



ME

Axial Inline Fans - AM Series

2026 Products Catalogue



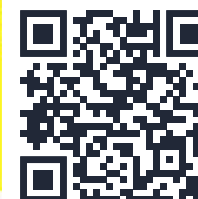
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ME remains dedicated to quality at every stage of design and manufacturing. They are **ISO 9001** certified, and their products are approved by the **Egyptian Organization for Standardization and Quality (EOS)**.

ME supplies a variety of industrial and ventilation fans for different applications, including industrial plants, commercial establishments, smoke extraction systems, and general ventilation needs.



Mechatronics Engineering (ME). certifies that the axial flow fans type AF sizes 450/9, 500/9, 560/9, 630/9, 710/9, 800/9, 900/9, 1000/9 and 1100/9 as 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.

Who We Are

Since its establishment, [Mechatronics Engineering Industries \(ME\)](#) has specialized in the design and manufacture of high-performance industrial fans and accessories. Our deep-rooted expertise, combined with cutting-edge engineering technology, has positioned us as a national leader in fan manufacturing.

What sets [\(ME\)](#) apart is our application expertise and commitment to customer-focused innovation. Our engineering team is renowned for delivering fast, effective solutions whether optimizing existing fan technology or designing and prototyping custom fan systems. This dedication to problem-solving has earned us the trust of our customers, who consistently rely on us for their air-moving needs. Simply put, we don't just build fans; we engineer solutions.

Our Vision

To be a global leader in fan engineering and FRP (Fiber Reinforced Plastic) technology by driving innovation, optimizing resource consumption, and delivering cutting-edge fan solutions. We strive to outperform the competition through technological advancements, industry-leading quality, and a commitment to sustainable development. Our goal is to serve the global community with innovative, high-efficiency fan products while upholding the highest industry

Our Mission

We are dedicated to delivering high-quality products, efficient services, and competitive pricing while maintaining technical superiority. Our mission is to contribute to the advancement of global industries by providing exceptional fan technology solutions that enhance efficiency, sustainability, and performance. We remain committed to creating value for our customers, employees, and stakeholders, ensuring long-term success for all.



Research & Development

The Research & Development division is dedicated to the continuous pursuit of optimized performance, exploring product evolutions, and industrializing new solutions.

Our ME team employs cutting-edge Finite Element Method (FEM) and Computational Fluid Dynamics (CFD) technologies.

FEM - Finite Element Model

Finite element methods (FEM) are widely used to analyze and optimize industrial fan blades, particularly axial fan blades, to enhance performance, durability, and efficiency under demanding conditions like high vibration, temperature, and corrosion. FEM involves discretizing the blade into smaller elements to simulate physical behavior, such as stress, deformation, vibration, and fatigue, enabling engineers to predict performance and refine designs without costly physical prototypes. Below is a concise overview of FEM applications for industrial fan blades based on recent research and engineering practices.

We conducted the following studies as per project based on customer need:

- Stress and Deformation Analysis.
- Optimization of Blade Geometry.
- Vibration and Resonance Analysis.
- Fatigue and Failure Analysis.
- Aerodynamic and Aeroacoustic Performance.
- Material and Manufacturing Considerations.

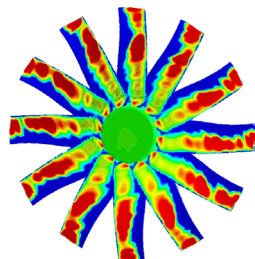
CFD - Computational Fluid Dynamics

Computational Fluid Dynamics (CFD) is a critical tool for analyzing and optimizing industrial fan performance, particularly for axial and centrifugal fans used in industries like HVAC, power generation. ME perform Aerodynamic Performance Analysis as per project based on adhoc projects and customer needs as following:

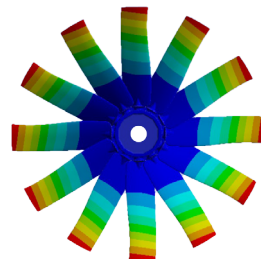
- Pressure and Flow Distribution.
- Tip Leakage and Vortices.
- Stall and Surge.
- Aeroacoustic Analysis based on blade profile.

Key benefits include:

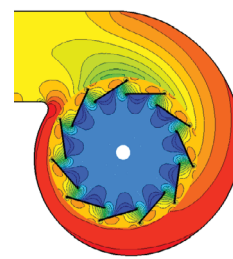
- Reduced Physical Prototypes: Limits the number of prototypes needed for laboratory testing.
- Performance Evaluations: Assesses aerodynamic performance.
- Flow Studies: Analyzes flow in specific tunnel sections.
- Infrastructure Efficiency: Verifies the efficiency of designs.



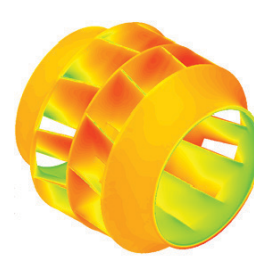
Pressure Contours
(Axial fan impeller)



Stress Analysis
(Axial fan impeller)



Pressure Contours
(Centrifugal fan)



Stress Analysis
(Centrifugal fan impeller)

Our designed fans are verified using computational fluid dynamics modeling and simulations. advanced software packages.

After completing our fans, our engineers will publish a beta version software [SelectME](#) which will be an extremely helpful tool to assist with the selection of products to meet your project requirements. The software will provide a detailed datasheets comprising efficiency, performance, sounds, wiring, dimensional data and specification. The software will also allow all obtained data to be exported to suit your needs.

Axial Inline Fans-Long/Short Casing

AF Series

Casing

The all metal fan casing provides a very durable and robust construction. The fan casings are constructed from a heavy gauge mild sheet steel, rolled, flanged, fully welded, fabricated and electro-static painted.

Impellers

Adjustable pitch impellers are provided with blades made from high quality cast aluminum, Impellers are factory set to meet specific customer requirements.

Motors

Motors can be foot or pad mounted, totally enclosed metric type to IP55 with a standard industrial paint finish and Class F insulation. Motors are wired via a weatherproofed cable.

Quality Management

Fans are designed and manufactured with procedures as defined in ISO 9001.

Variants

2/4/6 and 8 poles motors are available and can be controlled by VSD. Performance data sheets are available for each impeller diameter, blade angle and speed. Each of our data sheets contains complete air performance characteristics.

Hubs

5 Hub sizes from 96 mm to 375 mm diameter provide almost infinite possibilities, whether performance sound levels or power consumption is the key requirement. All hubs are cast from high-grade aluminum alloy.

Axial Inline Fans-Long/Short Casing

AM Series

Fan Components and Material Properties:

Body is made of sheet steel with electrostatic powder coating. Impeller is made of cast aluminum alloy. The motors are IP55 class, 2/4/6 and 8-poles motors, Efficiency class IE3 and Class [F] insulated. Airflow direction is from impeller to motor. Variable pitch angle for achieving optimum flow conditions. Can be installed vertically and horizontally according to the usage. The device is capable of exhaust air at maximum temperature 50 °C.

Fan Structure:

Available in long casing (L), Short Casing (S). The fan blades are manufactured in airfoil profile to achieve high aerodynamic efficiency. The fan part of the fan is balanced dynamically based on ISO 14694 and AMCA 204 standards.

Benefits:

It works with low noise levels and is designed to be maintenance-free for long periods of time.

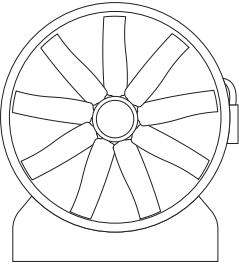
Usage Areas:

It is used for ventilation of high-volume factory, warehouse and hangars. It provides the ideal solution for large areas with its high flow rates and static pressures.

Designation Key:

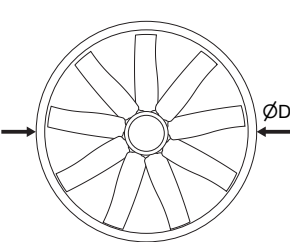
AF-L-800-9/30/AM-4T-10 (e.g.)

