

AXCGV

Axial fan guide vanes



Systemair Sdn Bhd certifies that the Axial Guide Vane 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.



Axial Guide Vanes

Fan sizes and duties

Systemair axial fans guide vanes are offered in sizes from 710 mm up to 1250 mm diameter. Air volumes of up to 130,000 m³/h and static pressure of up to 1100 Pa can be achieved. Fan performance in accordance with AMCA 210, installation type D. Providing large volumes of air are required at moderate to high pressure for buildings and industrial sector.

Casing

The casing and motor fixation is manufactured from mild 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.

Motors

Systemair uses 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 IP55, insulation class F. Other medium temperatures, protection classes or isolation classes are available on request. The standard motor range includes single and two speed motors. The motors are not speed controllable by voltage. Speed control is possible with frequency inverters.

Finish

The casing and motor fixation is manufactured from Hot dipped galvanizing.

Operating Temperature

Normal condition -20°C to +55°C

Fire condition with high temperature motor up to 250°C/2hr or 300°C/2hr.

Airflow direction

The fans will be supplied as standard "Form B" Impeller to motor. You will find arrows indicating the direction of rotation and airflow direction at the outside of the casing.



The Systemair accessories:

- Flexible connections
- Bellmouth
- Counter Flanges

The Systemair performance curves:

Have been tested using a duct test chamber in accordance with DIN 24153. The values refer to an air density of 1.2 kg/m³ at 20°C

Noise levels:

Tolerance in accordance with technical conditions of supply of fans DIN 24166, class 3, noise level ca. 0.5 x \sqrt{p} max.

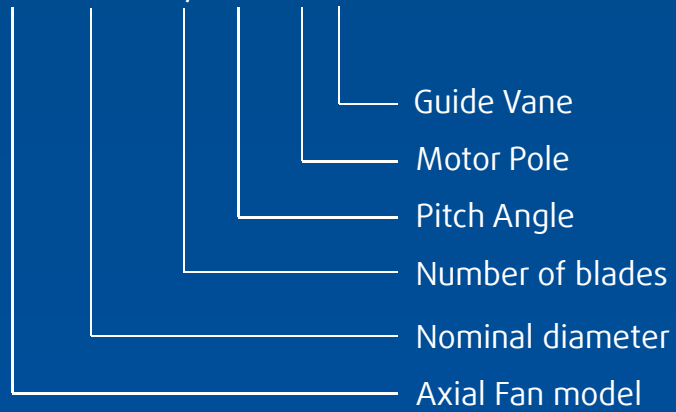
The Systemair selection criteria:

- Size
- Air volume
- Static Pressure
- Sound requirements



Ordering Code

AXC 1000 - 10 / 22° - 4 GV

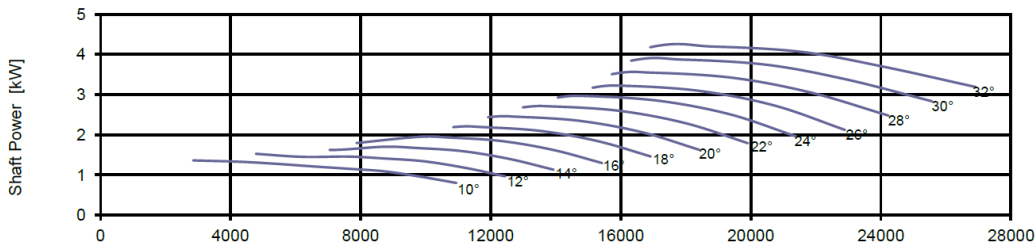
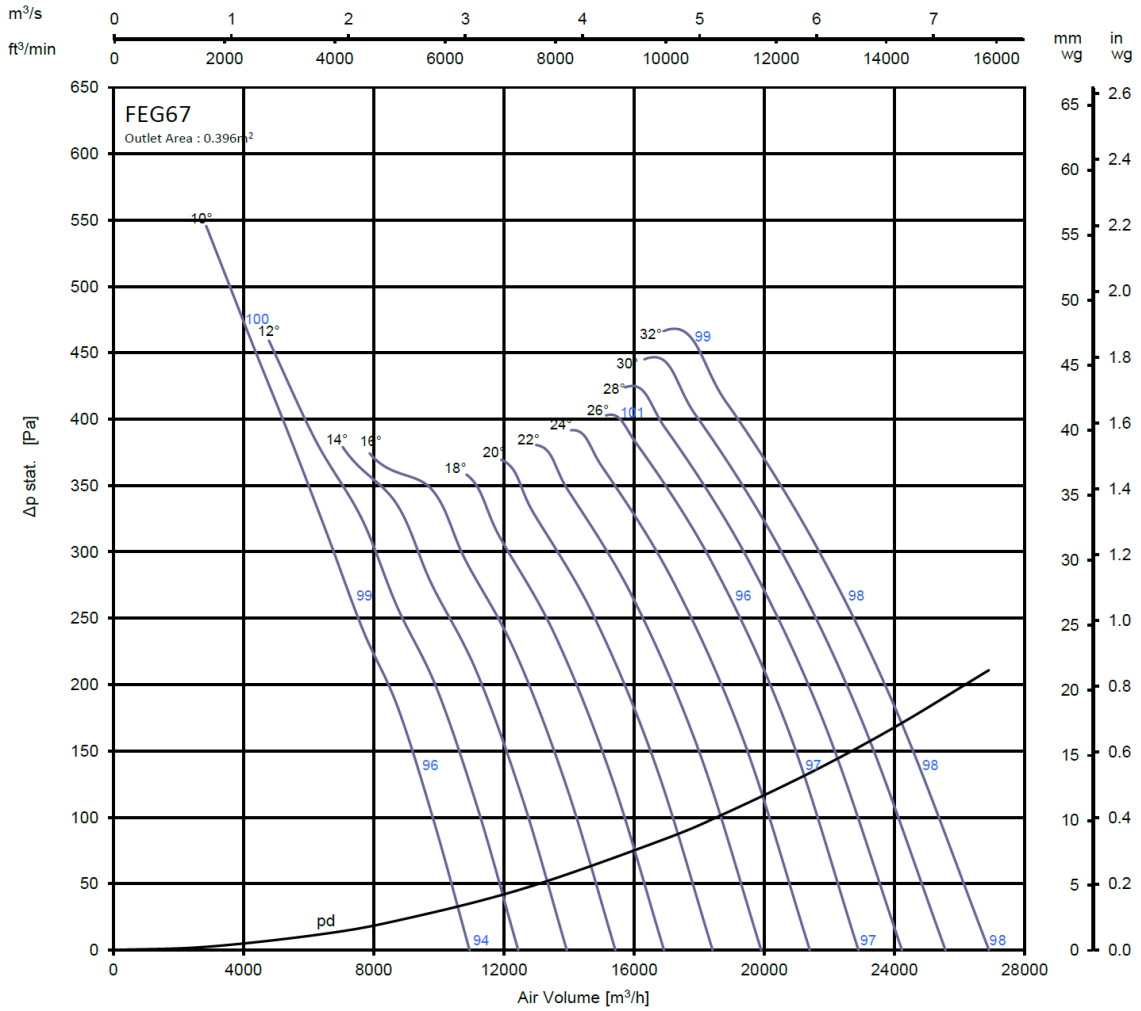




AXC 710-9-4 GV, 50Hz 1450 rpm



Axial fan
Hub : 250mm



SOUND DATA

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

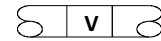
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<180	-4	-11	-9	-4	-7	-11	-12	-23
	<450	-3	-4	-10	-4	-7	-12	-18	-26
26°	<200	-3	-11	-5	-10	-12	-14	-17	-23
	<400	-4	-7	-6	-9	-11	-13	-17	-21
32°	<200	-3	-10	-5	-11	-12	-15	-19	-23
	<450	-3	-9	-6	-9	-12	-15	-18	-20



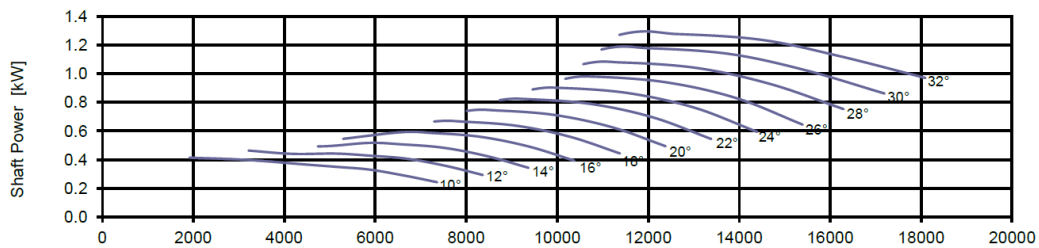
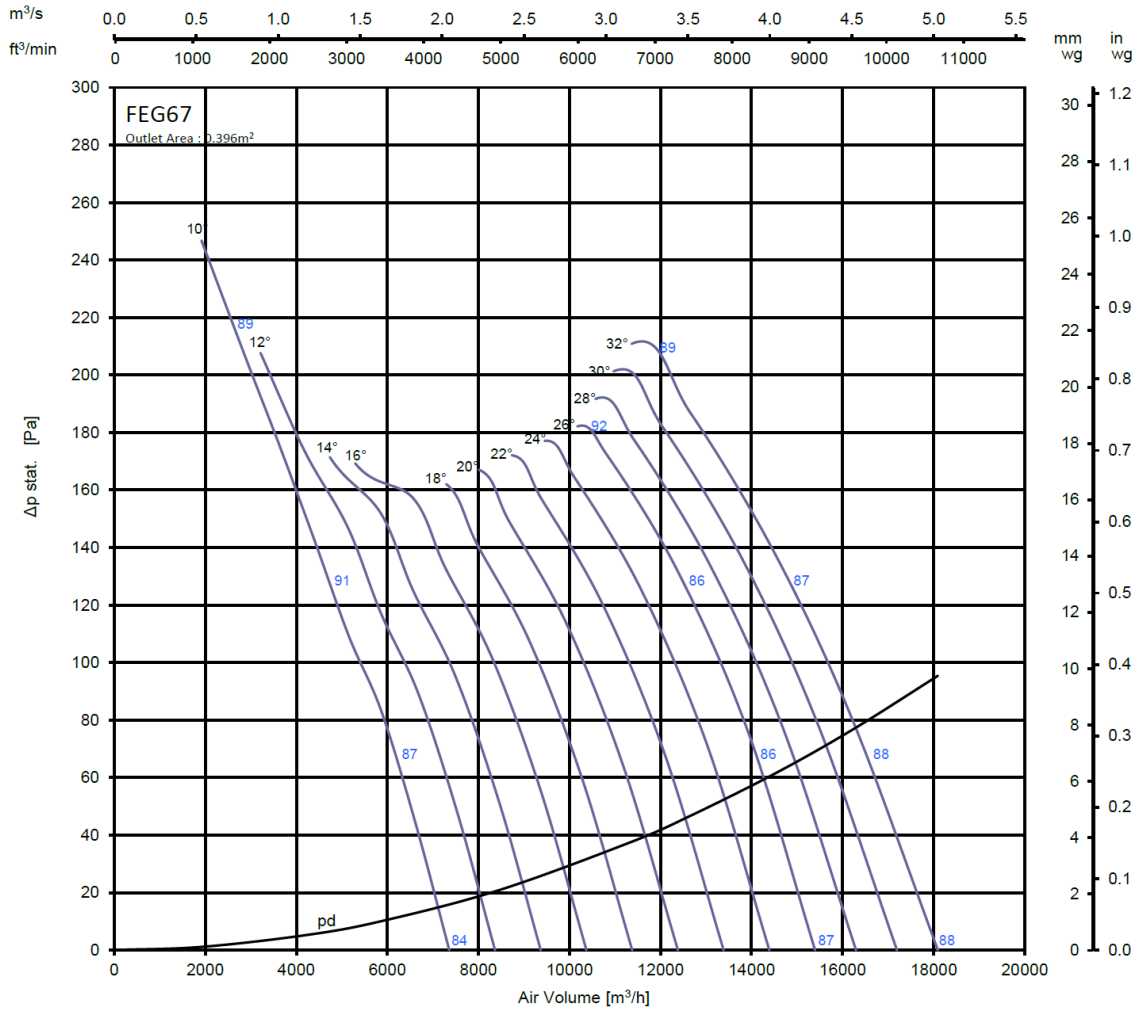
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- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet Lwi sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



