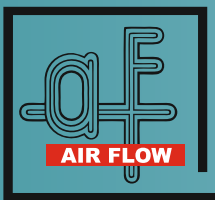
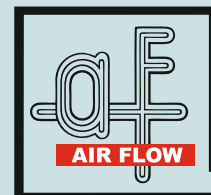


# Plenum / Plug Fans



An ISO 9001:2008 Company

## AFPF108

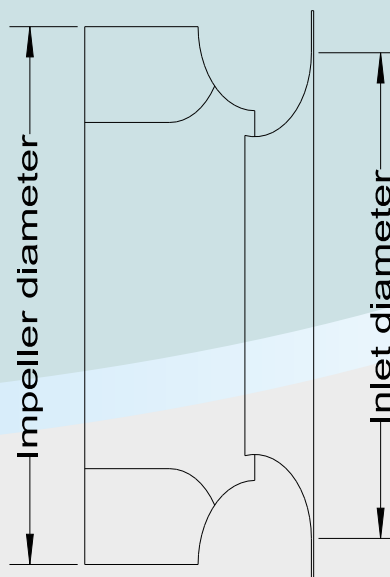


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## Company Profile

**We** “Efforts combined with a sincere selfless commitment and continuous pursuance of excellence Translate into Success;”

At Air Flow, these 4 decades of existence have been an endless process of attaining ‘Success’ with enhancing capabilities, consolidating commitment and cementing faith in quality and innovation. Right from the inception in 1973, we have been leaders in manufacturing , Exporting and importing Air Terminal Products, Air Distribution Products, Smoke/Fire Damper, Jet Fans Axial Flow Fans, Centrifugal Fans, Flexible Duct Connectors, Jet Nozzles and Louvers through this long duration of time. The way we’re empowering our product line and winning laurels from our clients world over by continuously improving upon our existing set on skills, technology, and range, we are poised to set more and more landmarks globally in the future.

Being in the good books of architects, consultants, contractors and builders is one of the key assets we cherish from the core of our heart. Yet again, it’s the idea of giving this best and always raising the bar of standards high that propel us towards accomplishing what many think impossible. Fire Rating for Axial Flow Fans & Jet Fans, truly stands the acknowledgment of the most powerful characteristic of the Company as ever.

Air Flow has a team of hard core professionals who believe in ‘ just make it happen’ Our tremendous growth over the year speaks volumes about our professional integrity and never-say–die spirit. Surely, at Air Flow we understand the importance of staying self-motivated and determined to make a difference through what we do’

# Introduction



Air Flow Pvt Ltd certifies that the Plenum / Plug Fans Model AFPF108 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.

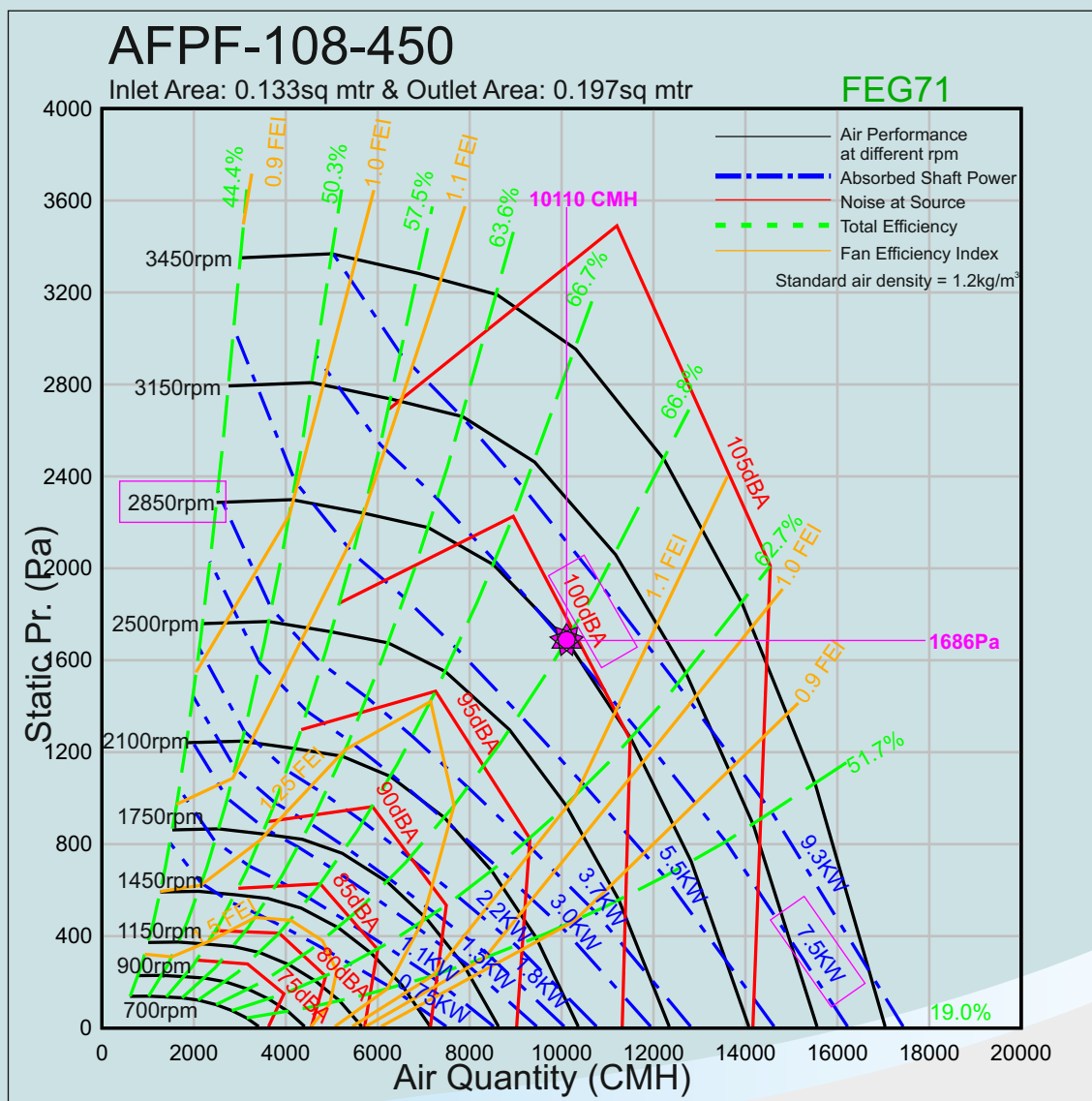
## Features

- a) High efficiency
- b) Quality raw materials
- c) Versatile construction
- d) Direct or Belt Driven
- e) Long life finish

