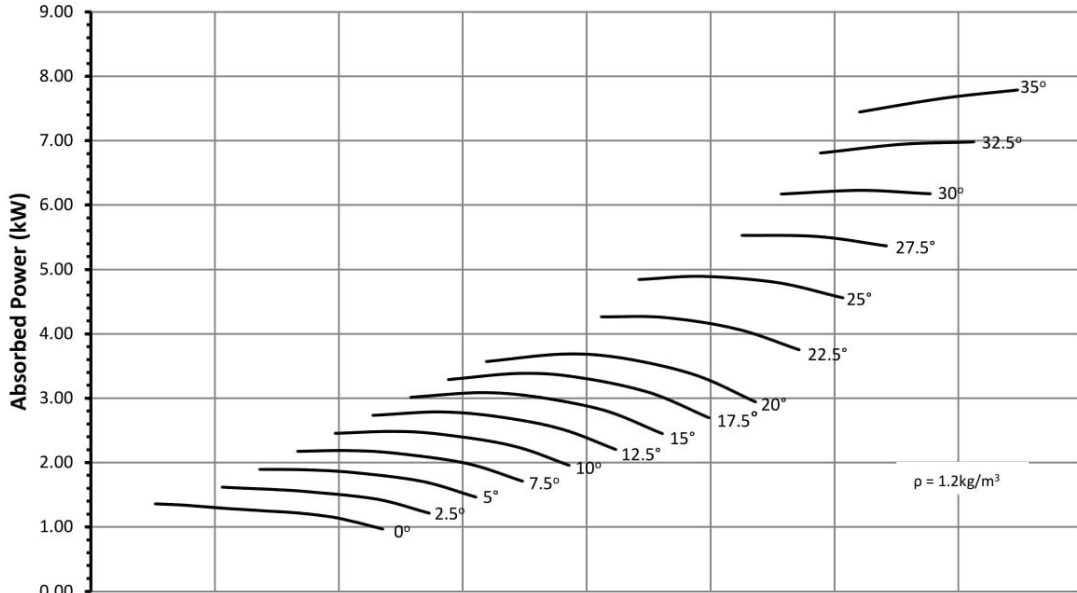
Performance Curve

AAOM 800-400-08C
SAOM 800-400-08C

60Hz 1152 rpm

Outlet Area: 0.509 m²

FEG 50



Ref	Hz								L _{WA} dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	95	95	93	88	84	81	76	68	90
b	95	95	93	90	87	83	75	67	92
c	102	100	95	88	84	79	72	66	92
d	106	102	93	87	83	81	76	72	92
e	103	102	98	89	85	81	76	69	93
f	102	102	97	87	83	80	75	69	92
g	102	101	96	86	83	80	75	69	92
h	104	102	96	88	84	82	77	72	93
j	107	107	103	93	90	87	82	77	98
k	106	107	102	92	89	86	81	76	98
m	103	104	100	90	89	86	82	78	96



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and L_{WA} sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

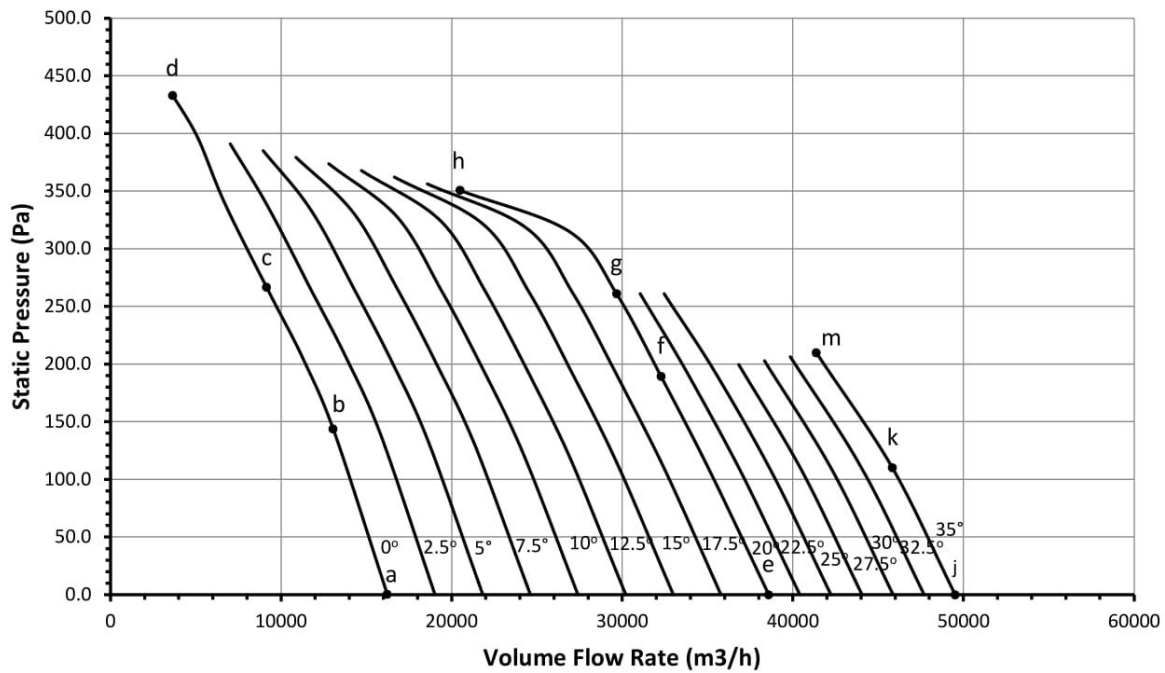
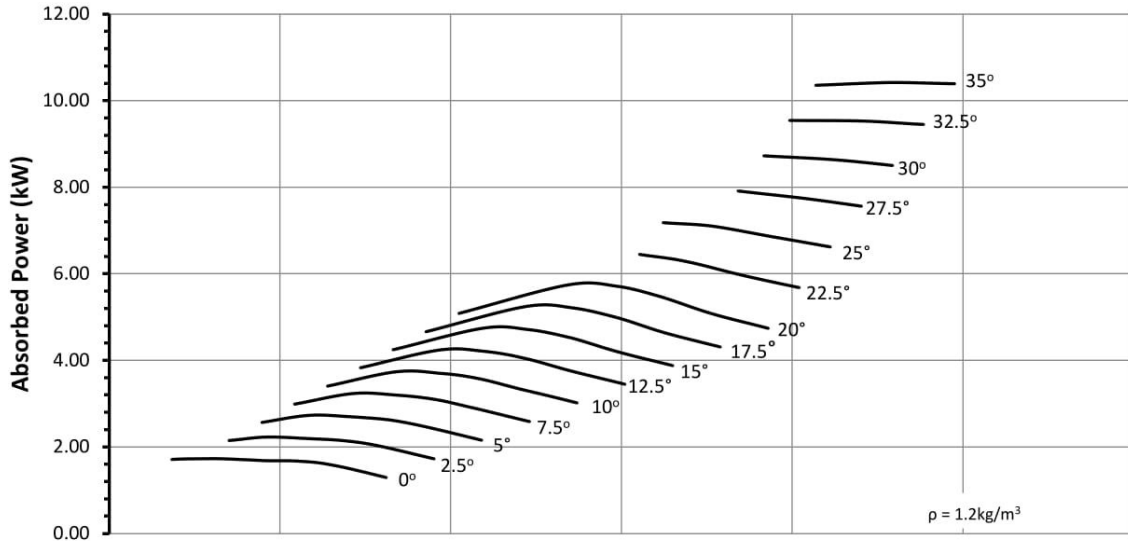
AAOM 900-400-08C