AXC 710-9-6 GV, 50Hz 975 rpm



Axial fan
Hub : 250mm



SOUND DATA

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

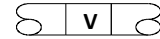
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<90	-7	-7	-6	-4	-9	-10	-17	-28
	<200	-2	-7	-7	-5	-10	-15	-22	-27
26°	<90	-7	-4	-7	-10	-12	-14	-19	-24
	<180	-6	-5	-7	-9	-11	-14	-17	-21
32°	<90	-6	-4	-7	-10	-12	-16	-20	-24
	<210	-6	-4	-7	-9	-12	-15	-18	-20



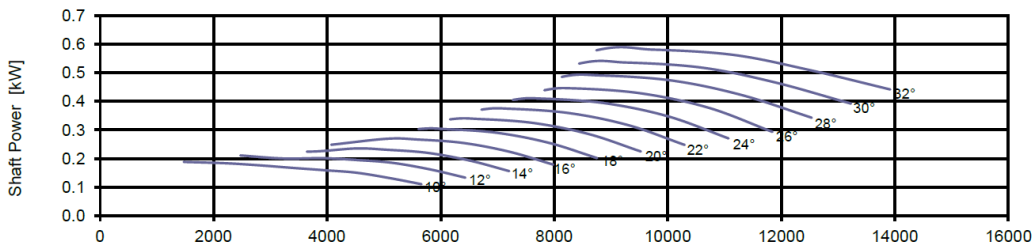
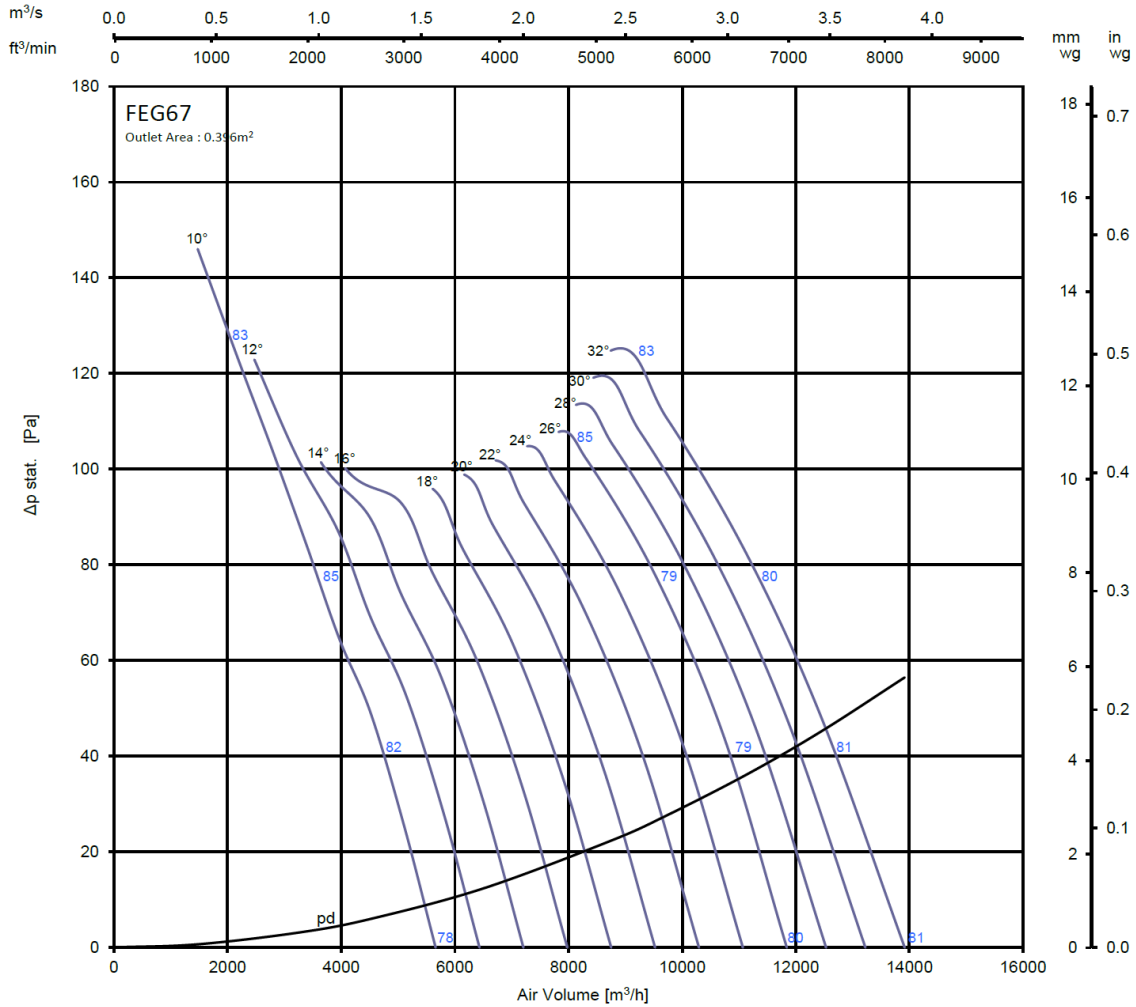
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AXC 710-9-8 GV, 50Hz 750 rpm



Axial fan
Hub : 250mm



SOUND DATA

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

Pitch Angle		Inlet Levels								
		ΔP stat. [Pa]	Octave Band Centre Frequency (Hz)							
			63	125	250	500	1K	2K	4K	8K
10°	<50	-9	-7	-3	-6	-9	-10	-21	-32	
	<120	-1	-9	-4	-7	-11	-17	-25	-28	
26°	<50	-9	-3	-8	-9	-12	-14	-20	-25	
	<110	-5	-4	-7	-9	-11	-14	-18	-22	
32°	<50	-8	-3	-8	-9	-12	-16	-21	-25	
	<125	-7	-3	-7	-10	-12	-15	-18	-20	



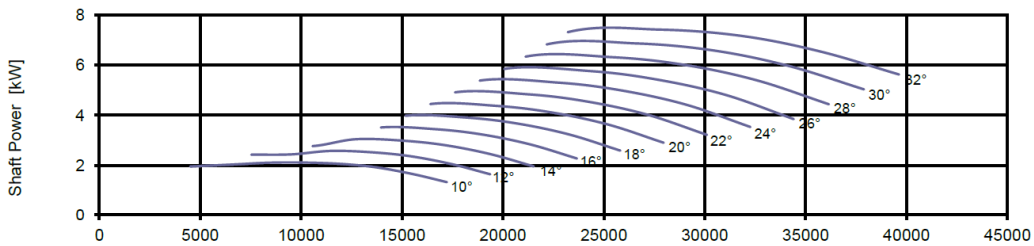
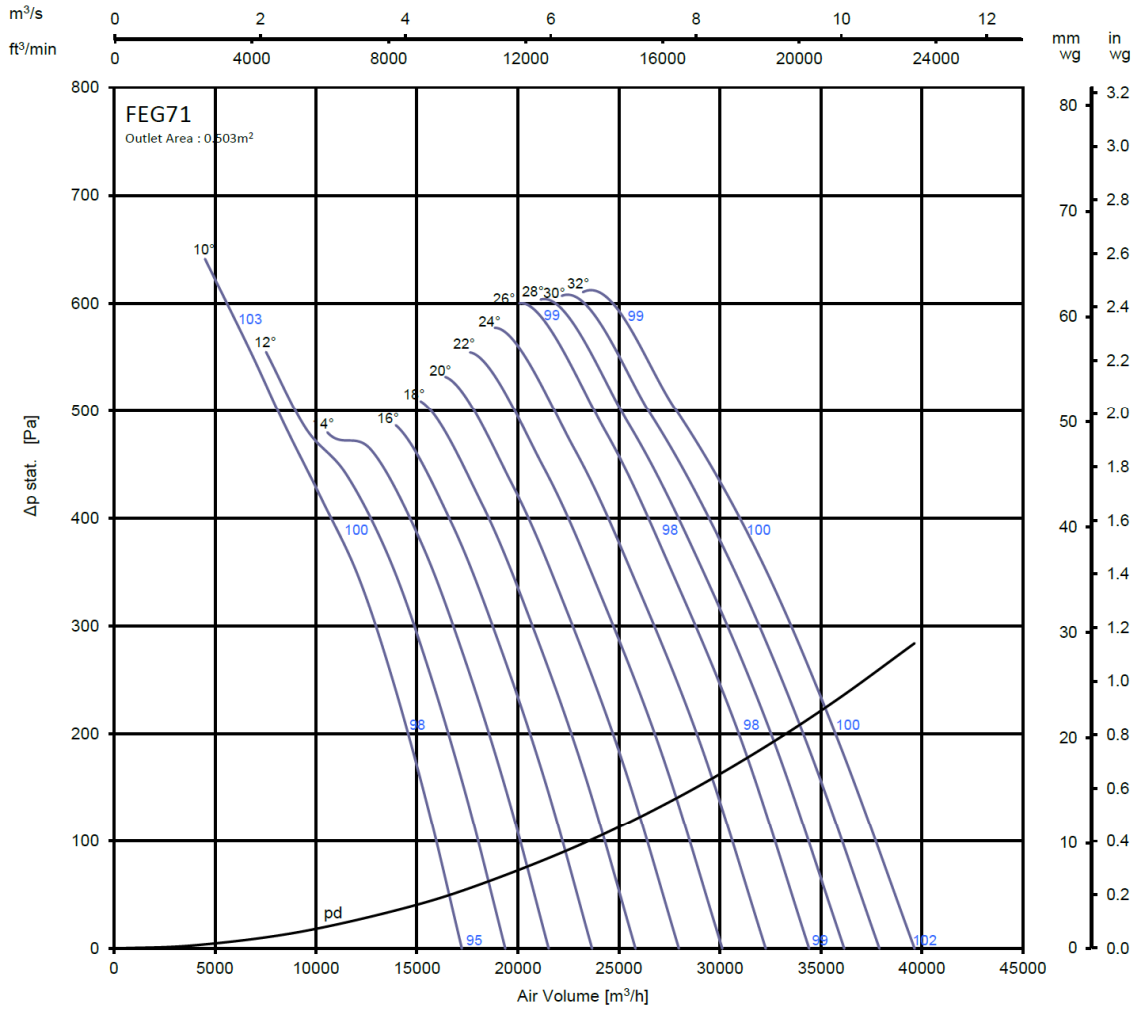
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AXC 800-9-4 GV, 50Hz 1450 rpm



Axial fan
Hub : 250mm



SOUND DATA

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

		Inlet Levels							
Pitch Angle	ΔP stat. [Pa]	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<200	-6	-14	-7	-7	-6	-10	-9	-22
	<480	-7	-9	-5	-5	-5	-11	-13	-23
26°	<300	-4	-11	-4	-8	-10	-15	-17	-23
	<600	-4	-11	-5	-7	-9	-15	-19	-22
32°	<300	-4	-11	-4	-8	-11	-16	-20	-23
	<580	-4	12	-5	-8	-11	-16	-19	-21