## Typical application

- a) General ventilation
- b) Emergency heat and smoke exhaust stairwell & pressurization
- c) Parking & basement ventilation
- d) Industrial processes Ventilation
- e) Tunnel ventilation
- f) Generator room ventilation
- g) Wide range of volumes.
- h) Minimum operating cost per cubic meter of space.
- l) Minimum space and weight

## Example Graph



**Example: AFPF-108-450**

**Desired point: 10110CMH, 1686 (Pa) Static Pressure**

### How to determine Fan Characteristics:

1. Plot your desired point on graph of Fan Model.
2. Interpolate RPM scale (Black curve) of desired duty point (2850rpm)
3. Interpolate Fan BkW (Blue curve) of desired duty point (7.57kW)
4. Interpolate Noise at source in dBA (Red curve) of desired duty point (100dBA)
5. Interpolate Total Efficiency (Green curve) of desired duty point (66.8%)
6. Interpolate Fan Efficiency Index (Orange curve) of desired duty point (1.185)

## Calculation for Loudness in Fan Sones

All fan sone values shall be calculated by the following method (based on ANSI S3.4-1980 (R1992) *Procedure for the Computation of Loudness of Noise*).

For each octave band, convert the measured sound power levels from the outlet in decibels (re  $1.0 \times 10^{-12}$  W) to sound pressure level at a distance of 1524 mm (5 ft) from the acoustic center of the fan in a hemispherical free field, using the following formula:

$$L_p = L_{wmo}(\text{dB}) - 11.5$$

Find the loudness index for each octave band sound pressure level in Table 4. Add these loudness indices; multiply this sum by 0.3. Add 0.7 times the highest  $s$  value to this to obtain the total loudness,  $S$ , in sones.

$$S = 0.3 (s_1 + s_2 + s_3 + \dots + s_8) + 0.7 s_m$$

Where:

$S$  = total fan sones

$s$  = octave band loudness index number

$s_m$  = highest octave band loudness index number

(Reference AMCA Standard 301)



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## Fan Laws

$$CMH_2 = CMH_1 \times \left( \frac{RPM_2}{RPM_1} \right)^1 \times \left( \frac{D_2}{D_1} \right)^3 \times \left( \frac{d_2}{d_1} \right)^0$$

$$SP_2 = SP_1 \times \left( \frac{RPM_2}{RPM_1} \right)^2 \times \left( \frac{D_2}{D_1} \right)^2 \times \left( \frac{d_2}{d_1} \right)^1$$

$$BKW_2 = BKW_1 \times \left( \frac{RPM_2}{RPM_1} \right)^3 \times \left( \frac{D_2}{D_1} \right)^5 \times \left( \frac{d_2}{d_1} \right)^1$$

**CMH** - Air quantity in Cubic Meter per Hour

**SP** - Static Pressure in mm WG

**BKW** - Fan Brake Kilowatt

**RPM** - Fan revolution per minute

**D** - Fan diameter

**d** - Density of air Standard air density = 1.2kg/m<sup>3</sup>

At higher than standard elevations and temperatures, air density will be lower than standard.

**1** - Initial State

**2** - Final State

To calculate:

Total Pressure = static pressure + velocity Pressure

Velocity Pressure (Pa) =  $\frac{1}{2} \times d$  (density of air kg/m<sup>3</sup> x (Fan Outlet velocity m/s)<sup>2</sup>

Fan outlet Velocity (m/s) = CMH ÷ Duct area (sq. mtr) ÷ 3600

Tip speed (m/s) =  $\pi \times$  fan diameter (mtr) x fan rpm ÷ 60

Total efficiency  $\eta$  % =  $\frac{CMS \times \text{Total Pressure (mm WG)}}{102 \times BKW}$

### Velocity

Feet/Min. (fpm)	Meter/Sec (mps)	Meters/Min. (mpm)	Meters/Hr. (mph)
1.0	0.00508	0.3048	18.288
60.0	0.3038	18.228	1093.7
80.0	0.4	26.822	1609.4
196.85	1.0	60.0	3600.0
3.2808	0.0167	1.0	60.0
0.05468	0.000267	0.01667	1.0

### Volume Flow Rates:

Cubic Ft./Min (CFM)	Cubic Meter/Sec. (M3/S)	Cubic Meters/Hr. (M3/Hr.)
1.0	0.000472	1.699
0.01667	0.00000787	0.02832
2118.9	1.0	3600.0
35.315	0.01667	60.0
0.58858	0.00028	1.0
2.1189	0.001	3.6

### MISCELLANEOUS CONVERSION FACTORS

#### LENGTH

1 in = 2.54 cm  
1 ft = .348 m  
1 yd = .9144 m  
1 mi = 1.6093 km  
1 nau. mi = 1.1516 mi

#### AREA

1 in<sup>2</sup> = 6.4516 cm<sup>2</sup>  
1 Ft<sup>2</sup> = .0929 m<sup>2</sup>  
1 yd<sup>2</sup> = .8381 m<sup>2</sup>  
1 mi<sup>2</sup> = 2.5899 Km<sup>2</sup>

#### POWER

1 hp = .746 KW  
1 hp = 550 ft-lb/sec  
1 hp = 33000 ft-lb/min  
1 hp = 76.04 kg-m/sec  
1 hpm = 75.00 kg-m/sec

#### HEAT

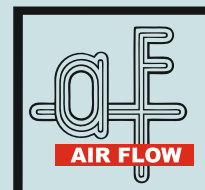
1 Btu = 777.97 Ft-lb  
1 hp = 2545 Btu/hr  
1 hp = 1.014 metric hp  
1 hp = .0761 boiler hp  
1 kw = 3414 Btu/hr  
1 Ton = 12000 Btu/hr