AF-L



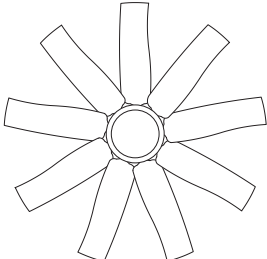
Inline-Long

800



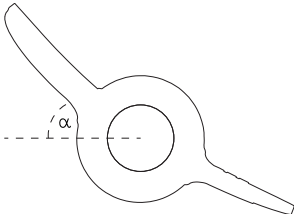
Diameter in mm

9



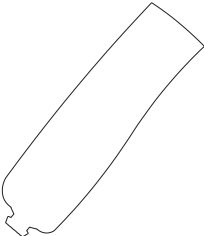
No. of Blades

30



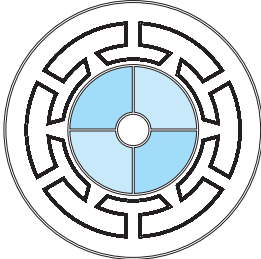
Blade Angles

AM



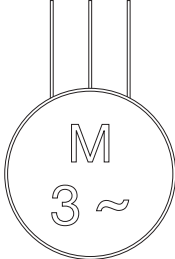
Blades Type

4



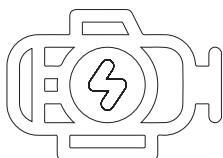
No. of Poles

T



No. of Phases

10

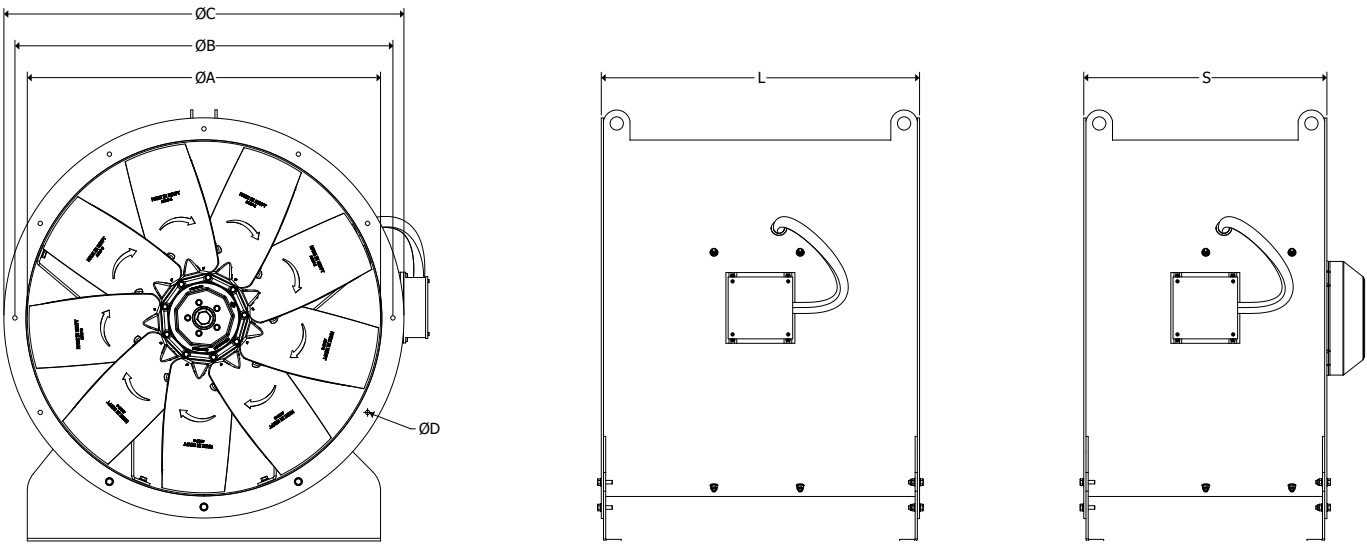


Motor Power in HP

Axial Inline Fans-Long/Short Casing

AM Series

Geometric Characteristics

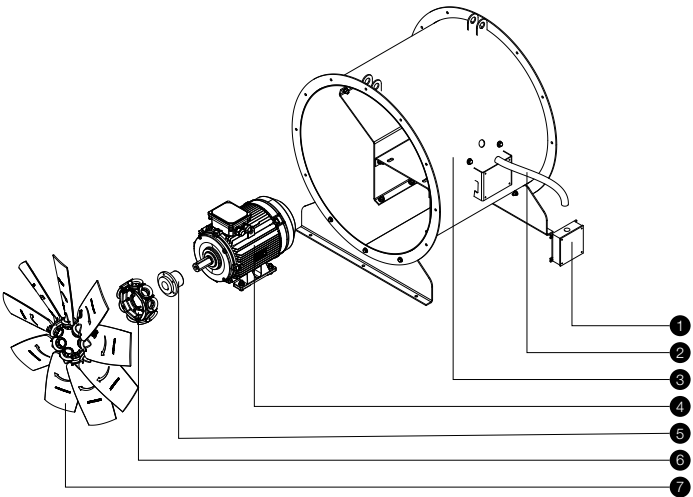


All Dimensions in mm

Model	A	B	C	D	L	S
AF-450	450	500	550	10	375	280
AF-500	500	550	600	10	450	340
AF-560	560	610	660	10	490	370
AF-630	630	680	730	10	500	380
AF-710	710	760	810	10	570	420
AF-800	800	850	900	10	720	550
AF-900	900	950	1000	10	770	590
AF-1000	1000	1050	1100	12	820	630
AF-1100	1100	1150	1200	12	910	660
AF-1250	1250	1300	1350	12	910	670
AF-1350	1350	1400	1450	12	960	760

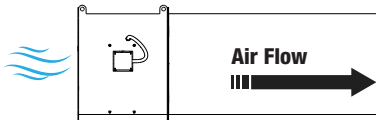
Bill of Materials Characteristics

- 1. Electrical Box.
- 2. Flexible Conduit.
- 3. Fan Casing. (Body)
- 4. Electrical Motor.
- 5. Sleeve.
- 6. Aluminum Hub.
- 7. AM Blades.



AF Series

- Nominal Diameter
450 mm
- Hub Type
9
- No. of Blades
9

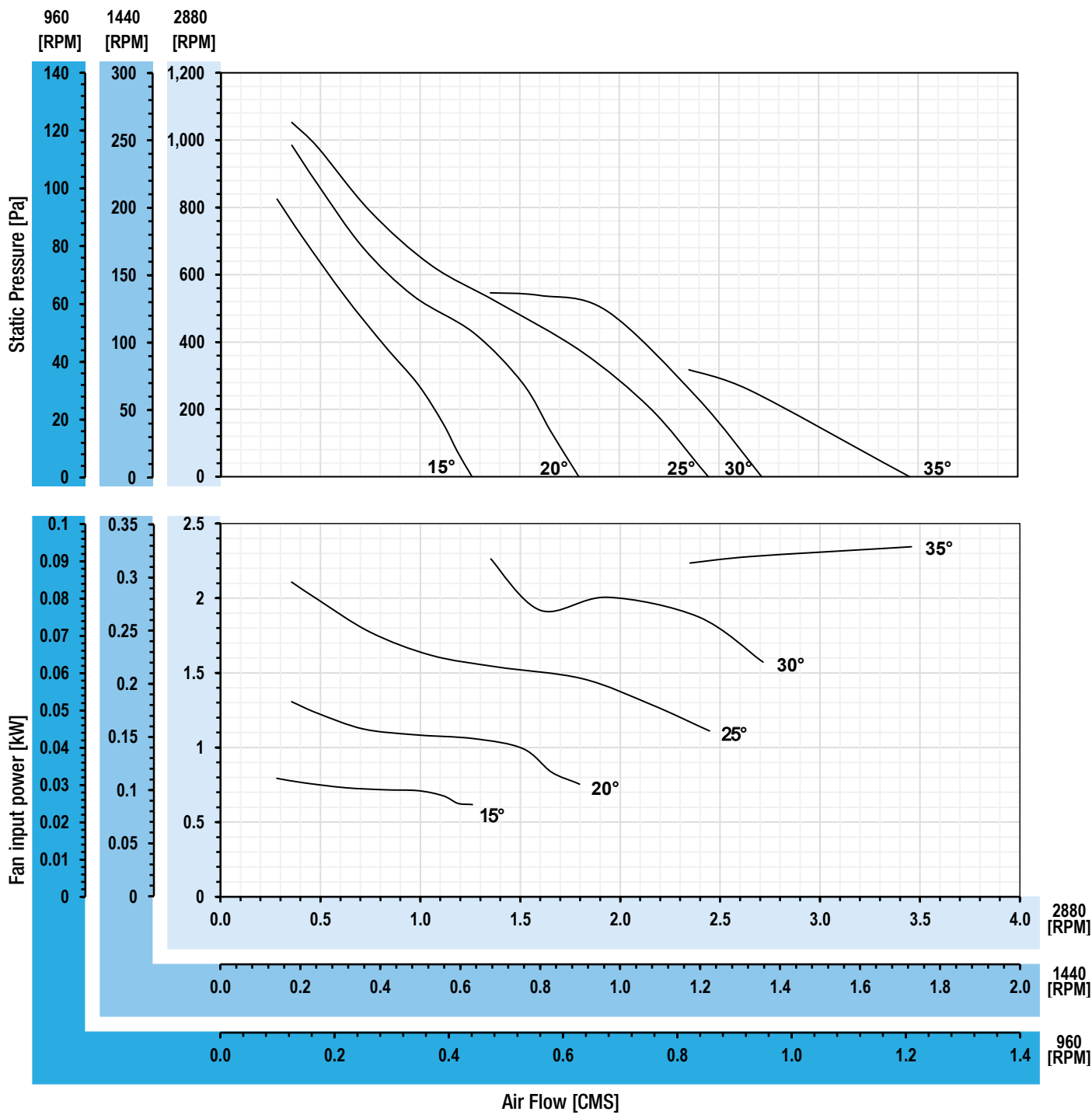


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	0.42	0.0	30.7	35.2	40.7	39.7	36.2	30.7	25.7	19.2	45.0	40.9
	0.21	59.5	52.0	56.5	62.0	61.0	57.5	52.0	47.0	40.5	66.2	62.2
20°	0.60	0.0	35.7	40.2	45.7	44.7	41.2	35.7	30.7	24.2	50.0	45.9
	0.42	47.5	51.4	55.9	61.4	60.4	56.9	51.4	46.4	39.9	65.6	61.6
25°	0.82	0.0	42.6	47.1	52.6	51.6	48.1	42.6	37.6	31.1	56.9	52.9
	0.46	57.7	49.8	53.8	59.8	58.8	55.3	49.8	44.8	38.3	64.1	60.1
30°	0.90	0.0	48.4	52.9	58.4	57.4	53.9	48.4	43.4	36.9	62.7	58.7
	0.65	54.8	55.2	59.7	65.2	64.2	60.7	55.2	50.2	43.7	69.5	65.4
35°	1.15	0.0	51.8	56.3	61.8	60.8	57.3	51.8	46.8	40.3	66.1	62.0
	0.78	35.3	52.0	56.5	62.0	61.0	57.5	52.0	47.0	40.5	66.3	62.3

Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	0.63	0.0	30.7	35.2	40.7	39.7	36.2	30.7	25.7	19.2	45.0	40.9
	0.31	133.9	52.0	56.5	62.0	61.0	57.5	52.0	47.0	40.5	66.2	62.2
20°	0.90	0.0	44.5	49.0	54.5	53.5	50.0	44.5	39.5	33.0	58.8	54.8
	0.63	106.9	60.2	64.7	70.2	69.2	65.7	60.2	55.2	48.7	74.4	70.4
25°	1.22	0.0	51.4	55.9	61.4	60.4	56.9	51.4	46.4	39.9	65.7	61.7
	0.69	129.9	58.7	62.7	68.7	67.7	64.2	58.7	53.7	47.2	72.9	68.9
30°	1.36	0.0	57.2	61.7	67.2	66.2	62.7	57.2	52.2	45.7	71.5	67.5
	0.97	123.2	64.0	68.5	74.0	73.0	69.5	64.0	59.0	52.5	78.3	74.2
35°	1.73	0.0	60.6	65.1	70.6	69.6	66.1	60.6	55.6	49.1	74.9	70.8
	1.17	79.4	60.8	65.3	70.8	69.8	66.3	60.8	55.8	49.3	75.1	71.1

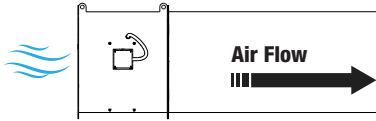
Inlet Sound Power Level @ 2880 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.26	0.0	54.5	59.0	64.5	63.5	60.0	54.5	49.5	43.0	68.8	64.8
	0.62	535.5	75.8	80.3	85.8	84.8	81.3	75.8	70.8	64.3	90.1	86.1
20°	1.80	0.0	59.6	64.1	69.6	68.6	65.1	59.6	54.6	48.1	73.8	69.8
	1.27	427.7	75.2	79.7	85.2	84.2	80.7	75.2	70.2	63.7	89.5	85.5
25°	2.45	0.0	66.5	71.0	76.5	75.5	72.0	66.5	61.5	55.0	80.8	76.7
	1.38	519.7	73.7	77.7	83.7	82.7	79.2	73.7	68.7	62.2	87.9	83.9
30°	2.71	0.0	72.3	76.8	82.3	81.3	77.8	72.3	67.3	60.8	86.5	82.5
	1.94	493.0	79.0	83.5	89.0	88.0	84.5	79.0	74.0	67.5	93.3	89.3
35°	3.46	0.0	75.6	80.1	85.6	84.6	81.1	75.6	70.6	64.1	89.9	85.9
	2.35	317.8	75.9	80.4	85.9	84.9	81.4	75.9	70.9	64.4	90.2	86.1

