

## Axial Fans

1400 - 1600





# Systemair Worldwide



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Systemair was founded in 1974 with an innovative idea of creating an in-line centrifugal fan for circular ducts, which simplified ventilation.

Today, our company is one of the global leaders in the field of ventilation & air conditioning technology, with its operations spread across four continents. Our main focus is to develop products that supply, extract, convey, heat, cool and distribute air energy efficiently in a building.

Our products are energy efficient, robust, easy to select, install and use.

We invite you to join us in discovering the countless possibilities we can offer in this catalogue.



#### Quality:

Systemair is certified in accordance with ISO 9001; ISO 14001 and ATEX. Our research and development laboratories are one of the most modern in Europe; measurements are made in accordance with international standards like AMCA and ISO.

#### Save energy, lower running cost!

Our label "Green Ventilation" features products with a high energy saving potential. All products labelled with "Green Ventilation" combine energy economy with energy efficiency.



#### Skinnskatteberg, Sweden:

Head office of the Systemair group, largest production and distribution facility with one of Europe's most advanced R&D-centers. Frico's central warehouse is also located here.

#### Windischbuch, Germany:

Production of fans (e.g. tunnel and jet fans) and modular air handling units.

#### Langenfeld, Germany:

Production of air curtains.

#### Mülheim an der Ruhr, Germany:

Menerga is Europe's leading producer of air handling units.

#### Hässleholm, Sweden:

VEAB is Europe's leading manufacturer of electric duct heaters, heating and cooling coils, electric and water based.

#### Ukmerge, Lithuania:

Production of smaller air handling units with energy recovery systems.

#### Maribor, Slovenia:

Specialized in centrifugal smoke extract fans, EN certified.

#### Hasselager, Denmark:

Production of modular air handling units.

#### Dal, Eidsvoll, Norway:

Production of air handling units.

#### Bratislava, Slovakia:

Production of air distribution products and EN certified fire and smoke dampers.

#### Madrid, Spain:

Production of air handling units.

#### Milan, Italy:

Production of air conditioner.

#### Waalwijk, Netherlands:

Holland Heating is Netherlands leading manufacturer of air handling units.

#### Tillières-sur-Avre, France:

Production of air conditioning products.

#### Istanbul, Turkey:

Systemair-HSK is Turkey's leading manufacturer of air handling units.

#### Bouctouche, Canada:

Production facility of air handling units and inline fans

#### Tillsonburg, Canada:

Manufacturer of school classroom ventilation equipment for the American market.

#### Kansas City, USA:

Production of fans for the US market.

#### Sao Paulo, Brazil:

Production of air handling units.

#### Kuala Lumpur, Malaysia :

Production of products for Tunnel and garage ventilation.

#### Hyderabad, India:

Production of air distribution products, fans & air handling units.

#### Greater Noida (New Delhi), India:

Platinum rated LEED certified green building. Production of axial and box fans, jet fans, air distribution products & air handling units.

#### Wujiang, China:

Production of air handling units for the Asian market.



# Systemair India

LEED Platinum Rated Green Building Certified by the U.S Green Building Council



Greater Noida India: **LEED Certified Platinum Rated** manufacturing facility.

## Systemair India

Systemair India Pvt. Ltd. (100% owned subsidiary of Systemair AB, Sweden) is having sales offices in 9 Cities- Noida, Bangalore, Chennai, Hyderabad, Kolkata, Pune, Mumbai, Ahmedabad, Cochin and 2 state-of-art, ultra modern manufacturing plants having 12000 m2 area in Greater Noida & Hyderabad to support local market needs with minimum possible time for delivery. The Greater Noida unit is a **LEED Certified Platinum Rated** building. A team of more than 400 professionals are working for the company today, looking after sales, technical support, production and logistics.

Systemair India is a proud member of AMCA. We have build up a test rig in accordance to AMCA 210-07 at Greater Noida facility to test the product performance.

## Core values and vision

- Core values - simplicity and reliability
- Mission - develop, manufacture and market high-quality ventilation products
- Trust - reliability and trust are most important factors to our customers.

## Goals and strategies

- Innovative product development and extensive product range together with a focus on energy efficient ventilation products.
- High product availability and fast delivery through efficient production and logistics.
- Development and expansion of distribution network.
- Good relationships with installers, distributors and consultants to help Systemair to be perceived as a leading supplier of high quality ventilation products.
- To increase export business in Asian countries for Air handling Units and Air distribution products





#### Product range

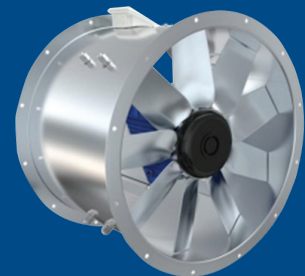
- Fans and accessories
- Air curtains and fan heaters
- Air handling units
- Fire safety ventilation
- Air distribution products (Grilles, Diffuser, Dampers, Louvers etc.)
- Duct attenuators
- Garage and tunnel fans.



**Air Distribution & Fire Safety Products**



**Air Handling Units**



**Fans**

#### Modern and efficient production

- Over 12000 m2 of production area in 2 factories.
- Greater Noida unit is LEED Certified Platinum rated Green Building
- Well invested and specialised factories.
- ISO Certification 9001:2008
- Strategy of modernising production facilities to keep quality and reducing lead time.

#### Certified products for clean indoors!!

- Focus on energy efficient, environment and user friendly products.
- Proud member of AMCA.
- AXC(A) 315-1600 & AXC 1200-1400 are certified as per AMCA.
- High temperature fans are certified as per EN12101-3 for 300°C for 2 hours.

- Follows ETL Testing Lab U.S.A for Performance testing of Air distribution products like Grilles & Diffusers.
- Combination Fire & Smoke dampers are certified & listed as UL555 & UL555 S for Class 1 leakage.
- Fire Damper series FSD-A-L, FSD-A-S are certified by UL.
- Fire dampers are certified by CBRI Roorkee (as per UL555 for 120 mins) and also certified as per BS-476 Part 20.
- Sound Attenuators certified in SRL, U.K for the static insertion loss as per BS 4718-1971.
- EUROVENT certified BA series of AHUs.
- BS/EN1886:2007 for strength of casing, tightness, thermal resistance, thermal bridging and Filter bypass leakage for AHU.
- EN13053 for air flow-static pressure performance, heat transfer and heat recovery performance.

## Axial fans at a glance

Systemair offers a wide range of axial fans in various designs. For most applications in the ventilating or air conditioning sector as well as in a lot of industrial and commercial applications a Systemair fan can be selected.

Some examples are: mining, tunnel ventilation, car park ventilation, applications in explosion hazardous areas and high temperature fans to extract heat and smoke in case of a fire.

Finding the right solution is important from many aspects: Trust in the product and producer, safety in the application, lowest possible energy consumption, good and matching functionality, the cost benefit ratio, a space saving design, the delivery just in time and many more. Our experts will be pleased to help you in all these questions and be at your disposal

This brochure gives you an overview of our axial fan product range. Performance curves and technical details for the required fan duties are available in this catalogue.

### Systemair is working in accordance with the following standards:

#### Quality:

ISO 9001: Quality management system, monitored by TÜV

Süd. Certificate on [www.systemair.com](http://www.systemair.com). ISO 14001: Environmental management system, monitored by TÜV Süd. Certificate on [www.systemair.com](http://www.systemair.com) DIN 24166: Technical terms of delivery for fans.

#### CE-marking:

The CE marking is a mandatory conformity mark in the European Economic Area. By affixing the CE marking, the manufacturer asserts that the item meets all the essential requirements of the relevant European Directive(s).

#### Testing:

ISO 5801: "Industrial fans, performance testing..."

DIN 24163: "Fans, performance testing..."

AMCA 210-07: "Laboratory methods of testing fans for certified aerodynamic performance rating"

EN 12101-3: "Smoke and heat control systems - powered smoke and heat exhaust..."

ISO 13350: Jet fans

EN certificates on [www.systemair.com](http://www.systemair.com)

- As per EC Machinery Directive 98/37/EEC Annex IIA, fans for ventilation... the following harmonized standards are used:

- EN 60 204-1: "Safety of machinery - electrical equipment, general requirements"

- EN 292-1: "Safety of machinery, design" EN ISO 12100:2011-3

- EN 294: "Safety of machinery, safety distances" EN ISO 13857:2008-06

- EN 60 034-1: "Rotating electric machinery, ratings and performance"

- As per EC Low Voltage Directive 73/23/EEC and 93/68/EEC the following harmonized standards are used:

- EN 60 204-1: "Safety of machinery - electrical equipment, general requirements"

- EN 60 034-5: "Rotating electric machinery, protection classification"

- As per EMC-directive 89/336/EEC and EMC-directive 93/68/EEC the following harmonized standards are used:

- EN 61000-6-1 and 6-2: Electromagnetic compatibility



### Fan sizes and duties

Systemair axial fans are offered in sizes from 315 mm up to 2.800 mm diameter. Air volumes of up to 400.000 m<sup>3</sup>/h and static pressure of up to 1.400 Pa can be achieved. Higher pressures can be offered with two fans installed in series (AXC-G models on request). Fan performance in accordance with ISO 5801, part 1, category D.

### Casing

The casing and motor fixation is manufactured from galvanized steel. The terminal box is fitted on the outside of the casing.

### Impellers

The impellers (hub and blades) are manufactured from die-cast aluminium alloy. The blades have an aerodynamic profile to guarantee high efficiencies and a low noise level.

The hub design allows adjustment of the blade angle during assembly of the fan in the factory, in order to achieve the optimum working point. This further increases the possible fan duties per diameter. In the performance curves P<sub>2max</sub> is indicated, the maximum absorbed power of the impeller, related to the relevant blade angle setting.

### Motors

Systemair uses 400 V/50 Hz three phase motors in accordance with IEC standard 34-1. The motors are suitable for medium temperatures from -20 °C up to +55°C and are equipped with cold conductors for motor protection. Protection class IP54/IP55, insulation class F. Other medium temperatures, protection classes or isolation classes are available on request. The standard motor range in-

cludes single and two speed motors. The motors are not speed controllable by voltage. Speed control is possible with frequency inverters.

Axial fans are equipped with IEC standard motors, in IE2 according to the latest EN-standards with cold conductors for thermal motor protection. Cold conductors have to be connected to an external motor protection unit.

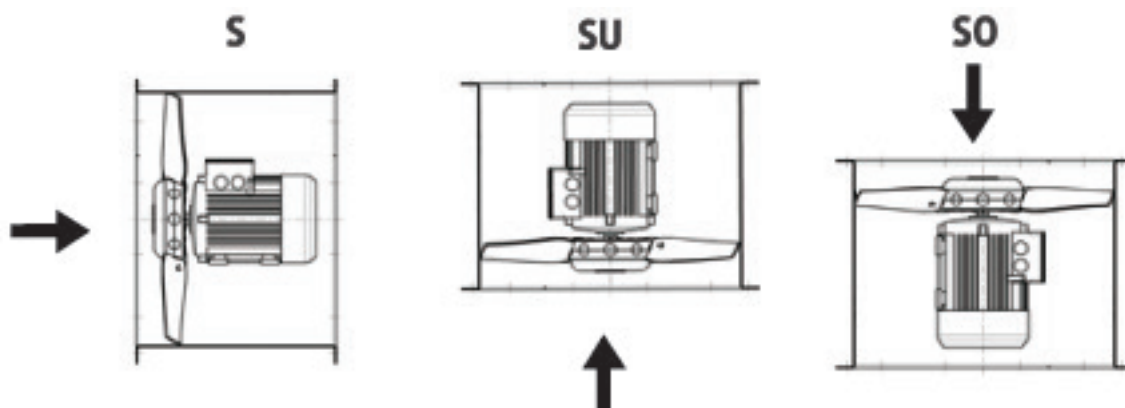
### Mounting position and airflow direction

Systemair axial fans can be installed in different mounting positions. Should there be no different information in your order, the fans will be supplied in airflow direction "S", see pictures below. You will find arrows indicating the direction of rotation and airflow direction at the outside of the casing. For bigger motor powers (guideline: from IEC 160, 11 kW) it is important to inform us with your order in case the fans are to be installed in a different airflow direction than "S", as the motor bearings then are subject to a higher stress which we have to take into account.

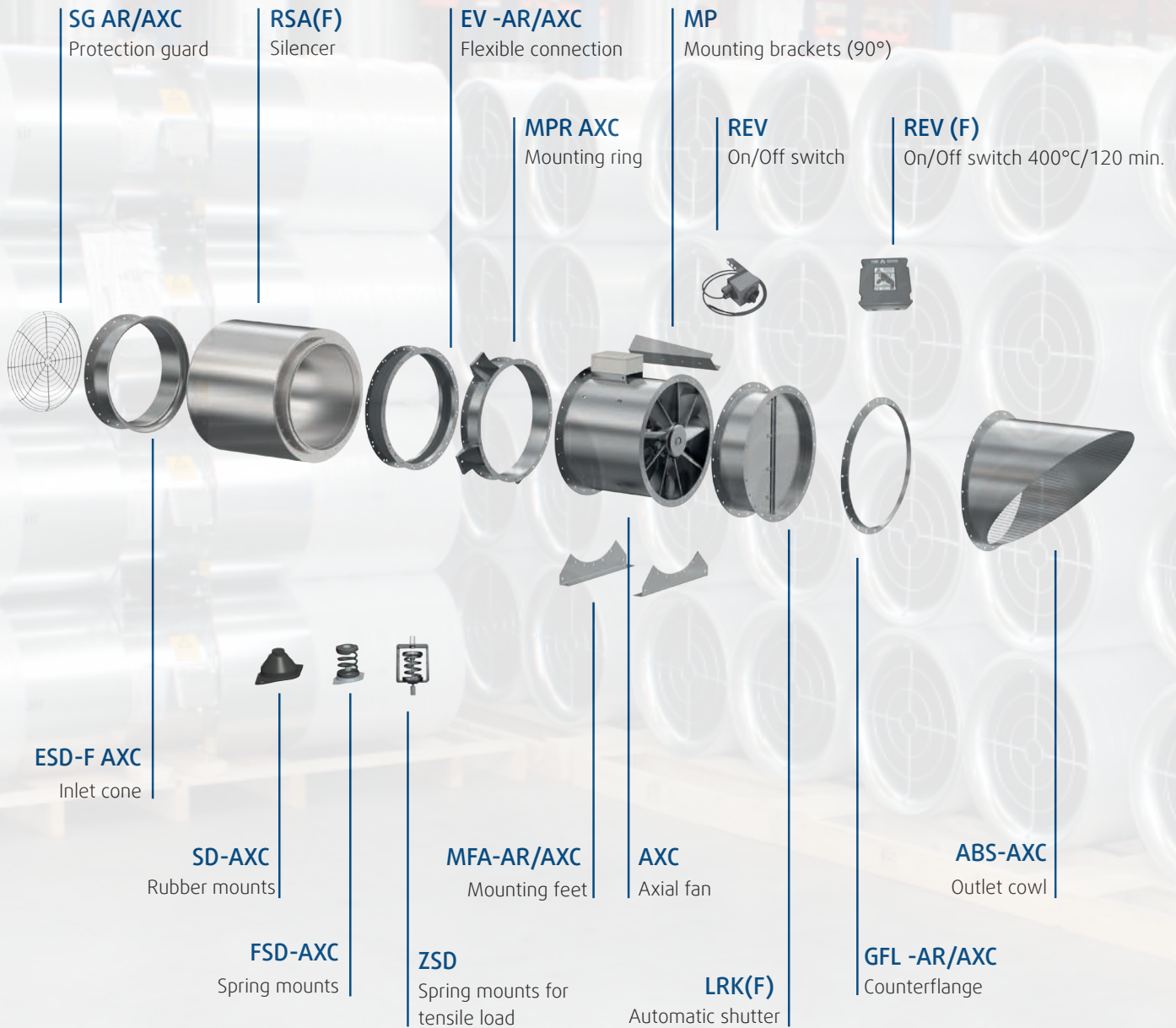
### Accessories

Systemair offers a wide range of accessories, such as:

- protection guards
- mounting feet (horizontal installation) or mounting brackets (vertical installation)
- counter flanges
- flexible connections
- inlet cones
- automatic shutters
- anti vibration mounts
- isolators for single or two-speed motors
- silencers (with and without core)

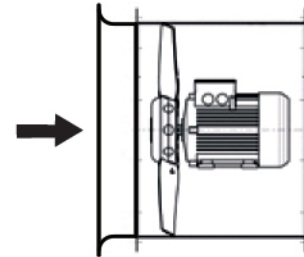


# Accessories & installation types

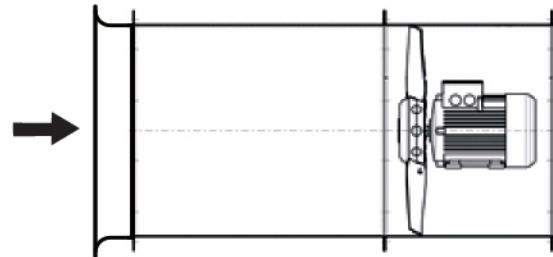




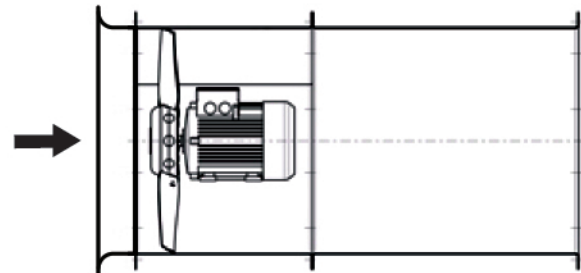
**A** free inlet  
free outlet



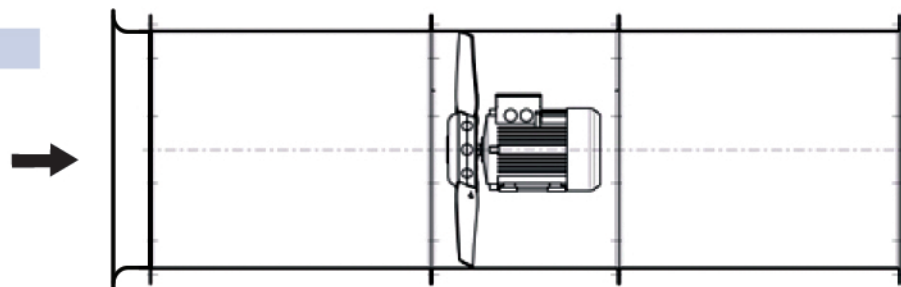
**B** ducted inlet side  
free outlet



**C** free inlet  
ducted outlet



**D** ducted inlet side  
ducted outlet side



Installation types according to ISO 5801

# AXC(A) Axial Fans

## Standard features:

- Aerofoil impeller with adjustable pitch angle
- Die cast aluminium hub and blades
- Long /Medium casing of galvanized steel according to DIN EN ISO 1461
- Spun flanges for high rigidity, to DIN 24154 series 3
- Terminal box in IP65 mounted at the outside of the casing for easy wiring
- Single- or three-phase motors IP55 / IP54, insulation class F / class H, in accordance with EN 60034-5/IEC 85
- AXC ---- - /--° - (B) smoke extract axial fans certified for 300°C/120 min in accordance with EN 12101-3
- Suitable for operating temperatures upto 55°C
- Inspection hole to verify correct direction of rotation



The Systemair AMCA certified range of smoke extract axial fans is available in sizes from 315 up to 1.600 mm impeller diameter. The adjustable pitch angle setting offers a wide performance and maximum flexibility to match precisely individual airflow requirements. The axial fans have been performance tested in accordance with DIN ISO 5801 and AMCA 210-07 in a laboratory accredited by AMCA. High temperature testing at Technical University Munich, Germany.