#### DENSITY

1 lb/ft<sup>3</sup> = 16.018 kg/m<sup>3</sup>

#### TIP SPEED

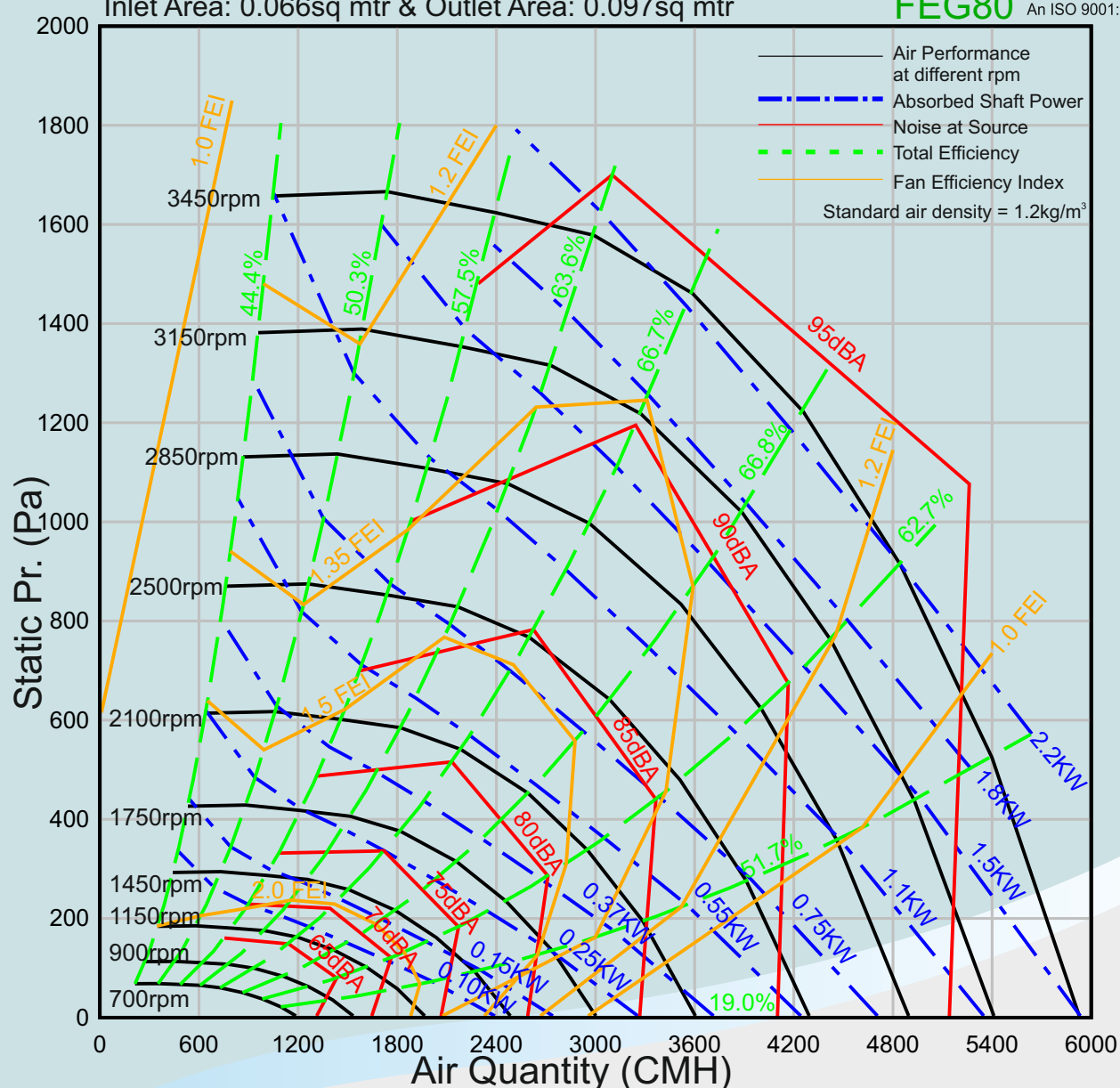
1 fpm = .0051 m/s



# AFPF-108-315

Inlet Area: 0.066sq mtr & Outlet Area: 0.097sq mtr

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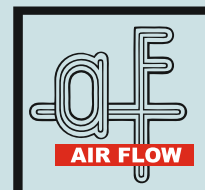
Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
4900	0	2850	0.841	87	79	86	88	86	86	89	86	94	45
4005	623	2850	1.240	85	75	80	82	82	82	84	78	89	31
2962	997	2850	1.275	84	79	80	83	80	82	82	75	88	29
1981	1108	2850	1.070	90	91	91	89	86	85	79	72	91	33

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.