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF-L/S-500-9/AM

AF Series

- Nominal Diameter
500 mm
- Hub Type
9
- No. of Blades
9

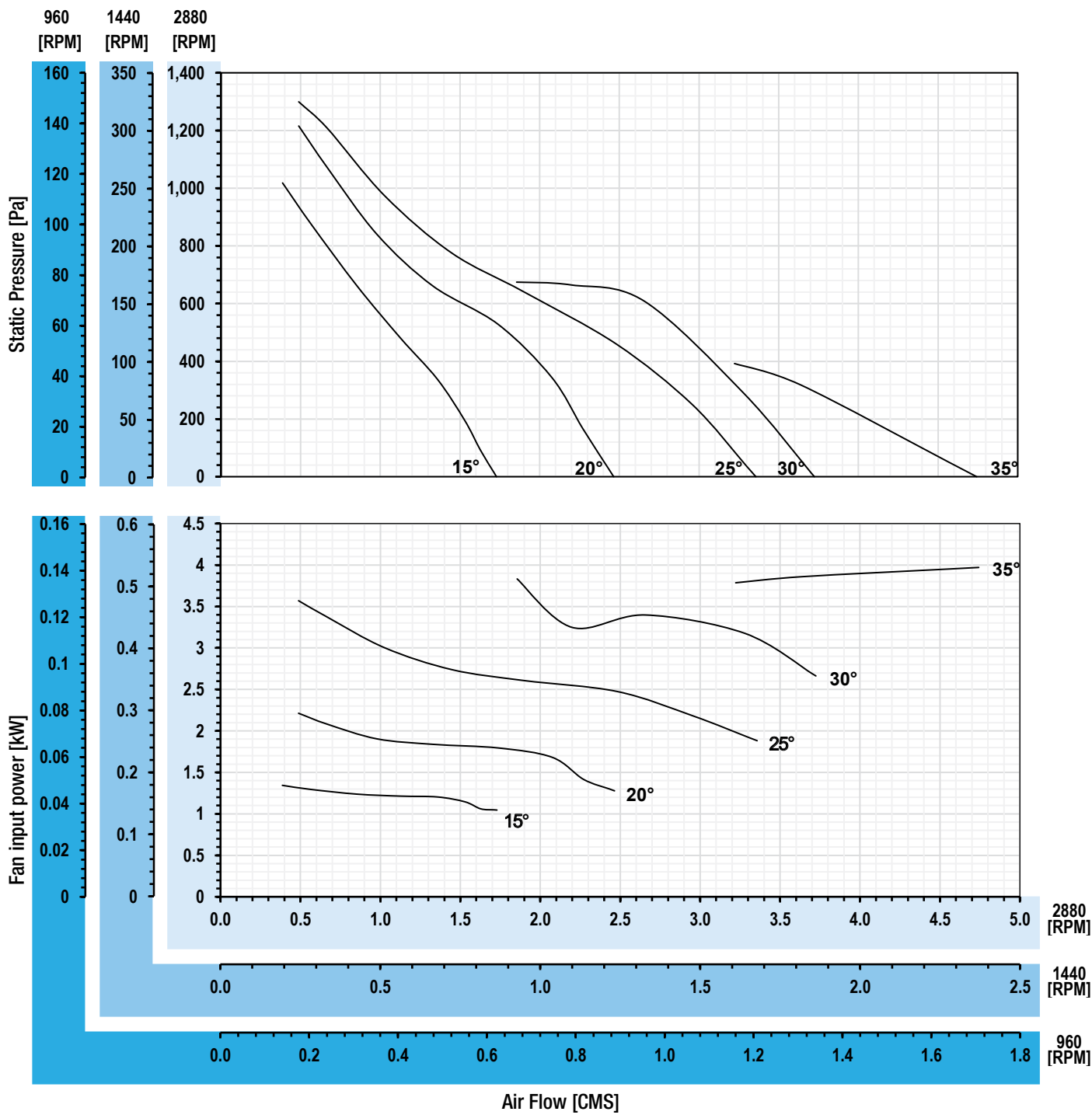


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



AF-L/S-500-9/AM

Acoustic Performance

Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	0.58	0.0	34.8	39.3	44.8	43.8	40.3	34.8	29.8	23.3	49.1	45.1
	0.28	73.5	56.1	60.6	66.1	65.1	61.6	56.1	51.1	44.6	70.4	66.3
20°	0.82	0.0	39.8	44.3	49.8	48.8	45.3	39.8	34.8	28.3	54.1	50.1
	0.58	58.7	55.5	60.0	65.5	64.5	61.0	55.5	50.5	44.0	69.7	65.7
25°	1.12	0.0	46.7	51.2	56.7	55.7	52.2	46.7	41.7	35.2	61.0	57.0
	0.63	71.3	54.0	58.0	64.0	63.0	59.5	54.0	49.0	42.5	68.2	64.2
30°	1.24	0.0	52.5	57.0	62.5	61.5	58.0	52.5	47.5	41.0	66.8	62.8
	0.89	67.6	59.3	63.8	69.3	68.3	64.8	59.3	54.3	47.8	73.6	69.5
35°	1.58	0.0	55.9	60.4	65.9	64.9	61.4	55.9	50.9	44.4	70.2	66.2
	1.07	43.6	56.1	60.6	66.1	65.1	61.6	56.1	51.1	44.6	70.4	66.4

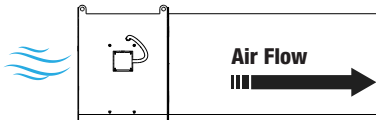
Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	0.86	0.0	34.8	39.3	44.8	43.8	40.3	34.8	29.8	23.3	49.1	45.1
	0.43	165.3	56.1	60.6	66.1	65.1	61.6	56.1	51.1	44.6	70.4	66.3
20°	1.23	0.0	48.6	53.1	58.6	57.6	54.1	48.6	43.6	37.1	62.9	58.9
	0.87	132.0	64.3	68.8	74.3	73.3	69.8	64.3	59.3	52.8	78.5	74.5
25°	1.68	0.0	55.6	60.1	65.6	64.6	61.1	55.6	50.6	44.1	69.8	65.8
	0.95	160.4	62.8	66.8	72.8	71.8	68.3	62.8	57.8	51.3	77.0	73.0
30°	1.86	0.0	61.3	65.8	71.3	70.3	66.8	61.3	56.3	49.8	75.6	71.6
	1.33	152.1	68.1	72.6	78.1	77.1	73.6	68.1	63.1	56.6	82.4	78.4
35°	2.37	0.0	64.7	69.2	74.7	73.7	70.2	64.7	59.7	53.2	79.0	75.0
	1.61	98.1	65.0	69.5	75.0	74.0	70.5	65.0	60.0	53.5	79.2	75.2

Inlet Sound Power Level @ 2880 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.73	0.0	58.7	63.2	68.7	67.7	64.2	58.7	53.7	47.2	72.9	68.9
	0.85	661.1	80.0	84.5	90.0	89.0	85.5	80.0	75.0	68.5	94.2	90.2
20°	2.46	0.0	63.7	68.2	73.7	72.7	69.2	63.7	58.7	52.2	77.9	73.9
	1.74	528.0	79.3	83.8	89.3	88.3	84.8	79.3	74.3	67.8	93.6	89.6
25°	3.36	0.0	70.6	75.1	80.6	79.6	76.1	70.6	65.6	59.1	84.9	80.8
	1.90	641.6	77.8	81.8	87.8	86.8	83.3	77.8	72.8	66.3	92.0	88.1
30°	3.72	0.0	76.4	80.9	86.4	85.4	81.9	76.4	71.4	64.9	90.7	86.6
	2.66	608.6	83.2	87.7	93.2	92.2	88.7	83.2	78.2	71.7	97.4	93.4
35°	4.74	0.0	79.8	84.3	89.8	88.8	85.3	79.8	74.8	68.3	94.0	90.0
	3.22	392.3	80.0	84.5	90.0	89.0	85.5	80.0	75.0	68.5	94.3	90.2