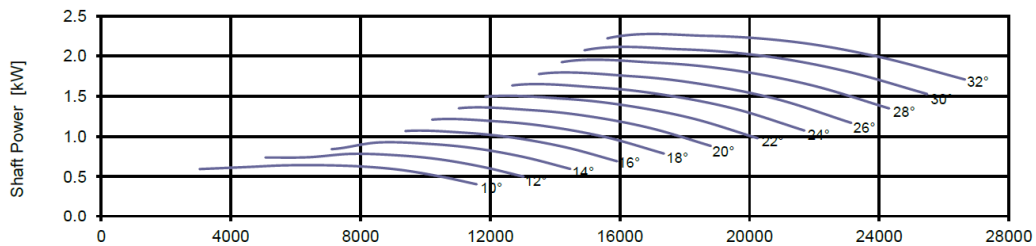
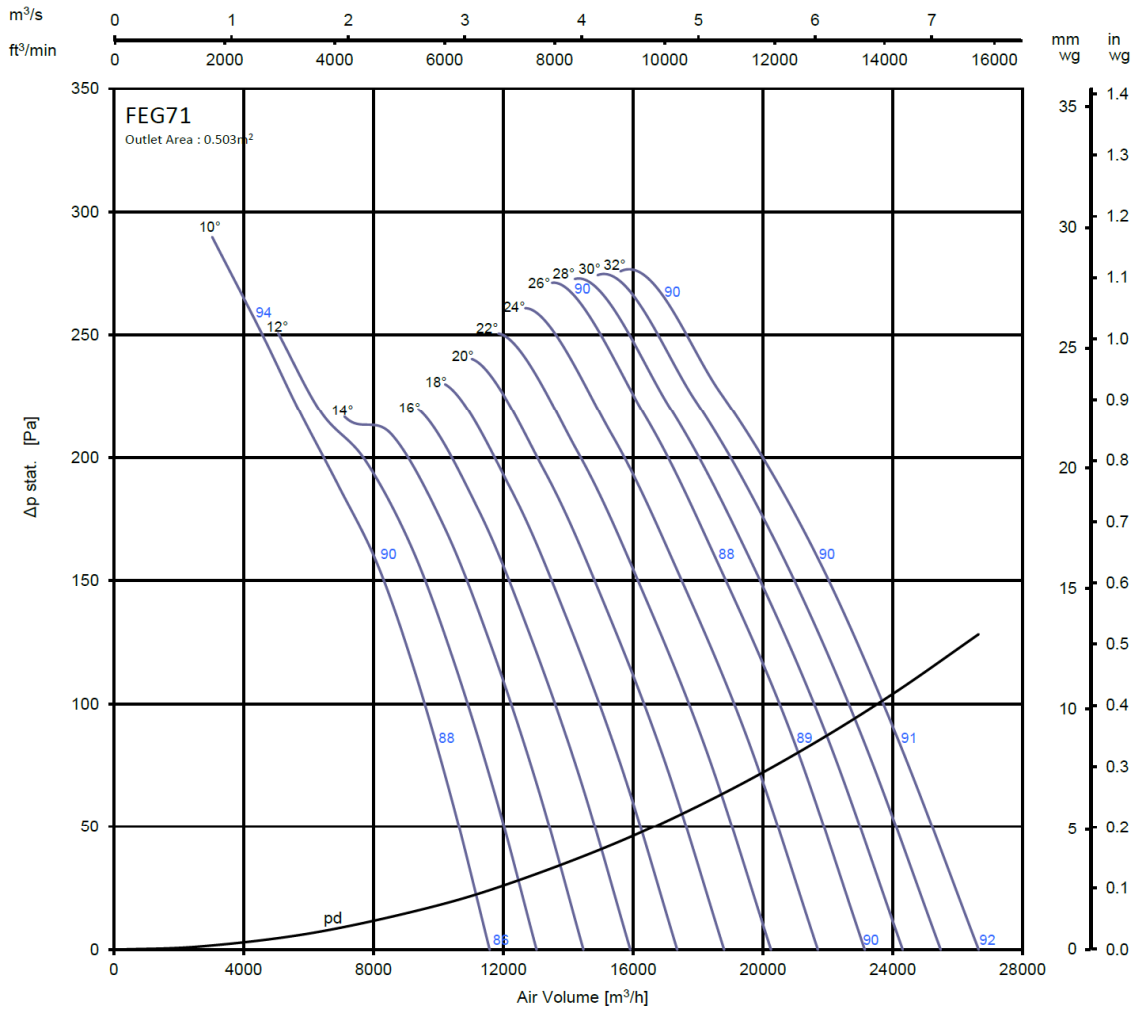
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AXC 800-9-6 GV, 50Hz 975 rpm



Axial fan
Hub : 250mm



SOUND DATA

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

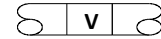
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<100	-11	-6	-7	-5	-8	-8	-16	-27
	<220	-8	-5	-5	-4	-8	-11	-18	-28
26°	<100	-8	-4	-6	-9	-13	-15	-22	-27
	<270	-8	-4	-6	-7	-12	-17	-20	-23
32°	<100	-8	-4	-6	-9	-13	-18	-22	-24
	<260	-8	-4	-6	-8	-13	-17	-20	-22



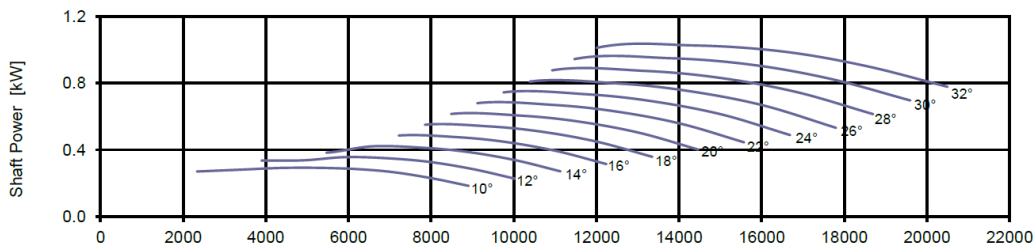
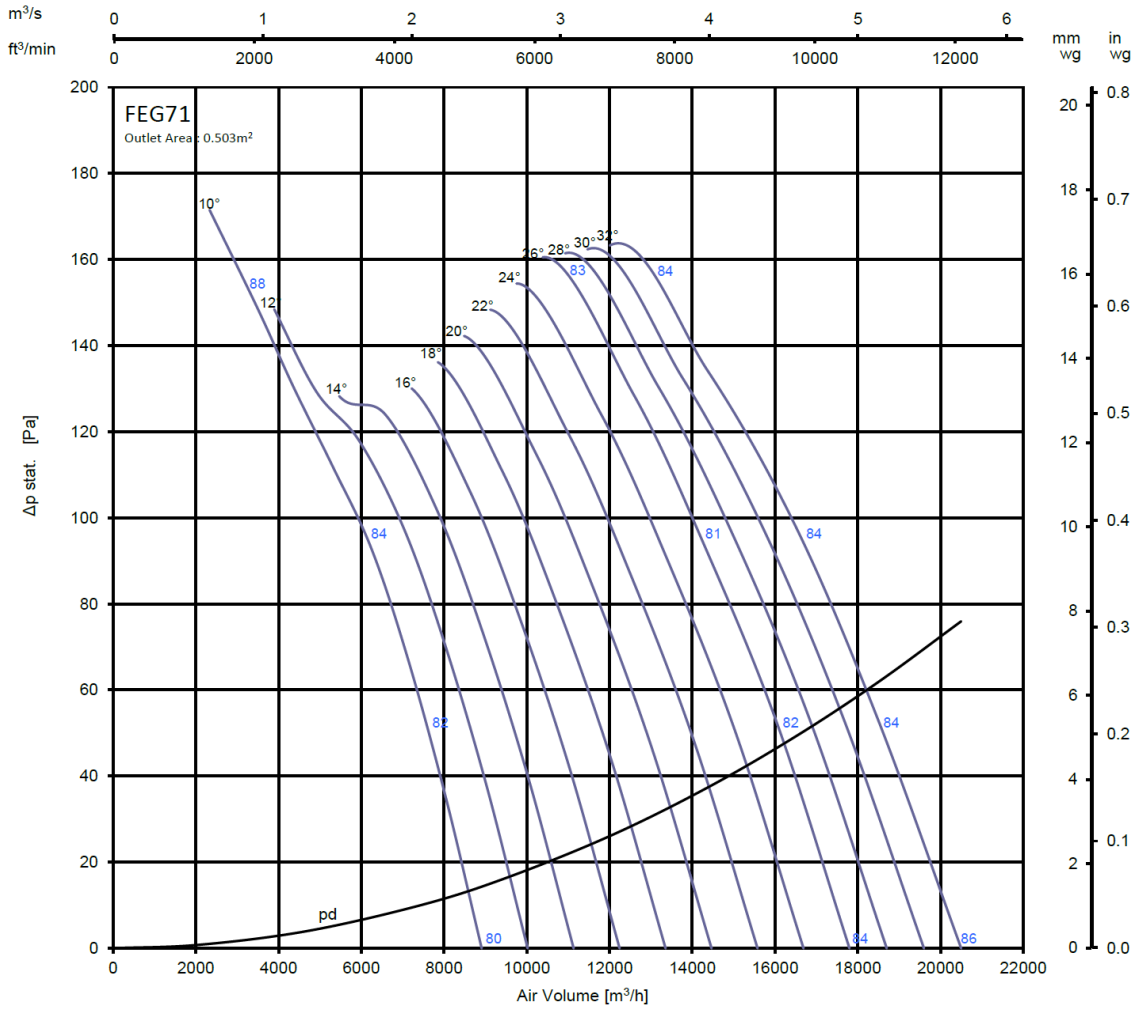
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AXC 800-9-8 GV, 50Hz 750 rpm



Axial fan
Hub : 250mm



SOUND DATA

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

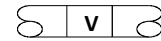
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<60	-13	-6	-6	-5	-9	-7	-20	-31
	<130	-8	-4	-4	-4	-10	-12	-23	-32
26°	<60	-9	-3	-6	-9	-14	-15	-23	-28
	<160	-9	-3	-6	-8	-14	-18	-21	-24
32°	<60	-9	-3	-6	-9	-15	-18	-21	-23
	<150	-10	-3	-6	-8	-14	-18	-20	-21



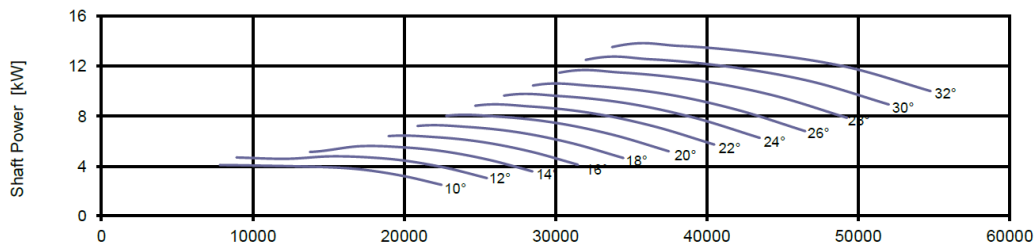
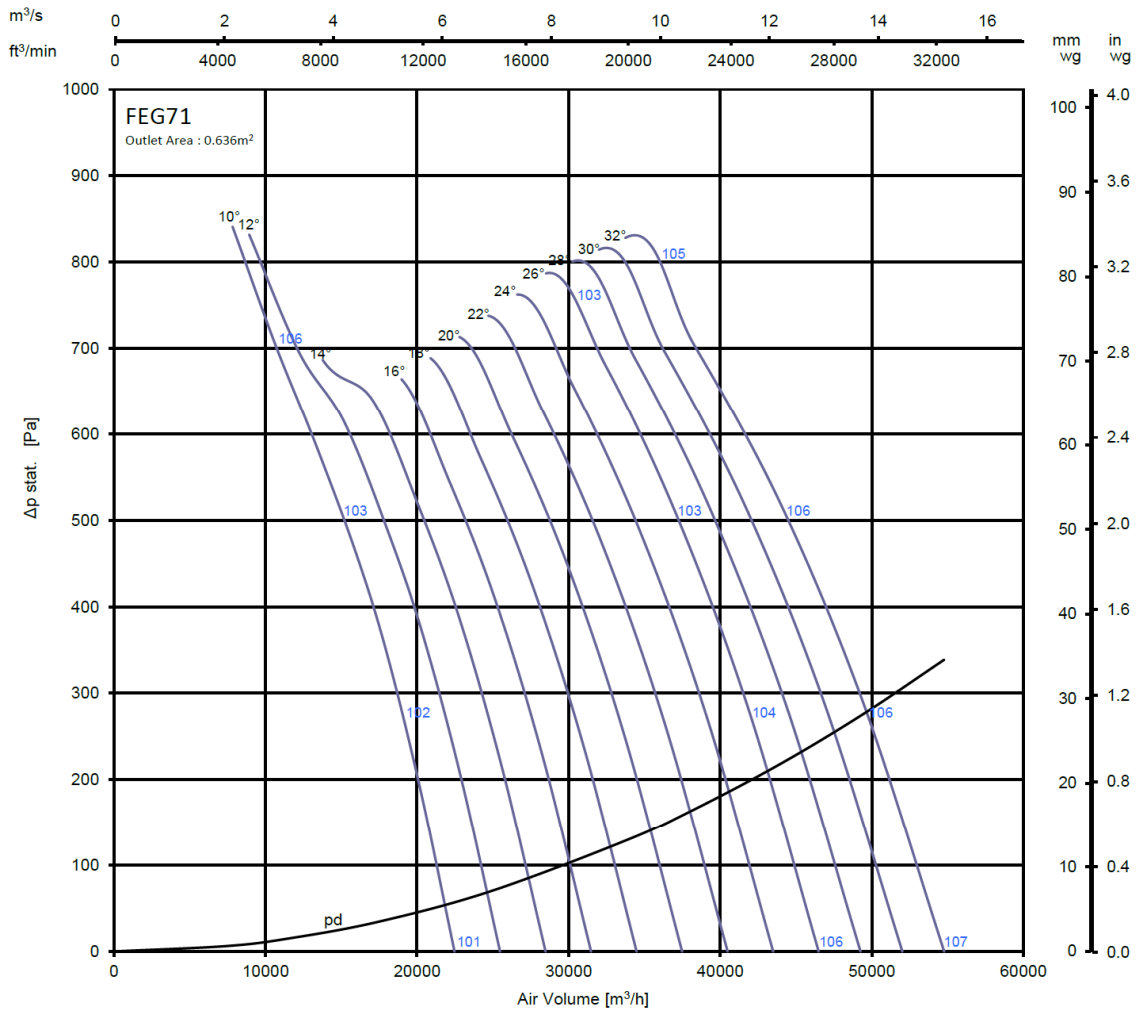
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AXC 900-10-4 GV, 50Hz 1450 rpm