60Hz 1152 rpm

FEG 53

SAOM 900-400-08C

Outlet Area: 0.643 m²



Ref	Full Octave Band Center Frequency								L _W /A
	63	125	250	500	1K	2K	4K	8K	
a	93	92	91	91	90	87	81	72	94
b	93	92	90	92	91	87	80	72	95
c	101	99	94	93	88	83	77	70	94
d	105	102	93	88	84	82	79	73	92
e	99	98	96	92	87	85	82	75	94
f	99	98	95	89	85	83	80	74	92
g	100	99	95	89	85	83	81	75	93
h	100	98	94	90	86	85	82	77	93
j	103	102	99	95	91	87	84	80	97
k	102	101	98	95	90	87	84	80	97
m	101	100	98	94	90	87	85	80	96



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
 Power rating kW is fan input power.
 The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_W and L_W/A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

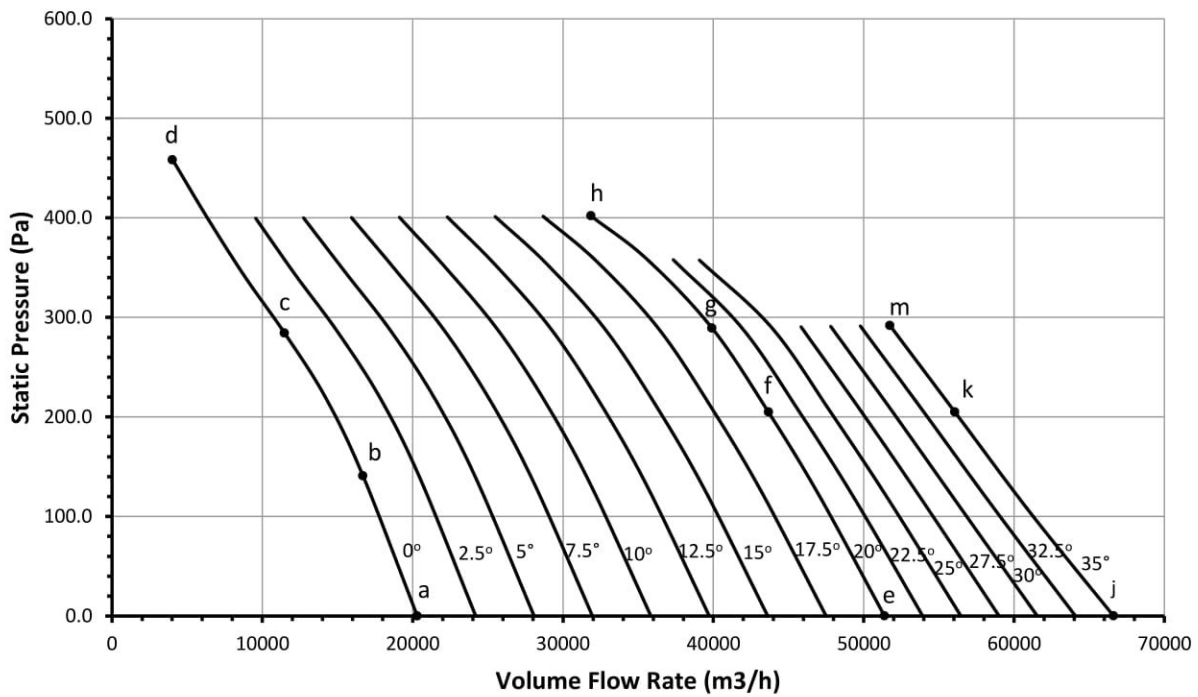
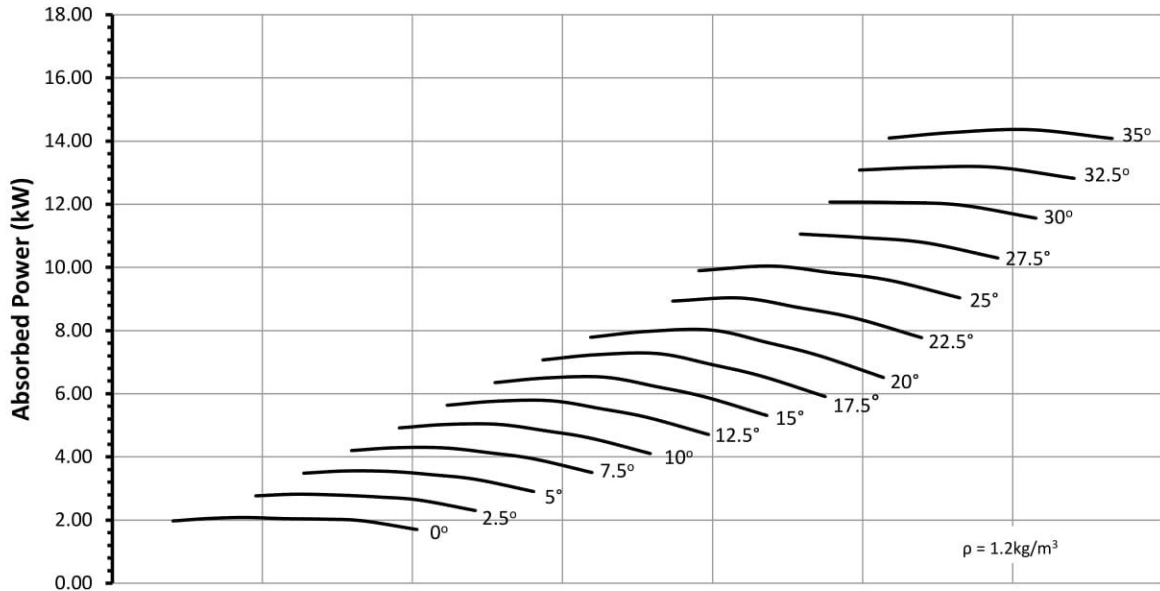
AAOM 1000-400-08C

60Hz 1152 rpm

FEG 60

SAOM 1000-400-08C

Outlet Area: 0.793 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	95	95	94	94	93	90	85	76	97
b	96	95	95	97	92	88	81	73	98
c	107	104	96	93	89	85	80	72	96
d	103	100	94	91	88	86	83	77	94
e	100	101	100	95	91	88	85	78	98
f	99	100	99	94	89	86	83	78	96
g	99	99	98	93	89	87	84	79	96
h	100	104	103	99	94	91	87	81	101
j	103	105	103	99	94	91	87	83	101
k	101	102	101	97	93	91	88	83	100
m	102	104	102	97	94	91	88	83	100



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
 Power rating kW is fan input power.
 The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_Wi and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction.
 The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