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF Series

- Nominal Diameter
560 mm
- Hub Type
9
- No. of Blades
9

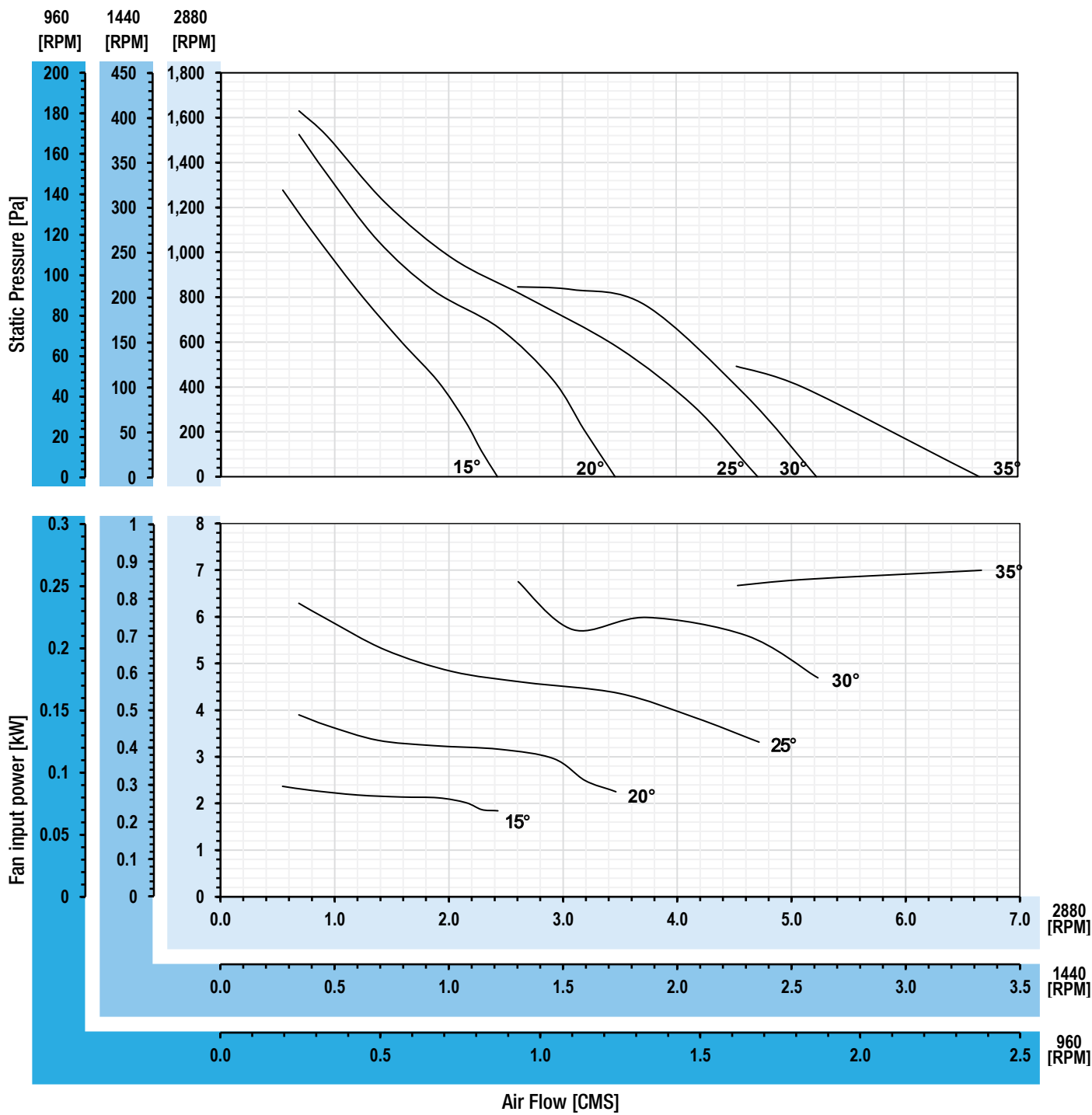


Technical Specifications

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Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
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BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	0.81	0.0	39.2	43.7	49.2	48.2	44.7	39.2	34.2	27.7	53.5	49.5
	0.40	92.1	60.5	65.0	70.5	69.5	66.0	60.5	55.5	49.0	74.8	70.8
20°	1.15	0.0	44.3	48.8	54.3	53.3	49.8	44.3	39.3	32.8	58.5	54.5
	0.81	73.6	59.9	64.4	69.9	68.9	65.4	59.9	54.9	48.4	74.2	70.1
25°	1.57	0.0	51.2	55.7	61.2	60.2	56.7	51.2	46.2	39.7	65.4	61.4
	0.89	89.4	58.4	62.4	68.4	67.4	63.9	58.4	53.4	46.9	72.6	68.6
30°	1.74	0.0	57.0	61.5	67.0	66.0	62.5	57.0	52.0	45.5	71.2	67.2
	1.24	84.8	63.7	68.2	73.7	72.7	69.2	63.7	58.7	52.2	78.0	74.0
35°	2.22	0.0	60.3	64.8	70.3	69.3	65.8	60.3	55.3	48.8	74.6	70.6
	1.51	54.7	60.6	65.1	70.6	69.6	66.1	60.6	55.6	49.1	74.8	70.8

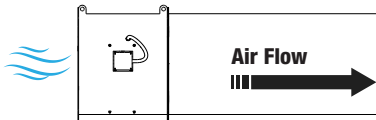
Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.21	0.0	39.2	43.7	49.2	48.2	44.7	39.2	34.2	27.7	53.5	49.5
	0.60	207.3	60.5	65.0	70.5	69.5	66.0	60.5	55.5	49.0	74.8	70.8
20°	1.73	0.0	53.1	57.6	63.1	62.1	58.6	53.1	48.1	41.6	67.3	63.3
	1.22	165.6	68.7	73.2	78.7	77.7	74.2	68.7	63.7	57.2	83.0	79.0
25°	2.36	0.0	60.0	64.5	70.0	69.0	65.5	60.0	55.0	48.5	74.2	70.2
	1.33	201.2	67.2	71.2	77.2	76.2	72.7	67.2	62.2	55.7	81.4	77.4
30°	2.62	0.0	65.8	70.3	75.8	74.8	71.3	65.8	60.8	54.3	80.0	76.0
	1.87	190.9	72.5	77.0	82.5	81.5	78.0	72.5	67.5	61.0	86.8	82.8
35°	3.33	0.0	69.1	73.6	79.1	78.1	74.6	69.1	64.1	57.6	83.4	79.4
	2.26	123.0	69.4	73.9	79.4	78.4	74.9	69.4	64.4	57.9	83.6	79.6

Inlet Sound Power Level @ 2880 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	2.43	0.0	63.1	67.6	73.1	72.1	68.6	63.1	58.1	51.6	77.4	73.3
	1.20	829.3	84.4	88.9	94.4	93.4	89.9	84.4	79.4	72.9	98.6	94.6
20°	3.46	0.0	68.1	72.6	78.1	77.1	73.6	68.1	63.1	56.6	82.4	78.4
	2.44	662.3	83.8	88.3	93.8	92.8	89.3	83.8	78.8	72.3	98.0	94.0
25°	4.72	0.0	75.0	79.5	85.0	84.0	80.5	75.0	70.0	63.5	89.3	85.3
	2.67	804.9	82.3	86.3	92.3	91.3	87.8	82.3	77.3	70.8	96.5	92.5
30°	5.23	0.0	80.8	85.3	90.8	89.8	86.3	80.8	75.8	69.3	95.1	91.1
	3.73	763.4	87.6	92.1	97.6	96.6	93.1	87.6	82.6	76.1	101.9	97.8
35°	6.66	0.0	84.2	88.7	94.2	93.2	89.7	84.2	79.2	72.7	98.5	94.4
	4.53	492.1	84.4	88.9	94.4	93.4	89.9	84.4	79.4	72.9	98.7	94.7

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF Series

-  Nominal Diameter
630 mm
-  Hub Type
9
-  No. of Blades
9

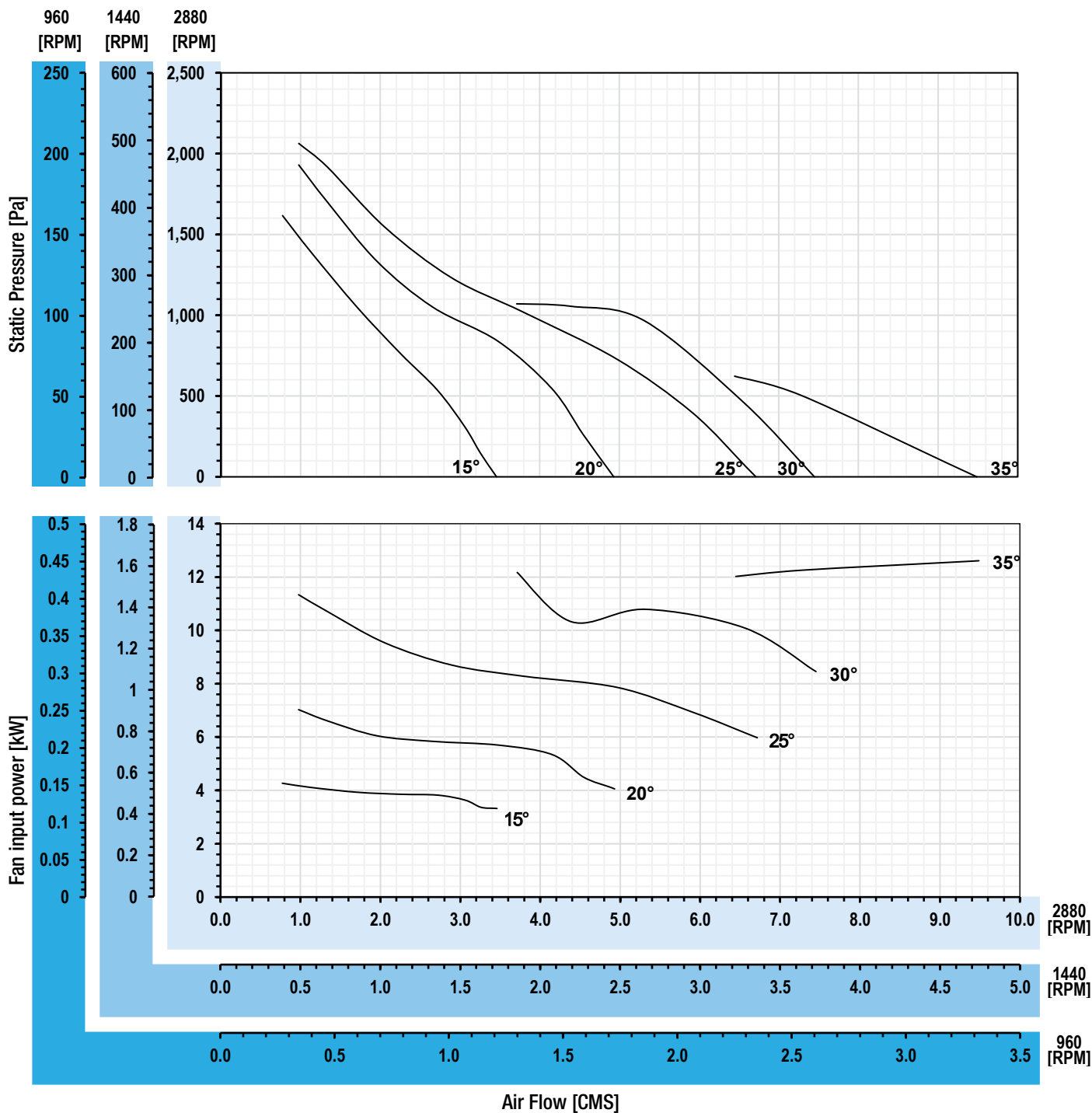


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.15	0.0	43.8	48.3	53.8	52.8	49.3	43.8	38.8	32.3	58.1	54.1
	0.57	116.6	65.1	69.6	75.1	74.1	70.6	65.1	60.1	53.6	79.4	75.4
20°	1.64	0.0	48.9	53.4	58.9	57.9	54.4	48.9	43.9	37.4	63.1	59.1
	1.16	93.1	64.5	69.0	74.5	73.5	70.0	64.5	59.5	53.0	78.8	74.7
25°	2.24	0.0	55.8	60.3	65.8	64.8	61.3	55.8	50.8	44.3	70.0	66.0
	1.27	113.2	63.0	67.0	73.0	72.0	68.5	63.0	58.0	51.5	77.2	73.2
30°	2.48	0.0	61.6	66.1	71.6	70.6	67.1	61.6	56.6	50.1	75.8	71.8
	1.77	107.4	68.3	72.8	78.3	77.3	73.8	68.3	63.3	56.8	82.6	78.6
35°	3.16	0.0	64.9	69.4	74.9	73.9	70.4	64.9	59.9	53.4	79.2	75.2
	2.15	69.2	65.2	69.7	75.2	74.2	70.7	65.2	60.2	53.7	79.4	75.4