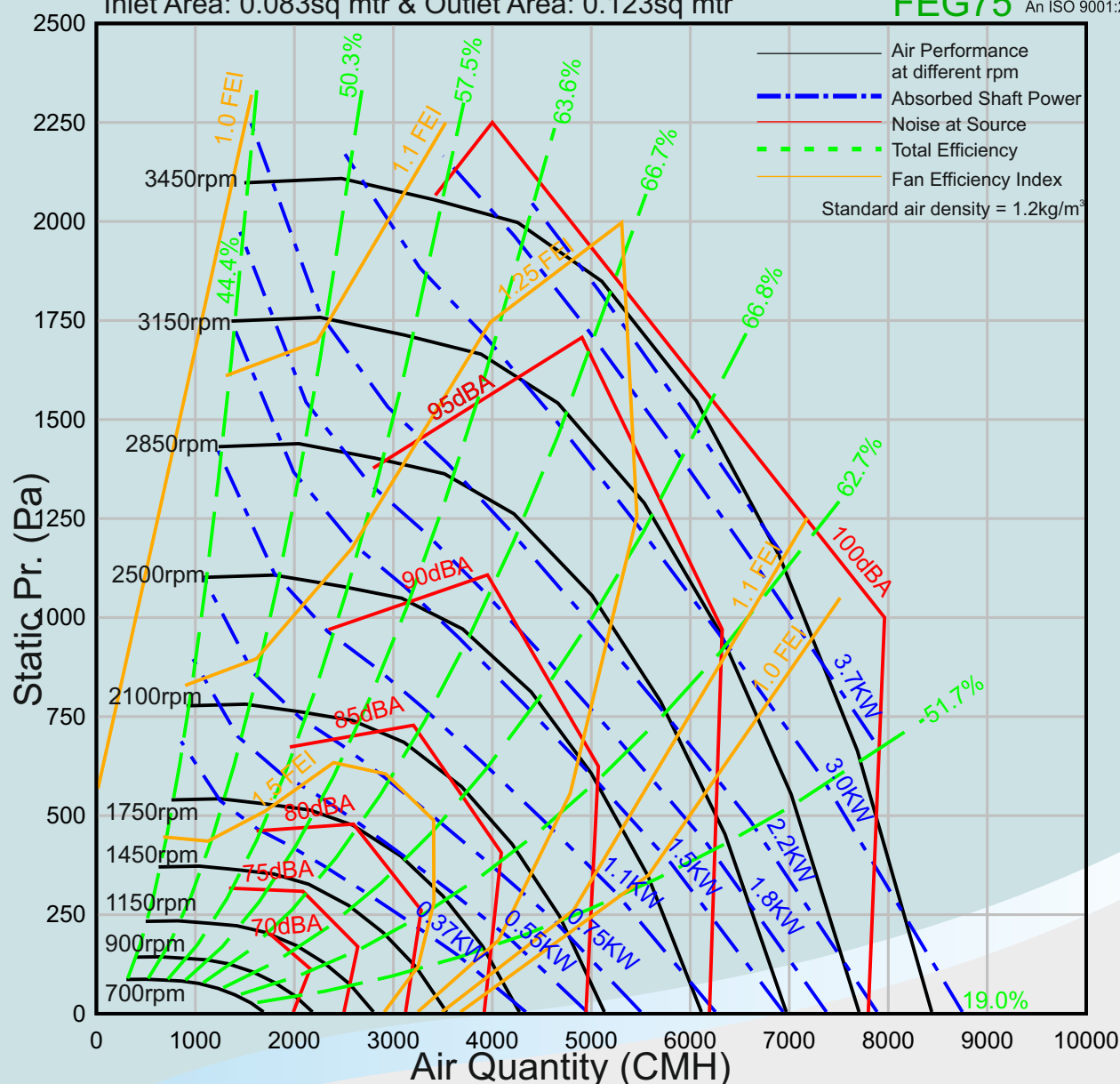




# AFPF-108-355

Inlet Area: 0.083sq mtr & Outlet Area: 0.123sq mtr

**FEG75** An ISO 9001:2008 Company



Air Flow Pvt Ltd certifies that the Plenum / Plug Fans Model AFPF108 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.

Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
6977	0	2850	1.516	92	83	90	92	90	90	93	90	98	58
5702	789	2850	2.235	90	79	84	86	86	86	88	82	93	40
4218	1262	2850	2.298	89	84	84	87	84	86	86	79	92	36
2820	1402	2850	1.928	94	95	95	93	90	89	83	76	95	42

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

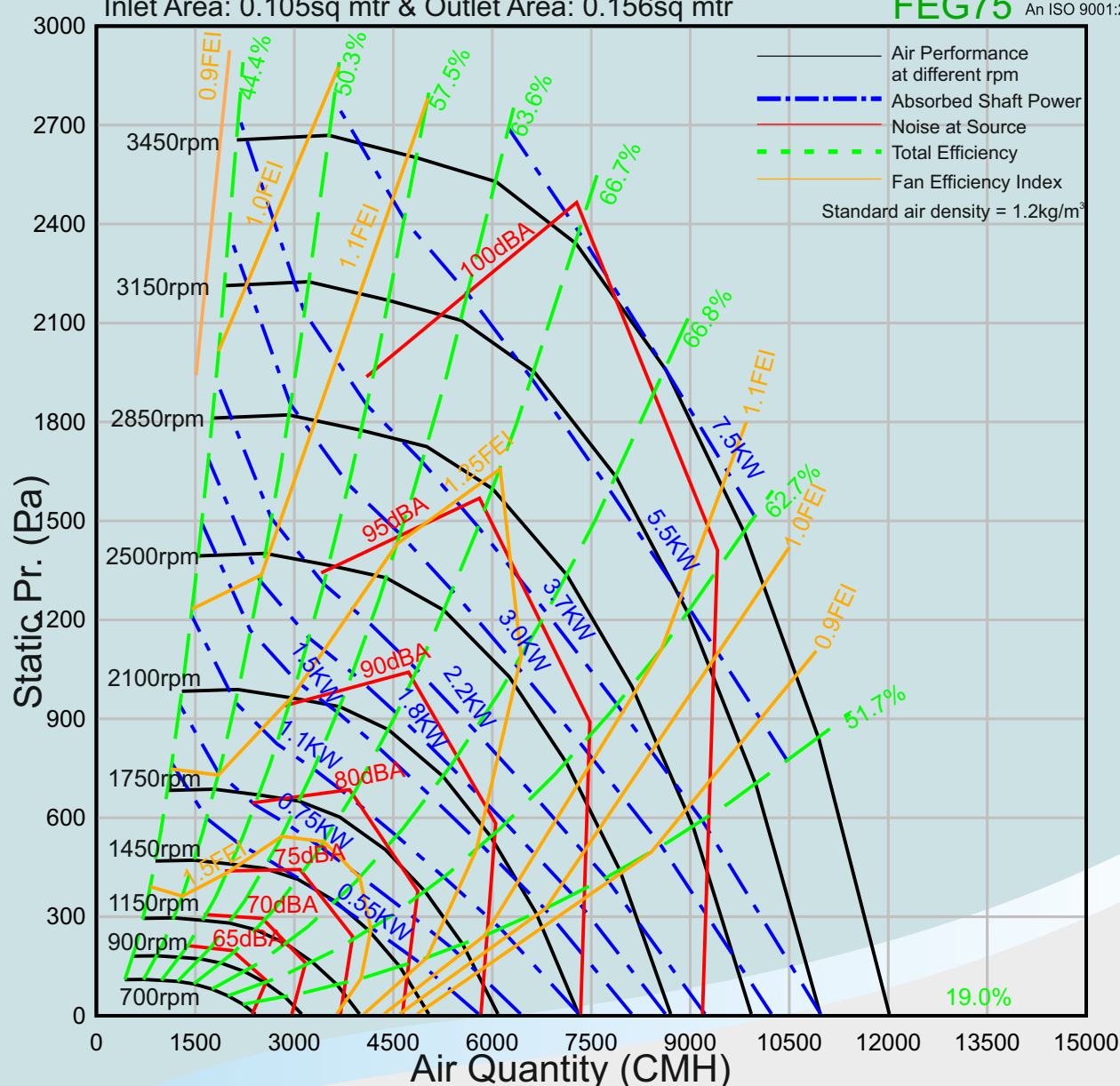
The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