## High efficiency impellers

The die cast aerofoil aluminium impellers can be offered with full or fractional solidities, maximum efficiencies can be obtained.

## Sturdy casing

Axial fan casings are heavy gauge, galvanized steel, with spun flanges for high rigidity. Long cased execution as standard stock range. Medium cased also available on demand.

## Motors

Motor in the air stream. Frequency converter controllable only for standard ventilation on request.

Single or two speed motors.

## Multi stage fans

For higher pressure drops two stage fans are offered. Two fans in series increase the available static pressure drop.

## Quality

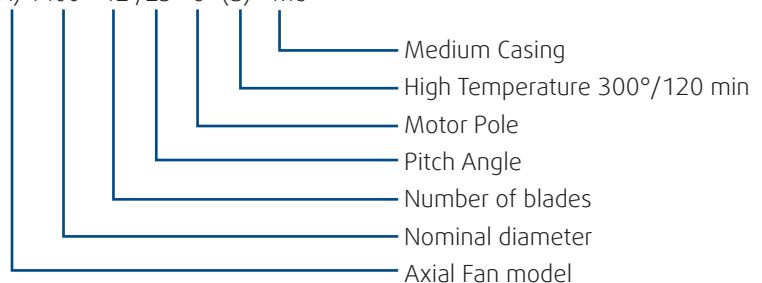
Systemair is ISO 9001: 2008 approved. The Systemair quality is regularly monitored by DNV.



Systemair India Pvt. Ltd. certifies that the Axial Fan AXC (A) 1400 to 1600 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.

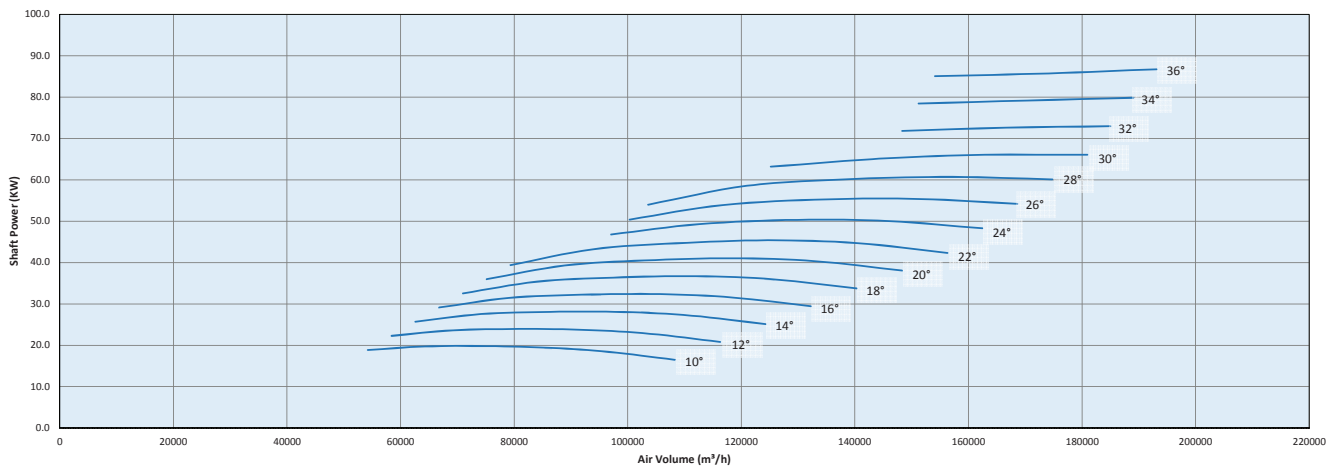
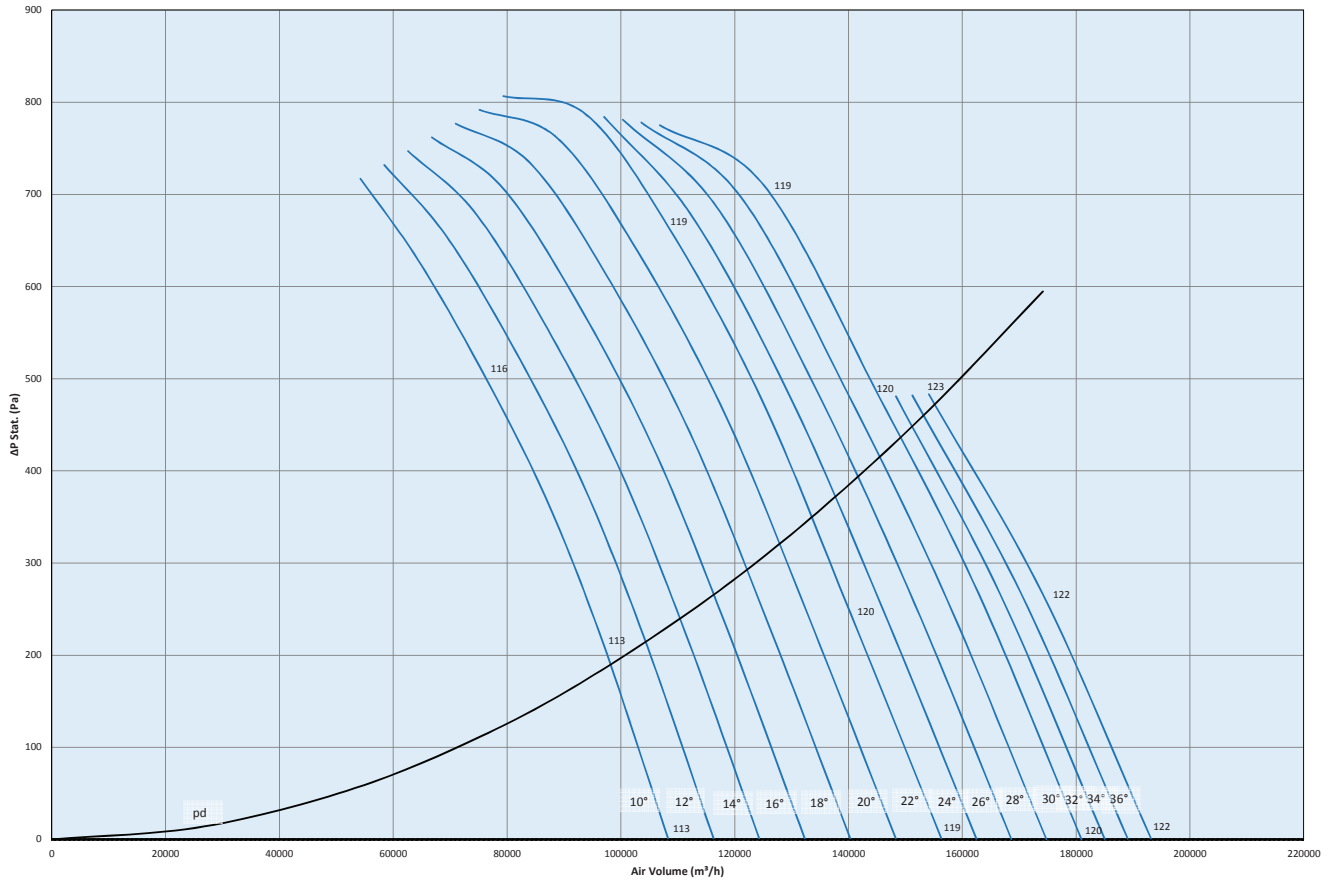
## Ordering Code

AXC(A) 1400 - 12 /25°-6 -(B) - MC





AXC(A) 1400-6-4, 50Hz 1450 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-5	-5	-12	-12	-11	-8	-15	-16
	215	-5	-5	-12	-13	-12	-9	-15	-16
22°	507	-8	-8	-14	-5	-8	-8	-16	-21
	0	-3	-3	-15	-17	-19	-17	-23	-24
	238	-3	-4	-14	-18	-20	-17	-22	-24
30°	649	-5	-3	-16	-17	-16	-15	-19	-21
	0	-4	-4	-14	-17	-17	-14	-20	-21
	472	-4	-3	-14	-17	-17	-13	-16	-20
36°	699	-5	-4	-15	-16	-15	-12	-15	-19
	0	-4	-4	-15	-17	-18	-15	-16	-21
	265	-4	-3	-15	-16	-17	-13	-16	-20
	480	-5	-5	-9	-12	-14	-14	-20	-24

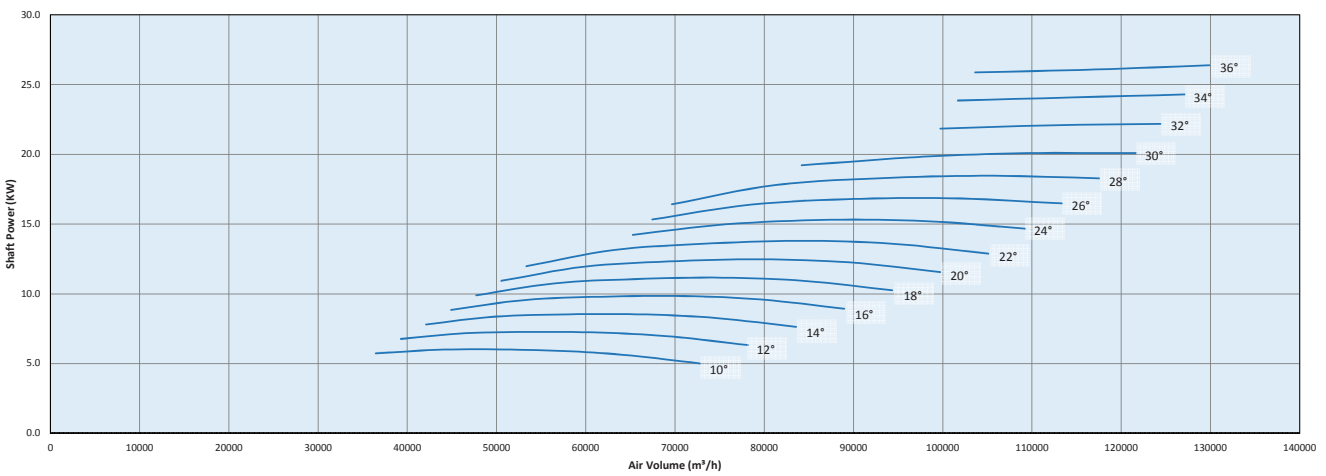
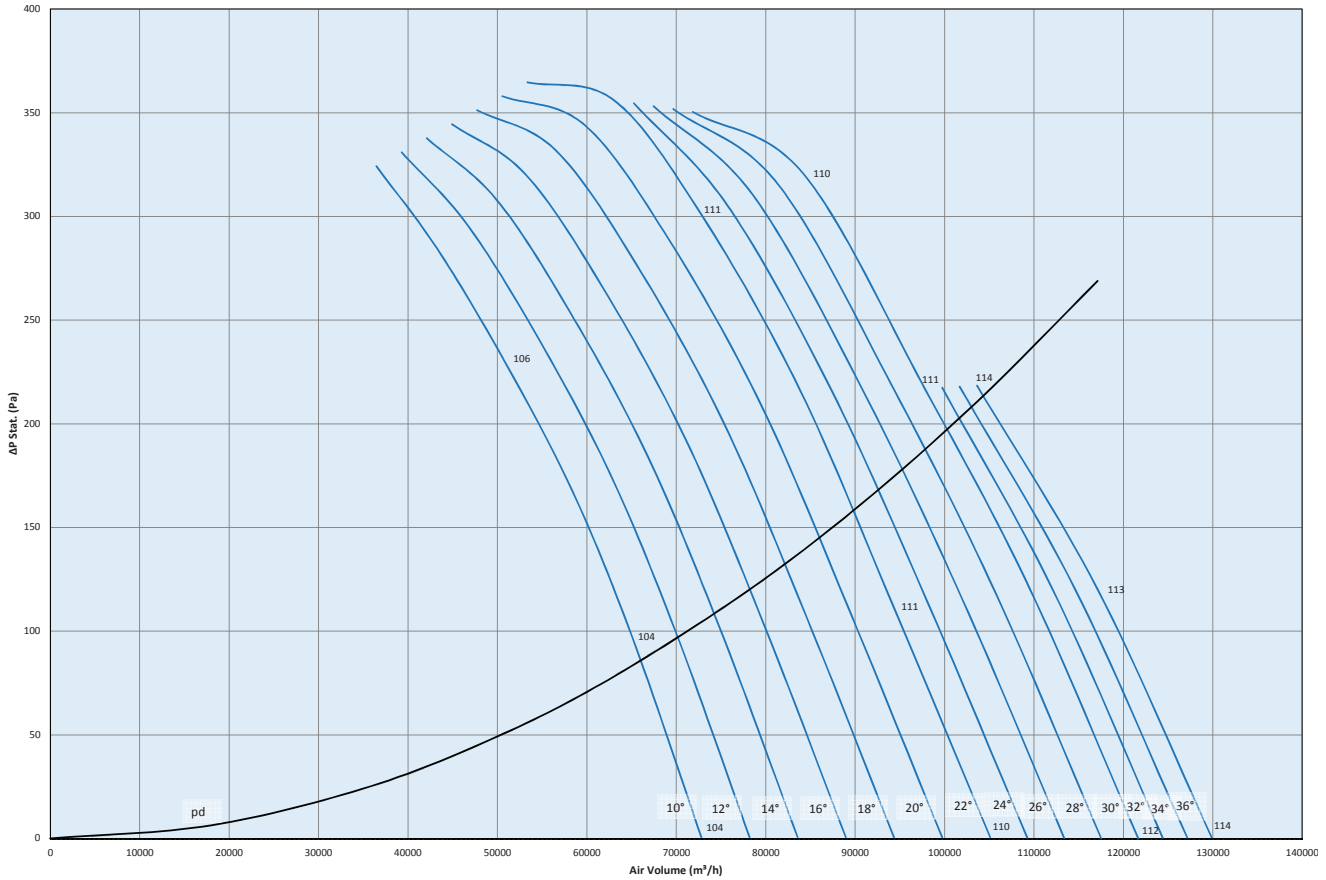
AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 67