Axial fan
Hub : 300mm



SOUND DATA

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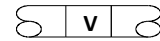
		Inlet Levels							
Pitch Angle	ΔP stat. [Pa]	Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<300	-14	-11	-7	-8	-5	-4	-13	-24
	<700	-9	-9	-2	-5	-6	-8	-18	-25
26°	<300	-7	-12	-3	-10	-11	-10	-17	-24
	<750	-7	-11	-3	-8	-10	-13	-19	-20
32°	<300	-7	-10	-3	-9	-10	-11	-18	-25
	<800	-7	-12	-3	-9	-10	-15	-20	-19



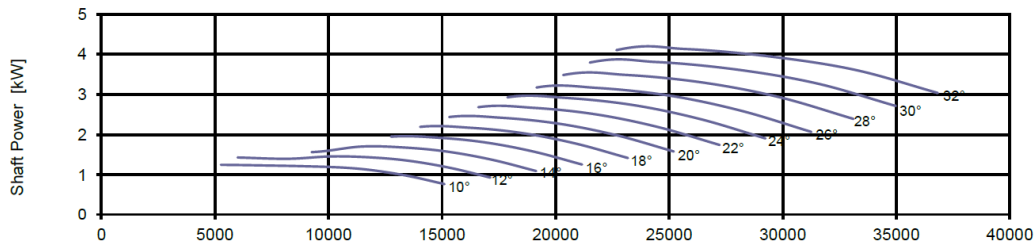
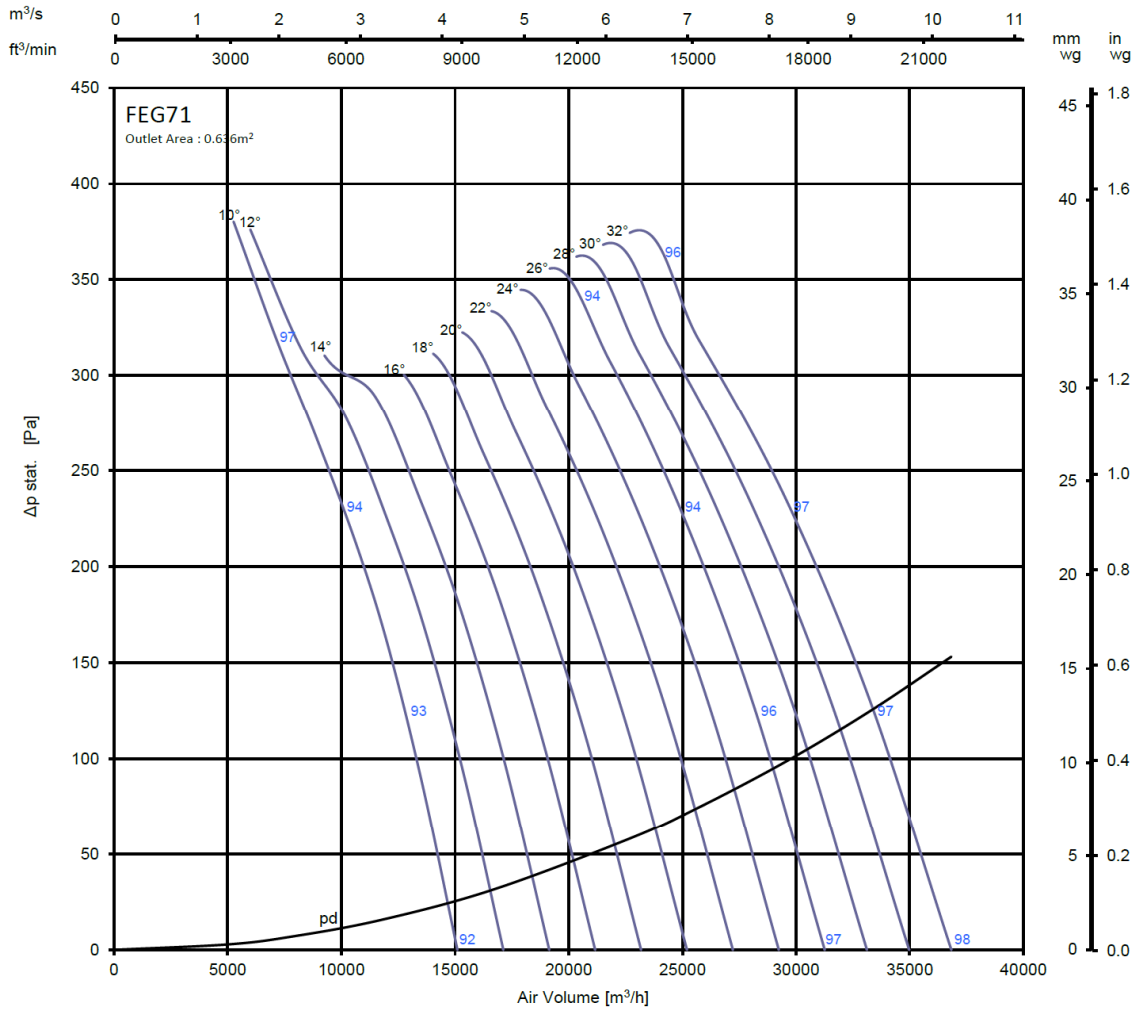
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AXC 900-10-6 GV, 50Hz 975 rpm



Axial fan
Hub : 300mm



SOUND DATA

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Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<130	-11	-7	-7	-6	-4	-8	-19	-28
	<310	-9	-2	-6	-5	-6	-13	-22	-28
26°	<130	-10	-3	-7	-10	-10	-14	-22	-28
	<340	-10	-3	-6	-9	-11	-16	-19	-20
32°	<130	-9	-3	-7	-9	-10	-15	-23	-28
	<360	-9	-3	-7	-10	-12	-18	-19	-18



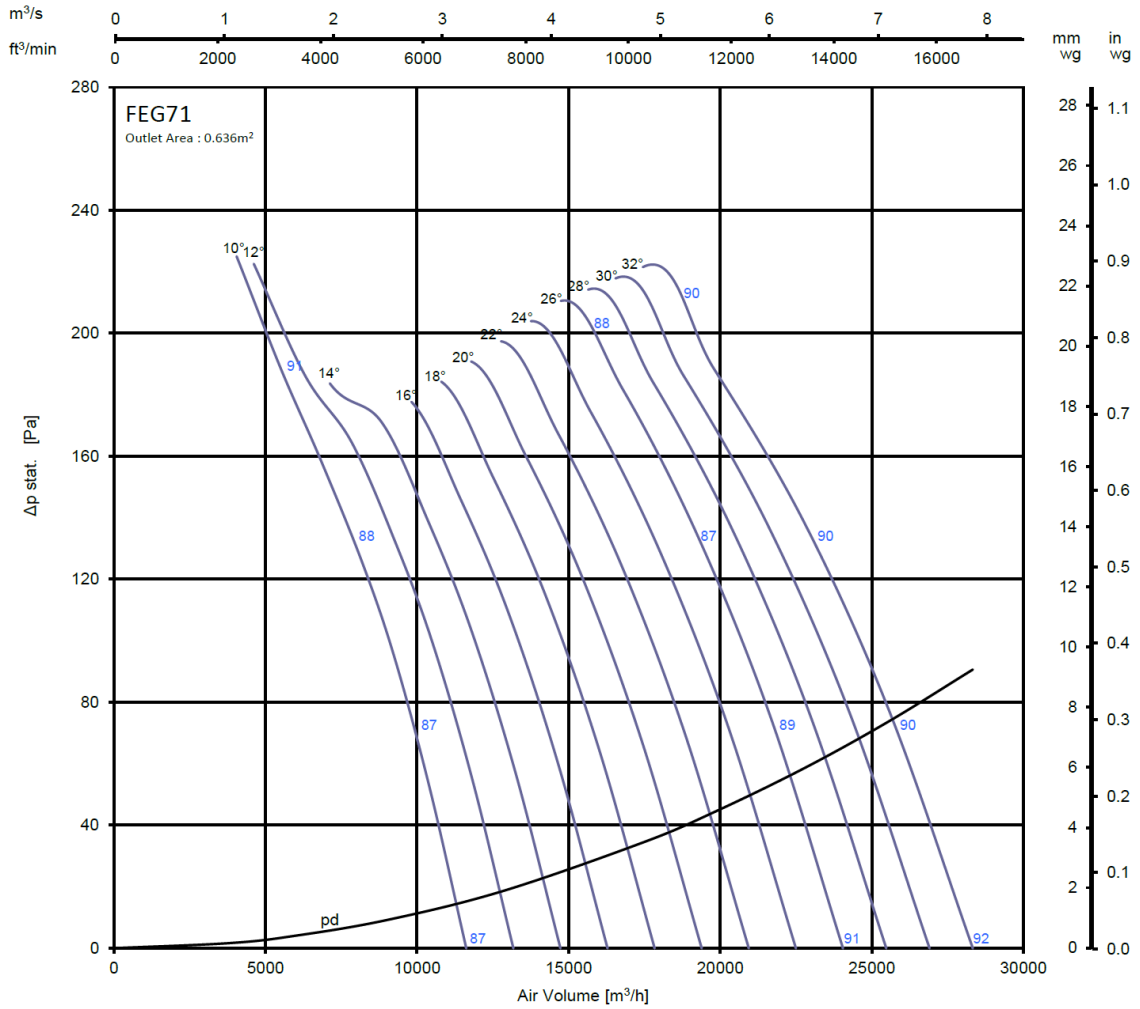
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AXC 900-10-8GV, 50Hz 750 rpm



Axial fan
Hub : 300mm



SOUND DATA

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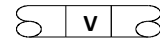
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<70	-10	-7	-7	-5	-3	-12	-23	-31
	<180	-9	-2	-5	-6	-5	-16	-24	-30
26°	<70	-11	-2	-9	-10	-9	-16	-24	-30
	<200	-11	-2	-7	-9	-11	-18	-19	-20
32°	<70	-10	-2	-8	-9	-10	-17	-24	-28
	<210	-10	-2	-8	-9	-10	-20	-21	-20