# AFPF-108-400

Inlet Area: 0.105sq mtr & Outlet Area: 0.156sq mtr

**FEG75** An ISO 9001:2008 Company



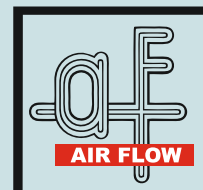
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Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
9934	0	2850	2.731	96	88	94	96	93	93	96	93	101	75
8118	999	2850	4.027	94	84	88	89	90	90	92	86	96	51
6005	1597	2850	4.140	93	88	88	90	88	90	90	83	95	46
4016	1774	2850	3.475	99	100	99	97	94	92	86	79	99	54

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.

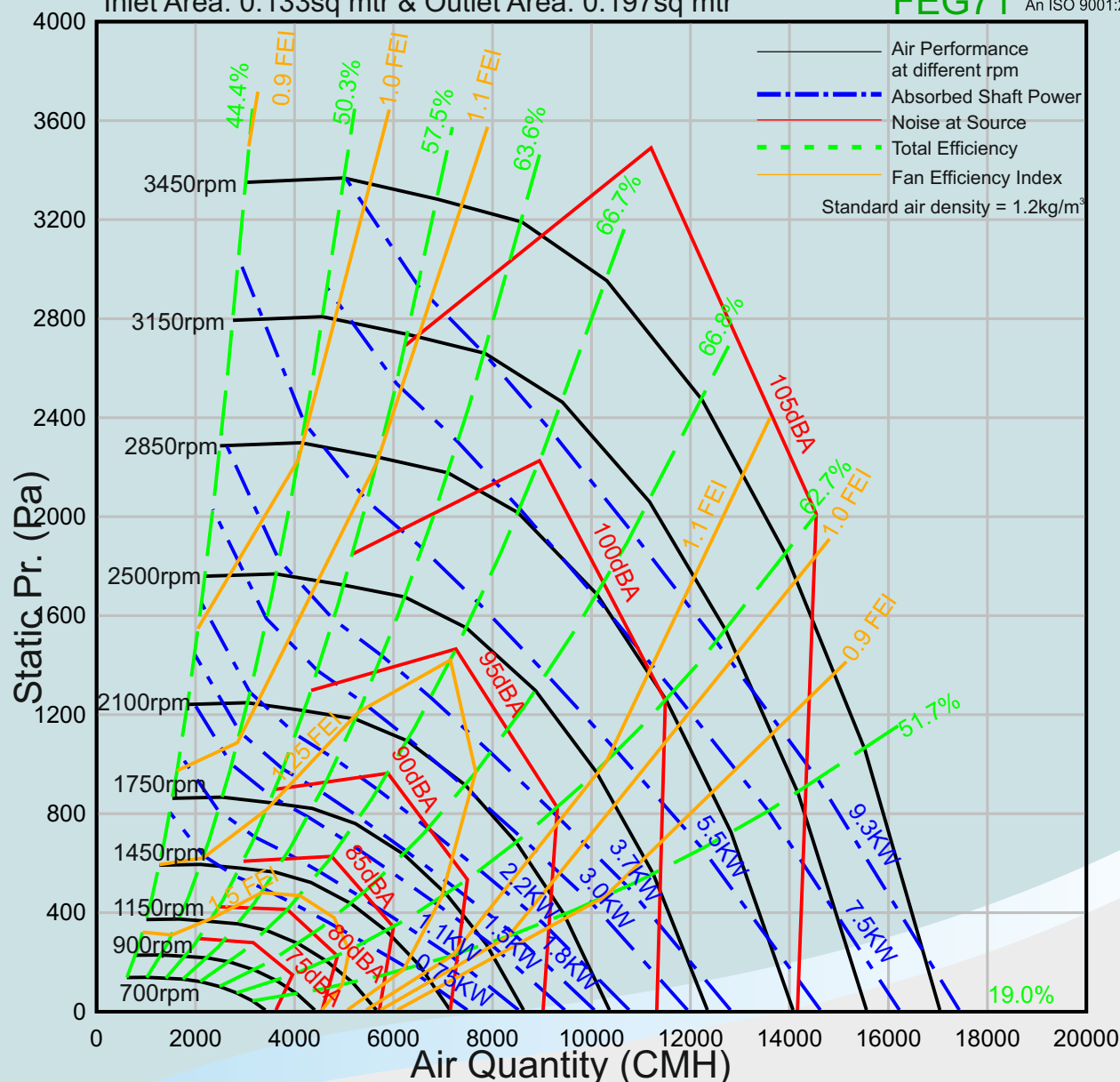


# AFPF-108-450

Inlet Area: 0.133sq mtr & Outlet Area: 0.197sq mtr

FEG71

An ISO 9001:2008 Company



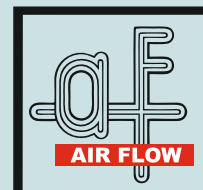
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Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
7167	0	1450	0.644	72	81	83	82	82	85	84	81	90	34
5857	326	1450	0.949	69	74	76	78	78	80	77	71	85	22
4333	522	1450	0.976	73	74	77	76	78	78	74	67	83	20
2897	580	1450	0.819	84	86	84	82	81	75	70	63	84	22