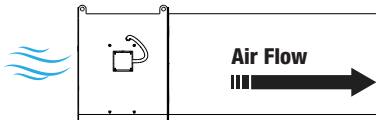
Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.73	0.0	43.8	48.3	53.8	52.8	49.3	43.8	38.8	32.3	58.1	54.1
	0.85	262.4	65.1	69.6	75.1	74.1	70.6	65.1	60.1	53.6	79.4	75.4
20°	2.47	0.0	57.7	62.2	67.7	66.7	63.2	57.7	52.7	46.2	71.9	67.9
	1.74	209.6	73.3	77.8	83.3	82.3	78.8	73.3	68.3	61.8	87.6	83.6
25°	3.36	0.0	64.6	69.1	74.6	73.6	70.1	64.6	59.6	53.1	78.9	74.8
	1.90	254.7	71.8	75.8	81.8	80.8	77.3	71.8	66.8	60.3	86.0	82.0
30°	3.72	0.0	70.4	74.9	80.4	79.4	75.9	70.4	65.4	58.9	84.6	80.6
	2.66	241.6	77.1	81.6	87.1	86.1	82.6	77.1	72.1	65.6	91.4	87.4
35°	4.74	0.0	73.7	78.2	83.7	82.7	79.2	73.7	68.7	62.2	88.0	84.0
	3.22	155.7	74.0	78.5	84.0	83.0	79.5	74.0	69.0	62.5	88.3	84.2

Inlet Sound Power Level @ 2880 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	3.46	0.0	67.7	72.2	77.7	76.7	73.2	67.7	62.7	56.2	82.0	77.9
	1.71	1049.6	89.0	93.5	99.0	98.0	94.5	89.0	84.0	77.5	103.3	99.2
20°	4.93	0.0	72.7	77.2	82.7	81.7	78.2	72.7	67.7	61.2	87.0	83.0
	3.48	838.2	88.4	92.9	98.4	97.4	93.9	88.4	83.4	76.9	102.6	98.6
25°	6.71	0.0	79.6	84.1	89.6	88.6	85.1	79.6	74.6	68.1	93.9	89.9
	3.80	1018.7	86.9	90.9	96.9	95.9	92.4	86.9	81.9	75.4	101.1	97.1
30°	7.45	0.0	85.4	89.9	95.4	94.4	90.9	85.4	80.4	73.9	99.7	95.7
	5.31	966.2	92.2	96.7	102.2	101.2	97.7	92.2	87.2	80.7	106.5	102.4
35°	9.49	0.0	88.8	93.3	98.8	97.8	94.3	88.8	83.8	77.3	103.1	99.0
	6.45	622.8	89.0	93.5	99.0	98.0	94.5	89.0	84.0	77.5	103.3	99.3

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF Series

- Nominal Diameter
710 mm
- Hub Type
9
- No. of Blades
9



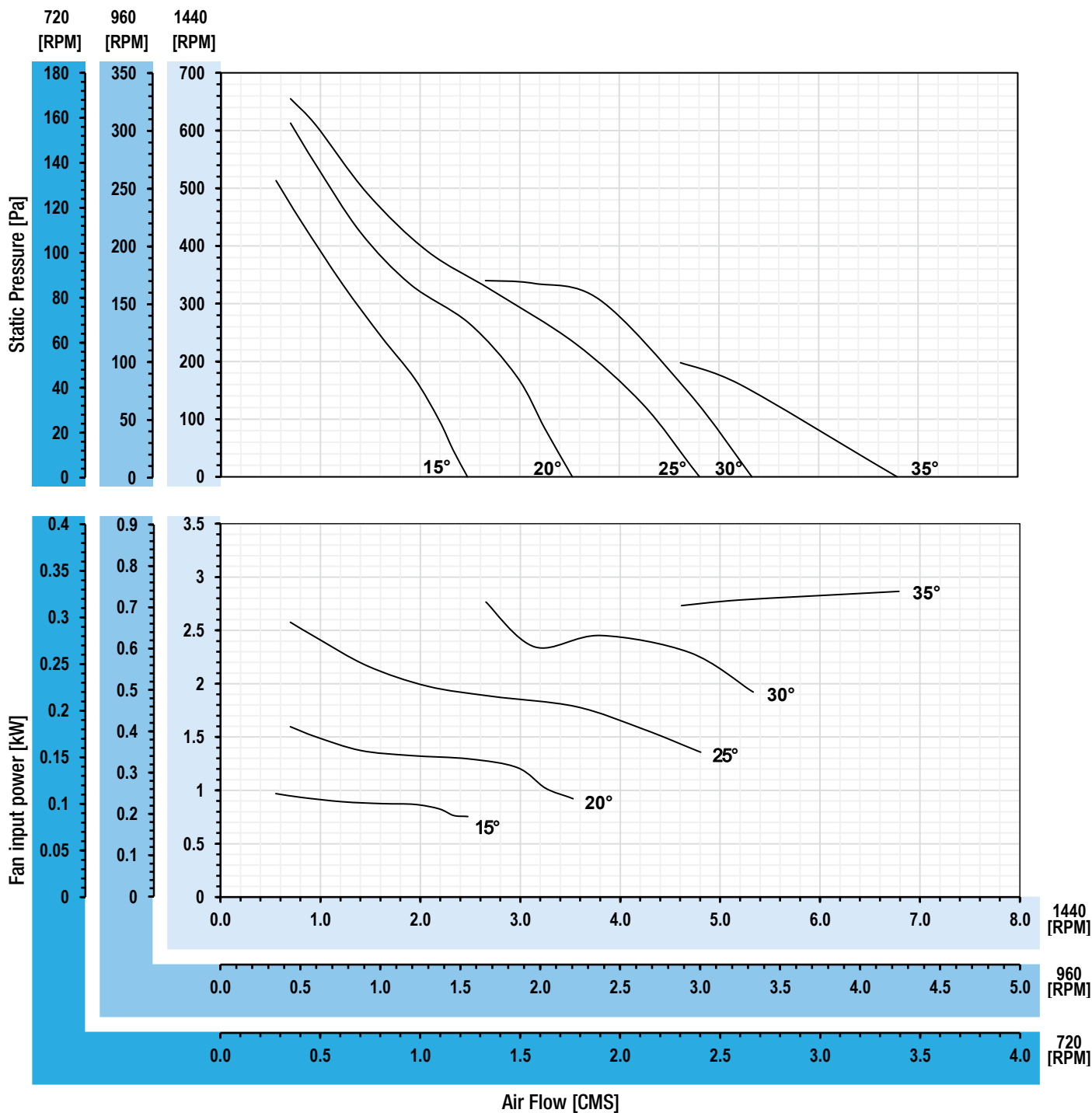
Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³. Performance tested is for installation type B - free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of accessories.

BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 720 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.24	0.0	42.3	46.8	52.3	51.3	47.8	42.3	37.3	30.8	56.5	52.5
	0.61	83.3	63.6	68.1	73.6	72.6	69.1	63.6	58.6	52.1	77.8	73.8
20°	1.76	0.0	47.3	51.8	57.3	56.3	52.8	47.3	42.3	35.8	61.5	57.5
	1.25	66.5	62.9	67.4	72.9	71.9	68.4	62.9	57.9	51.4	77.2	73.2
25°	2.40	0.0	54.2	58.7	64.2	63.2	59.7	54.2	49.2	42.7	68.5	64.4
	1.36	80.9	61.4	65.4	71.4	70.4	66.9	61.4	56.4	49.9	75.6	71.7
30°	2.67	0.0	60.0	64.5	70.0	69.0	65.5	60.0	55.0	48.5	74.3	70.2
	1.90	76.7	66.8	71.3	76.8	75.8	72.3	66.8	61.8	55.3	81.0	77.0
35°	3.39	0.0	63.4	67.9	73.4	72.4	68.9	63.4	58.4	51.9	77.6	73.6
	2.31	49.4	63.6	68.1	73.6	72.6	69.1	63.6	58.6	52.1	77.9	73.9

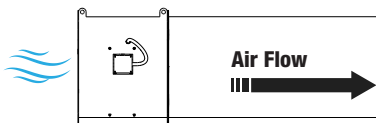
Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.65	0.0	42.3	46.8	52.3	51.3	47.8	42.3	37.3	30.8	56.5	52.5
	0.82	148.1	63.6	68.1	73.6	72.6	69.1	63.6	58.6	52.1	77.8	73.8
20°	2.35	0.0	53.5	58.0	63.5	62.5	59.0	53.5	48.5	42.0	67.8	63.8
	1.66	118.3	69.2	73.7	79.2	78.2	74.7	69.2	64.2	57.7	83.4	79.4
25°	3.20	0.0	60.5	65.0	70.5	69.5	66.0	60.5	55.5	49.0	74.7	70.7
	1.81	143.8	67.7	71.7	77.7	76.7	73.2	67.7	62.7	56.2	81.9	77.9
30°	3.55	0.0	66.2	70.7	76.2	75.2	71.7	66.2	61.2	54.7	80.5	76.5
	2.54	136.4	73.0	77.5	83.0	82.0	78.5	73.0	68.0	61.5	87.3	83.3
35°	4.53	0.0	69.6	74.1	79.6	78.6	75.1	69.6	64.6	58.1	83.9	79.9
	3.08	87.9	69.9	74.4	79.9	78.9	75.4	69.9	64.9	58.4	84.1	80.1

Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	2.48	0.0	57.3	61.8	67.3	66.3	62.8	57.3	52.3	45.8	71.6	67.6
	1.22	333.3	78.6	83.1	88.6	87.6	84.1	78.6	73.6	67.1	92.9	88.9
20°	3.53	0.0	62.3	66.8	72.3	71.3	67.8	62.3	57.3	50.8	76.6	72.6
	2.49	266.2	78.0	82.5	88.0	87.0	83.5	78.0	73.0	66.5	92.2	88.2
25°	4.81	0.0	69.3	73.8	79.3	78.3	74.8	69.3	64.3	57.8	83.5	79.5
	2.72	323.4	76.5	80.5	86.5	85.5	82.0	76.5	71.5	65.0	90.7	86.7
30°	5.33	0.0	75.0	79.5	85.0	84.0	80.5	75.0	70.0	63.5	89.3	85.3
	3.80	306.8	81.8	86.3	91.8	90.8	87.3	81.8	76.8	70.3	96.1	92.1
35°	6.79	0.0	78.4	82.9	88.4	87.4	83.9	78.4	73.4	66.9	92.7	88.7
	4.61	197.8	78.7	83.2	88.7	87.7	84.2	78.7	73.7	67.2	92.9	88.9