AXC(A) 1400-6-6, 50Hz 975 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

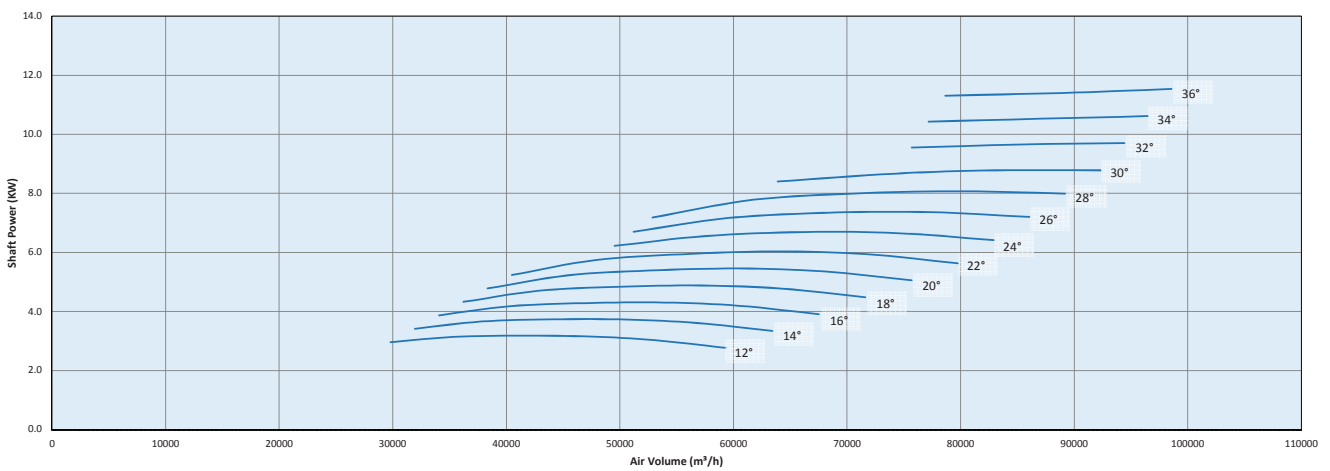
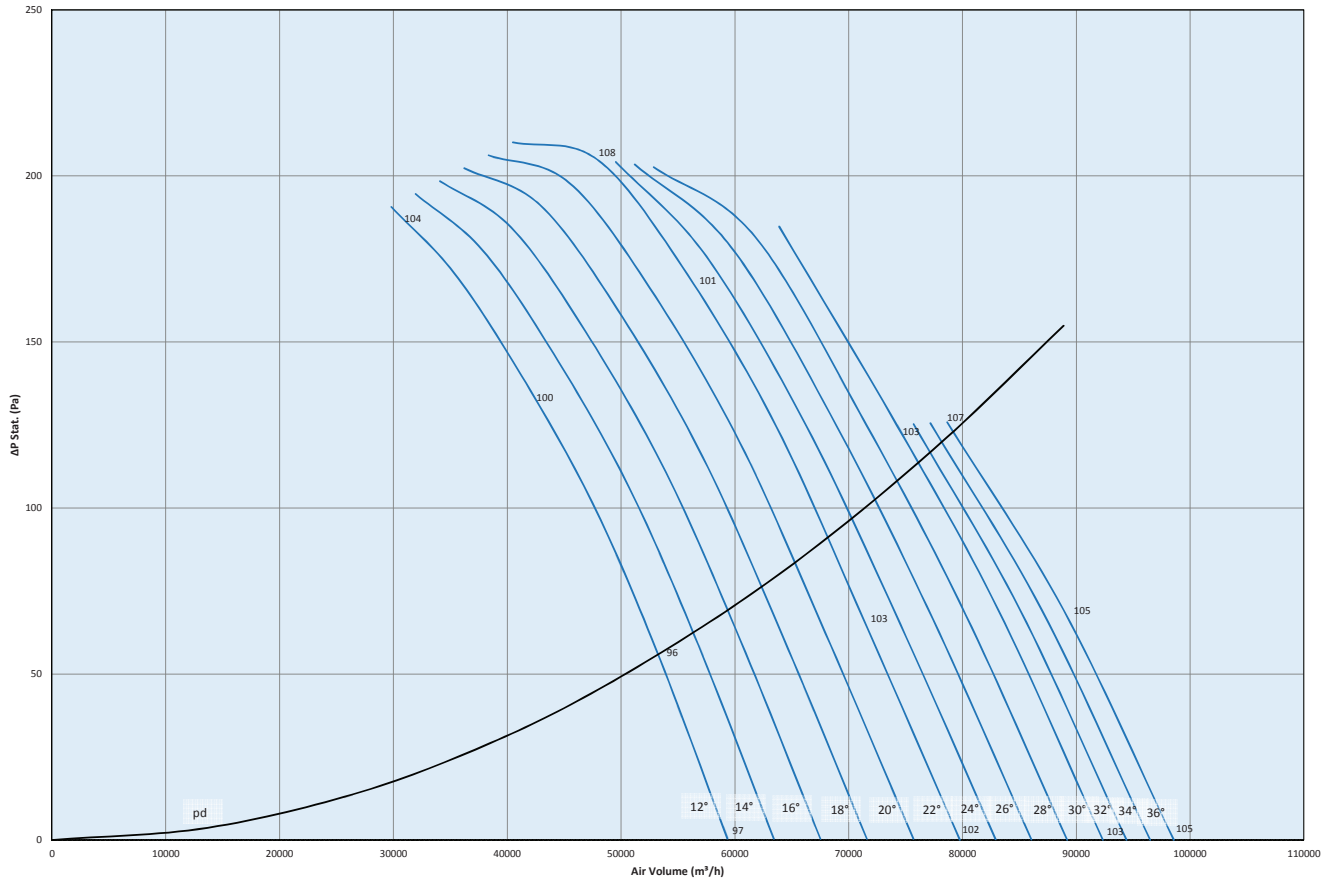
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-5	-5	-12	-11	-9	-12	-15	-21
	97	-5	-5	-12	-12	-10	-12	-15	-21
	229	-7	-7	-8	-6	-7	-12	-19	-25
22°	0	-3	-3	-16	-18	-18	-21	-23	-26
	108	-3	-4	-16	-19	-18	-20	-23	-26
	293	-5	-3	-16	-16	-15	-17	-20	-22
30°	0	-4	-4	-15	-17	-15	-17	-20	-22
	214	-4	-3	-16	-17	-15	-15	-19	-21
	316	-4	-3	-15	-15	-13	-13	-17	-20
36°	0	-4	-4	-16	-17	-16	-15	-19	-22
	120	-4	-3	-16	-17	-15	-15	-19	-22
	217	-4	-5	-10	-12	-13	-16	-21	-25



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 67**

AXC(A) 1400-6-8, 50Hz 740 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lw0 sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
12°	0	-4	-11	-11	-10	-7	-14	-14	-24
	56	-3	-10	-11	-10	-7	-13	-14	-23
	132	-7	-13	-4	-7	-7	-15	-20	-27
	185	-9	-6	-3	-11	-13	-20	-23	-29
22°	0	-1	-12	-14	-17	-14	-21	-21	-25
	62	-1	-12	-16	-18	-15	-20	-22	-25
	169	-1	-12	-13	-12	-11	-15	-17	-20
	207	-6	-4	-7	-11	-14	-21	-24	-29
30°	0	-1	-11	-14	-14	-11	-17	-18	-20
	123	-2	-12	-15	-15	-11	-14	-18	-19
	0	-1	-12	-14	-15	-12	-13	-18	-20
36°	69	-2	-13	-14	-15	-11	-14	-18	-21
	125	-3	-7	-10	-12	-12	-18	-22	-26

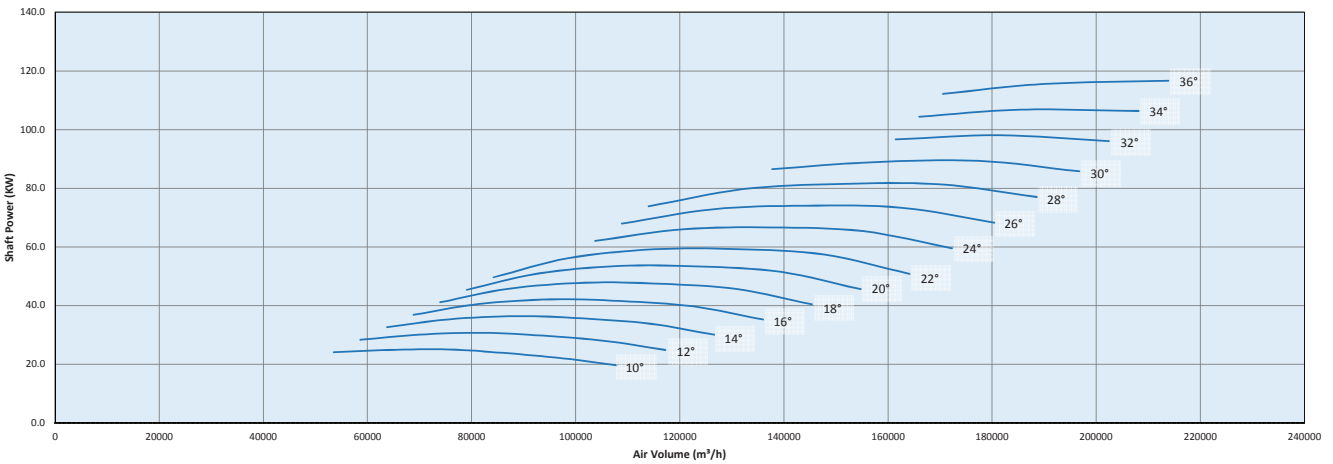
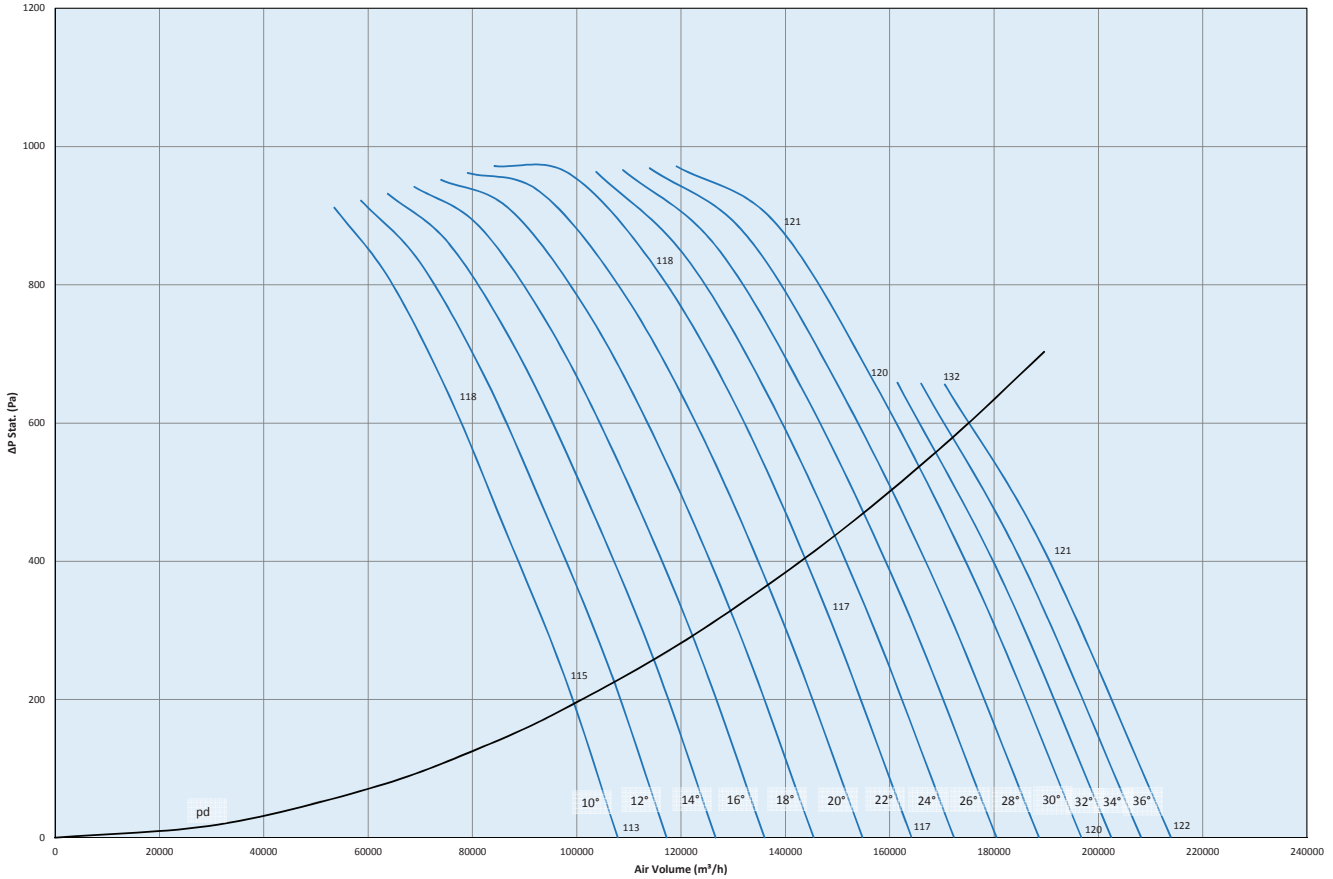


- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lw0 sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 67



AXC(A) 1400-9-4, 50Hz 1450 rpm



SOUND DATA

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

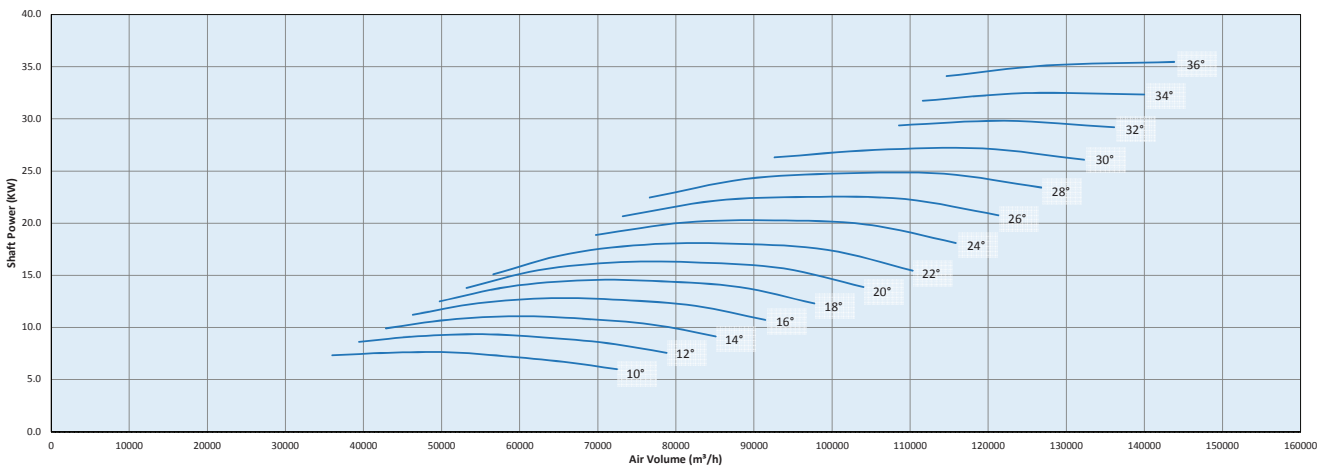
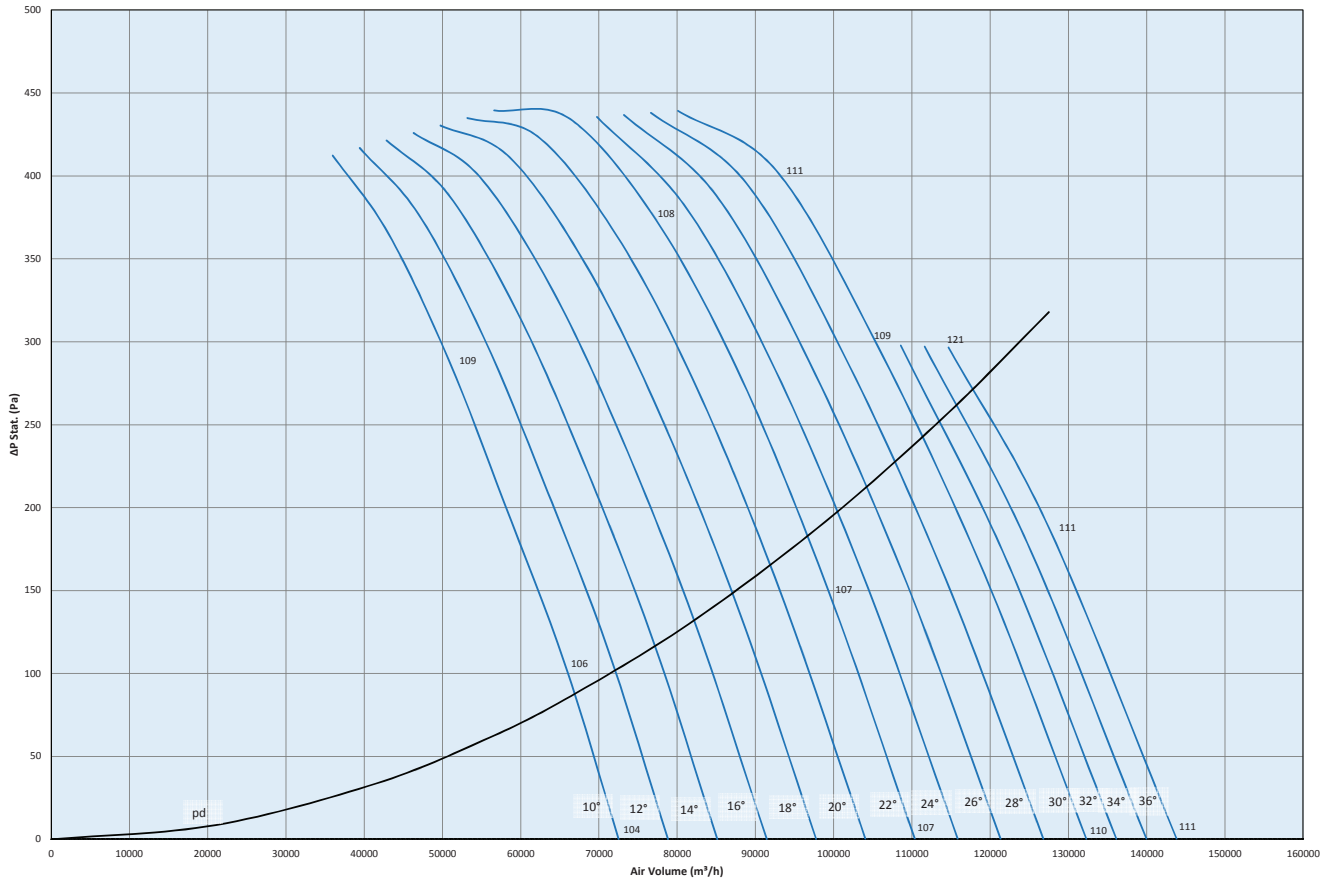
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-7	-7	-10	-10	-8	-7	-11	-14
	445	-9	-9	-12	-8	-7	-7	-14	-18
	799	-9	-9	-6	-6	-9	-11	-18	-23
22°	0	-4	-4	-10	-14	-16	-11	-18	-18
	326	-4	-5	-10	-14	-14	-11	-16	-19
	607	-5	-5	-12	-11	-11	-10	-15	-18
30°	0	-4	-4	-12	-15	-17	-15	-20	-21
	349	-4	-4	-11	-15	-16	-13	-17	-20
	875	-5	-5	-11	-12	-12	-12	-16	-20
36°	0	-4	-4	-12	-15	-16	-13	-17	-20
	415	-4	-4	-11	-14	-14	-12	-15	-19
	853	-3	-3	-14	-17	-19	-20	-25	-30