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

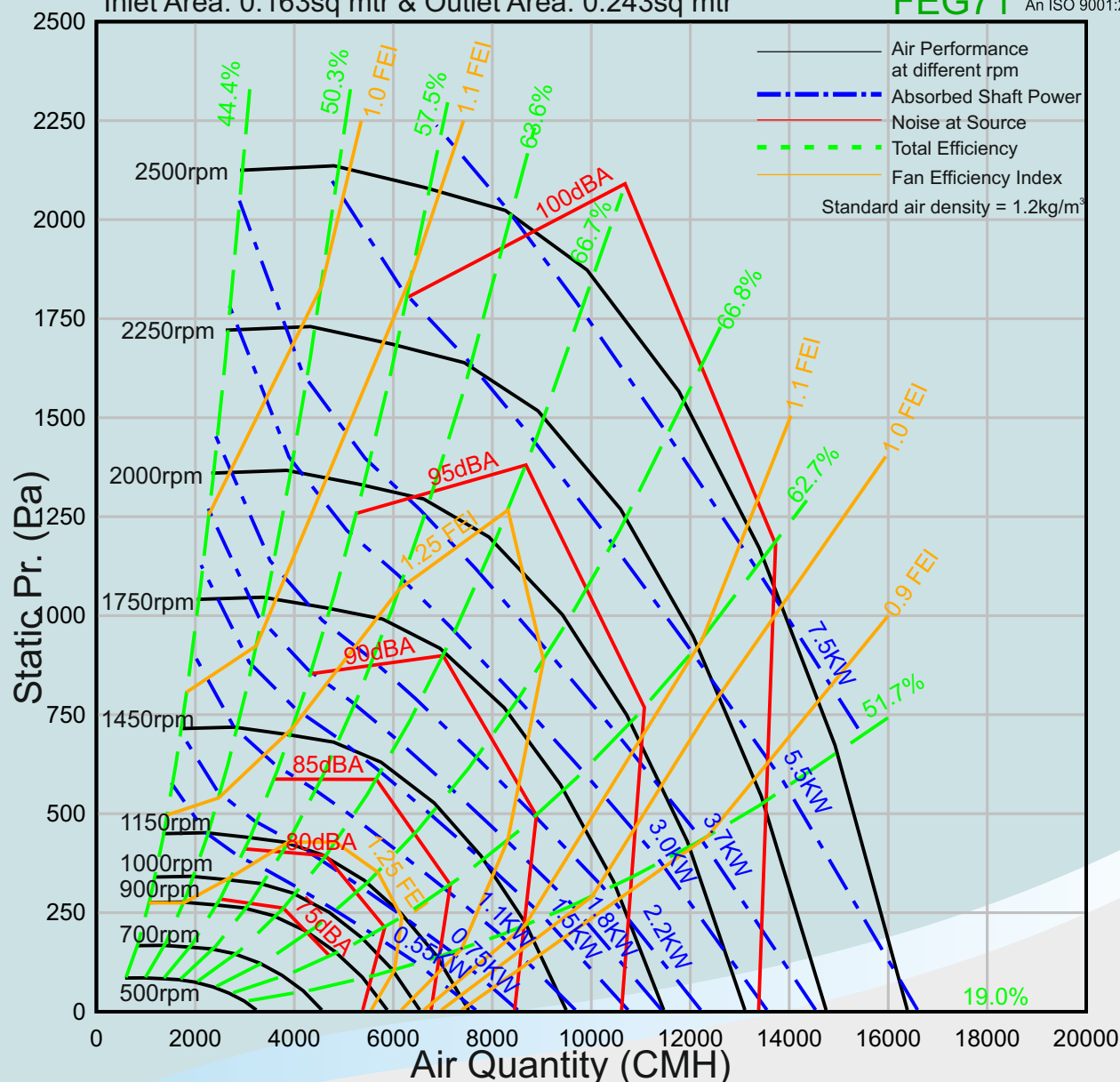
The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



# AFPF-108-500

Inlet Area: 0.163sq mtr & Outlet Area: 0.243sq mtr

**FEG71** An ISO 9001:2008 Company



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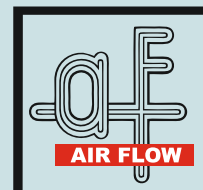
Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
9799	0	1450	1.084	76	85	87	85	85	88	87	84	93	42
8008	402	1450	1.598	73	78	80	82	82	83	80	74	88	26
5924	643	1450	1.644	77	78	81	80	82	81	77	70	86	24
3961	714	1450	1.379	88	90	88	85	84	78	73	66	88	27