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF Series

-  Nominal Diameter
800 mm
-  Hub Type
9
-  No. of Blades
9

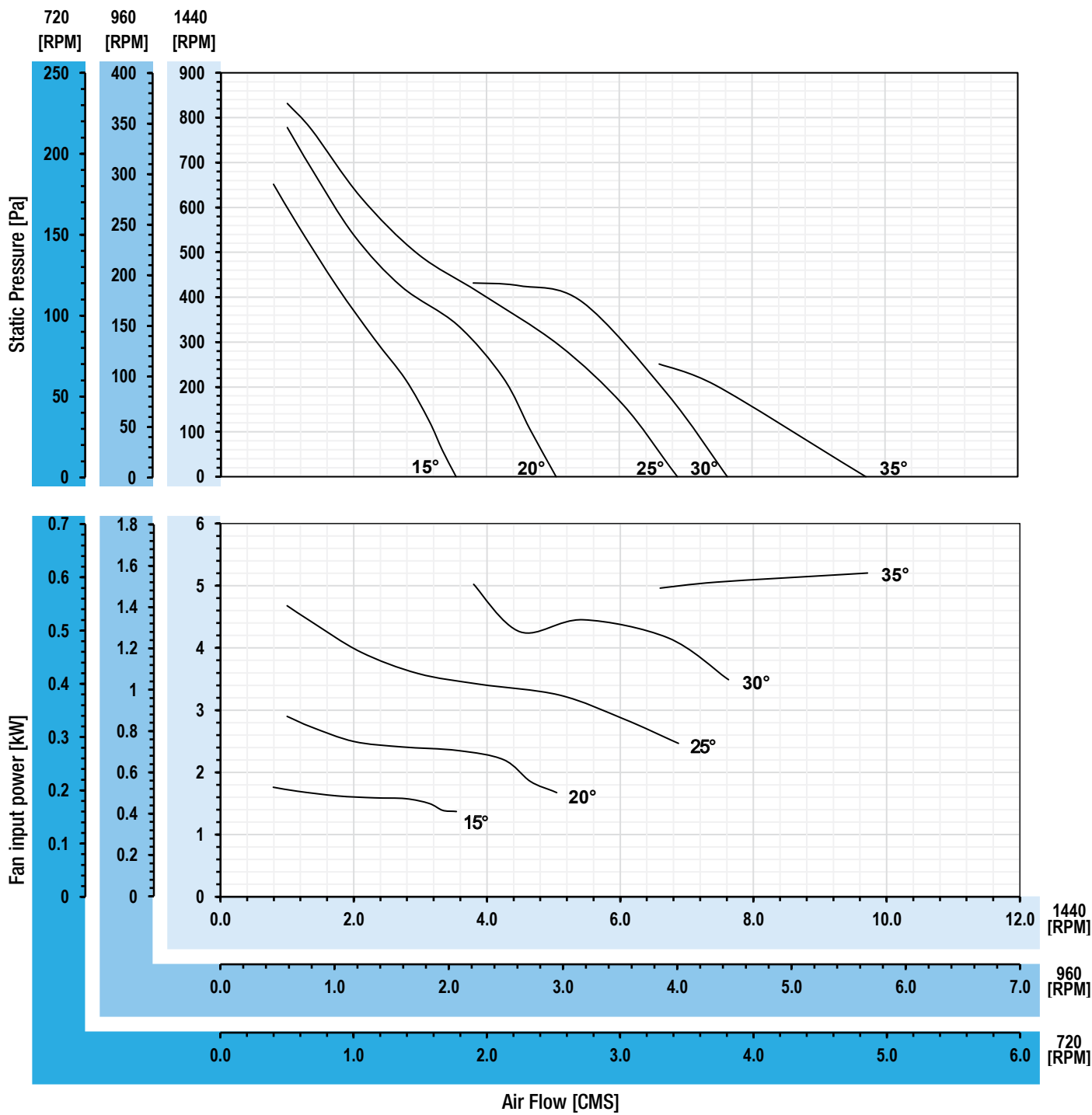


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 720 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	1.77	0.0	46.9	51.4	56.9	55.9	52.4	46.9	41.9	35.4	61.2	57.2
	0.87	105.8	68.2	72.7	78.2	77.2	73.7	68.2	63.2	56.7	82.5	78.5
20°	2.52	0.0	51.9	56.4	61.9	60.9	57.4	51.9	46.9	40.4	66.2	62.2
	1.78	84.5	67.6	72.1	77.6	76.6	73.1	67.6	62.6	56.1	81.9	77.8
25°	3.44	0.0	58.9	63.4	68.9	67.9	64.4	58.9	53.9	47.4	73.1	69.1
	1.94	102.7	66.1	70.1	76.1	75.1	71.6	66.1	61.1	54.6	80.3	76.3
30°	3.81	0.0	64.7	69.2	74.7	73.7	70.2	64.7	59.7	53.2	78.9	74.9
	2.72	97.4	71.4	75.9	81.4	80.4	76.9	71.4	66.4	59.9	85.7	81.7
35°	4.86	0.0	68.0	72.5	78.0	77.0	73.5	68.0	63.0	56.5	82.3	78.3
	3.30	62.8	68.3	72.8	78.3	77.3	73.8	68.3	63.3	56.8	82.5	78.5

Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	2.36	0.0	53.2	57.7	63.2	62.2	58.7	53.2	48.2	41.7	67.4	63.4
	1.17	188.1	74.5	79.0	84.5	83.5	80.0	74.5	69.5	63.0	88.7	84.7
20°	3.36	0.0	58.2	62.7	68.2	67.2	63.7	58.2	53.2	46.7	72.5	68.4
	2.38	150.2	73.8	78.3	83.8	82.8	79.3	73.8	68.8	62.3	88.1	84.1
25°	4.58	0.0	65.1	69.6	75.1	74.1	70.6	65.1	60.1	53.6	79.4	75.4
	2.59	182.5	72.3	76.3	82.3	81.3	77.8	72.3	67.3	60.8	86.6	82.6
30°	5.08	0.0	70.9	75.4	80.9	79.9	76.4	70.9	65.9	59.4	85.2	81.1
	3.63	173.1	77.7	82.2	87.7	86.7	83.2	77.7	72.7	66.2	91.9	87.9
35°	6.48	0.0	74.3	78.8	84.3	83.3	79.8	74.3	69.3	62.8	88.5	84.5
	4.40	111.6	74.5	79.0	84.5	83.5	80.0	74.5	69.5	63.0	88.8	84.8

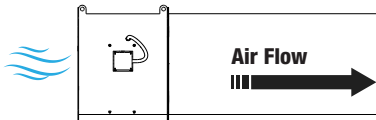
Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	3.54	0.0	62.0	66.5	72.0	71.0	67.5	62.0	57.0	50.5	76.2	72.2
	1.75	423.1	83.3	87.8	93.3	92.3	88.8	83.3	78.3	71.8	97.5	93.5
20°	5.05	0.0	67.0	71.5	77.0	76.0	72.5	67.0	62.0	55.5	81.3	77.2
	3.56	337.9	82.6	87.1	92.6	91.6	88.1	82.6	77.6	71.1	96.9	92.9
25°	6.87	0.0	73.9	78.4	83.9	82.9	79.4	73.9	68.9	62.4	88.2	84.2
	3.89	410.6	81.1	85.1	91.1	90.1	86.6	81.1	76.1	69.6	95.4	91.4
30°	7.63	0.0	79.7	84.2	89.7	88.7	85.2	79.7	74.7	68.2	94.0	89.9
	5.44	389.5	86.5	91.0	96.5	95.5	92.0	86.5	81.5	75.0	100.7	96.7
35°	9.71	0.0	83.1	87.6	93.1	92.1	88.6	83.1	78.1	71.6	97.3	93.3
	6.60	251.1	83.3	87.8	93.3	92.3	88.8	83.3	78.3	71.8	97.6	93.6

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF-L/S-900-9/AM

AF Series

- Nominal Diameter
900 mm
- Hub Type
9
- No. of Blades
9

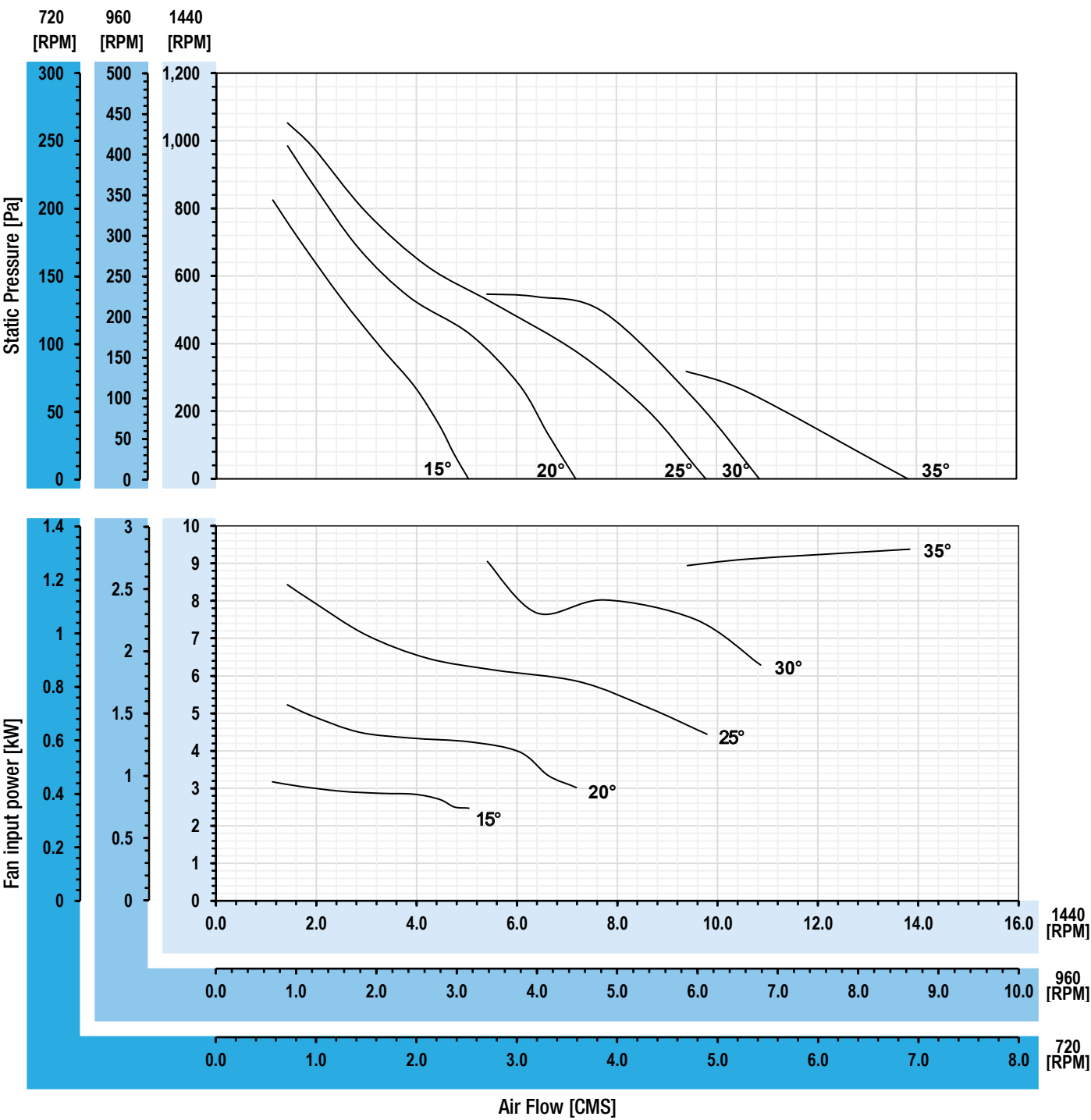


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³.
Performance tested is for installation type B - free inlet, ducted outlet.
Power rating (kW) does not include transmission losses.
Performance ratings do not include the effects of accessories.
BS ISO 5801 : 2017
AMCA 210 : 2025
Type B Installation