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 67

AXC(A) 1400-9-6, 50Hz 975 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

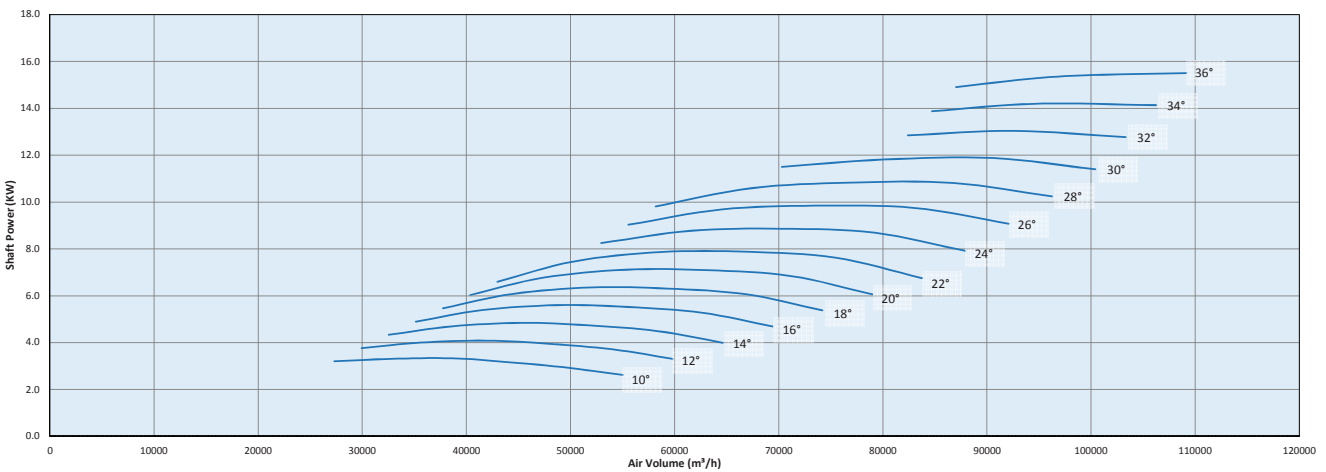
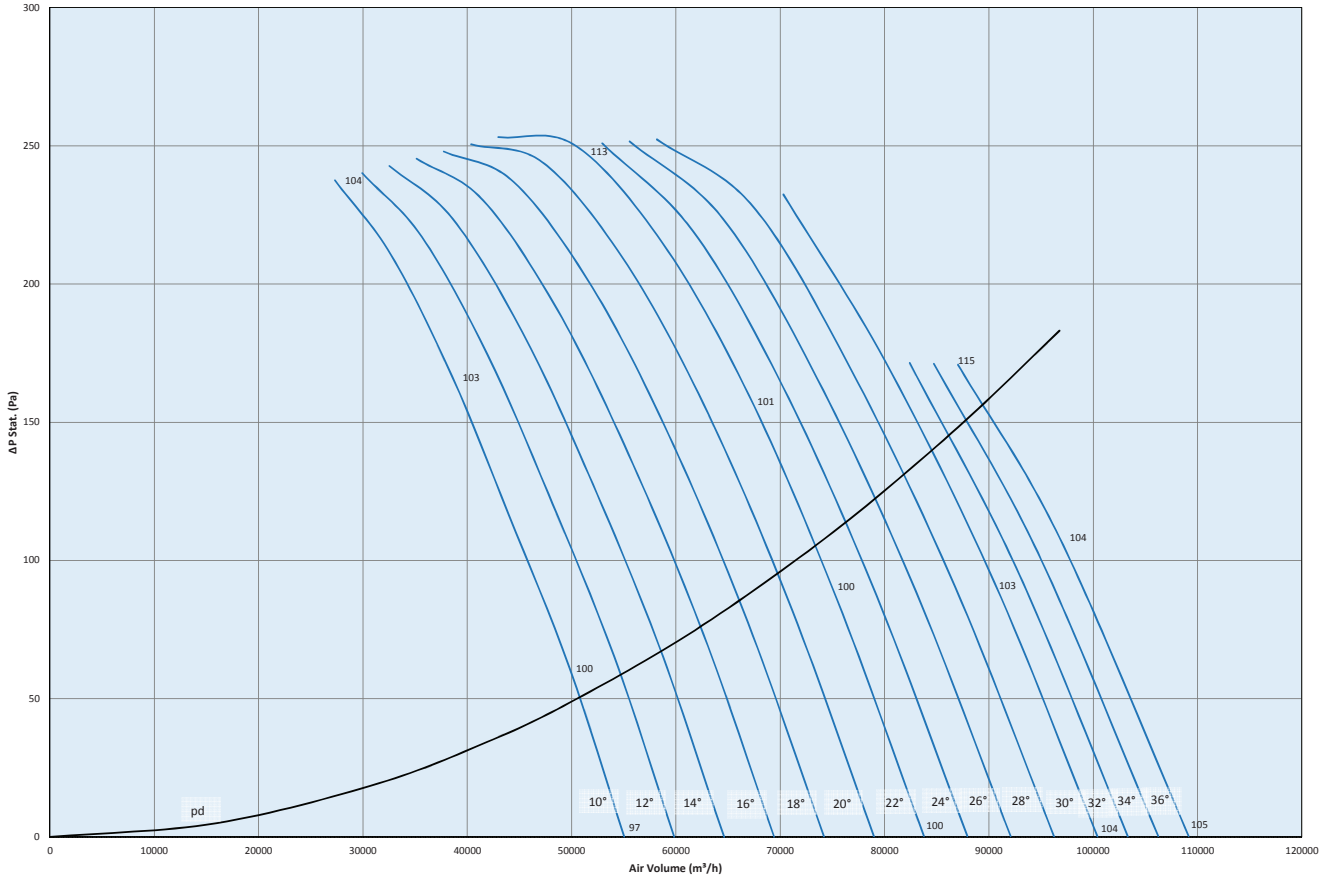
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-7	-8	-10	-8	-7	-9	-12	-19
	201	-8	-10	-9	-6	-6	-10	-15	-22
	361	-8	-7	-5	-7	-10	-15	-20	-27
22°	0	-3	-6	-11	-14	-12	-14	-17	-22
	148	-3	-7	-12	-13	-11	-13	-16	-21
	274	-4	-8	-10	-10	-9	-12	-16	-20
30°	0	-2	-7	-12	-14	-14	-16	-19	-21
	158	-2	-7	-12	-14	-13	-14	-17	-20
	396	-3	-7	-10	-10	-10	-13	-17	-21
36°	0	-2	-7	-12	-14	-13	-14	-17	-20
	187	-3	-7	-12	-13	-11	-12	-16	-19
	295	-1	-8	-14	-16	-18	-21	-26	-32



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 67

AXC(A) 1400-9-8, 50Hz 740 rpm



SOUND DATA

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-6	-9	-9	-7	-6	-10	-12	-23
	116	-8	-12	-7	-6	-6	-13	-17	-26
	208	-8	-5	-5	-8	-10	-17	-22	-30
	264	-3	-6	-11	-14	-13	-20	-23	-29
22°	0	-2	-8	-12	-14	-9	-16	-16	-24
	85	-2	-9	-12	-12	-8	-14	-16	-22
	158	-3	-10	-9	-9	-8	-13	-16	-21
	248	-1	-9	-15	-19	-19	-26	-31	-37
30°	0	-2	-10	-13	-15	-13	-18	-19	-22
	91	-2	-10	-13	-14	-11	-15	-18	-20
36°	0	-2	-10	-13	-14	-11	-15	-18	-21
	108	-2	-10	-12	-12	-10	-13	-17	-20
	170	-1	-12	-15	-17	-18	-23	-28	-34

AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa

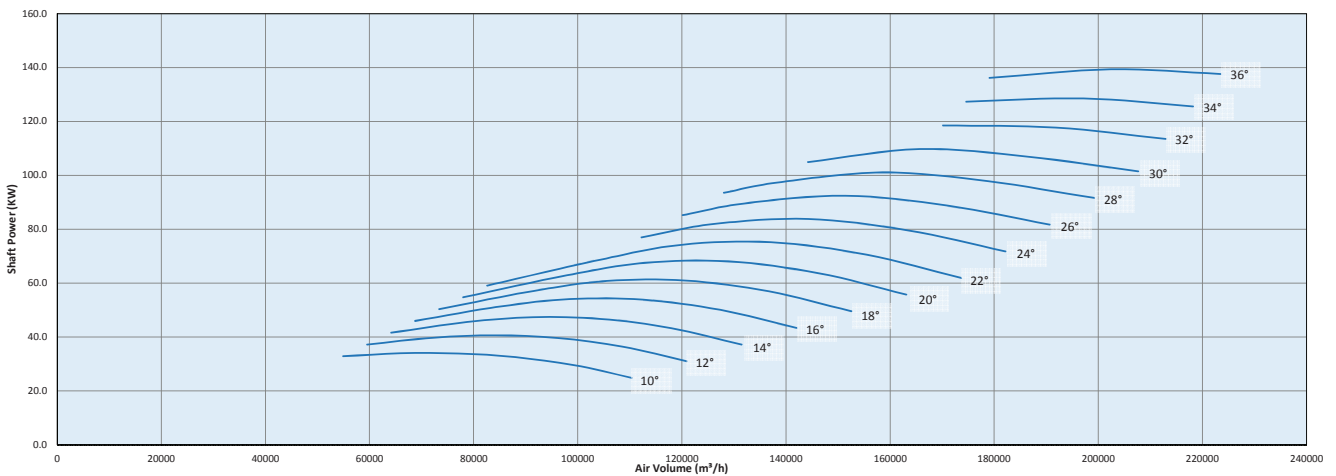
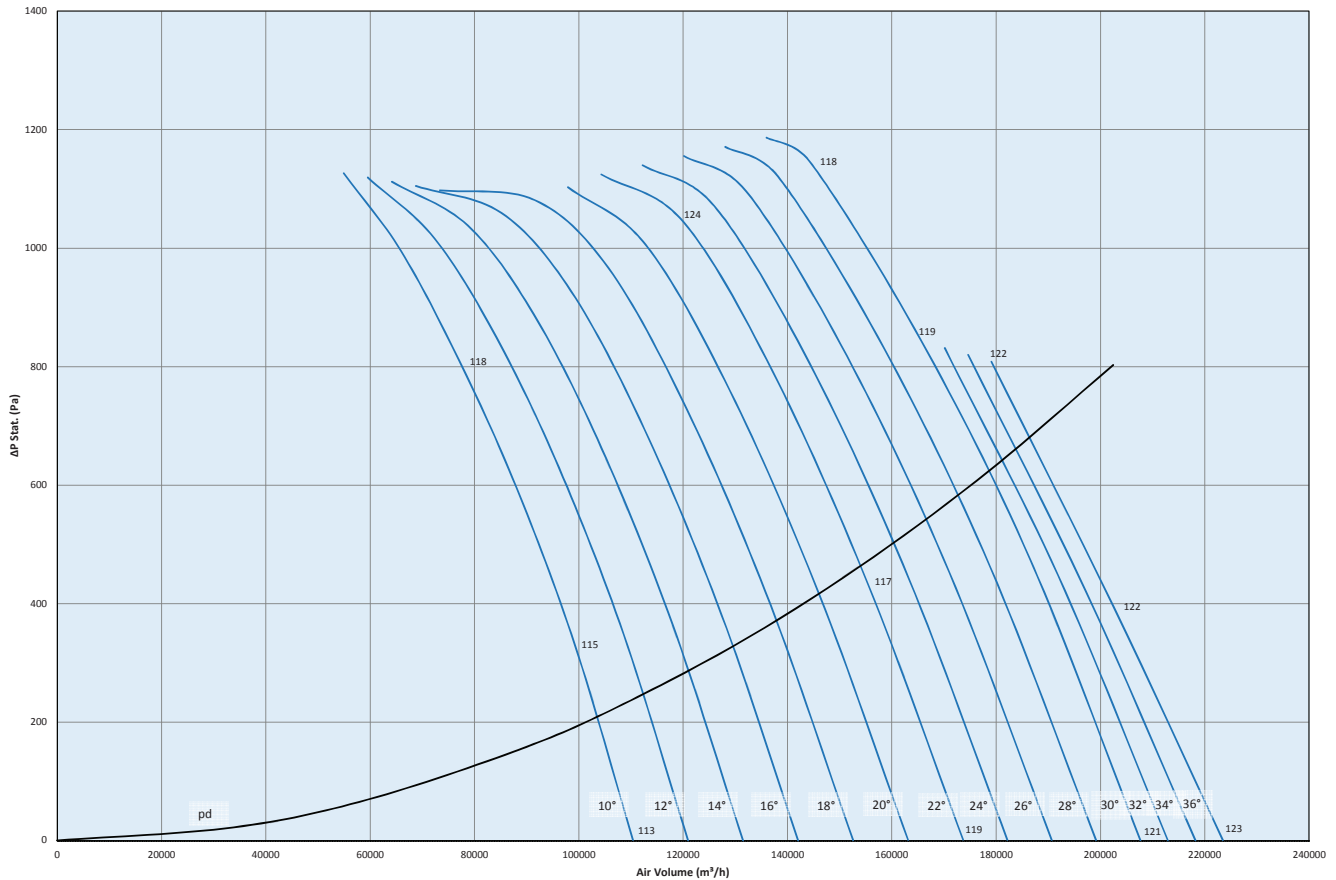


- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 67



AXC(A) 1400-12-4, 50Hz 1450 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-10	-10	-10	-9	-8	-7	-10	-13
	591	-13	-13	-12	-7	-6	-6	-12	-17
	987	-9	-9	-8	-5	-7	-10	-16	-22
22°	0	-4	-4	-12	-15	-17	-14	-22	-22
	783	-7	-7	-9	-7	-8	-9	-14	-18
	1033	-7	-7	-7	-7	-12	-14	-20	-26
30°	0	-4	-4	-11	-14	-16	-15	-21	-23
	488	-5	-5	-9	-14	-14	-13	-18	-20
	837	-5	-5	-10	-13	-12	-11	-15	-17
36°	0	-4	-4	-13	-16	-17	-15	-21	-22
	392	-4	-4	-11	-15	-16	-12	-18	-20
	799	-4	-4	-12	-15	-14	-12	-17	-19

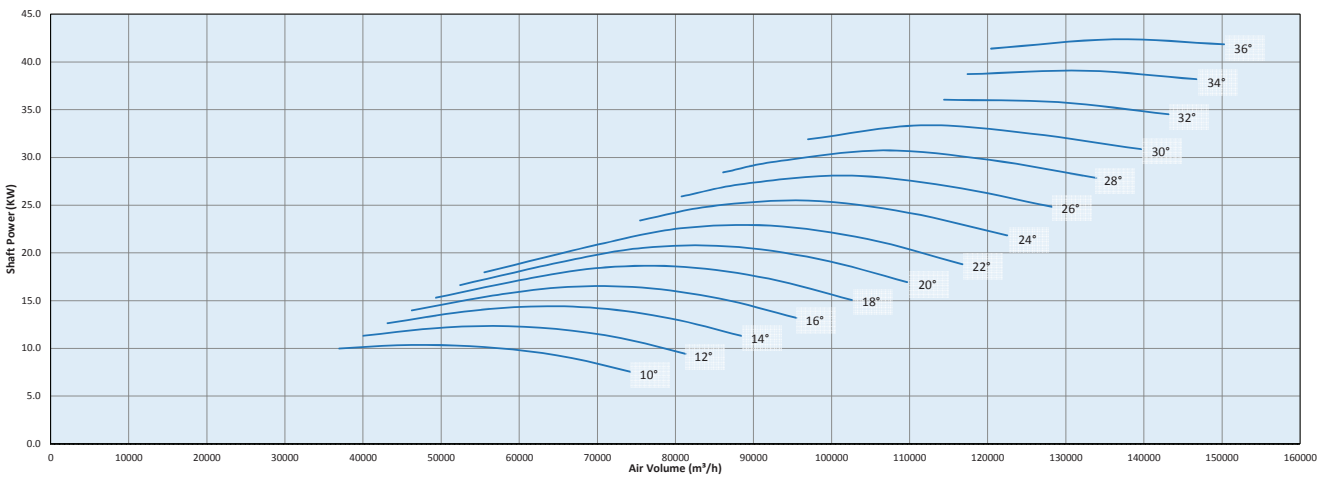
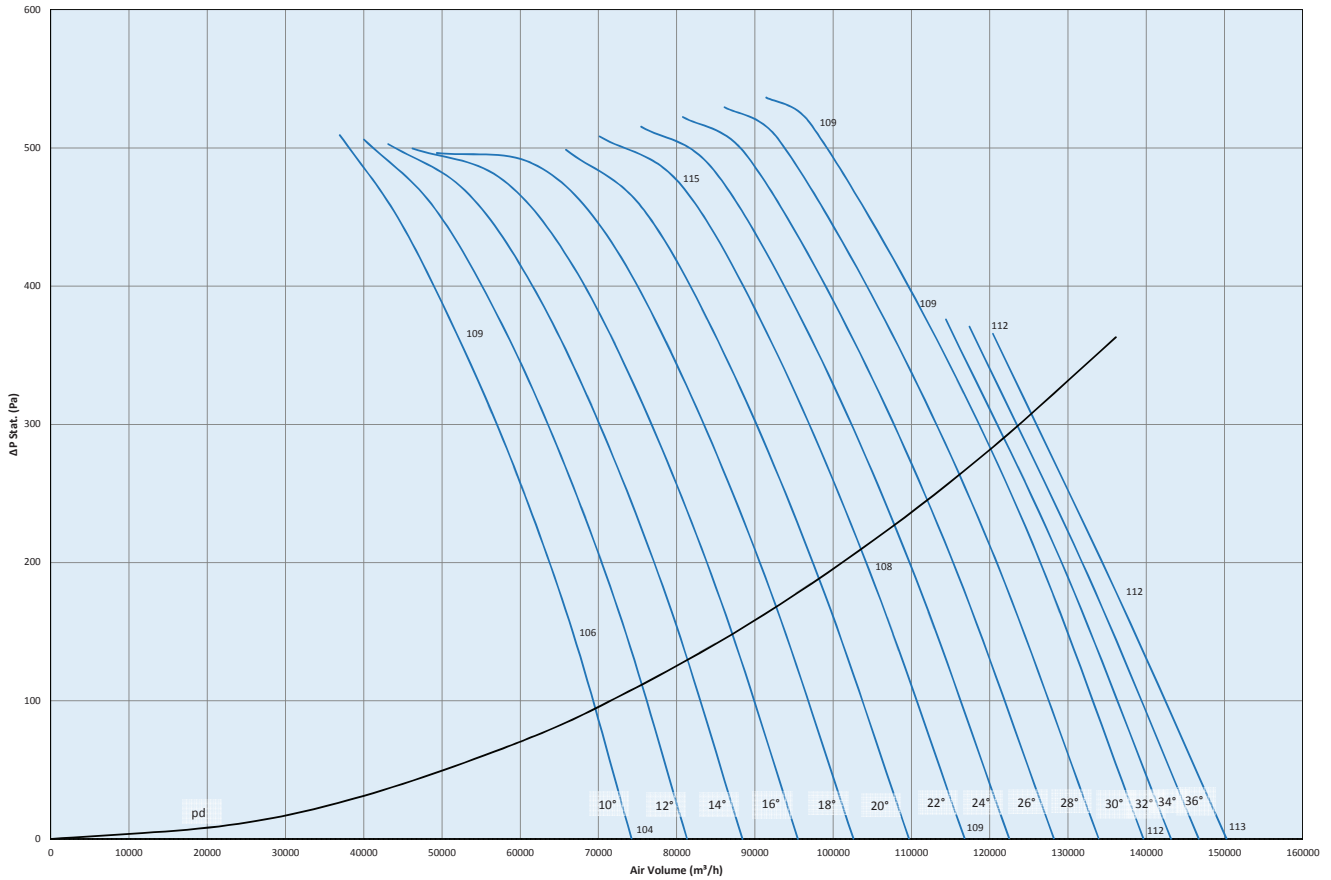
AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 60**