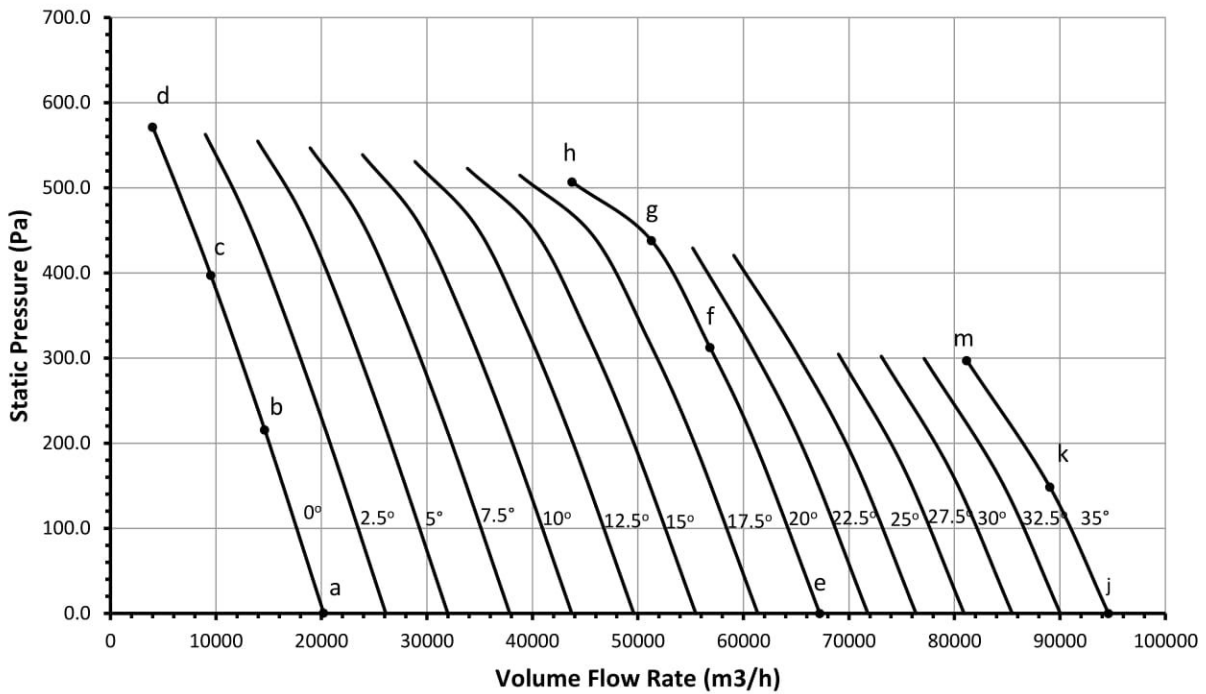
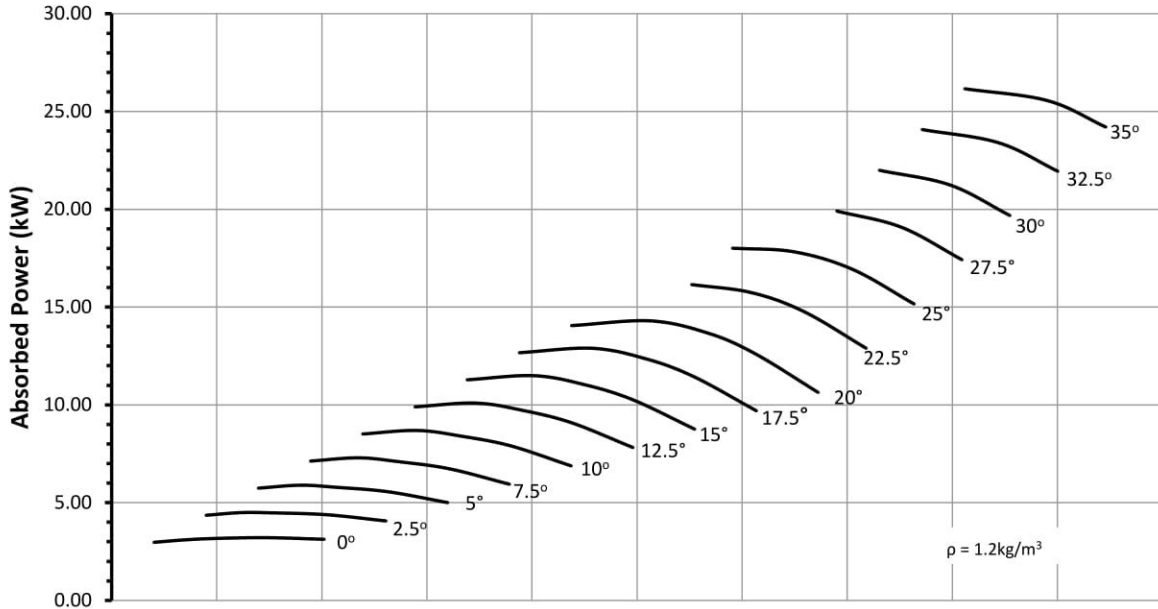
AAOM 1120-400-12C

60Hz 1152 rpm

FEG 56

SAOM 1120-400-12C

Outlet Area: 0.994 m²



Ref	Full Octave Band Center Frequency								L _{WA} dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	101	102	104	100	96	93	89	81	102
b	102	102	102	96	94	91	86	78	100
c	101	100	99	93	92	91	86	78	98
d	102	102	101	95	93	91	86	81	99
e	105	105	105	98	95	93	91	84	102
f	106	106	106	97	94	92	89	84	102
g	106	106	106	101	98	95	91	84	104
h	109	109	110	104	100	96	90	83	107
j	110	109	108	101	97	94	90	85	104
k	109	109	109	100	97	94	90	86	104
m	110	109	106	100	97	94	91	87	104



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
 Power rating kW is fan input power.
 The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{WA} and L_{WA} sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