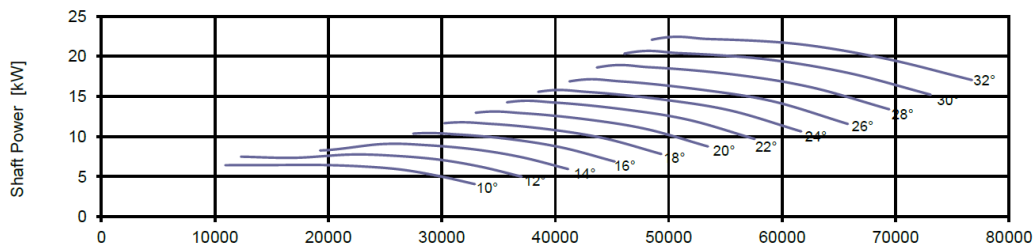
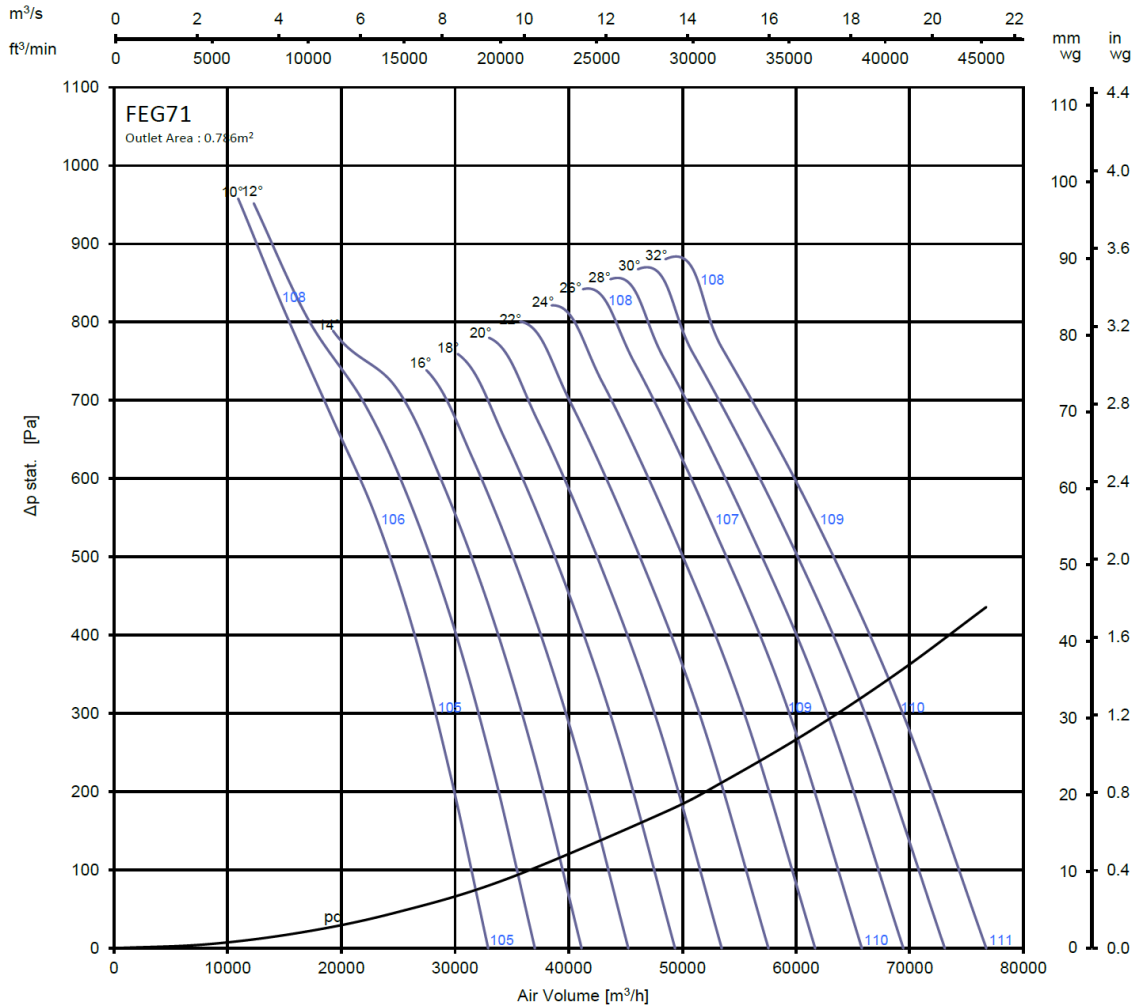
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AXC 1000-10-4 GV, 50Hz 1450 rpm



Axial fan
Hub : 300mm



SOUND DATA

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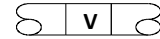
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<300	-14	-18	-5	-8	-7	-6	-8	-23
	<800	-12	-13	-2	-4	-6	-8	-10	-24
26°	<350	-6	-10	-4	-9	-11	-12	-15	-25
	<800	-6	-11	-4	-7	-9	-14	-17	-21
32°	<350	-6	-10	-4	-8	-10	-14	-17	-22
	<850	-6	-10	-4	-8	-9	-15	-18	-20



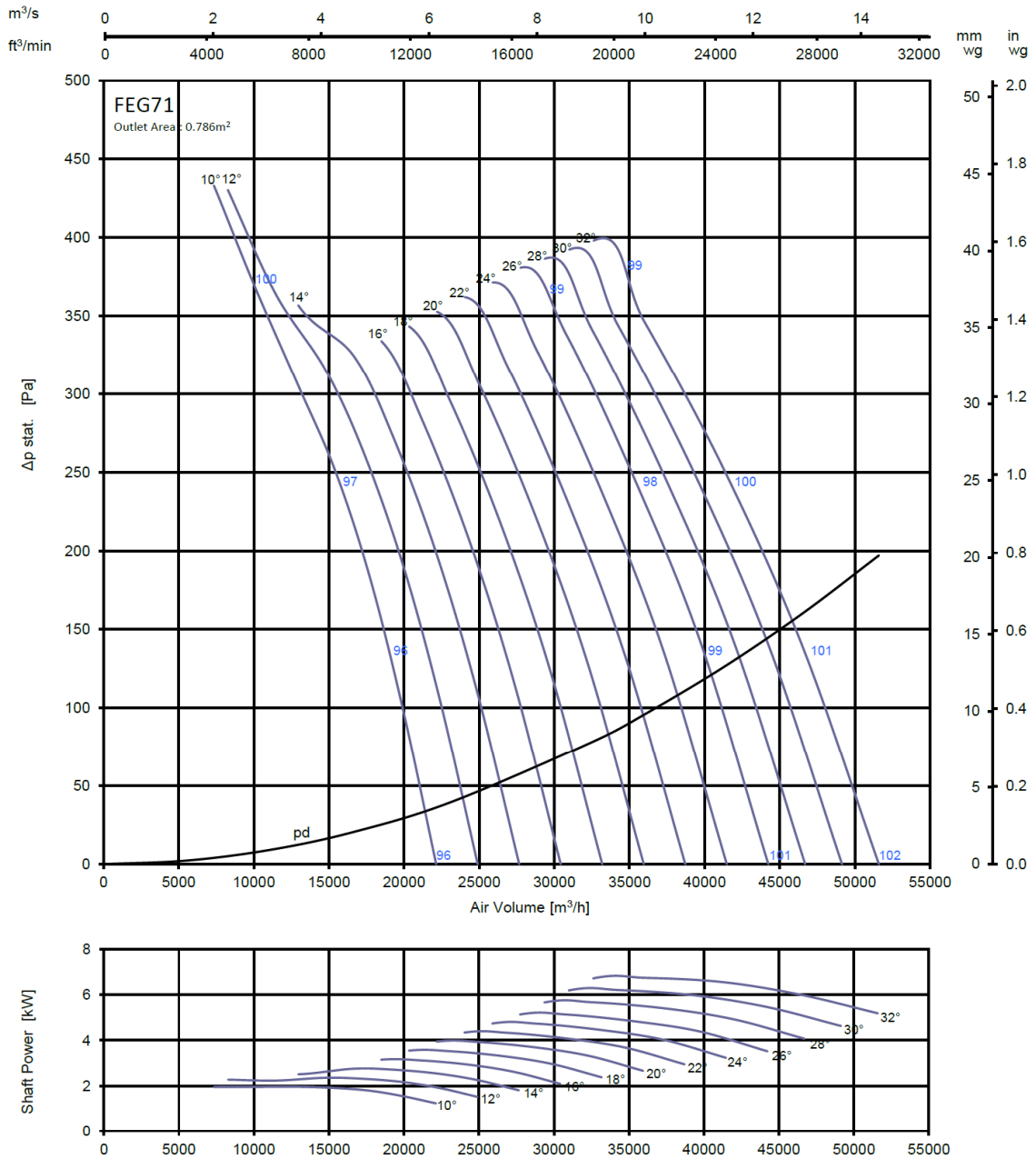
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AXC 1000-10-6 GV, 50Hz 975 rpm



Axial fan
Hub : 300mm



SOUND DATA

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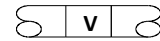
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<120	-17	-5	-7	-6	-6	-7	-17	-32
	<360	-14	-2	-5	-4	-7	-8	-18	-30
26°	<150	-8	-4	-7	-10	-12	-13	-21	-29
	<360	-9	-4	-6	-7	-11	-16	-19	-22
32°	<150	-8	-3	-6	-9	-12	-15	-21	-25
	<380	-8	-4	-6	-8	-12	-17	-19	-20



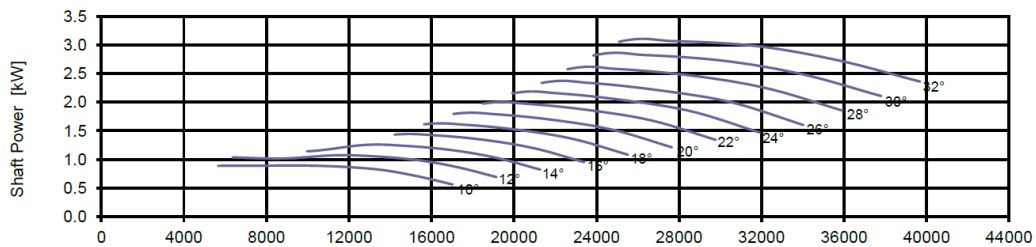
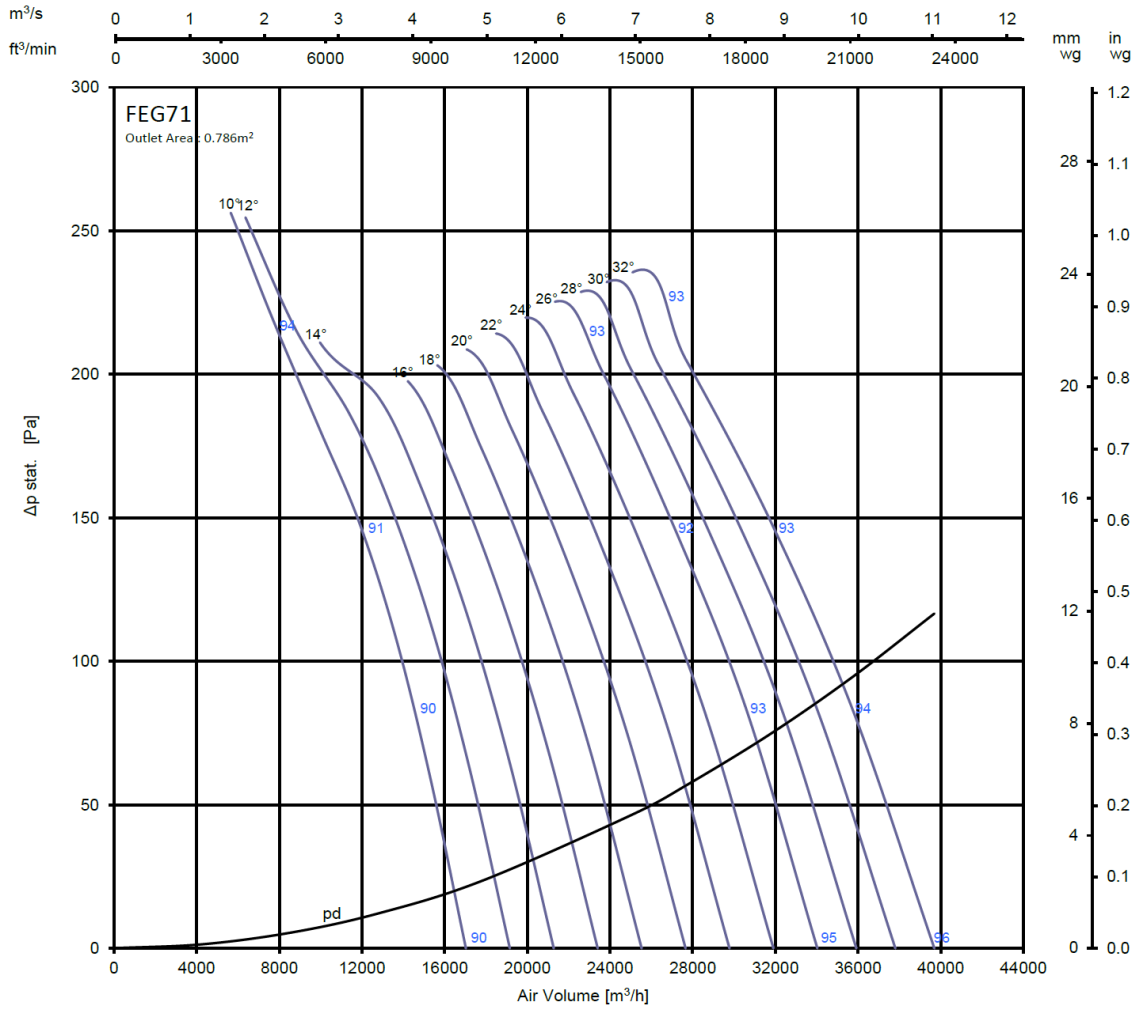
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AXC 1000-10-8 GV, 50Hz 750 rpm