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



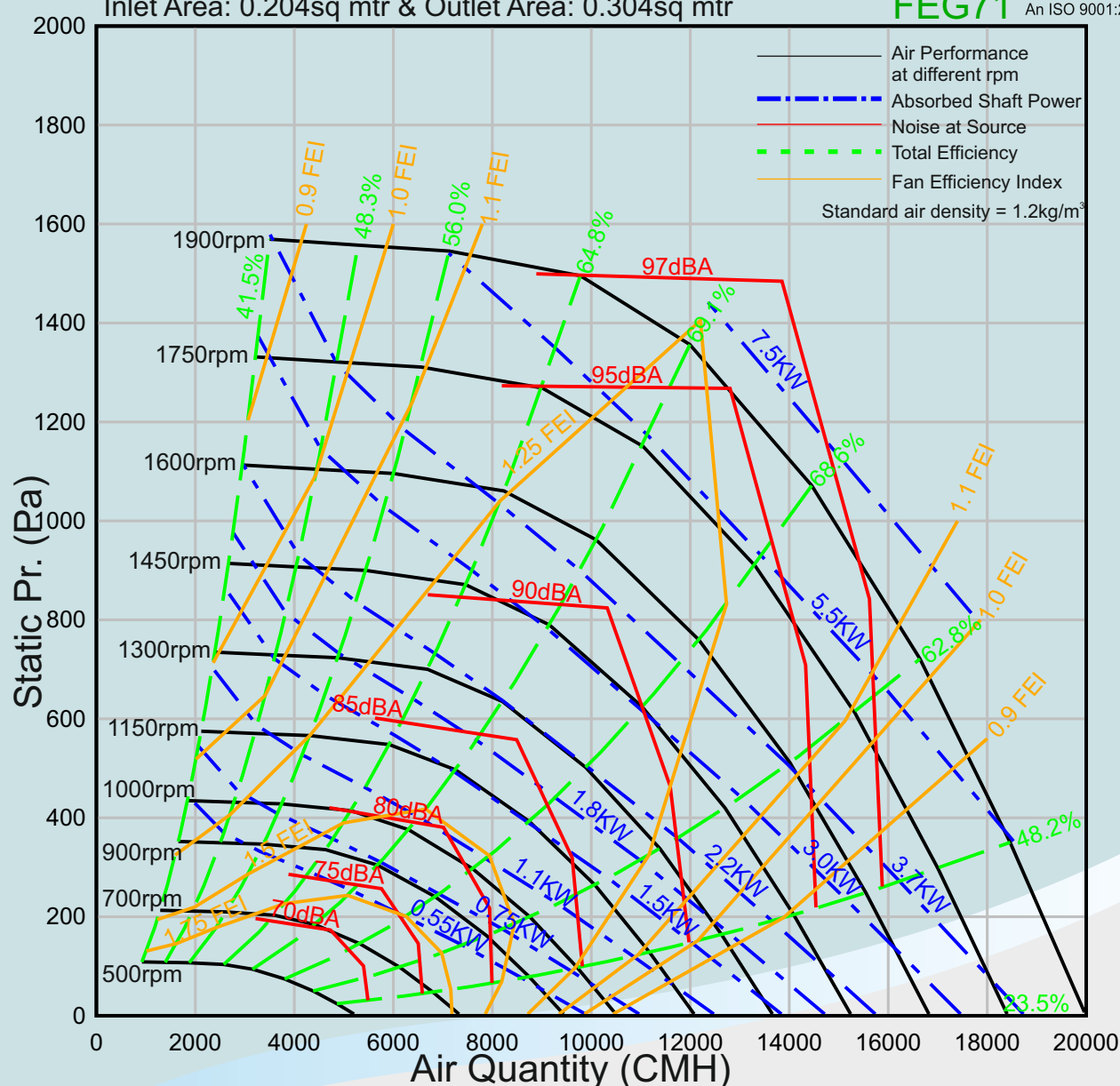


# AFPF-108-560

Inlet Area: 0.204sq mtr & Outlet Area: 0.304sq mtr

FEG71

An ISO 9001:2008 Company



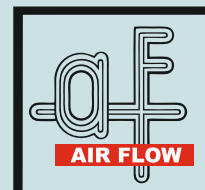
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Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
14083	205	1450	2.420	93	97	100	90	90	90	86	72	94	38
12060	502	1450	2.900	91	95	98	87	88	85	80	70	91	31
9828	747	1450	3.070	92	95	98	85	85	83	79	70	89	27
6838	887	1450	2.750	103	104	103	87	87	83	78	68	91	32

The sound power level ratings shown are in decibels, referred to  $10^{-12}$  watts, calculated per AMCA International Standard 301.

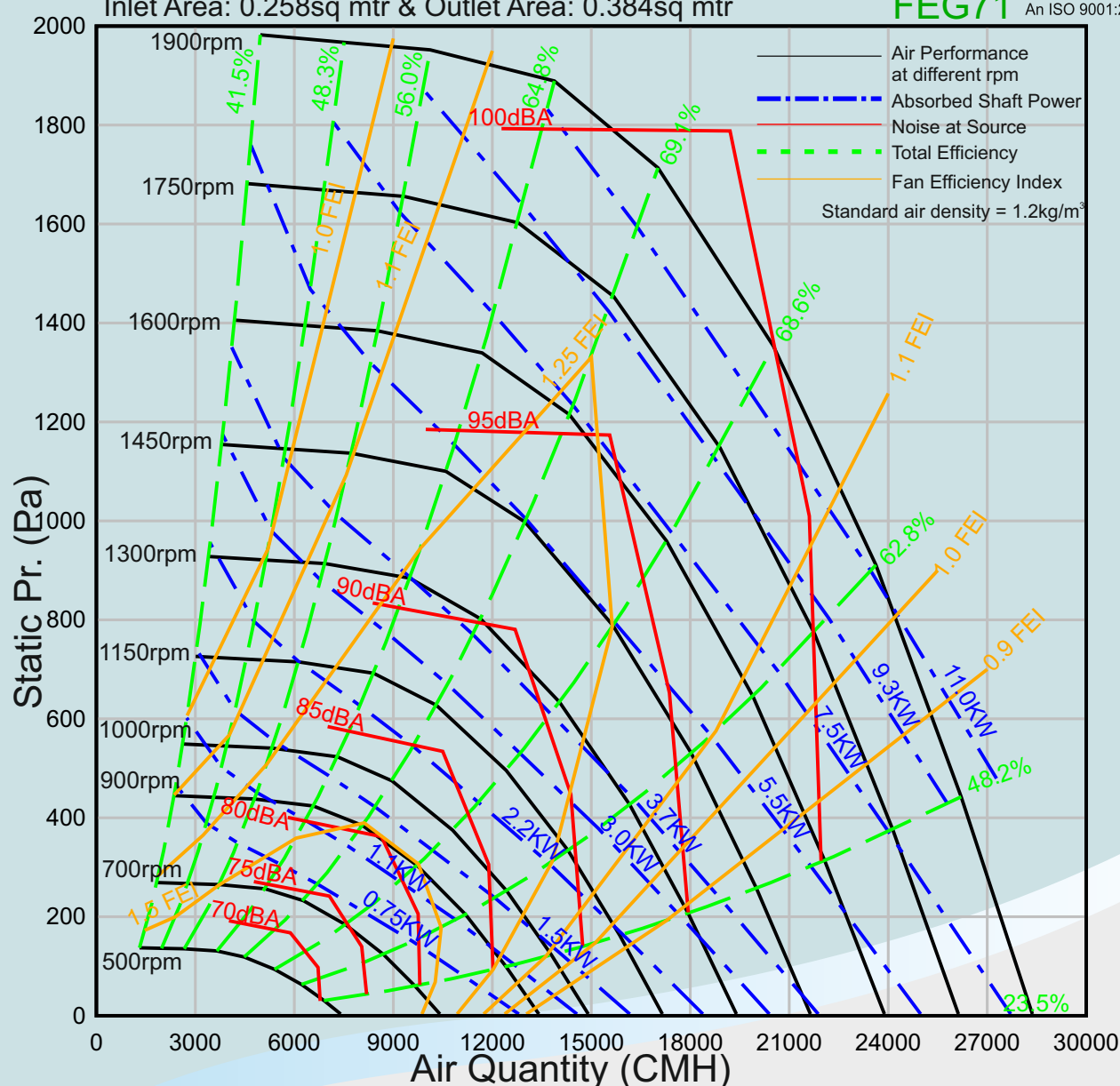
The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