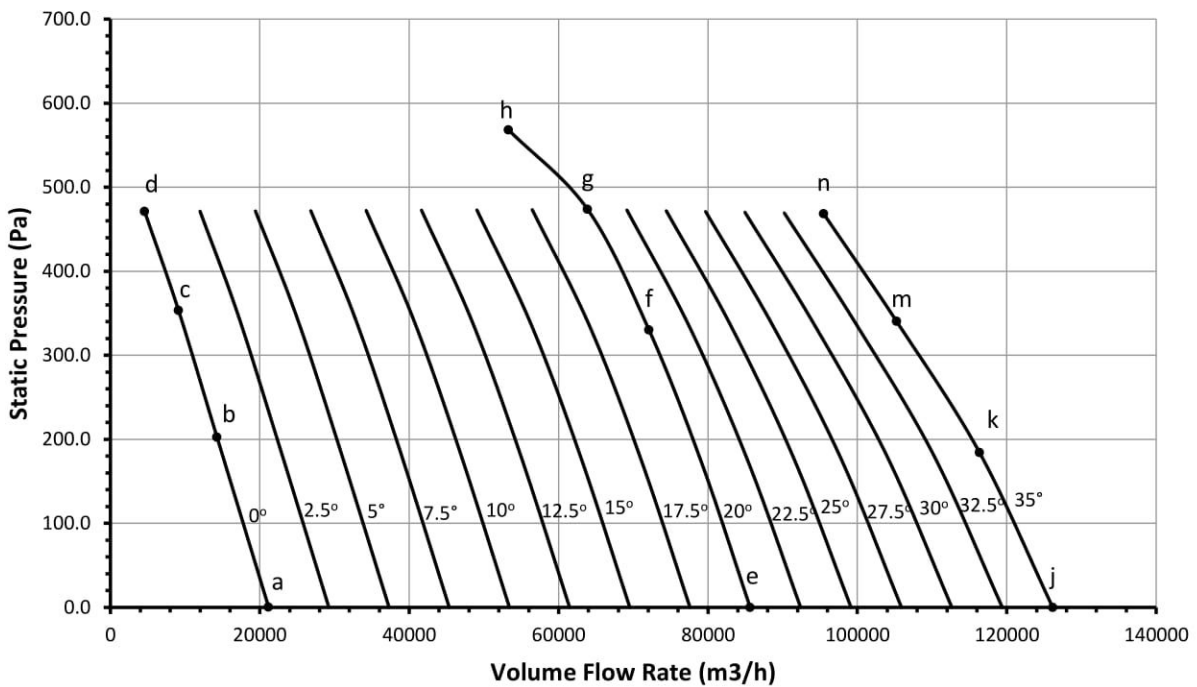
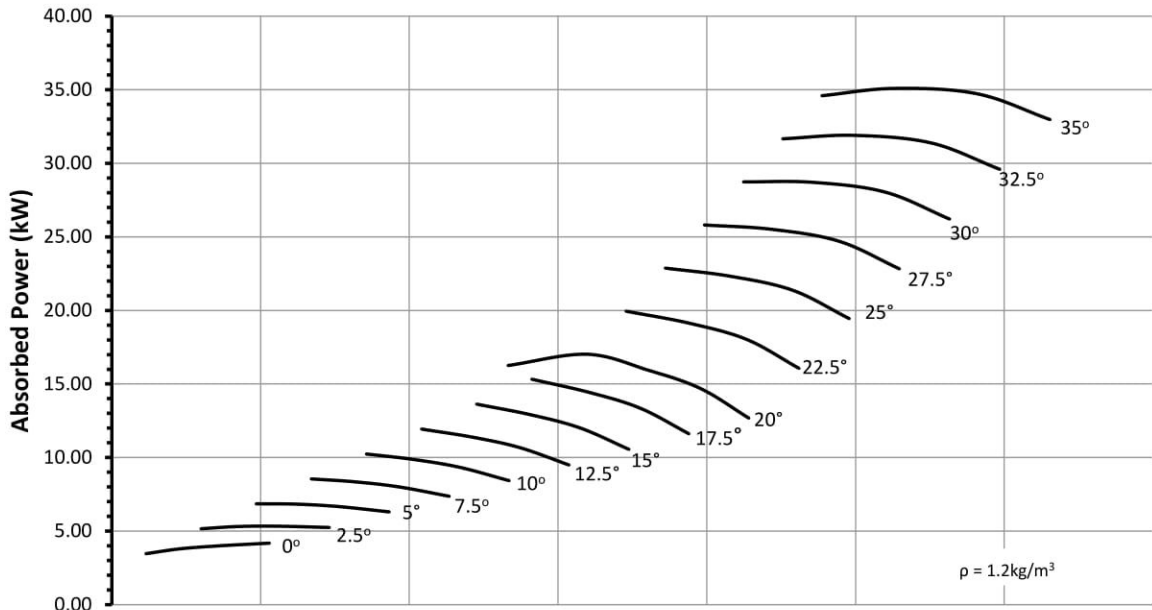
AAOM 1250-400-12C

60Hz 1152 rpm

FEG 63

SAOM 1250-400-12C

Outlet Area: 1.237 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	106	105	104	101	99	96	91	83	104
b	103	101	98	97	97	95	89	81	102
c	103	101	97	96	97	94	89	82	101
d	104	102	97	96	96	94	90	83	101
e	106	105	103	103	99	96	95	89	105
f	105	104	103	104	102	100	95	88	107
g	106	107	110	108	104	100	94	87	109
h	115	114	114	106	102	98	92	85	109
j	113	111	106	105	100	97	94	89	107
k	112	110	105	105	101	98	95	90	107
m	111	109	106	105	102	100	96	90	108
n	114	114	113	108	105	101	96	91	111



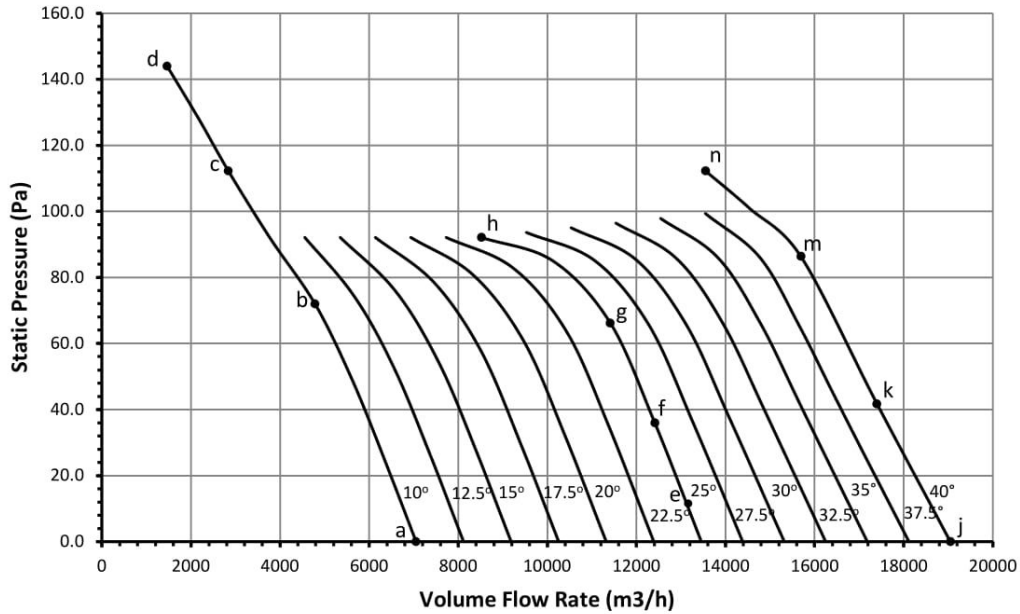
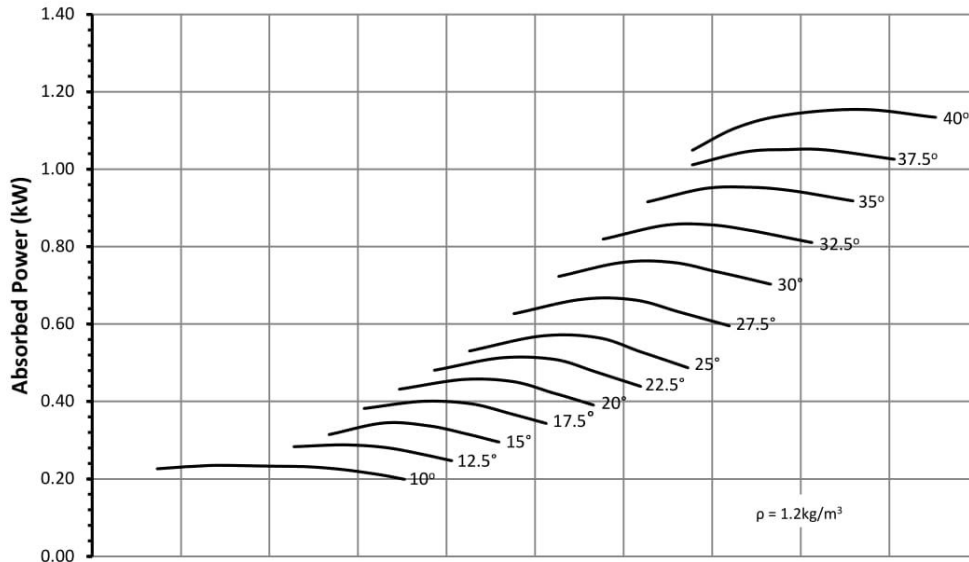
Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_WI and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve
FEG 63