Axial fan
Hub : 300mm



SOUND DATA

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Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<80	-18	-5	-6	-6	-5	-7	-22	-37
	<210	-13	-2	-3	-5	-8	-10	-24	-32
26°	<80	-10	-3	-8	-10	-11	-14	-24	-33
	<210	-10	-2	-6	-8	-12	-15	-20	-23
32°	<80	-9	-3	-7	-9	-13	-16	-22	-27
	<220	-9	-3	-7	-8	-13	-17	-19	-20



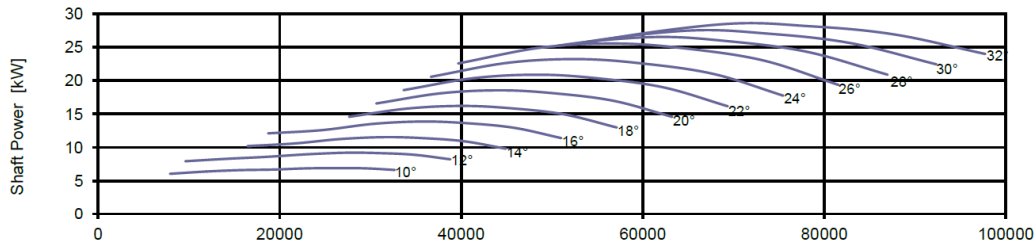
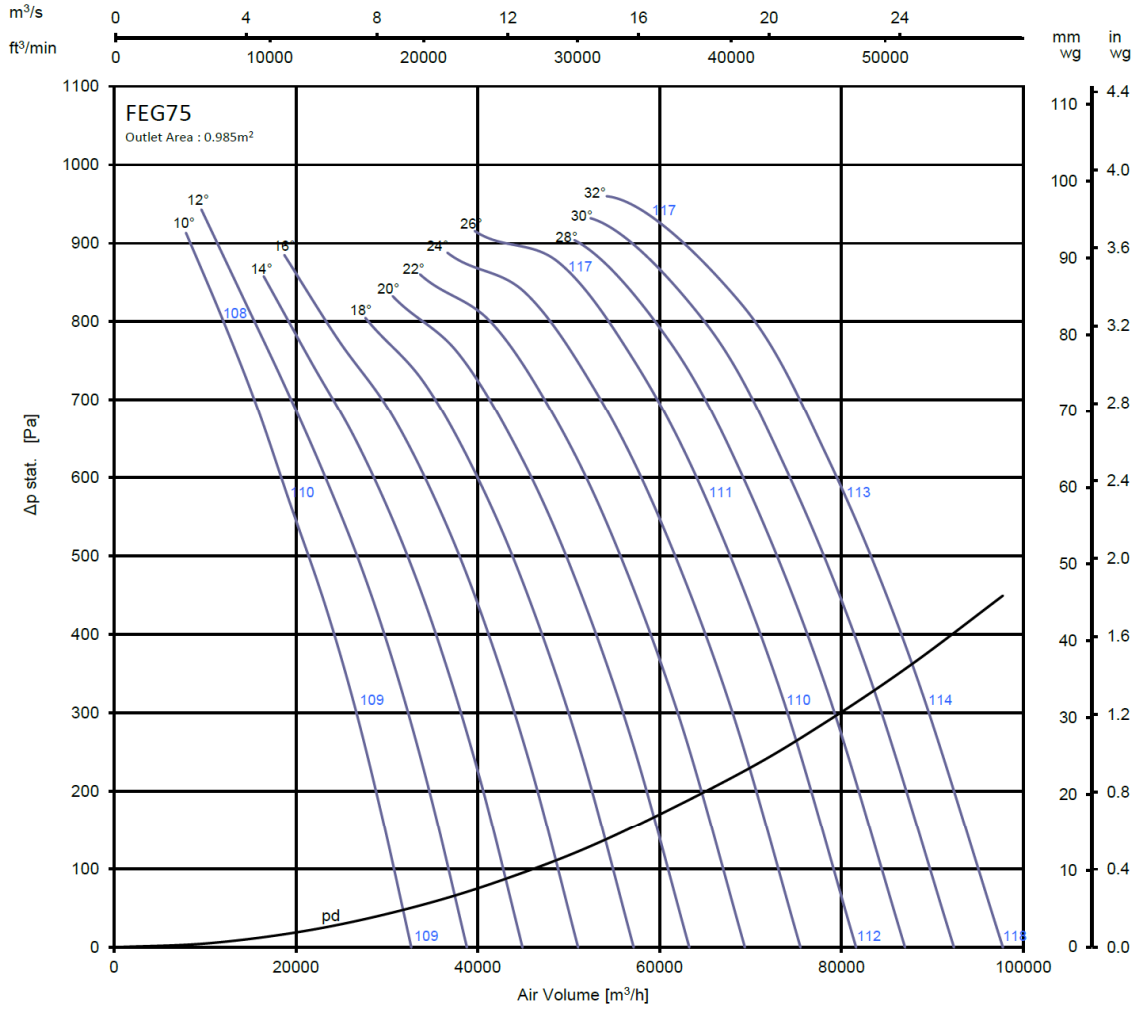
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown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



AXC(A) 1120-12-4 GV, 50Hz 1450 rpm



Axial fan
Hub : 350mm



SOUND DATA

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

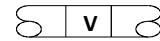
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<400	-12	-10	-5	-5	-6	-9	-12	-18
	<800	-13	-8	-3	-6	-8	-12	-16	-23
26°	<400	-8	-9	-3	-6	-11	-13	-17	-21
	<870	-9	-10	-3	-5	-10	-12	-16	-21
32°	<400	-9	-10	-2	-7	-13	-16	-20	-23
	<930	-6	-10	-4	-8	-9	-15	-18	-22



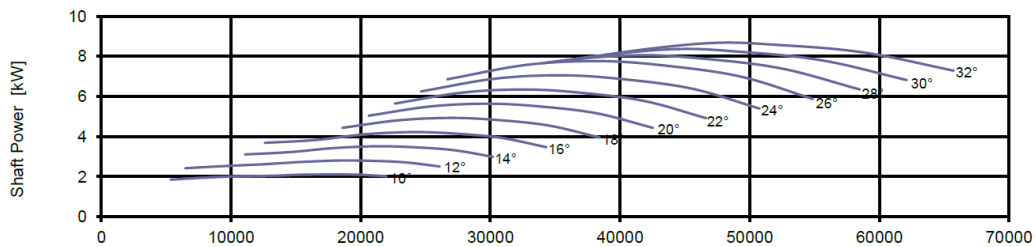
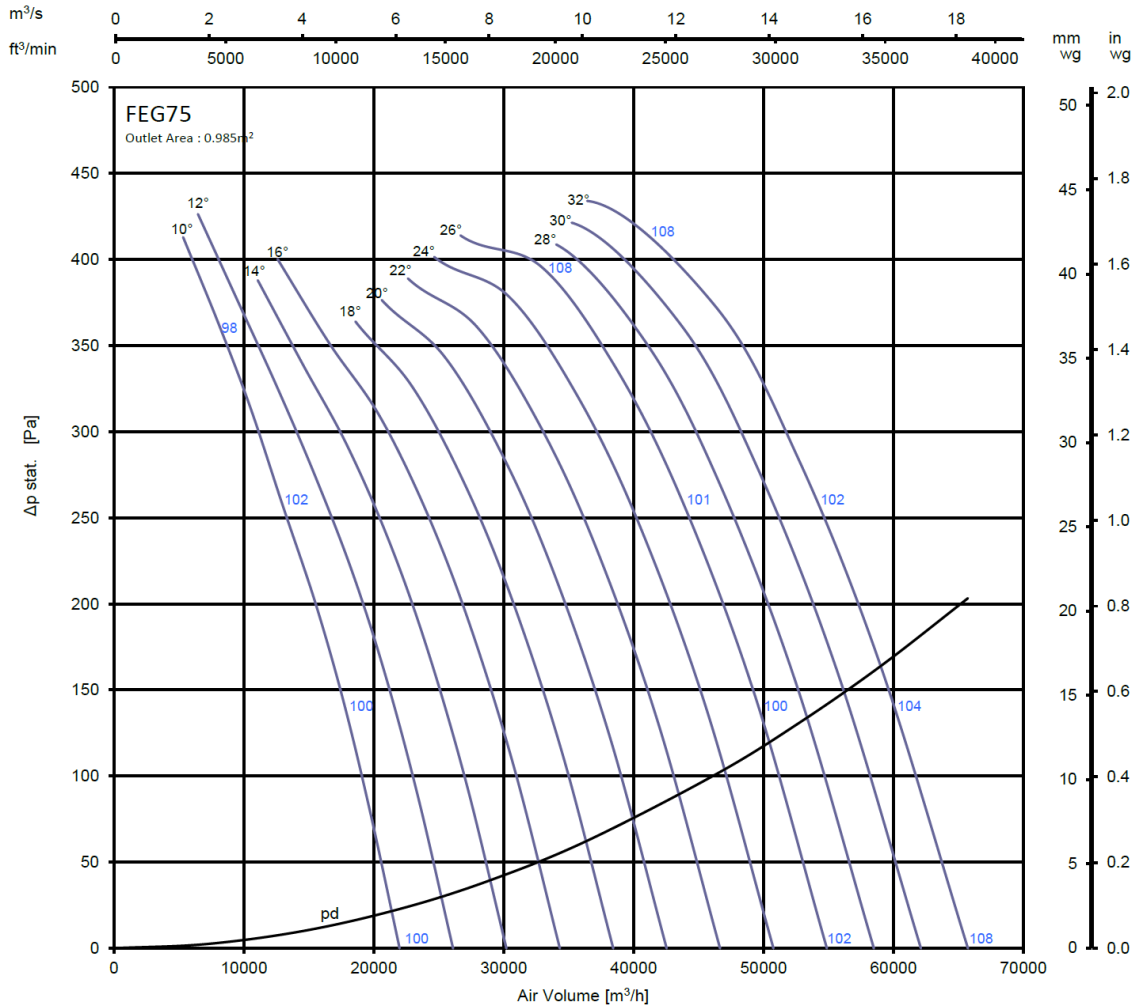
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown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



AXC(A) 1120-12-6 GV, 50Hz 975 rpm



Axial fan
Hub : 350mm



SOUND DATA

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

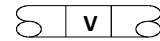
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<180	-12	-9	-5	-4	-7	-10	-13	-24
	<360	-12	-3	-2	-6	-10	-15	-18	-27
26°	<180	-7	-10	-2	-9	-10	-14	-18	-23
	<380	-8	-11	-2	-8	-9	-13	-18	-23
32°	<180	-7	-10	-1	-10	-13	-17	-21	-25
	<420	-7	-11	-2	-8	-11	-16	-21	-24