Curve Performance



AF-L/S-900-9/AM

Acoustic Performance

Inlet Sound Power Level @ 720 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	2.52	0.0	51.5	56.0	61.5	60.5	57.0	51.5	46.5	40.0	65.8	61.8
	1.25	133.9	72.8	77.3	82.8	81.8	78.3	72.8	67.8	61.3	87.1	83.1
20°	3.59	0.0	56.6	61.1	66.6	65.6	62.1	56.6	51.6	45.1	70.8	66.8
	2.54	106.9	72.2	76.7	82.2	81.2	77.7	72.2	67.2	60.7	86.5	82.4
25°	4.89	0.0	63.5	68.0	73.5	72.5	69.0	63.5	58.5	52.0	77.7	73.7
	2.77	129.9	70.7	74.7	80.7	79.7	76.2	70.7	65.7	59.2	84.9	80.9
30°	5.43	0.0	69.3	73.8	79.3	78.3	74.8	69.3	64.3	57.8	83.5	79.5
	3.87	123.2	76.0	80.5	86.0	85.0	81.5	76.0	71.0	64.5	90.3	86.3
35°	6.91	0.0	72.6	77.1	82.6	81.6	78.1	72.6	67.6	61.1	86.9	82.9
	4.70	79.4	72.9	77.4	82.9	81.9	78.4	72.9	67.9	61.4	87.1	83.1

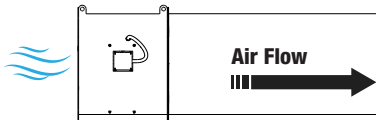
Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	3.36	0.0	51.5	56.0	61.5	60.5	57.0	51.5	46.5	40.0	65.8	61.8
	1.66	238.0	72.8	77.3	82.8	81.8	78.3	72.8	67.8	61.3	87.1	83.1
20°	4.79	0.0	62.8	67.3	72.8	71.8	68.3	62.8	57.8	51.3	77.1	73.0
	3.38	190.1	78.4	82.9	88.4	87.4	83.9	78.4	73.4	66.9	92.7	88.7
25°	6.53	0.0	69.7	74.2	79.7	78.7	75.2	69.7	64.7	58.2	84.0	80.0
	3.69	231.0	76.9	80.9	86.9	85.9	82.4	76.9	71.9	65.4	91.2	87.2
30°	7.24	0.0	75.5	80.0	85.5	84.5	81.0	75.5	70.5	64.0	89.8	85.7
	5.16	219.1	82.3	86.8	92.3	91.3	87.8	82.3	77.3	70.8	96.5	92.5
35°	9.22	0.0	78.9	83.4	88.9	87.9	84.4	78.9	73.9	67.4	93.1	89.1
	6.26	141.2	79.1	83.6	89.1	88.1	84.6	79.1	74.1	67.6	93.4	89.4

Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	5.04	0.0	66.6	71.1	76.6	75.6	72.1	66.6	61.6	55.1	80.9	76.8
	2.49	535.5	87.9	92.4	97.9	96.9	93.4	87.9	82.9	76.4	102.1	98.1
20°	7.19	0.0	71.6	76.1	81.6	80.6	77.1	71.6	66.6	60.1	85.9	81.8
	5.07	427.7	87.3	91.8	97.3	96.3	92.8	87.3	82.3	75.8	101.5	97.5
25°	9.79	0.0	78.5	83.0	88.5	87.5	84.0	78.5	73.5	67.0	92.8	88.8
	5.53	519.7	85.7	89.7	95.7	94.7	91.2	85.7	80.7	74.2	100.0	96.0
30°	10.86	0.0	84.3	88.8	94.3	93.3	89.8	84.3	79.3	72.8	98.6	94.6
	7.75	493.0	91.1	95.6	101.1	100.1	96.6	91.1	86.1	79.6	105.4	101.3
35°	13.83	0.0	87.7	92.2	97.7	96.7	93.2	87.7	82.7	76.2	102.0	97.9
	9.40	317.8	87.9	92.4	97.9	96.9	93.4	87.9	82.9	76.4	102.2	98.2

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF Series

- Nominal Diameter 1000 mm
- Hub Type 9
- No. of Blades 9

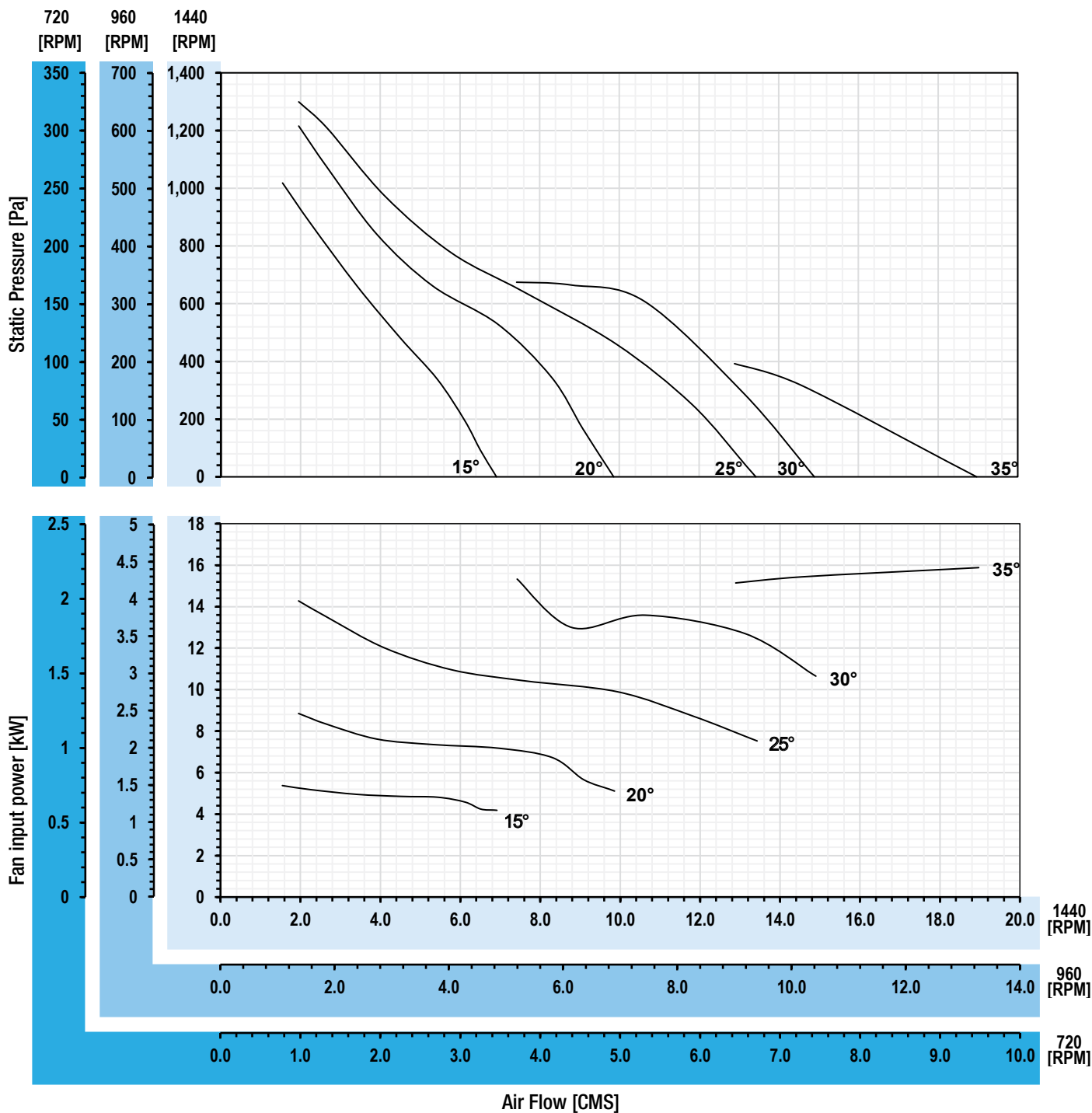


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³. Performance tested is for installation type B - free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of accessories. BS ISO 5801 : 2017 AMCA 210 : 2025 Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 720 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	3.46	0.0	55.7	60.2	65.7	64.7	61.2	55.7	50.7	44.2	69.9	65.9
	1.71	165.3	76.9	81.4	86.9	85.9	82.4	76.9	71.9	65.4	91.2	87.2
20°	4.93	0.0	60.7	65.2	70.7	69.7	66.2	60.7	55.7	49.2	74.9	70.9
	3.48	132.0	76.3	80.8	86.3	85.3	81.8	76.3	71.3	64.8	90.6	86.6
25°	6.71	0.0	67.6	72.1	77.6	76.6	73.1	67.6	62.6	56.1	81.9	77.8
	3.80	160.4	74.8	78.8	84.8	83.8	80.3	74.8	69.8	63.3	89.0	85.1
30°	7.45	0.0	73.4	77.9	83.4	82.4	78.9	73.4	68.4	61.9	87.6	83.6
	5.31	152.1	80.2	84.7	90.2	89.2	85.7	80.2	75.2	68.7	94.4	90.4
35°	9.48	0.0	76.8	81.3	86.8	85.8	82.3	76.8	71.8	65.3	91.0	87.0
	6.45	98.1	77.0	81.5	87.0	86.0	82.5	77.0	72.0	65.5	91.3	87.2