AAOM 710-230-12B
SAOM 710-230-12B

60Hz 864 rpm

Outlet Area: 0.396 m²



Ref	Full Octave Band Center Frequency								L _w /A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	85	84	78	76	75	73	68	61	80
b	84	88	82	78	75	72	66	58	81
c	83	86	77	73	72	70	64	57	78
d	84	83	76	73	72	70	66	59	78
e	92	88	81	77	75	74	70	64	82
f	91	87	81	78	76	74	70	64	82
g	89	88	84	80	77	74	70	63	83
h	93	94	86	80	77	73	68	61	84
j	92	86	81	77	76	75	72	67	82
k	91	85	79	76	75	74	72	66	81
m	92	86	79	76	75	75	72	66	81
n	95	91	83	78	77	76	72	67	83

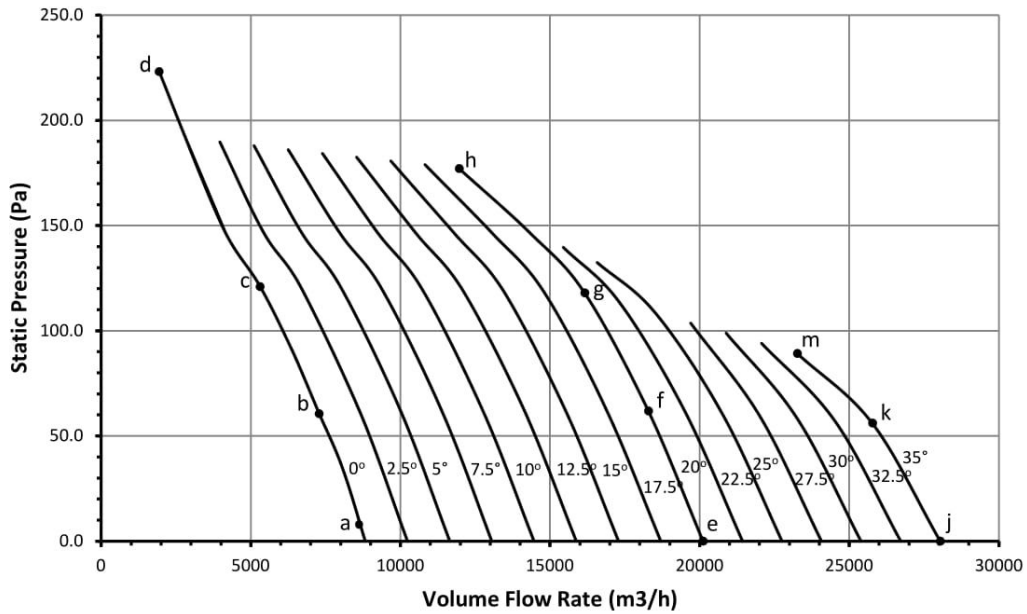
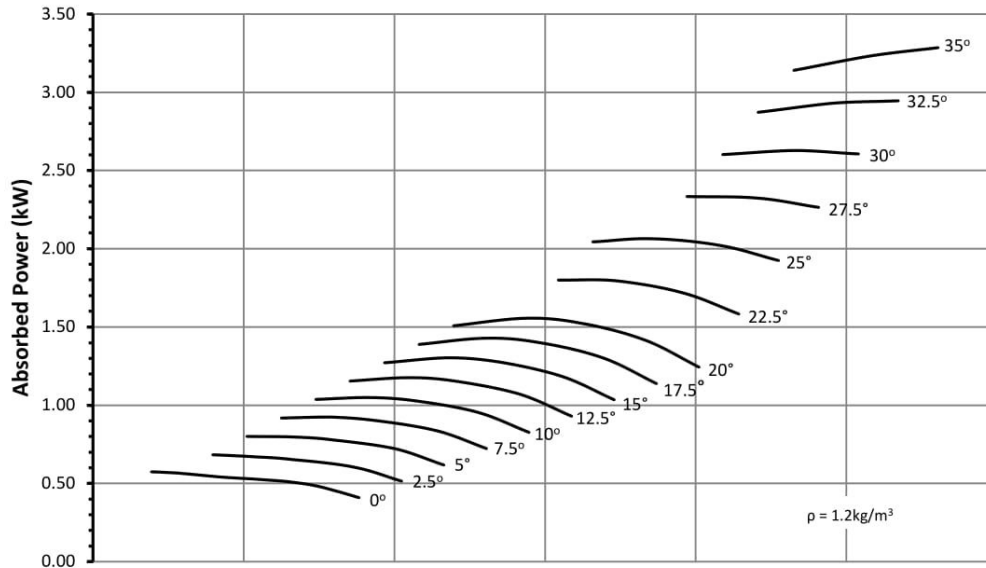


Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{wi} and L_wA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve
FEG 50

AAOM 800-400-08C
SAOM 800-400-08C

60Hz 864 rpm
Outlet Area: 0.509 m²



Ref	Full Octave Band Center Frequency							L _w A dB(A)	
	63	125	250	500	1K	2K	4K		8K
a	89	89	85	79	76	73	66	59	82
b	88	88	86	82	79	74	65	59	84
c	95	92	86	80	76	70	64	58	83
d	99	92	84	79	76	73	67	66	83
e	96	95	87	81	77	73	66	62	85
f	96	95	85	79	75	72	65	61	84
g	95	95	84	78	75	72	66	62	83
h	97	94	85	80	77	74	68	64	84
j	101	100	91	86	83	78	73	69	90
k	99	101	91	85	82	78	72	69	89
m	97	98	88	83	82	78	73	71	88



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories)
Power rating kW is fan input power.
The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_w and L_wA sound power levels for installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction.
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