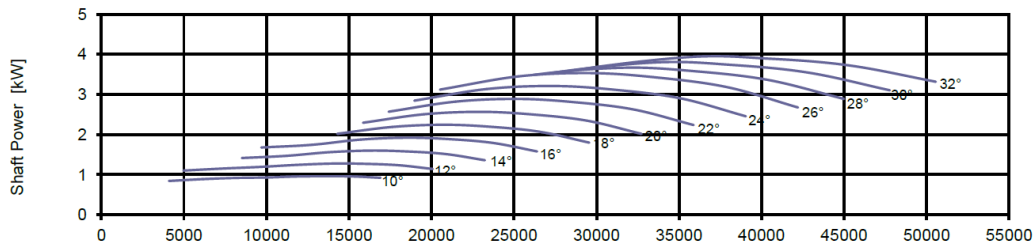
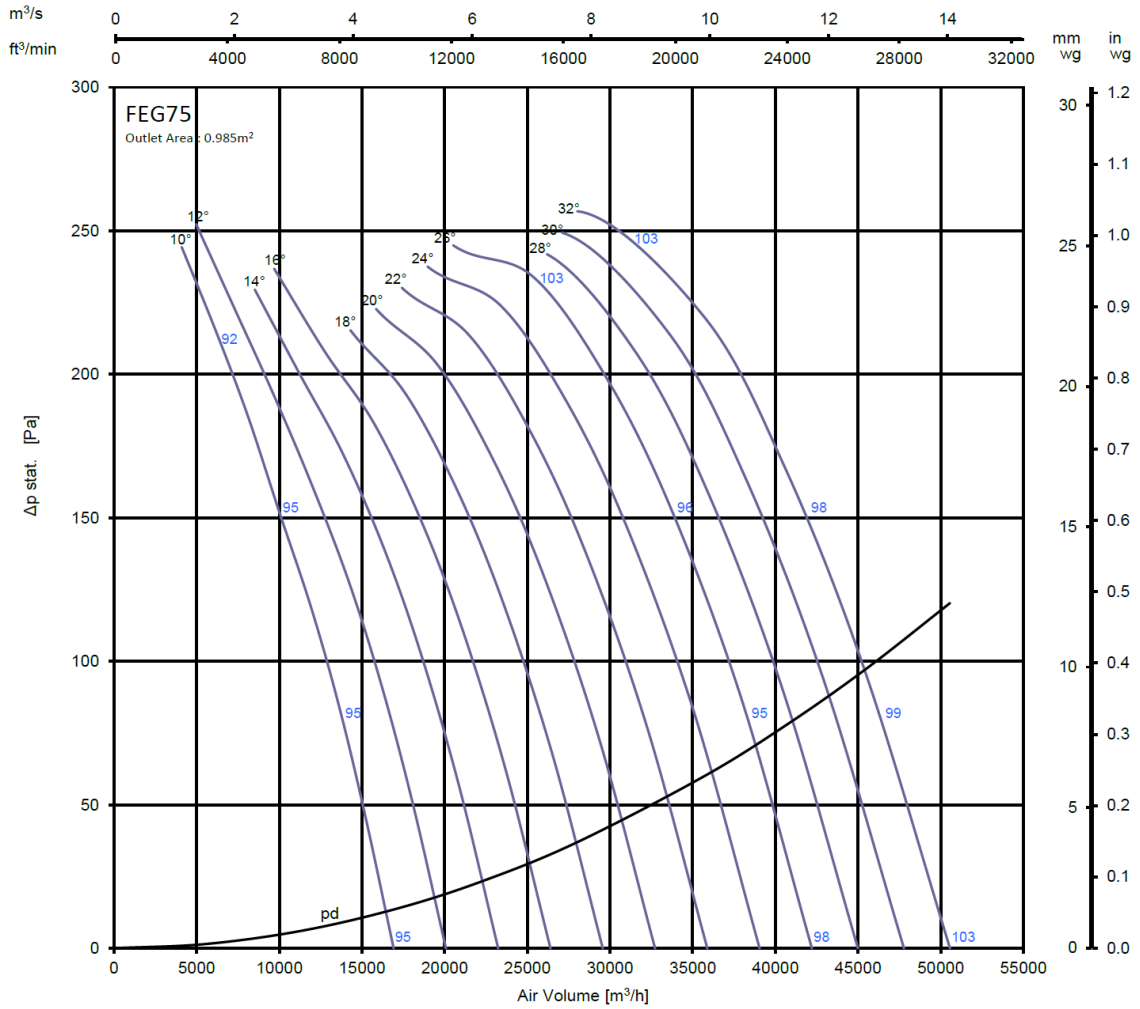
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown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



AXC(A) 1120-12-8 GV, 50Hz 750 rpm



Axial fan
Hub : 350mm



SOUND DATA

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

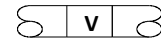
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<100	-11	-5	-5	-6	-8	-12	-17	-28
	<210	-9	-3	-6	-8	-12	-17	-22	-30
26°	<100	-9	-3	-6	-10	-12	-17	-20	-25
	<230	-10	-3	-5	-9	-11	-16	-21	-26
32°	<100	-9	-2	-6	-12	-16	-20	-24	-29
	<250	-9	-3	-5	-10	-14	-18	-22	-26



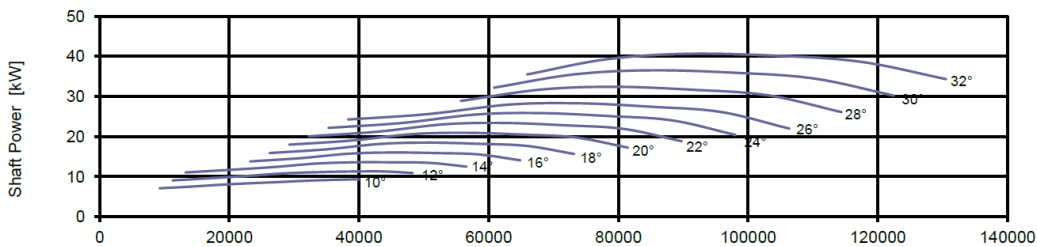
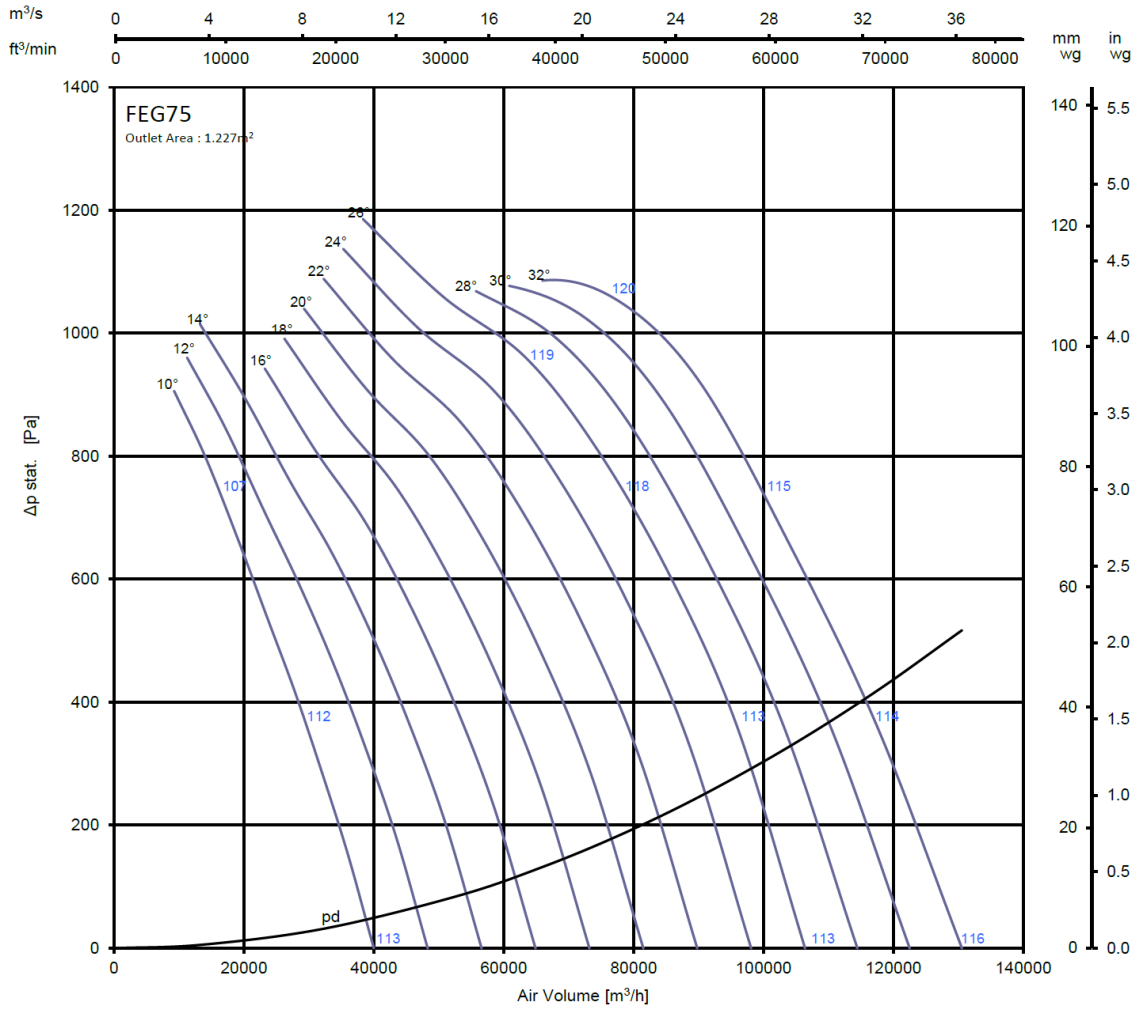
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown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



AXC(A) 1250-12-4 GV, 50Hz 1450 rpm



Axial fan
Hub : 350mm



SOUND DATA

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

Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<400	-14	-10	-4	-5	-8	-11	-14	-18
	<650	-13	-10	-4	-6	-9	-10	-14	-19
26°	<450	-9	-11	-4	-6	-9	-12	-15	-17
	<960	-12	-12	-3	-5	-8	-10	-14	-20
32°	<450	-9	-10	-3	-6	-10	-14	-17	-22
	<1080	-11	-11	-4	-5	-8	-12	-16	-21



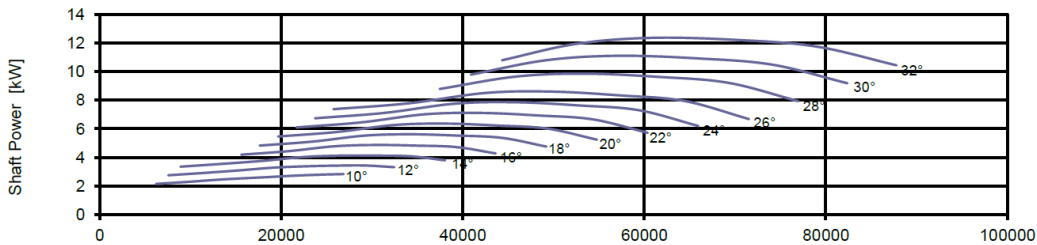
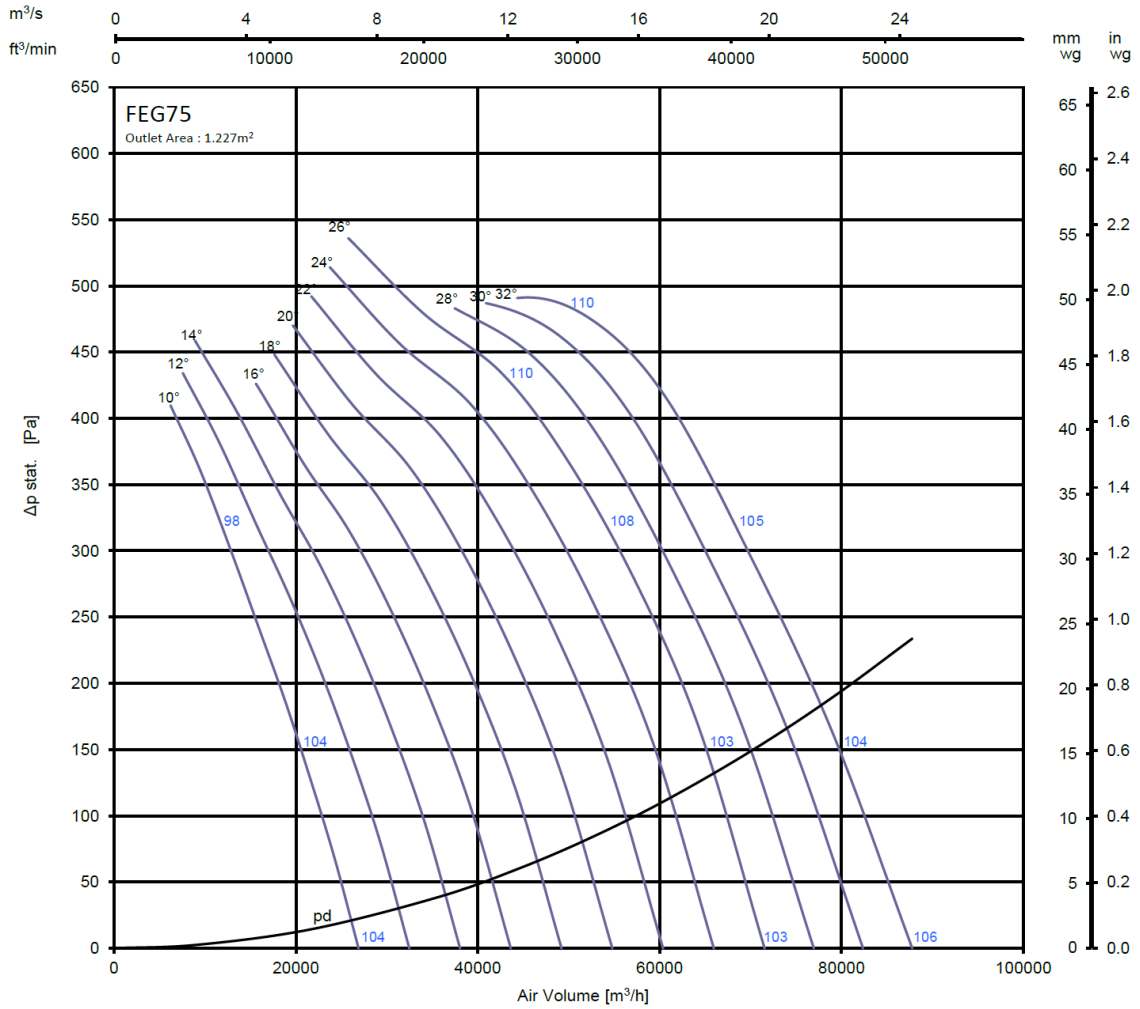
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown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