AXC(A) 1400-12-6, 50Hz 975 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

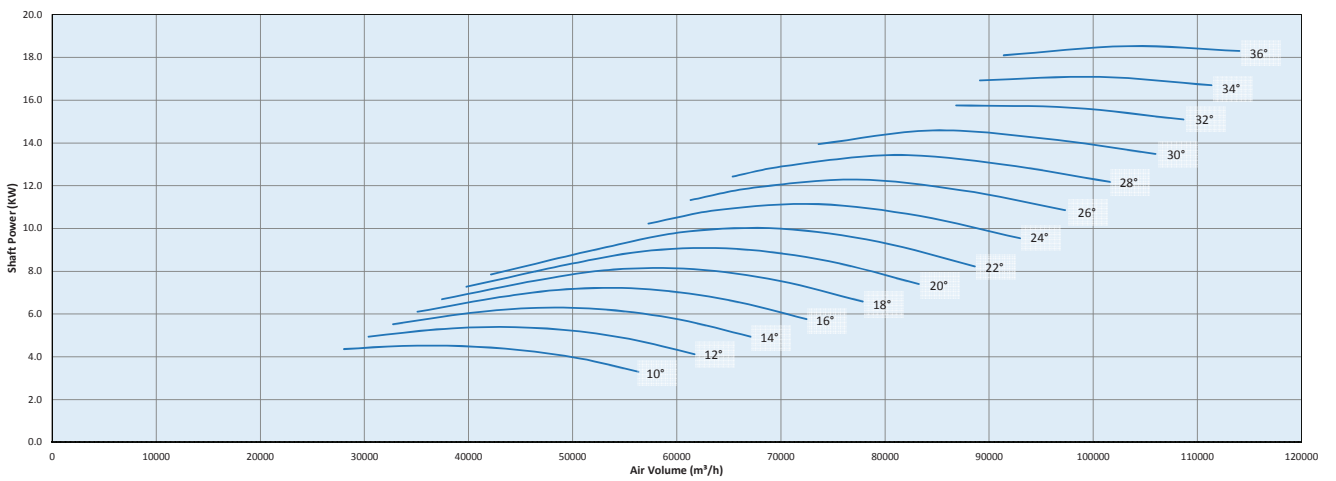
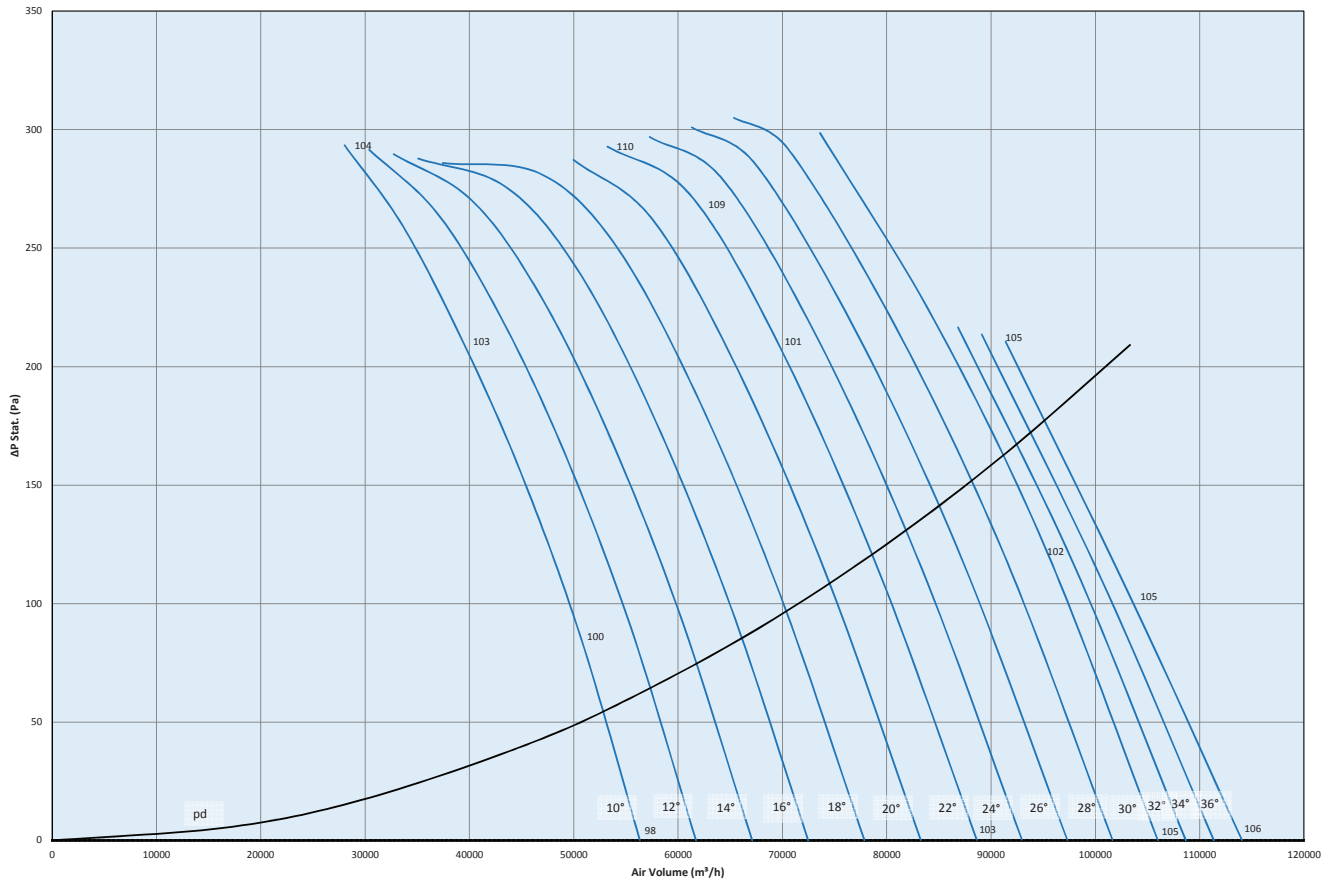
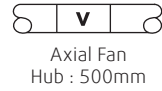
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-9	-9	-9	-8	-7	-8	-11	-19
	267	-12	-13	-9	-6	-5	-9	-14	-22
	446	-9	-8	-6	-6	-9	-13	-19	-26
22°	0	-2	-7	-10	-14	-13	-17	-20	-24
	354	-7	-9	-8	-7	-8	-11	-15	-20
	467	-6	-6	-6	-9	-12	-16	-22	-28
30°	0	-3	-7	-10	-14	-14	-17	-21	-24
	212	-3	-7	-7	-13	-12	-14	-18	-21
	378	-4	-7	-9	-11	-10	-12	-15	-18
36°	0	-2	-7	-11	-15	-14	-17	-20	-22
	177	-3	-7	-10	-14	-12	-14	-18	-20
	361	-3	-8	-11	-13	-11	-14	-17	-19



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 60**

AXC(A) 1400-12-8, 50Hz 740 rpm



**SOUND DATA**

Single figure on performance curves are over all inlet Lwi sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-9	-9	-9	-7	-6	-9	-12	-23
	154	-12	-13	-6	-5	-5	-11	-16	-26
	257	-9	-8	-5	-7	-10	-16	-22	-29
	327	-8	-3	-9	-12	-12	-19	-22	-28
22°	0	-2	-10	-13	-15	-12	-20	-20	-26
	204	-6	-10	-6	-7	-7	-12	-16	-21
	269	-6	-6	-6	-11	-13	-19	-25	-31
	290	-3	-5	-13	-16	-17	-23	-28	-35
30°	0	-2	-9	-12	-14	-13	-19	-21	-25
	122	-2	-8	-11	-12	-10	-15	-17	-21
36°	0	-1	-10	-13	-14	-12	-18	-19	-22
	102	-2	-10	-13	-14	-10	-16	-18	-20
	208	-2	-11	-13	-12	-10	-15	-17	-20

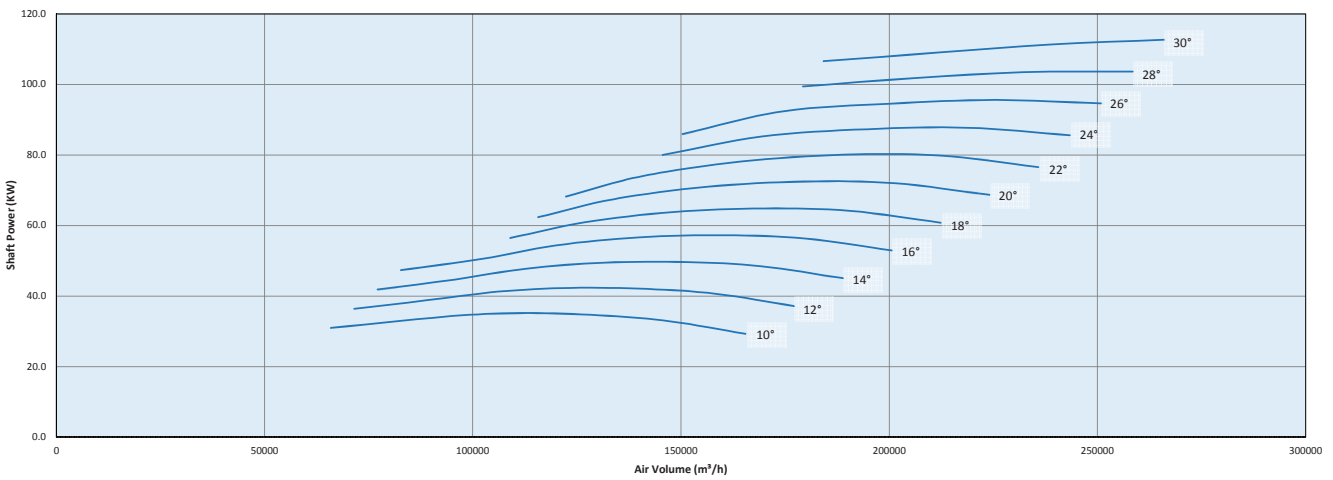
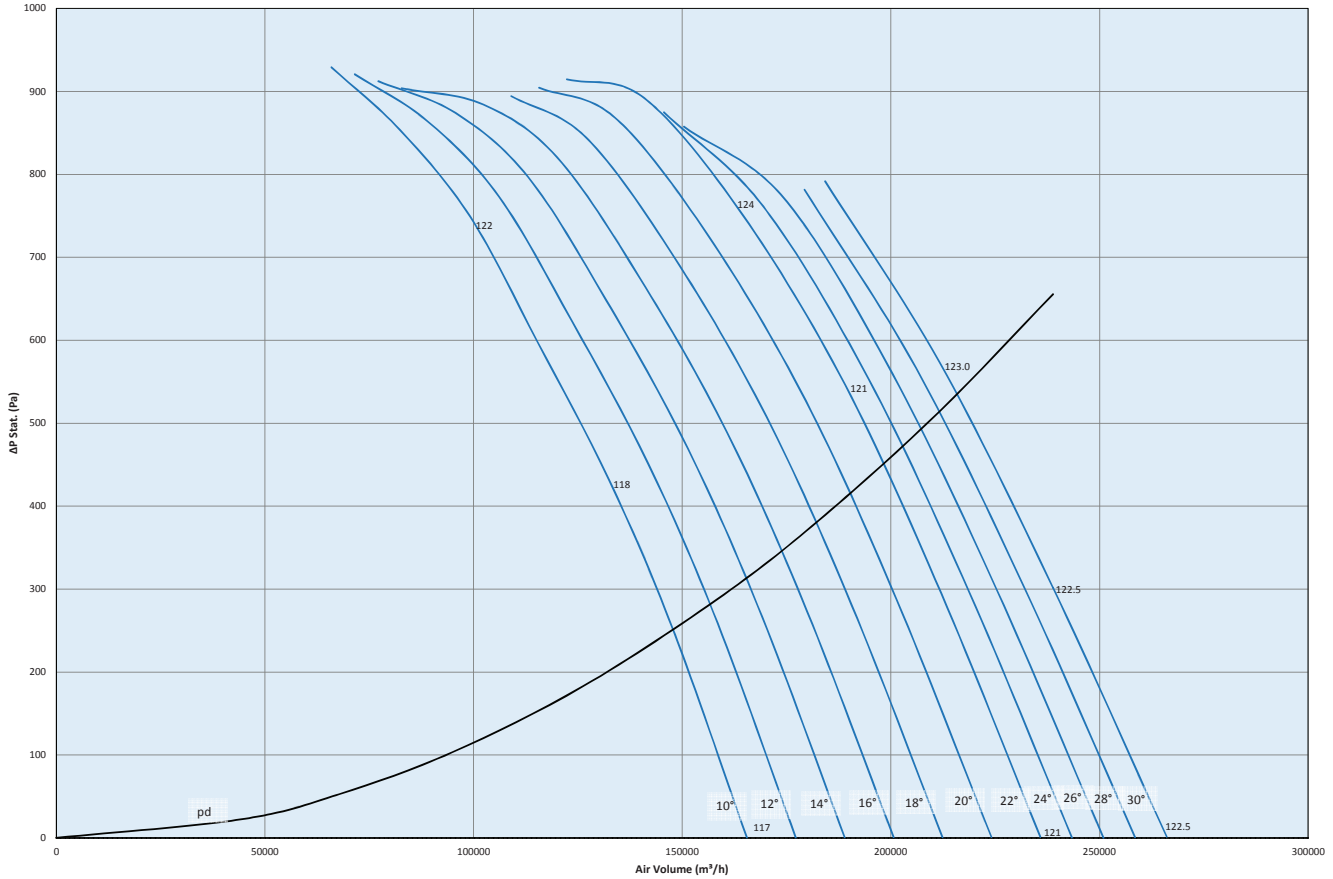


- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 60**



AXC(A) 1600-6-4, 50Hz 1450 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lw0 sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-5	-5	-8	-13	-13	-13	-15	-14
	426	-8	-7	-14	-8	-7	-8	-14	-17
	737	-11	-11	-10	-2	-9	-13	-18	-21
22°	0	-4	-4	-11	-13	-17	-18	-21	-19
	538	-4	-4	-10	-12	-12	-14	-16	-18
	741	-7	-7	-10	-5	-8	-12	-16	-19
30°	0	-4	-4	-11	-15	-17	-16	-18	-18
	299	-4	-4	-12	-16	-17	-15	-17	-17
	568	-5	-4	-9	-11	-11	-13	-15	-18

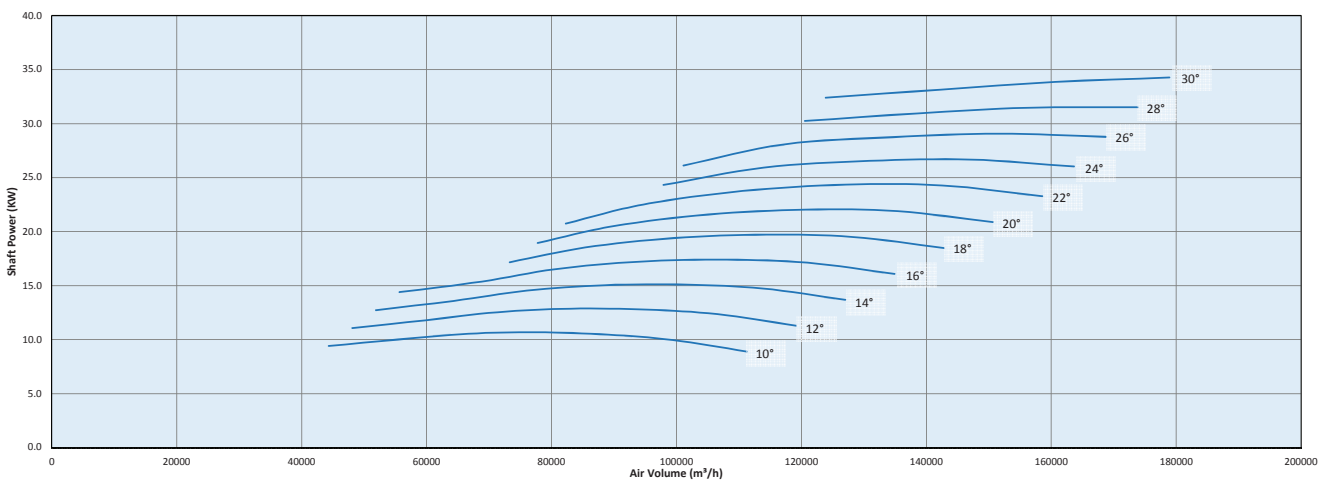
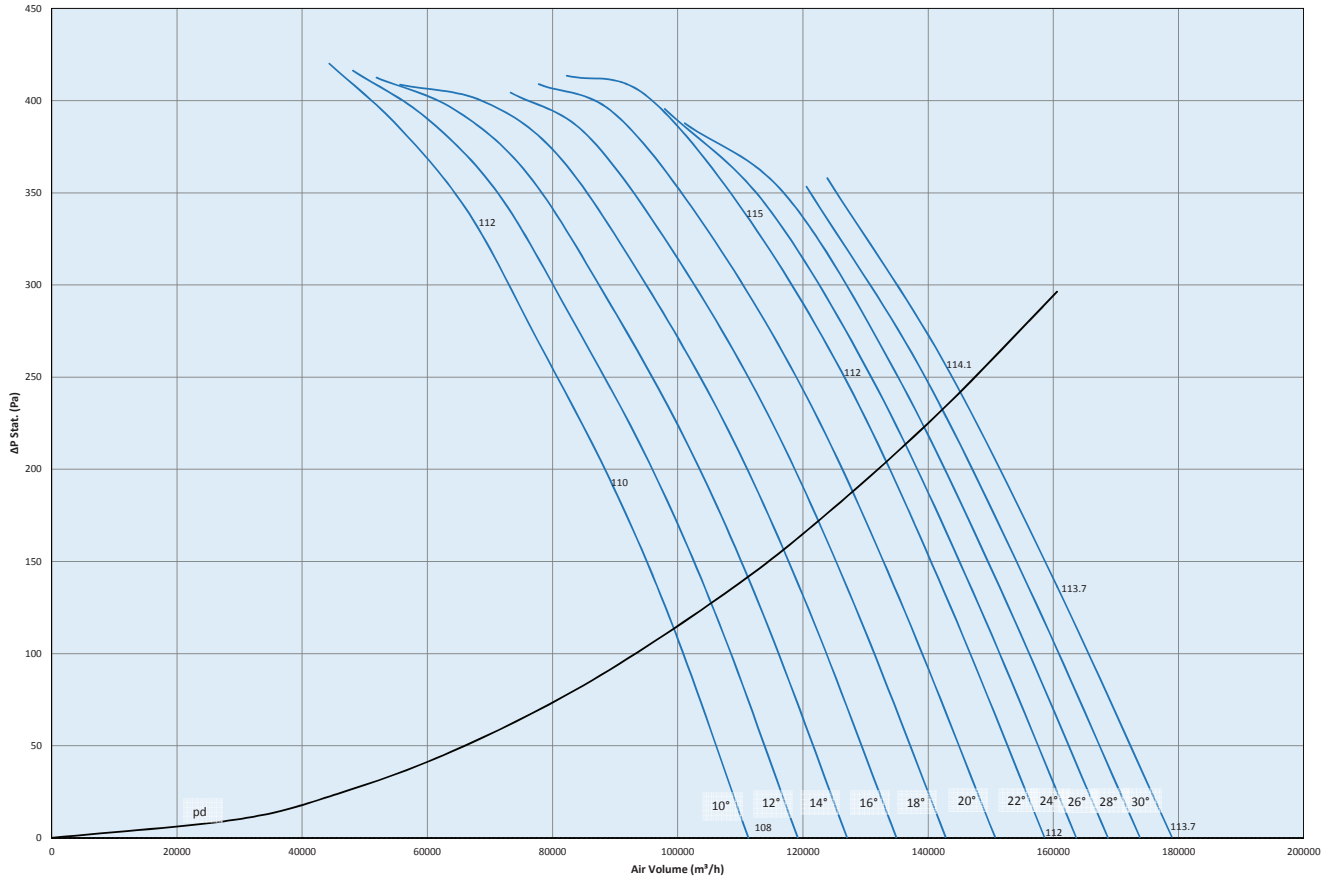
AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lw0 sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FE71**