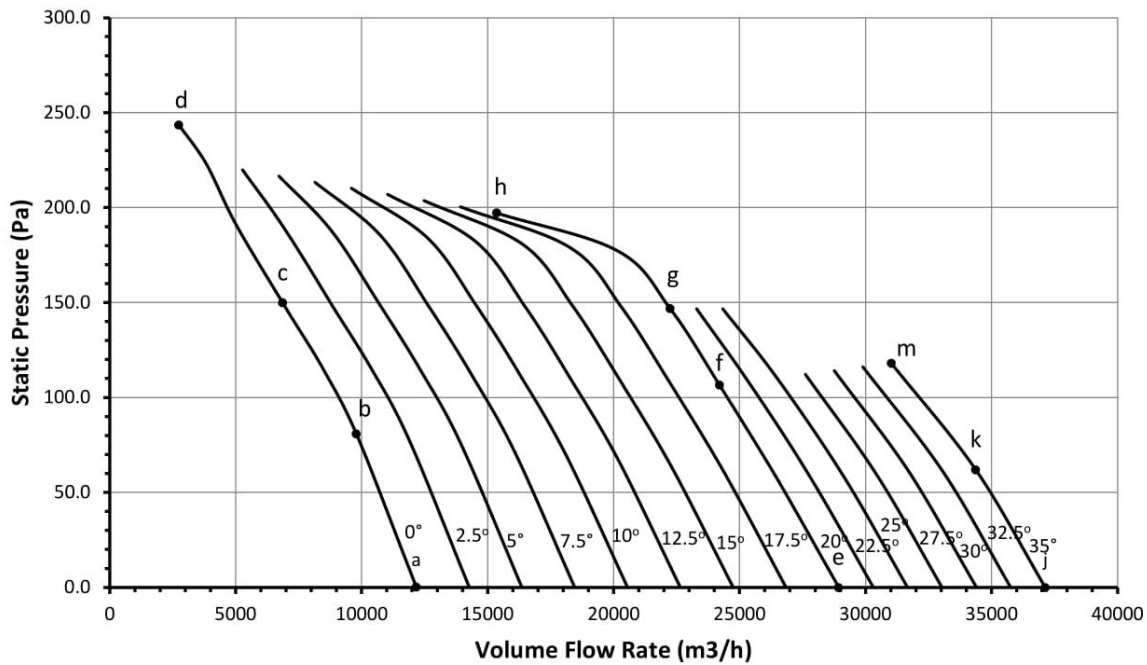
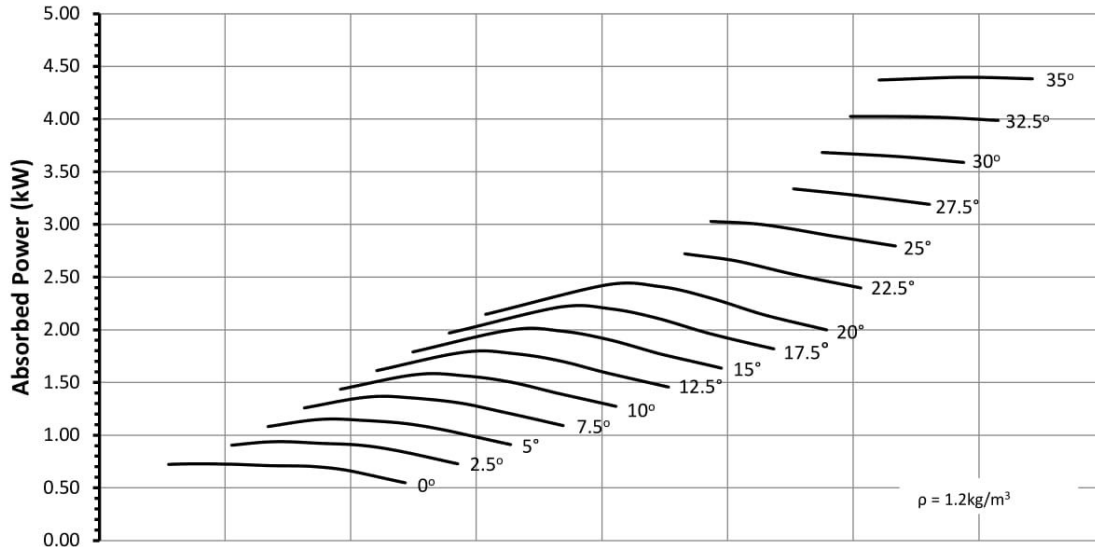
AAOM 900-400-08C

60Hz 864 rpm

FEG 53

SAOM 900-400-08C

Outlet Area: 0.643 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	87	85	85	85	82	79	71	63	87
b	87	84	86	86	84	78	70	63	88
c	94	90	88	84	80	75	68	61	86
d	99	91	85	80	77	75	70	65	84
e	93	91	88	83	80	78	72	66	86
f	93	91	86	81	78	76	72	66	85
g	93	91	86	81	78	77	72	67	85
h	94	90	87	82	79	78	73	68	86
j	97	95	91	87	83	80	76	72	89
k	96	94	91	86	82	80	76	72	89
m	94	93	90	85	82	80	76	72	89



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{Wj} and L_{WA} sound power levels for installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

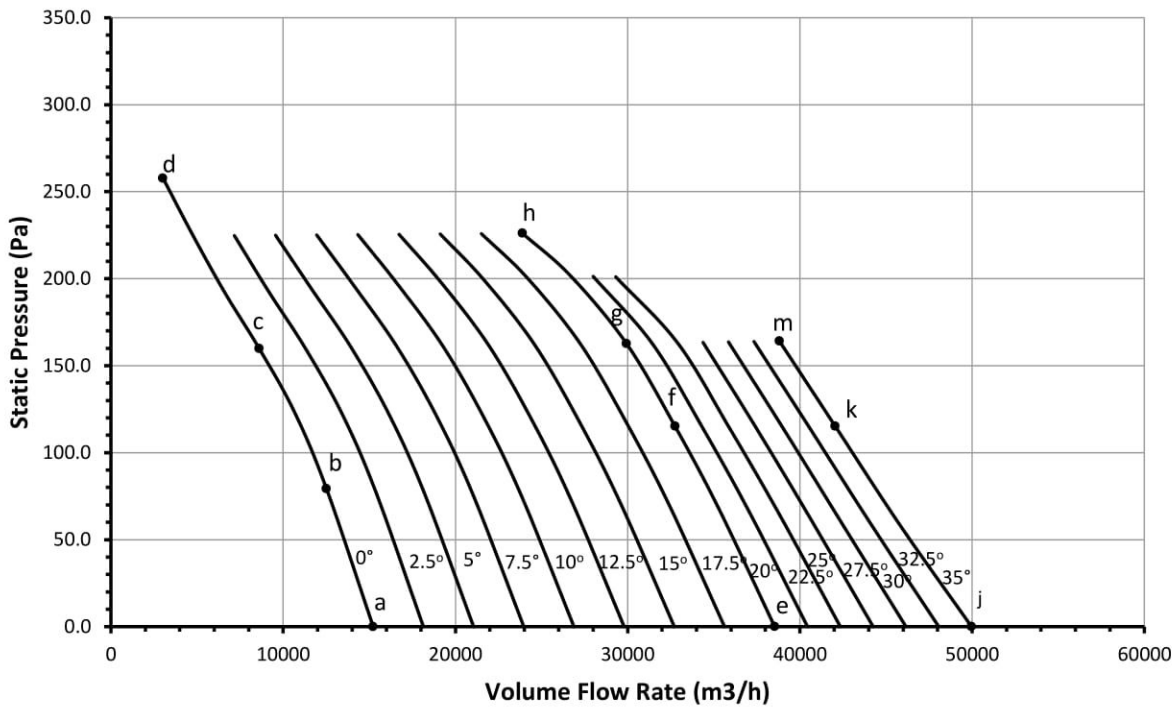
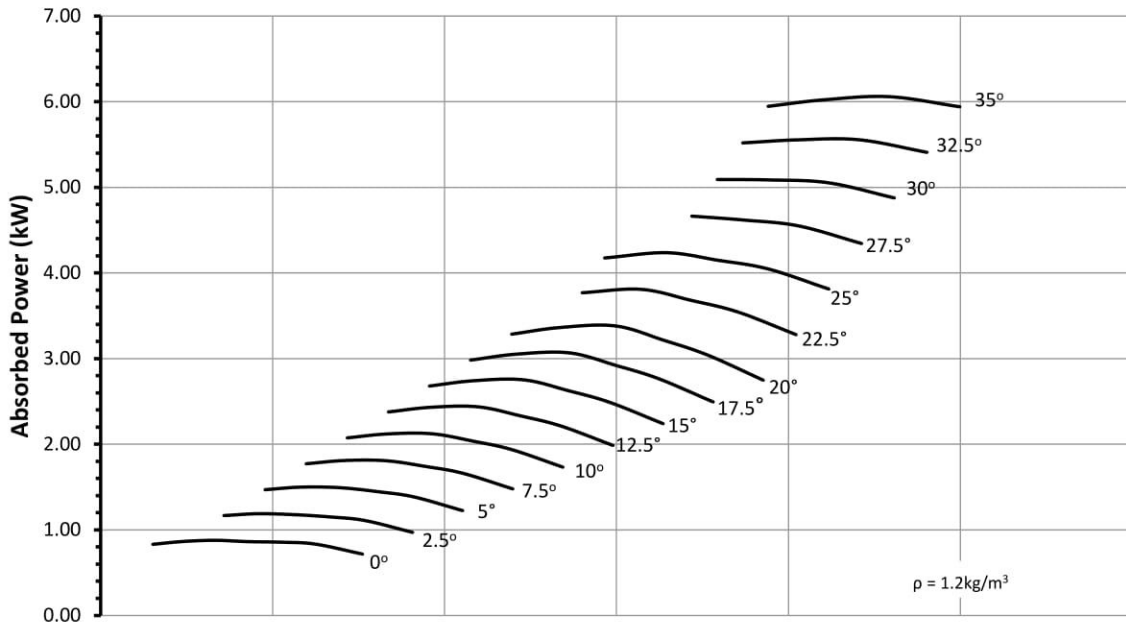
AAOM 1000-400-08C