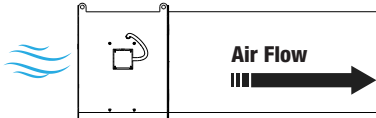
Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	4.61	0.0	55.7	60.2	65.7	64.7	61.2	55.7	50.7	44.2	69.9	65.9
	2.28	293.8	76.9	81.4	86.9	85.9	82.4	76.9	71.9	65.4	91.2	87.2
20°	6.57	0.0	66.9	71.4	76.9	75.9	72.4	66.9	61.9	55.4	81.2	77.2
	4.64	234.7	82.6	87.1	92.6	91.6	88.1	82.6	77.6	71.1	96.8	92.8
25°	8.95	0.0	73.8	78.3	83.8	82.8	79.3	73.8	68.8	62.3	88.1	84.1
	5.06	285.2	81.1	85.1	91.1	90.1	86.6	81.1	76.1	69.6	95.3	91.3
30°	9.93	0.0	79.6	84.1	89.6	88.6	85.1	79.6	74.6	68.1	93.9	89.9
	7.08	270.5	86.4	90.9	96.4	95.4	91.9	86.4	81.4	74.9	100.7	96.6
35°	12.65	0.0	83.0	87.5	93.0	92.0	88.5	83.0	78.0	71.5	97.3	93.2
	8.59	174.3	83.2	87.7	93.2	92.2	88.7	83.2	78.2	71.7	97.5	93.5

Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	6.92	0.0	70.7	75.2	80.7	79.7	76.2	70.7	65.7	59.2	85.0	80.9
	3.42	661.1	92.0	96.5	102.0	101.0	97.5	92.0	87.0	80.5	106.3	102.2
20°	9.86	0.0	75.7	80.2	85.7	84.7	81.2	75.7	70.7	64.2	90.0	86.0
	6.96	528.0	91.4	95.9	101.4	100.4	96.9	91.4	86.4	79.9	105.6	101.6
25°	13.43	0.0	82.6	87.1	92.6	91.6	88.1	82.6	77.6	71.1	96.9	92.9
	7.59	641.6	89.9	93.9	99.9	98.9	95.4	89.9	84.9	78.4	104.1	100.1
30°	14.90	0.0	88.4	92.9	98.4	97.4	93.9	88.4	83.4	76.9	102.7	98.7
	10.63	608.6	95.2	99.7	105.2	104.2	100.7	95.2	90.2	83.7	109.5	105.4
35°	18.97	0.0	91.8	96.3	101.8	100.8	97.3	91.8	86.8	80.3	106.1	102.0
	12.89	392.3	92.0	96.5	102.0	101.0	97.5	92.0	87.0	80.5	106.3	102.3

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.

AF Series

- Nominal Diameter 1100 mm
- Hub Type 9
- No. of Blades 9

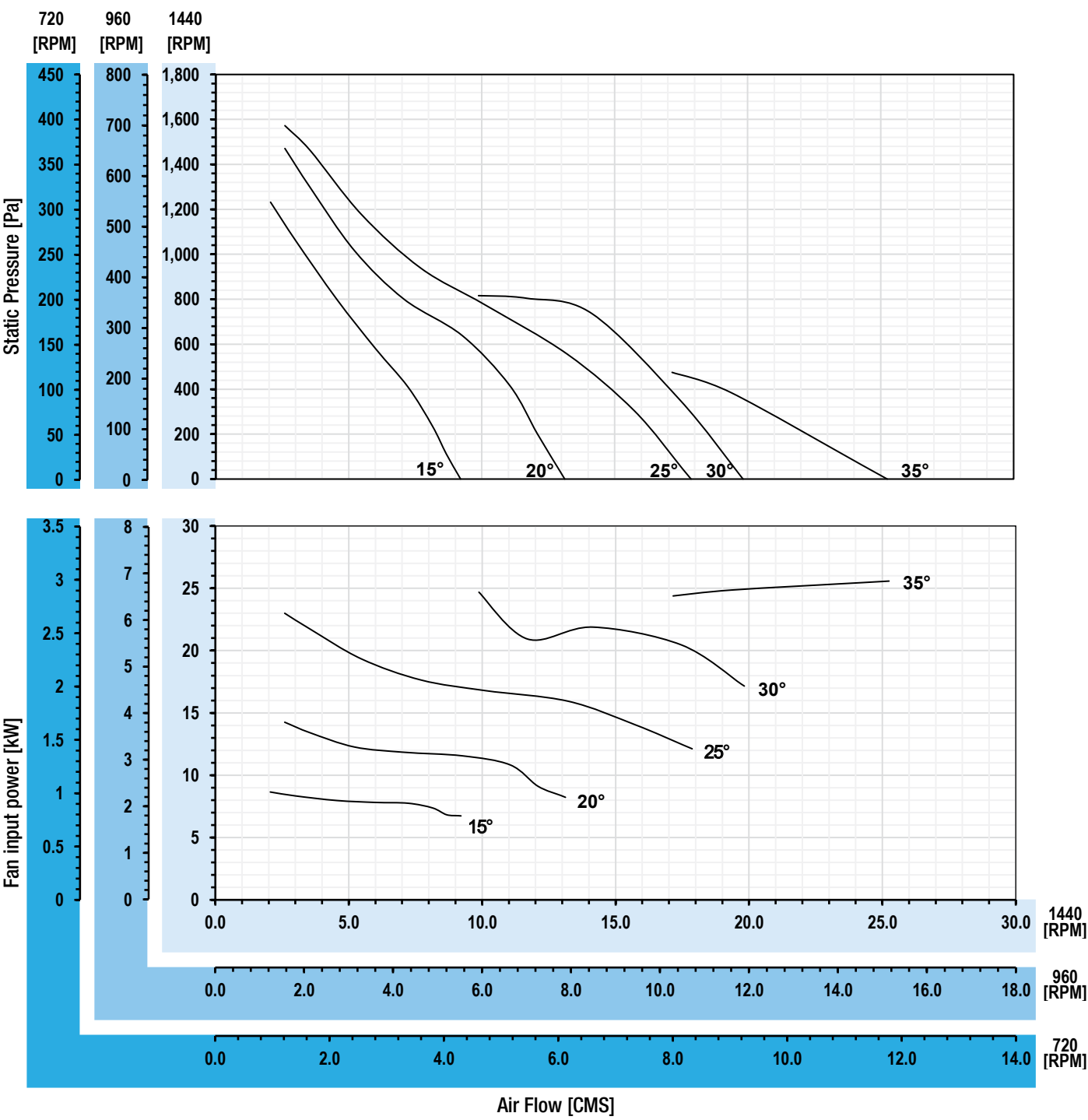


Technical Specifications

Performance Shown in diagrams refer to air density 1.2 kg/m³. Performance tested is for installation type B - free inlet, ducted outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of accessories. BS ISO 5801 : 2017 AMCA 210 : 2025 Type B Installation



Curve Performance



Acoustic Performance

Inlet Sound Power Level @ 720 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	4.60	0.0	59.4	63.9	69.4	68.4	64.9	59.4	54.4	47.9	73.6	69.6
	2.27	200.0	80.7	85.2	90.7	89.7	86.2	80.7	75.7	69.2	94.9	90.9
20°	6.56	0.0	64.4	68.9	74.4	73.4	69.9	64.4	59.4	52.9	78.7	74.6
	4.63	159.7	80.0	84.5	90.0	89.0	85.5	80.0	75.0	68.5	94.3	90.3
25°	8.94	0.0	71.3	75.8	81.3	80.3	76.8	71.3	66.3	59.8	85.6	81.6
	5.05	194.1	78.5	82.5	88.5	87.5	84.0	78.5	73.5	67.0	92.8	88.8
30°	9.91	0.0	77.1	81.6	87.1	86.1	82.6	77.1	72.1	65.6	91.4	87.3
	7.07	184.1	83.9	88.4	93.9	92.9	89.4	83.9	78.9	72.4	98.1	94.1
35°	12.62	0.0	80.5	85.0	90.5	89.5	86.0	80.5	75.5	69.0	94.7	90.7
	8.58	118.7	80.7	85.2	90.7	89.7	86.2	80.7	75.7	69.2	95.0	91.0

Inlet Sound Power Level @ 960 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	6.14	0.0	59.4	63.9	69.4	68.4	64.9	59.4	54.4	47.9	73.6	69.6
	3.03	355.5	80.7	85.2	90.7	89.7	86.2	80.7	75.7	69.2	94.9	90.9
20°	8.75	0.0	70.6	75.1	80.6	79.6	76.1	70.6	65.6	59.1	84.9	80.9
	6.18	283.9	86.3	90.8	96.3	95.3	91.8	86.3	81.3	74.8	100.6	96.5
25°	11.91	0.0	77.6	82.1	87.6	86.6	83.1	77.6	72.6	66.1	91.8	87.8
	6.74	345.1	84.8	88.8	94.8	93.8	90.3	84.8	79.8	73.3	99.0	95.0
30°	13.22	0.0	83.4	87.9	93.4	92.4	88.9	83.4	78.4	71.9	97.6	93.6
	9.43	327.3	90.1	94.6	100.1	99.1	95.6	90.1	85.1	78.6	104.4	100.4
35°	16.83	0.0	86.7	91.2	96.7	95.7	92.2	86.7	81.7	75.2	101.0	97.0
	11.44	211.0	87.0	91.5	97.0	96.0	92.5	87.0	82.0	75.5	101.2	97.2

Inlet Sound Power Level @ 1440 RPM												
Blade Angles	Air Flow (CMS)	Static Pressure (Pa)	63 (Hz)	125 (Hz)	250 (Hz)	500 (Hz)	1000 (Hz)	2000 (Hz)	4000 (Hz)	8000 (Hz)	L _{wi} (dB)	L _{wiA} (dB)
15°	9.21	0.0	74.4	78.9	84.4	83.4	79.9	74.4	69.4	62.9	88.7	84.7
	4.55	800.0	95.7	100.2	105.7	104.7	101.2	95.7	90.7	84.2	110.0	106.0
20°	13.12	0.0	79.4	83.9	89.4	88.4	84.9	79.4	74.4	67.9	93.7	89.7
	9.26	638.8	95.1	99.6	105.1	104.1	100.6	95.1	90.1	83.6	109.4	105.3
25°	17.87	0.0	86.4	90.9	96.4	95.4	91.9	86.4	81.4	74.9	100.6	96.6
	10.10	776.4	93.6	97.6	103.6	102.6	99.1	93.6	88.6	82.1	107.8	103.8
30°	19.83	0.0	92.2	96.7	102.2	101.2	97.7	92.2	87.2	80.7	106.4	102.4
	14.14	736.4	98.9	103.4	108.9	107.9	104.4	98.9	93.9	87.4	113.2	109.2
35°	25.25	0.0	95.5	100.0	105.5	104.5	101.0	95.5	90.5	84.0	109.8	105.8
	17.16	474.7	95.8	100.3	105.8	104.8	101.3	95.8	90.8	84.3	110.0	106.0

Values shown are for (inlet Lwi and inlet LwiA) sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction.



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