AXC(A) 1600-6-6, 50Hz 975 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-5	-5	-11	-13	-13	-14	-14	-18
	193	-8	-7	-10	-7	-7	-11	-15	-21
	333	-10	-10	-4	-5	-11	-15	-19	-23
22°	0	-4	-4	-12	-15	-17	-19	-19	-20
	243	-4	-4	-11	-12	-13	-15	-17	-19
	335	-7	-7	-7	-7	-10	-14	-18	-21
30°	0	-4	-4	-13	-16	-16	-17	-18	-20
	135	-4	-4	-14	-16	-16	-16	-17	-19
	257	-5	-4	-10	-11	-12	-14	-16	-20

AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa

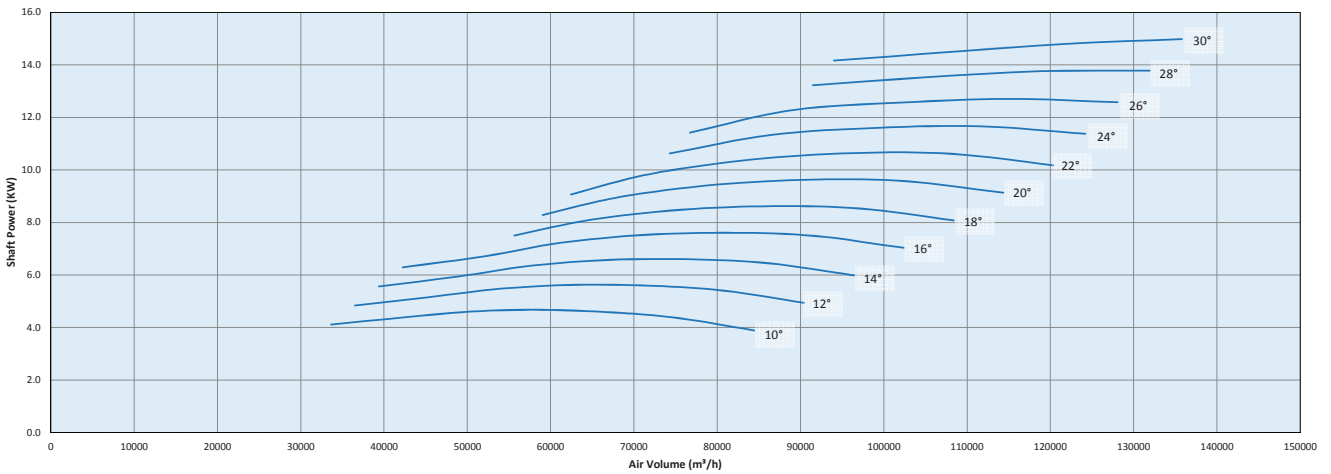
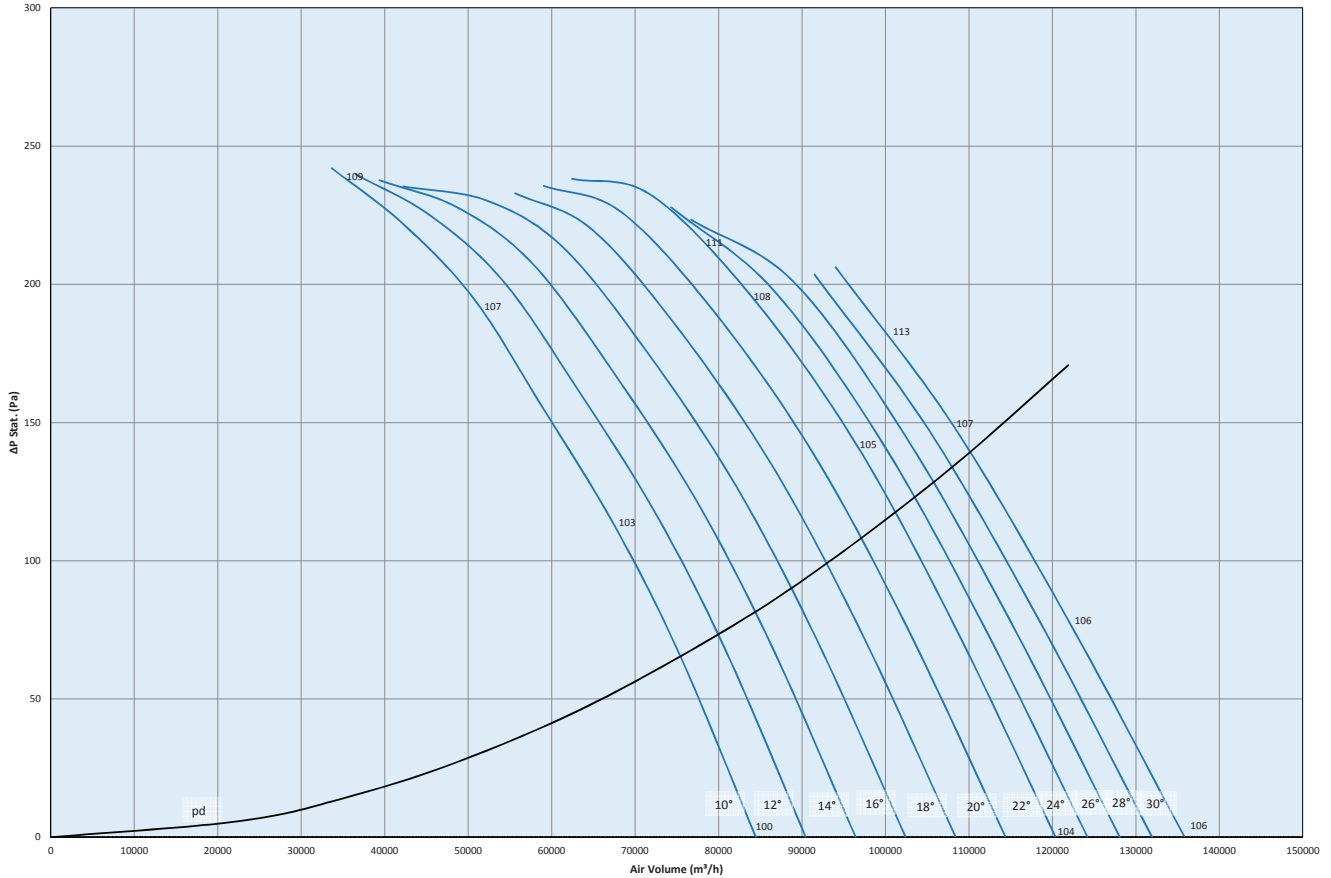


- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 71**



AXC(A) 1600-6-8, 50Hz 740 rpm



SOUND DATA

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-4	-6	-11	-11	-11	-14	-12	-20
	111	-7	-12	-7	-6	-7	-13	-16	-23
	192	-11	-10	-2	-9	-13	-18	-21	-26
	239	-1	-10	-12	-15	-17	-21	-23	-27
22°	0	-2	-9	-11	-15	-16	-19	-17	-20
	140	-3	-9	-11	-11	-13	-15	-16	-19
	193	-6	-9	-4	-7	-11	-15	-18	-22
	215	-6	-4	-7	-10	-14	-19	-23	-28
30°	0	-2	-9	-13	-15	-14	-16	-16	-19
	78	-2	-10	-14	-15	-13	-15	-15	-19
	148	-4	-8	-10	-10	-12	-14	-16	-20
	183	-5	-4	-10	-13	-16	-21	-26	-31

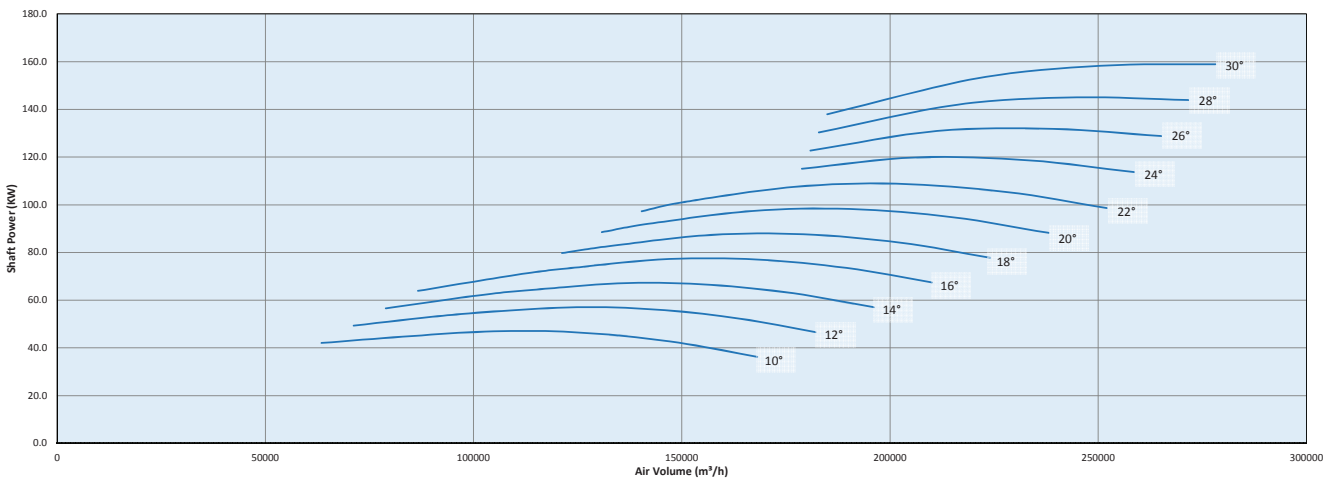
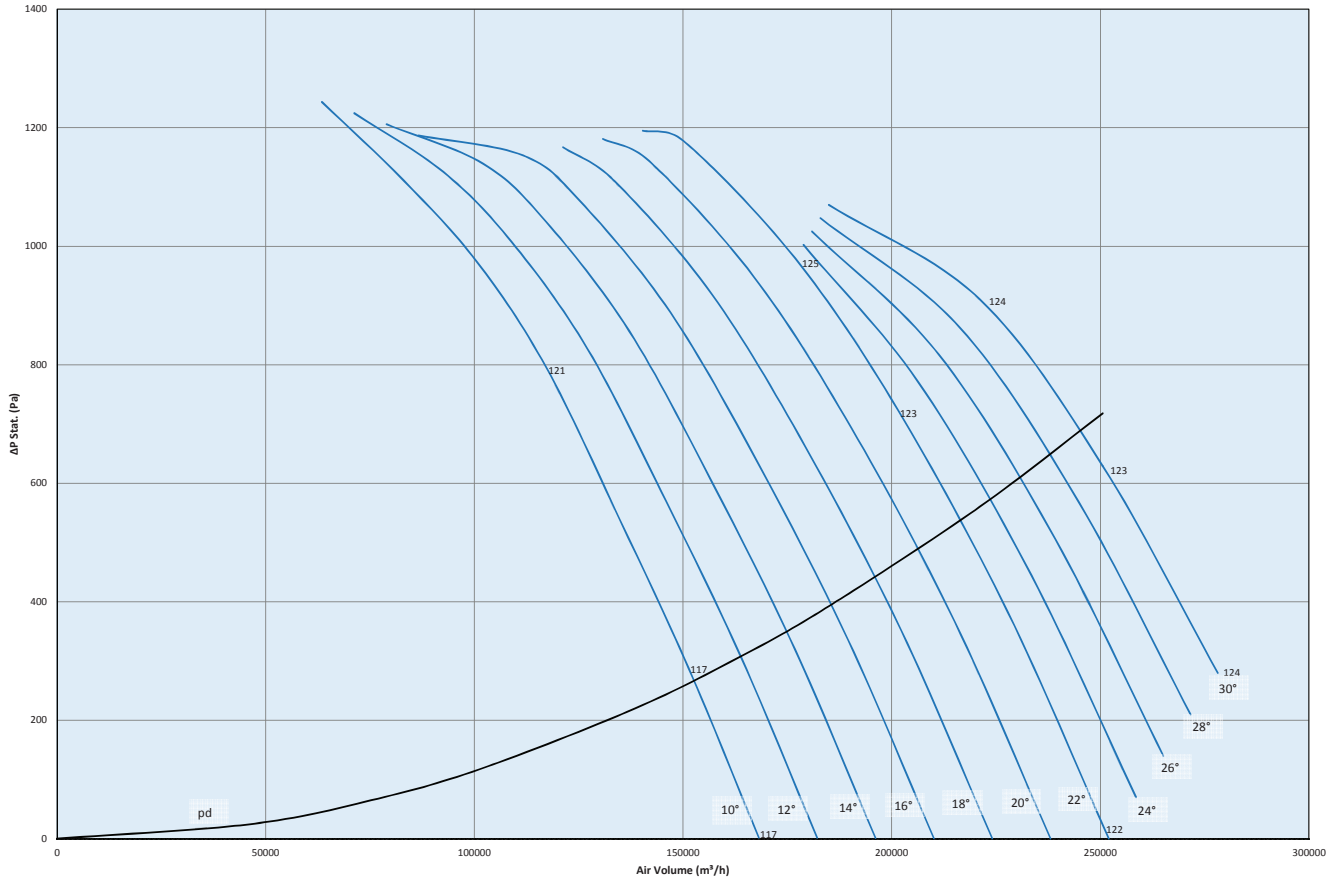


- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 71



AXC(A) 1600-9-4, 50Hz 1450 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

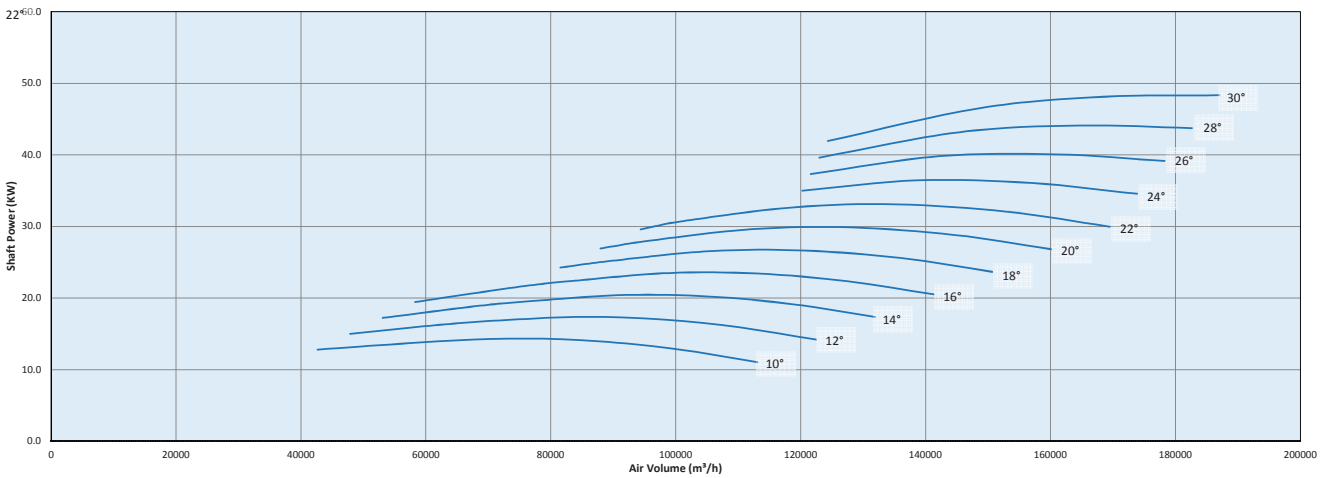
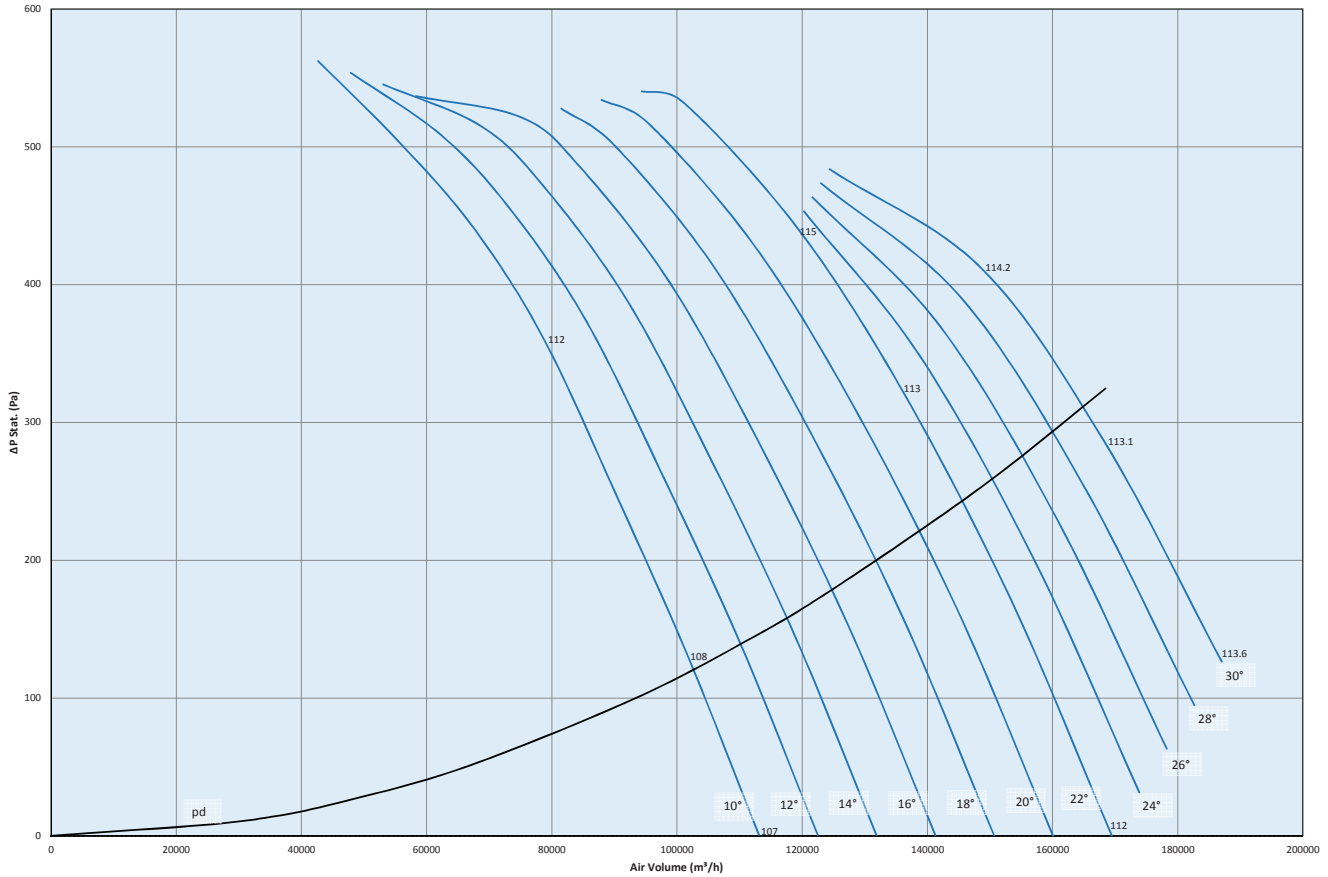
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-7	-7	-8	-12	-10	-9	-11	-12
	284	-9	-9	-8	-10	-8	-6	-10	-14
	783	-10	-10	-12	-4	-6	-9	-15	-20
22°	0	-4	-4	-10	-12	-16	-16	-19	-20
	718	-6	-6	-11	-9	-8	-11	-15	-18
	968	-8	-8	-11	-5	-7	-11	-16	-20
30°	276	-4	-4	-11	-12	-15	-17	-19	-20
	622	-4	-4	-10	-12	-13	-14	-16	-18
	902	-5	-5	-12	-12	-11	-13	-16	-19



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 67**

AXC(A) 1600-9-6, 50Hz 975 rpm



SOUND DATA

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

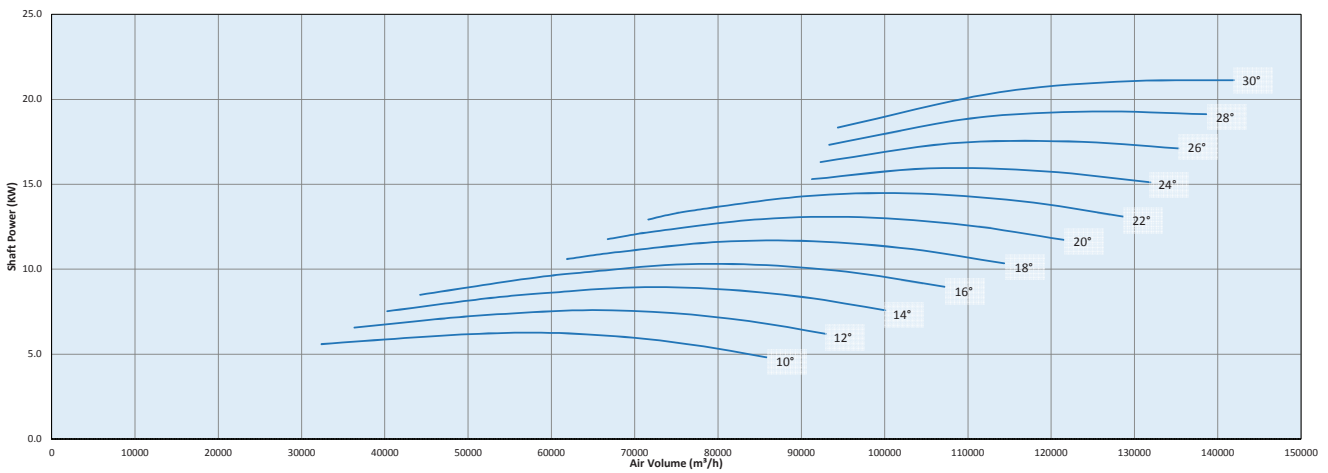
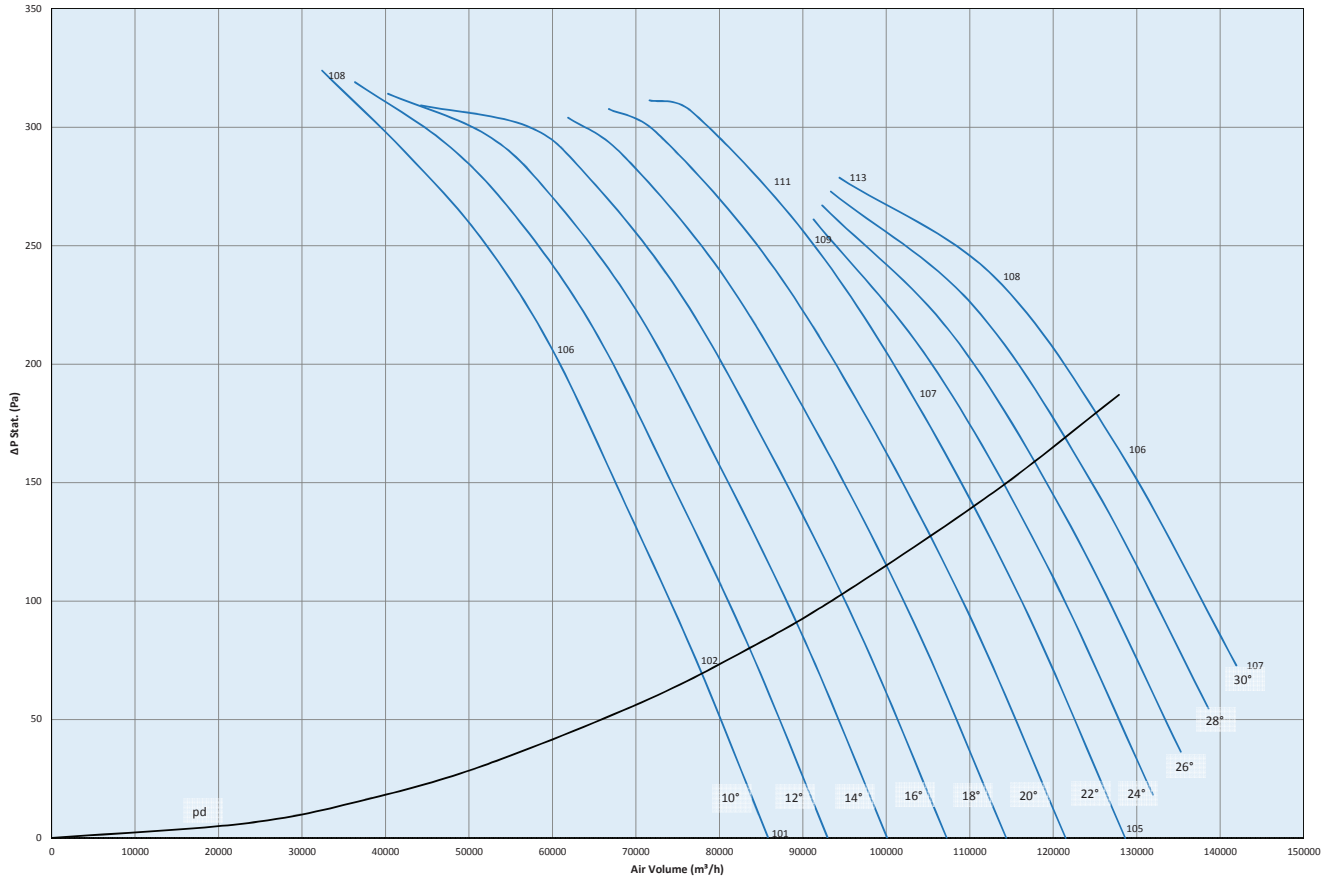
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-6	-7	-10	-10	-9	-9	-11	-17
	128	-9	-8	-9	-9	-7	-8	-12	-18
	354	-10	-11	-7	-5	-7	-12	-17	-23
22°	0	-3	-6	-10	-13	-15	-17	-18	-21
	325	-5	-9	-9	-7	-9	-12	-16	-20
	437	-7	-9	-7	-6	-9	-13	-18	-22
30°	125	-3	-7	-10	-12	-15	-17	-18	-20
	281	-3	-7	-10	-12	-13	-14	-16	-18
	408	-3	-8	-11	-10	-10	-13	-16	-19



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 67

AXC(A) 1600-9-8, 50Hz 740 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lw0 sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

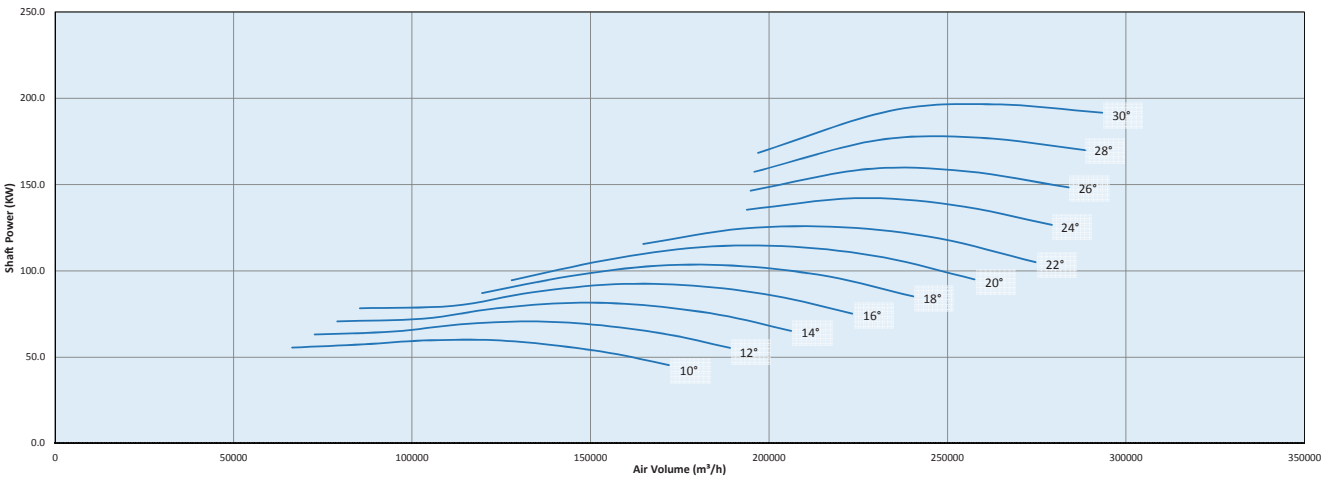
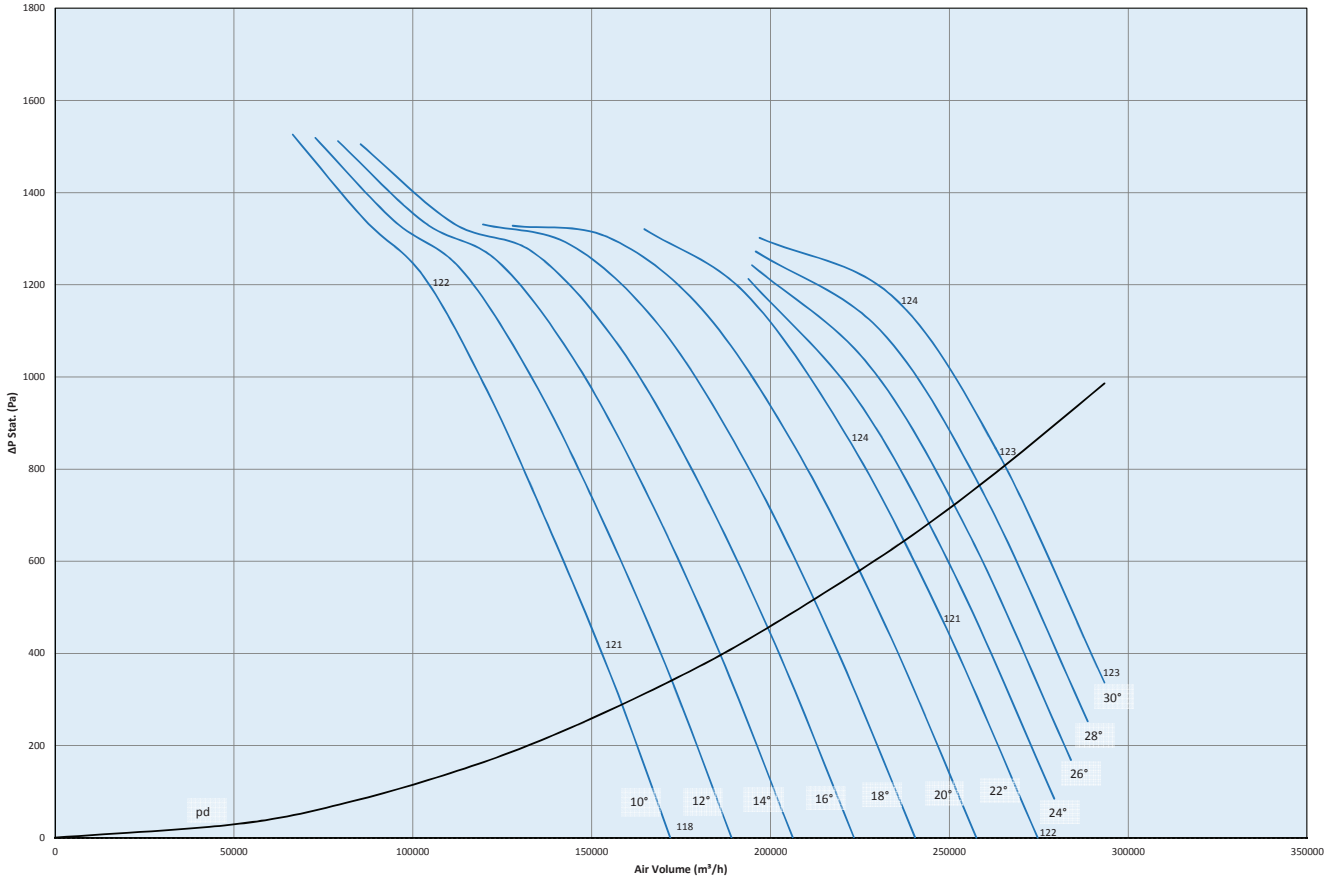
Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-6	-7	-11	-9	-8	-10	-11	-20
	74	-9	-9	-10	-8	-6	-10	-13	-22
	204	-10	-12	-4	-6	-9	-15	-19	-27
	320	-2	-7	-12	-14	-15	-19	-23	-27
22°	0	-2	-8	-10	-14	-14	-17	-18	-22
	187	-5	-11	-8	-7	-10	-14	-17	-22
	252	-7	-10	-4	-6	-10	-15	-19	-24
	277	-6	-4	-6	-10	-13	-18	-23	-28
30°	72	-2	-9	-10	-13	-15	-17	-18	-20
	162	-2	-8	-10	-11	-12	-14	-16	-18
	235	-3	-11	-10	-9	-11	-14	-17	-20
	274	-4	-7	-8	-10	-13	-18	-23	-28



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lw0 sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 67**

AXC(A) 1600-12-4, 50Hz 1450 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-8	-8	-7	-12	-9	-9	-11	-11
	415	-12	-12	-10	-6	-5	-7	-13	-18
	1202	-12	-12	-6	-5	-7	-11	-16	-21
22°	0	-5	-5	-8	-14	-16	-16	-19	-19
	476	-6	-6	-7	-12	-11	-12	-15	-17
	868	-10	-10	-11	-5	-7	-9	-13	-18
30°	334	-5	-5	-8	-13	-15	-16	-18	-18
	837	-5	-5	-7	-13	-13	-14	-15	-17
	1163	-6	-6	-9	-9	-9	-12	-14	-17

AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa

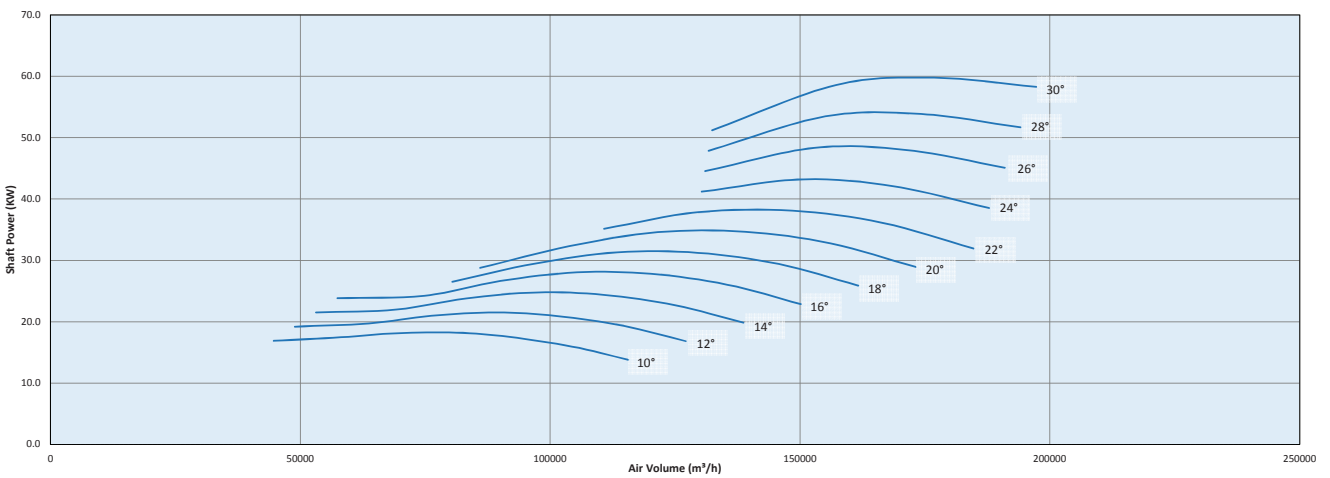
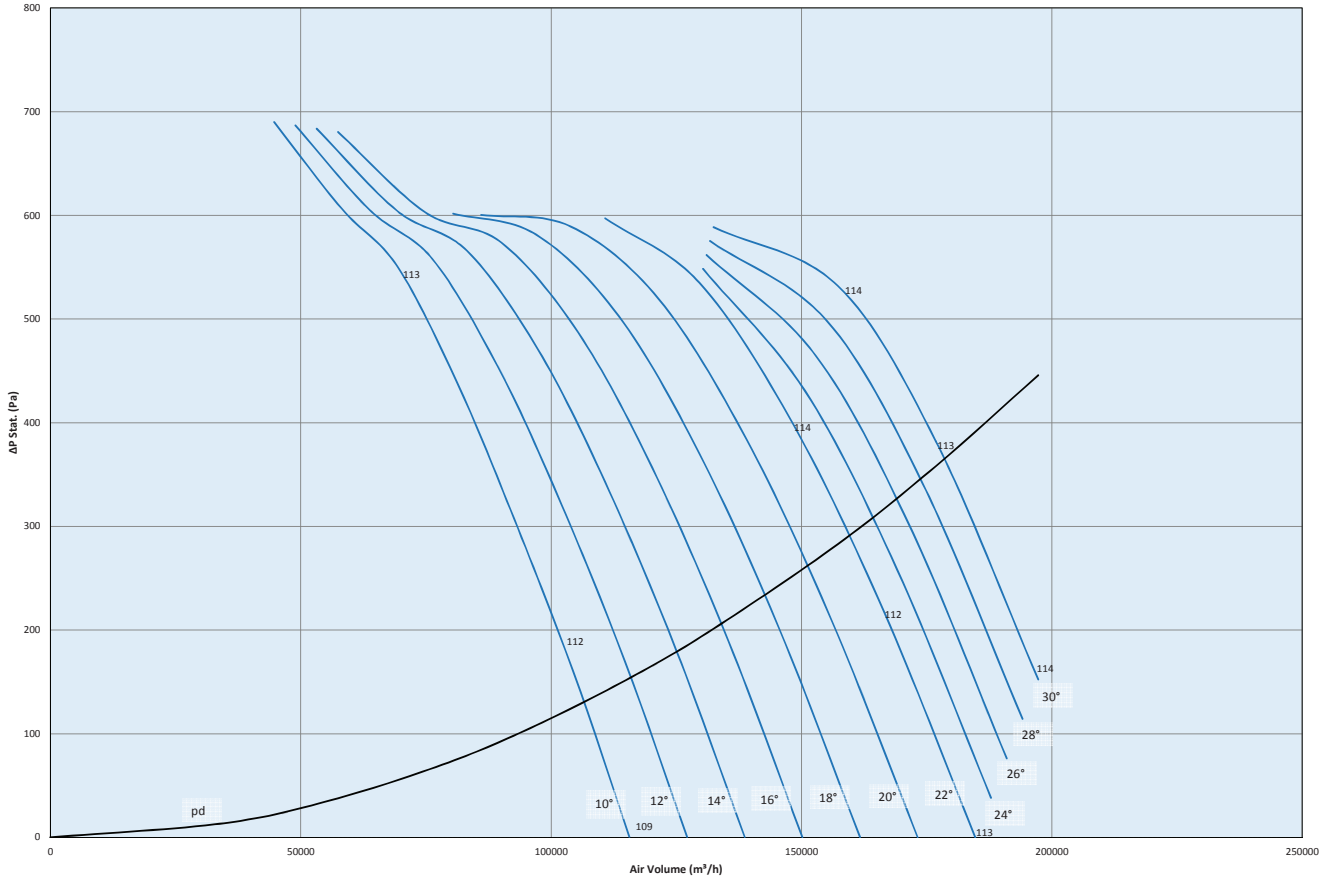


- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

**FEG 71**



AXC(A) 1600-12-6, 50Hz 975 rpm



**SOUND DATA**

Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-8	-7	-7	-10	-9	-10	-11	-17
	187	-12	-11	-8	-5	-6	-10	-15	-23
	543	-12	-8	-5	-6	-9	-14	-19	-25
22°	0	-4	-6	-7	-14	-15	-17	-18	-21
	215	-5	-7	-6	-11	-11	-13	-15	-19
	392	-9	-10	-7	-6	-8	-11	-15	-20
30°	151	-4	-6	-7	-13	-15	-16	-17	-19
	378	-4	-6	-6	-12	-13	-14	-16	-18
	526	-5	-7	-8	-8	-10	-12	-15	-18

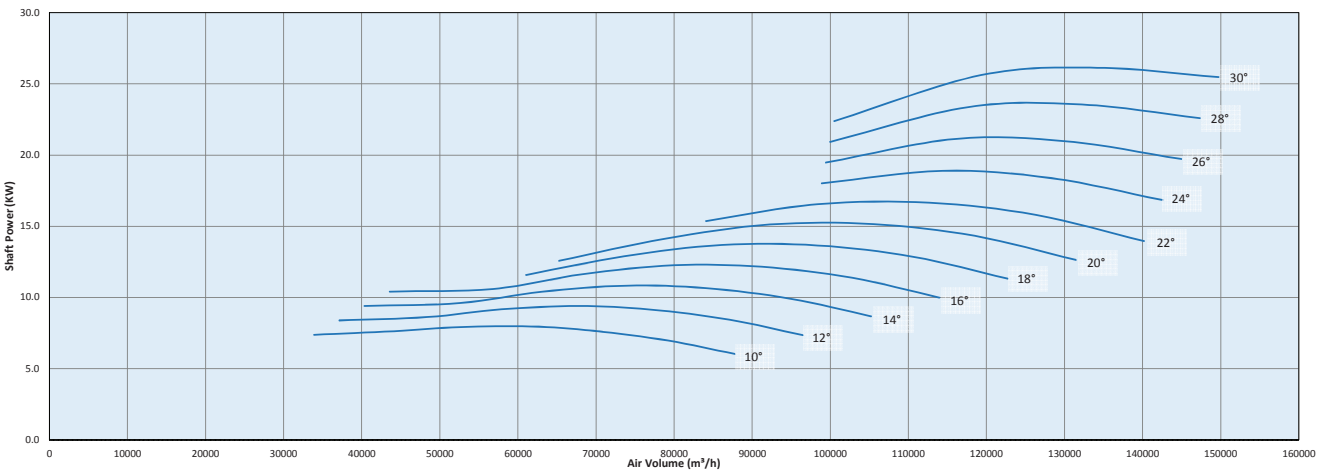
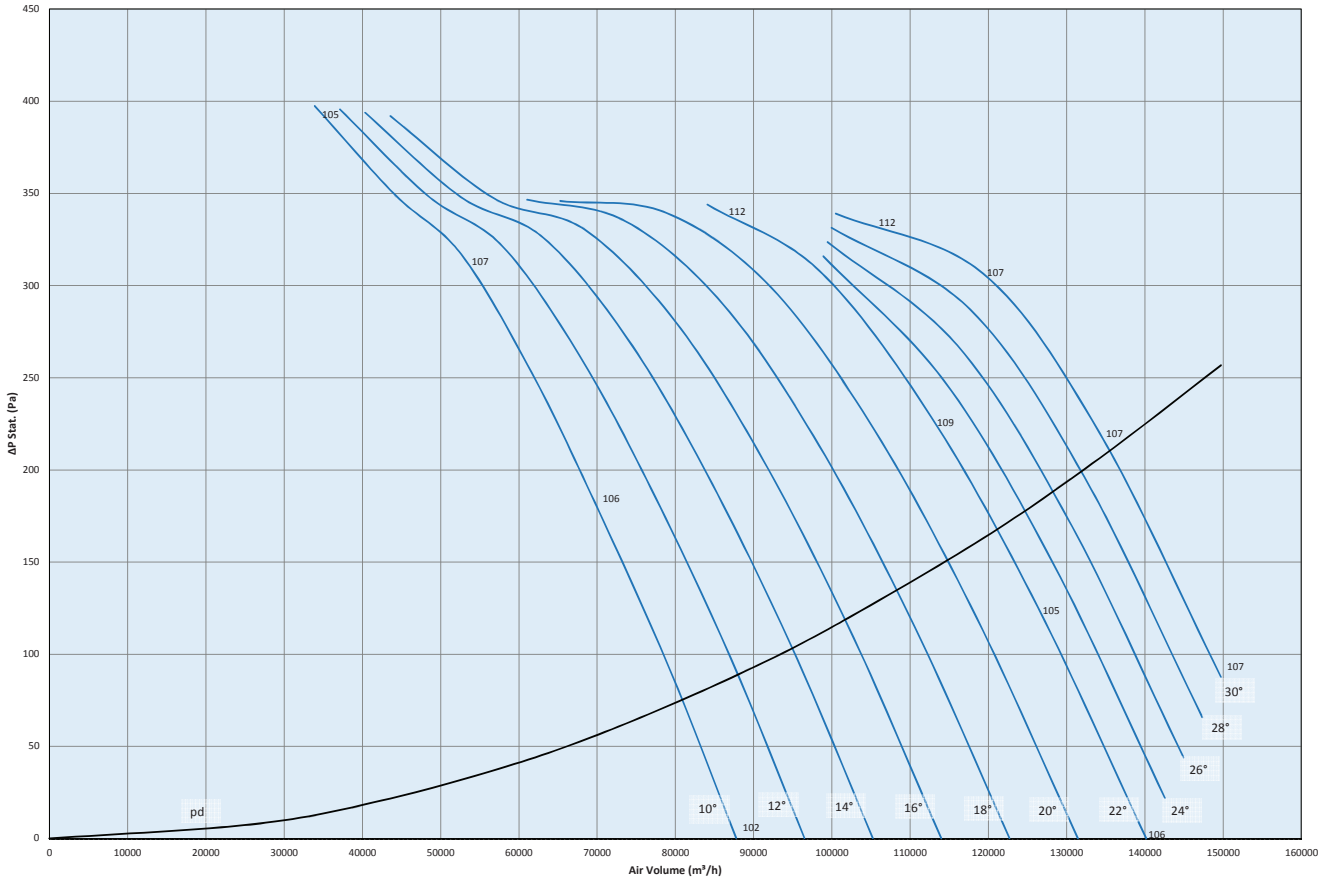
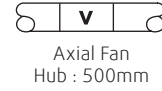
AMCA 210, ISO 5801:2007 - ρ = 1.2kg/m<sup>3</sup>, 20°C, 1013hPa



- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 71

AXC (A) 1600-12-8, 50Hz 740 rpm



SOUND DATA

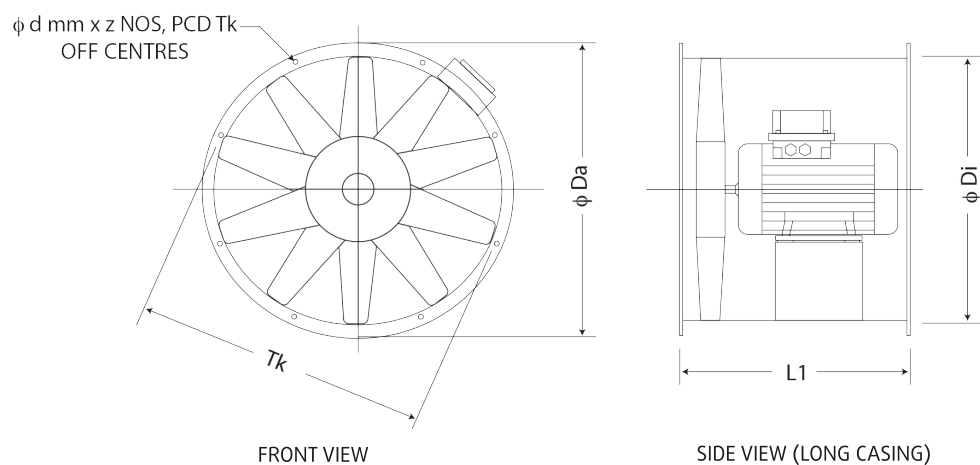
Single figure on performance curves are over all outlet Lwo sound power levels, derived from measurements taken specifically in the laboratory under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP Stat. (Pa)	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
10°	0	-7	-6	-11	-8	-8	-10	-10	-21
	108	-12	-11	-6	-5	-7	-13	-17	-27
	313	-12	-6	-5	-7	-11	-16	-21	-28
	393	-9	-3	-8	-11	-13	-16	-19	-24
22°	0	-3	-6	-12	-14	-14	-17	-17	-22
	124	-4	-7	-10	-9	-10	-13	-15	-20
	226	-10	-11	-5	-7	-9	-13	-18	-23
	340	-2	-5	-11	-14	-16	-21	-26	-33
30°	87	-3	-6	-11	-13	-14	-16	-16	-20
	218	-3	-6	-11	-11	-12	-13	-15	-18
	303	-5	-8	-8	-8	-11	-13	-16	-19
	334	-7	-8	-5	-8	-12	-15	-20	-25



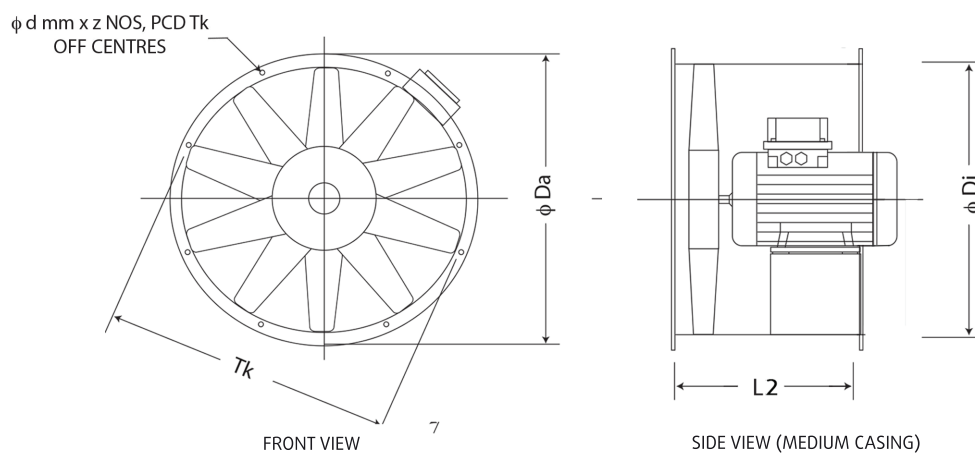
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories)
- The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction

FEG 71



• In metric. mm

	Motor	$\phi DI$	L1	$\phi Da$	Tk	z x $\phi d$
1	IEC 71-90	315	375	395	355	8x10
2	IEC 71-90	355	375	435	395	8x10
3	IEC 71-100	400	450	480	450	8x12
4	IEC 71-112	450	500	530	500	8x12
5	IEC 71-112	500	540	590	560	12x12
6	IEC 80-112	560	500	650	620	12x12
7	IEC 80-112	630	500	720	690	12x12
8	IEC 80-112	710	500	800	770	16x12
9	IEC 90-112	800	500	890	860	16x12
10	IEC 132-160	800	700	890	860	16x12
11	IEC 100-132	900	640	1005	970	16x15
12	IEC 160	900	850	1005	970	16x15
13	IEC 100-132	1000	640	1105	1070	16x15
14	IEC 160-200	1000	850	1105	1070	16x15
15	IEC 132	1120	700	1260	1190	20x15
16	IEC 160	1120	850	1260	1190	20x15
17	IEC 180-225	1120	1000	1260	1190	20x15
18	IEC 132-200	1250	850	1390	1320	20x15
19	IEC 225	1250	1050	1390	1320	20x15
20	IEC 160-225	1400	950	1540	1470	20x15
21	IEC 250-315	1400	1360	1540	1470	20x15
22	IEC 160-225	1600	950	1740	1680	24x19
23	IEC 250-315	1600	1360	1740	1680	24x19



	Motor	ØDI	L2	ØDa	Tk	z x Ød
1	IEC 71-90	315	320	395	355	8x10
2	IEC 71-90	355	320	435	395	8x10
3	IEC 71-100	400	320	480	450	8x12
4	IEC 71-112	450	320	530	500	8x12
5	IEC 71-112	500	320	590	560	12x12
6	IEC 80-112	560	370	650	620	12x12
7	IEC 80-112	630	370	720	690	12x12
8	IEC 80-112	710	370	800	770	16x12
9	IEC 90-112	800	370	890	860	16x12
10	IEC 132-160	800	510	890	860	16x12
11	IEC 100-132	900	430	1005	970	16x15
12	IEC 160	900	600	1005	970	16x15
13	IEC 100-132	1000	430	1105	1070	16x15
14	IEC 160-200	1000	600	1105	1070	16x15
15	IEC 132-160	1120	600	1260	1190	20x15
16	IEC 180-225	1120	720	1260	1190	20x15
17	IEC 132-200	1250	600	1390	1320	20x15
18	IEC 225	1250	750	1390	1320	20x15
19	IEC 160-225	1400	720	1540	1470	20x15
20	IEC 250-315	1400	935	1540	1470	20x15
21	IEC 160-225	1600	720	1740	1680	24x19
22	IEC 250-315	1600	935	1740	1680	24x19







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