60Hz 864 rpm

FEG 60

SAOM 1000-400-08C

Outlet Area: 0.793 m²



Ref	Full Octave Band Center Frequency								L _w A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	89	88	88	88	86	82	75	66	90
b	89	88	91	89	84	79	72	64	90
c	101	93	89	85	81	78	70	63	87
d	96	91	87	83	81	79	74	70	87
e	94	95	92	87	83	81	76	69	90
f	92	94	91	85	81	79	75	69	88
g	93	93	90	85	82	80	76	69	88
h	94	98	96	90	86	83	78	72	93
j	96	99	95	90	86	83	79	74	93
k	94	96	93	89	86	84	79	75	92
m	95	98	94	89	86	84	79	75	92



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_{wi} and L_{wj}A sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

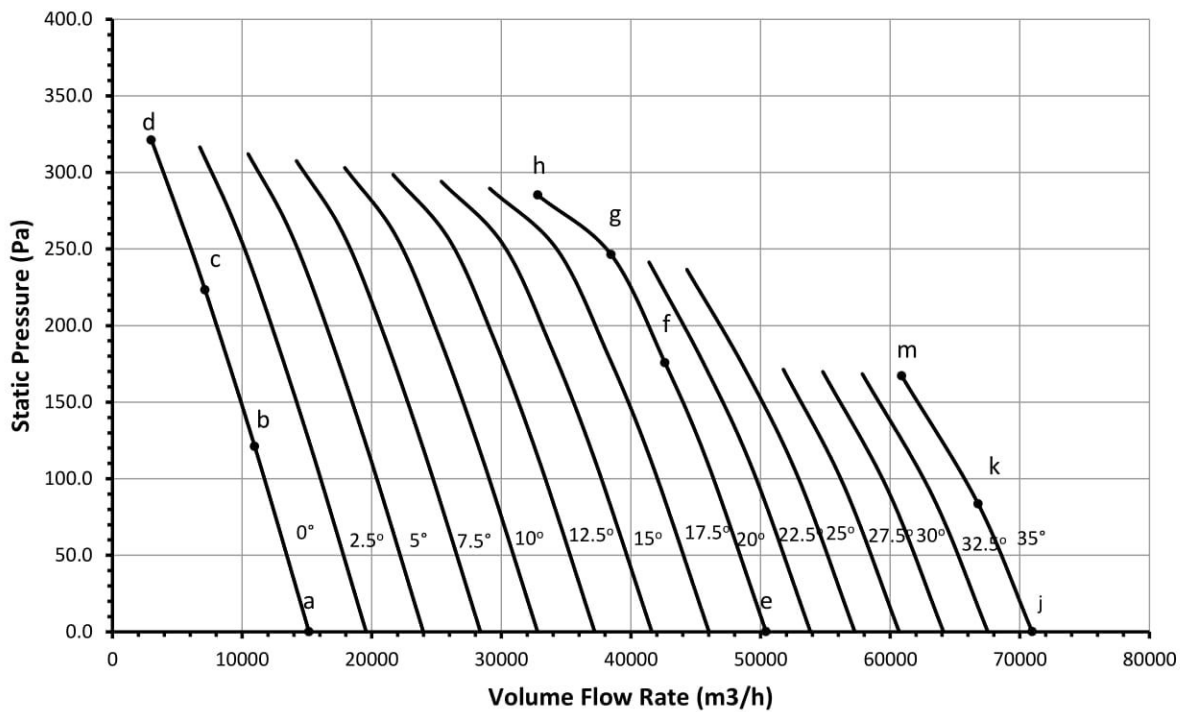
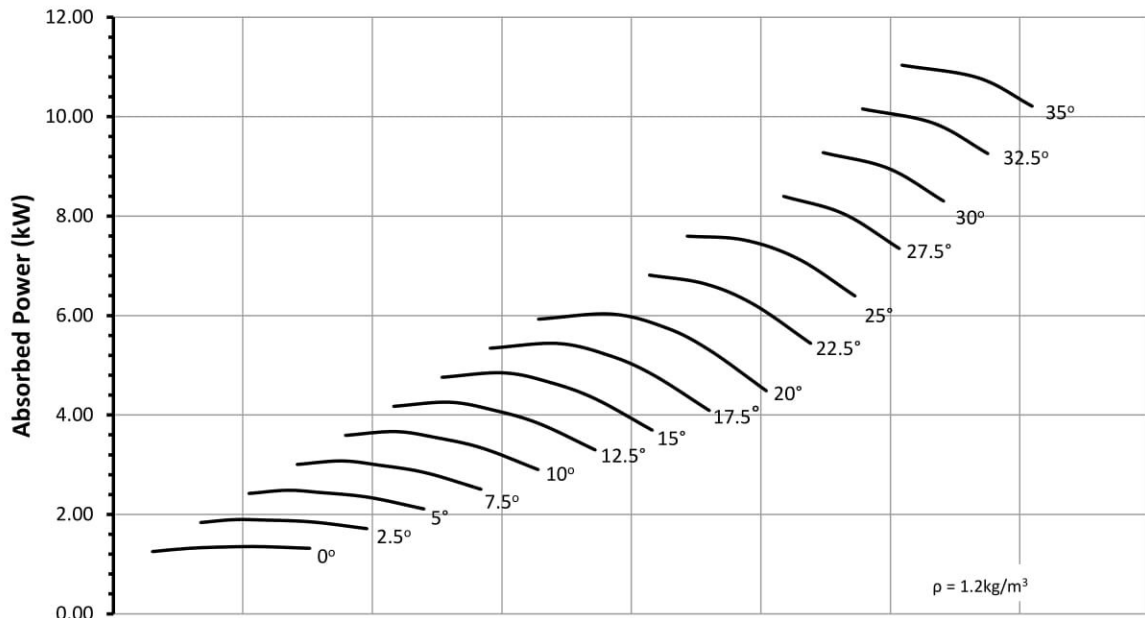
AAOM 1120-400-12C