AXC(A) 1250-12-6 GV, 50Hz 975 rpm



Axial fan
Hub : 350mm



SOUND DATA

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

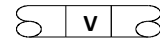
Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<180	-13	-4	-3	-6	-8	-13	-14	-23
	<300	-13	-4	-4	-9	-9	-11	-15	-23
26°	<200	-9	-11	-3	-8	-10	-12	-15	-19
	<430	-11	-13	-2	-7	-8	-11	-16	-21
32°	<200	-8	-10	-2	-8	-11	-15	-17	-23
	<490	-9	-11	-3	-6	-10	-13	-18	-23



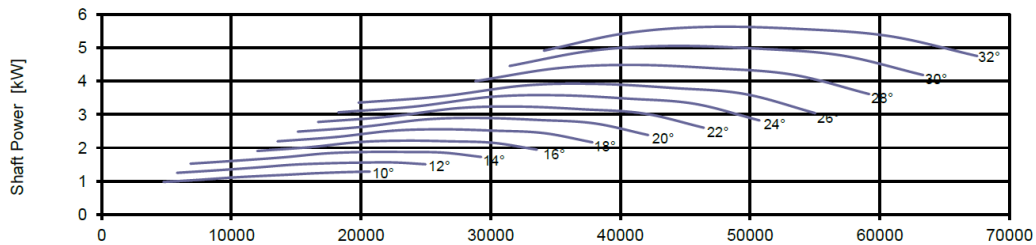
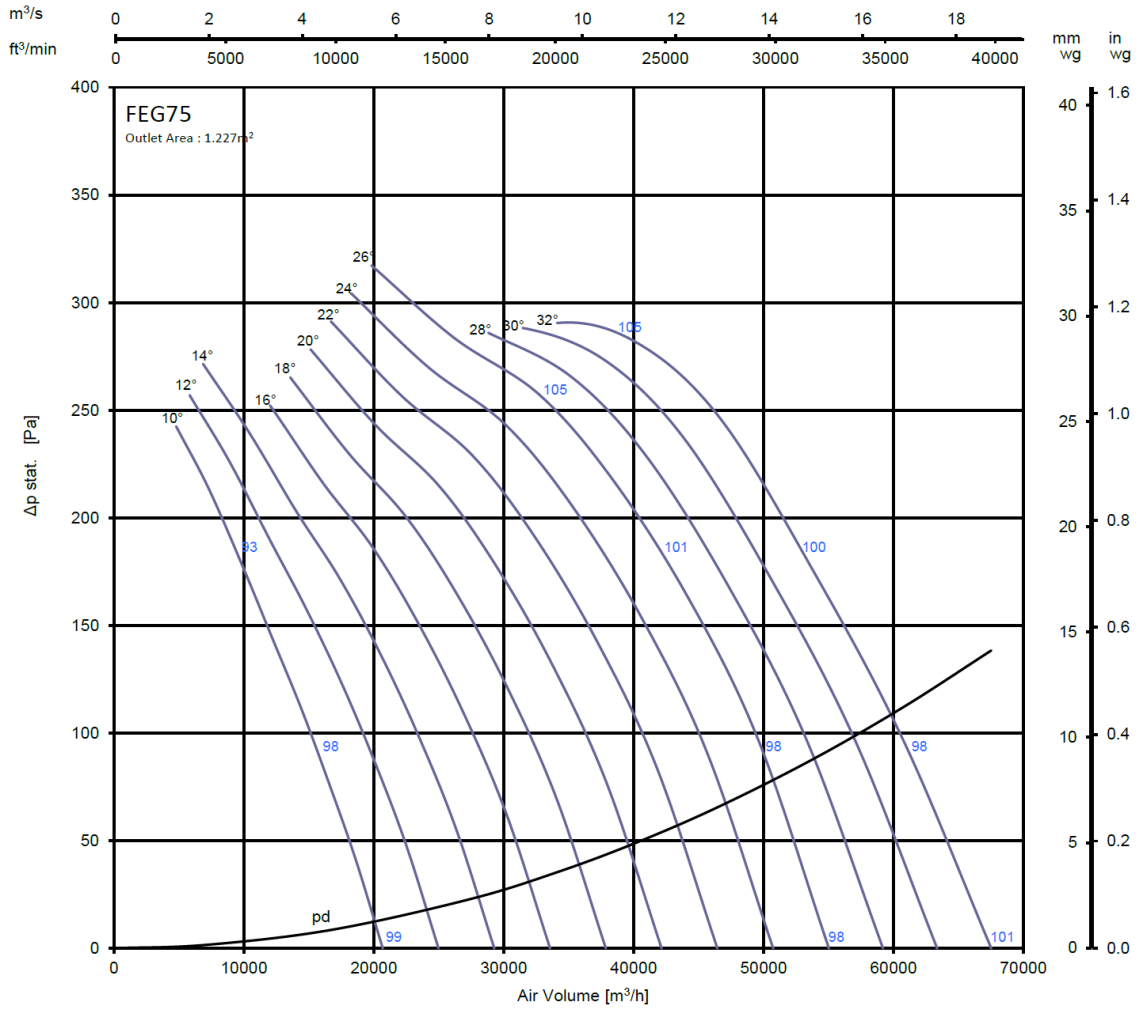
- Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (Accessories).
- The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown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



AXC(A) 1250-12-8 GV, 50Hz 750 rpm



Axial fan
Hub : 350mm



SOUND DATA

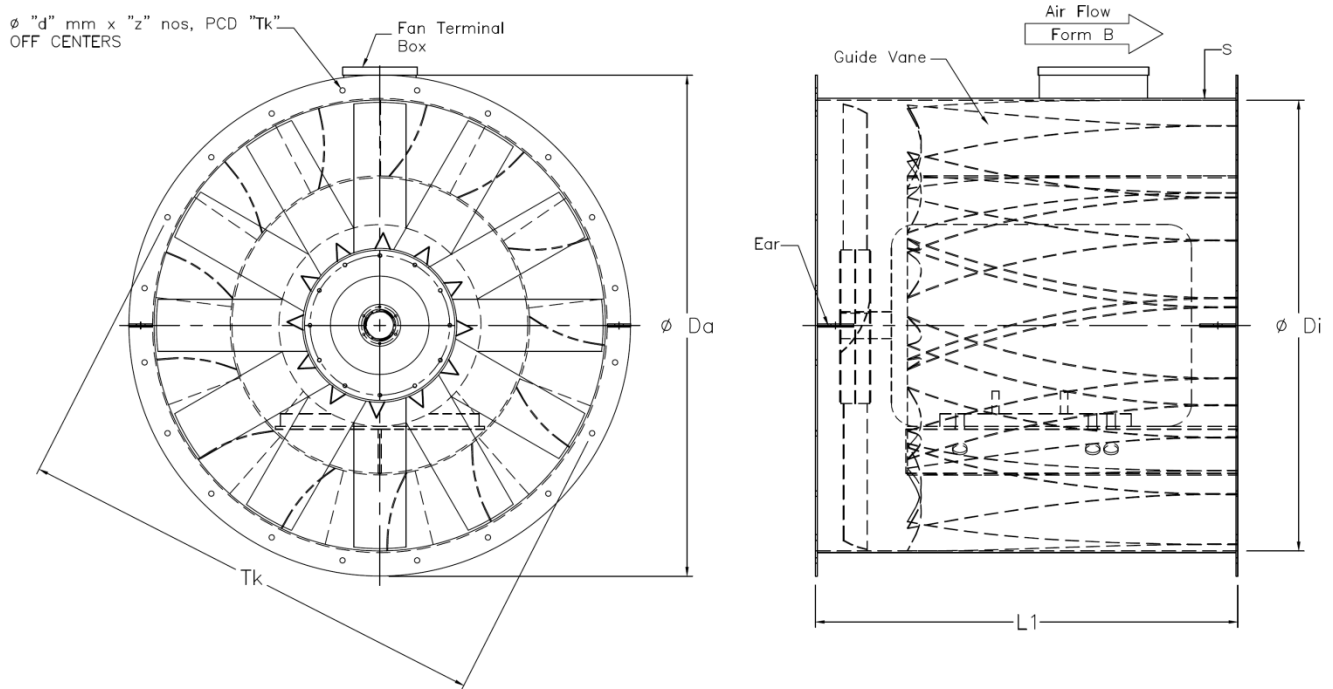
Single figure on performance curves are overall inlet Lwi sound power levels, derived from measurements taken in laboratory specifically under ducted conditions. For sound power levels in eight octave bands, apply the following corrections to the overall levels.

Pitch Angle	ΔP stat. [Pa]	Inlet Levels							
		Octave Band Centre Frequency (Hz)							
		63	125	250	500	1K	2K	4K	8K
10°	<110	-11	-4	-5	-7	-10	-14	-18	-27
	<180	-11	-4	-6	-9	-11	-13	-19	-27
26°	<140	-10	-3	-6	-9	-11	-14	-17	-22
	<250	-12	-3	-5	-8	-10	-13	-19	-25
32°	<140	-9	-2	-5	-9	-13	-16	-20	-25
	<290	-10	-4	-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 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet Lwi sound power levels for installation type D, ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Dimensions



IN METRIC

Fan Model	Motor Frame (min.)	Motor Frame (max.)	ØDi	ØDa	s	ØTk	L1	Z x Ød
AXC 710.....GV	90	100	710	810	3	770	500	16 x 12
AXC 710.....GV	112	-	800	900	3	770	640	16 x 12
AXC 710.....GV	132	-	800	900	3	770	750	16 x 12
AXC 800.....GV	112	-	800	900	3	860	640	16 x 12
AXC 800.....GV	132	-	800	900	3	860	750	16 x 12
AXC 800.....GV	160	-	800	900	3	860	850	16 x 12
AXC 900.....GV	112	-	900	1005	4	970	640	16 x 15
AXC 900.....GV	132	-	900	1005	4	970	750	16 x 15
AXC 900.....GV	160	-	900	1005	4	970	850	16 x 15
AXC 1000.....GV	132	-	1000	1105	4	1070	750	16 x 15
AXC 1000.....GV	160	180	1000	1105	4	1070	850	16 x 15
AXC(A) 1120.....GV	132	-	1120	1260	4	1190	750	20 x 15
AXC(A) 1120.....GV	160	180	1120	1260	4	1190	1000	20 x 15
AXC(A) 1120.....GV	200	-	1120	1260	4	1190	1000	20 x 15
AXC(A) 1250.....GV	160	225	1250	1390	5	1320	1000	20 x 15

Notes



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AXCGV May 2017