60Hz 864 rpm

FEG 56

SAOM 1120-400-12C

Outlet Area: 0.994 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)	
	63	125	250	500	1K	2K	4K	8K		
a	95	98	96	92	89	86	83	79	70	95
b	96	96	92	89	87	84	81	76	68	92
c	95	93	89	87	86	83	76	69		90
d	96	95	91	88	86	83	78	73		91
e	99	99	95	91	88	87	82	74		94
f	99	100	94	89	87	85	81	74		93
g	100	100	97	93	91	87	82	75		96
h	103	104	101	96	92	87	81	74		98
j	104	102	97	93	90	86	82	77		96
k	103	103	97	93	90	86	82	77		96
m	103	101	96	93	90	87	83	78		96



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_Wi and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Performance Curve

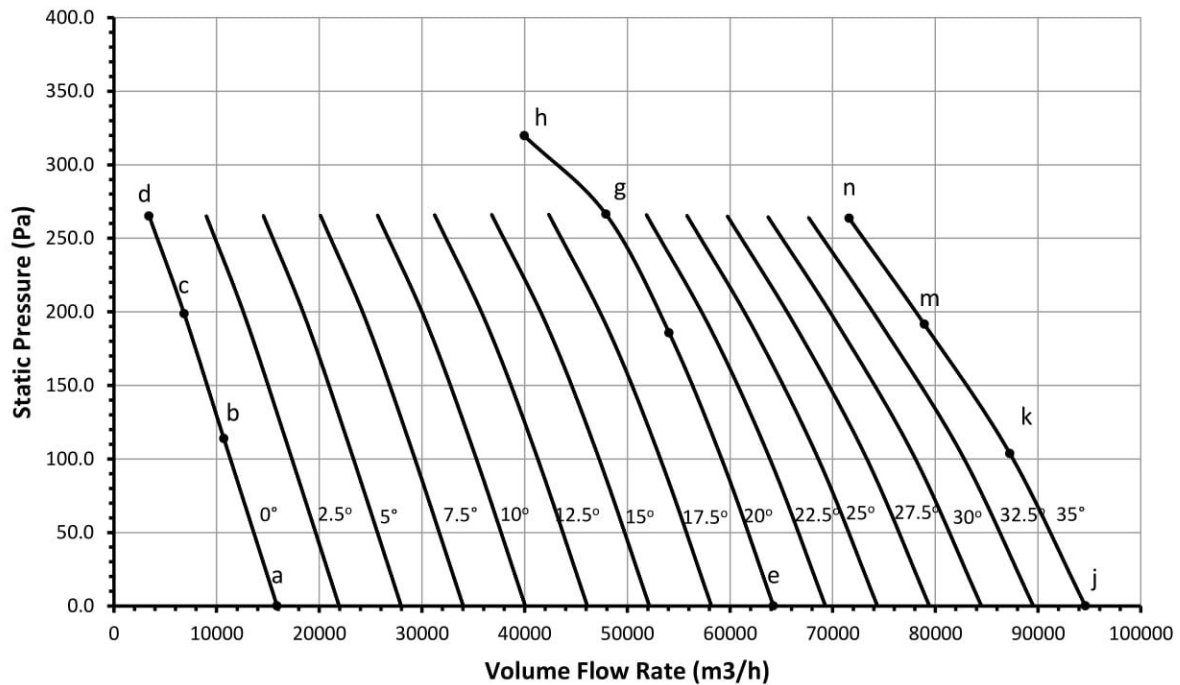
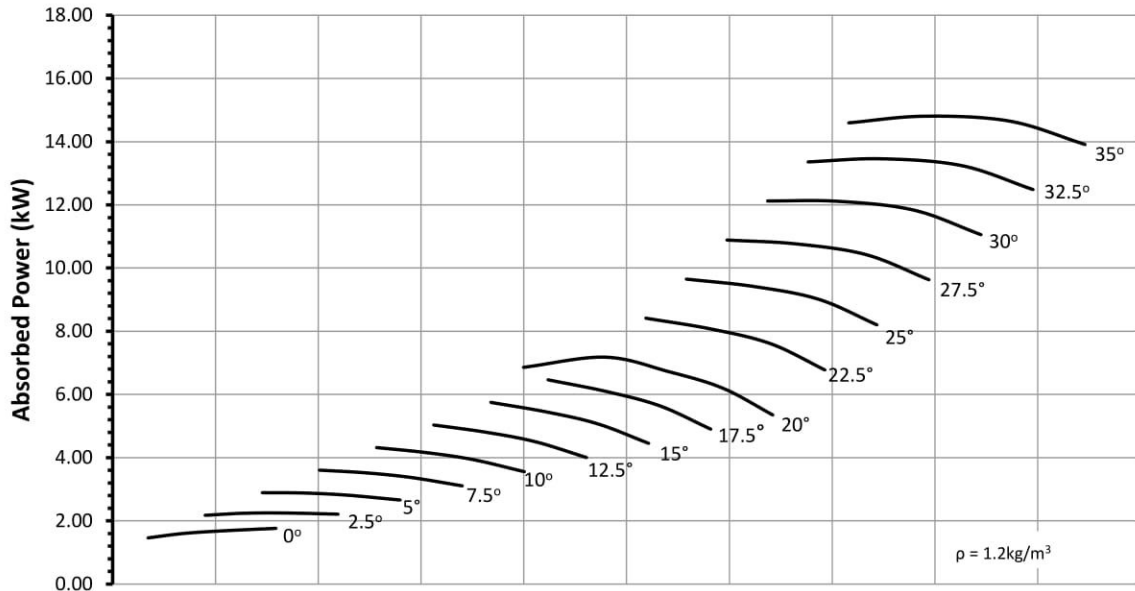
AAOM 1250-400-12C

60Hz 864 rpm

FEG 63

SAOM 1250-400-12C

Outlet Area: 1.237 m²



Ref	Full Octave Band Center Frequency								L _W A dB(A)
	63	125	250	500	1K	2K	4K	8K	
a	99	98	96	94	92	88	82	73	96
b	96	93	91	91	90	87	80	70	94
c	97	93	90	90	90	86	80	72	94
d	97	93	90	90	89	87	81	74	94
e	100	97	98	95	91	90	87	79	97
f	99	97	98	97	95	92	87	78	100
g	100	104	103	100	96	91	85	77	102
h	108	108	103	98	94	89	83	76	101
j	106	101	100	97	93	90	86	80	99
k	106	100	99	97	93	90	86	81	99
m	104	100	100	98	95	92	87	82	100
n	108	107	103	100	97	93	88	82	103



Performance certified is for Installation type D: Ducted Inlet-Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW is fan input power. The Sound Power Level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_Wi and L_WA sound power levels for Installation type D: Ducted Inlet-Ducted Outlet. Ratings include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

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