# AFPF-108-630

Inlet Area: 0.258sq mtr & Outlet Area: 0.384sq mtr

**FEG71** An ISO 9001:2008 Company



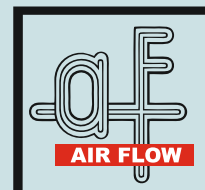
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Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
19993	259	1450	4.340	97	102	104	93	94	93	90	75	98	48
17121	634	1450	5.200	95	100	102	91	92	88	83	74	95	39
13952	944	1450	5.505	97	99	102	89	89	87	82	74	92	34
9708	1121	1450	4.931	108	108	107	90	91	87	81	71	94	40

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.

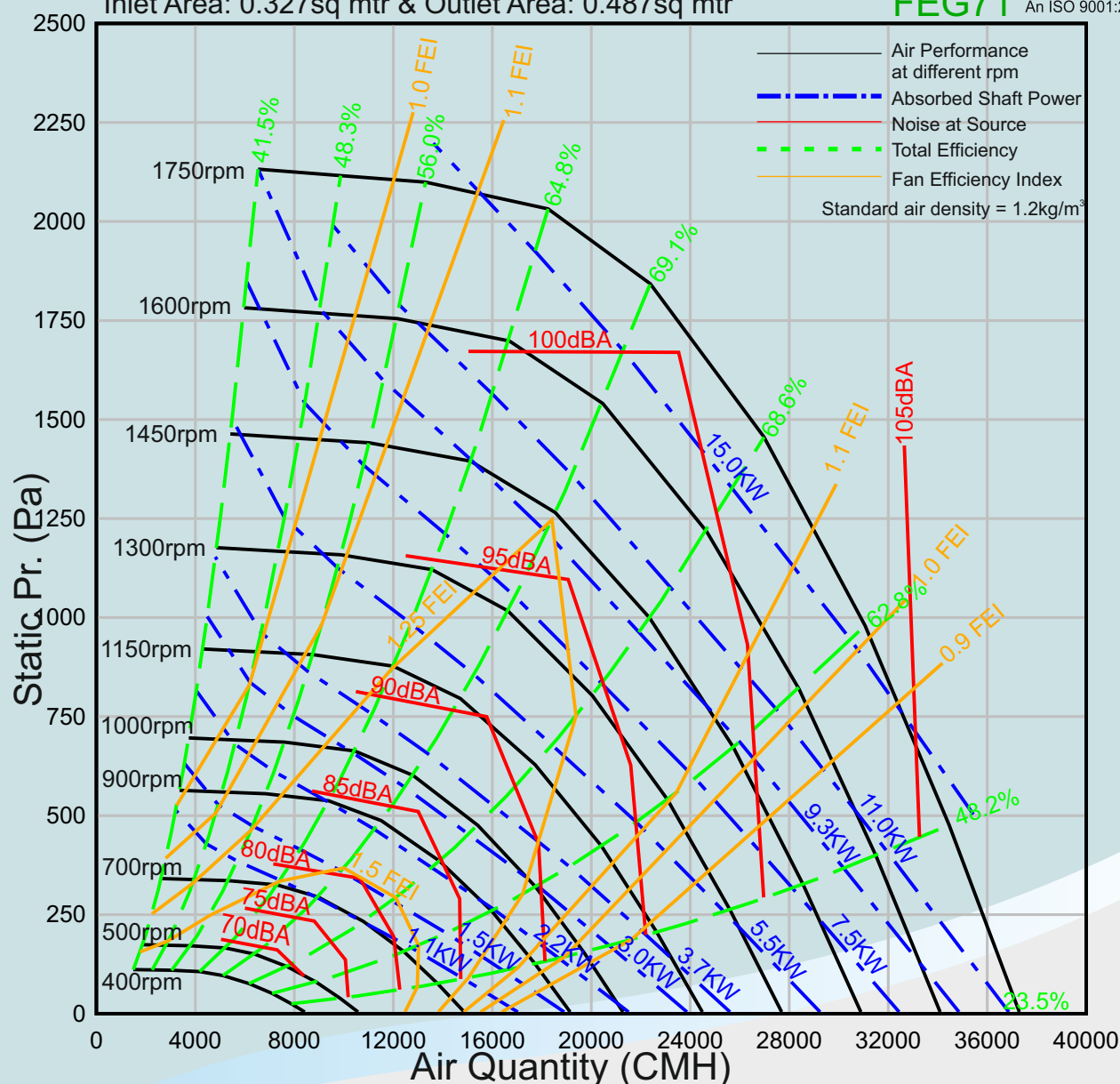


# AFPF-108-710

Inlet Area: 0.327sq mtr & Outlet Area: 0.487sq mtr

**FEG71**

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Air Flow Pvt Ltd certifies that the Plenum / Plug Fans Model AFPF108 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.

Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
28541	329	1450	7.854	101	106	108	97	97	97	93	79	102	61
24442	804	1450	9.412	100	104	106	94	95	92	87	78	98	49
19917	1196	1450	9.964	101	103	106	93	92	90	86	77	96	43
13859	1421	1450	8.925	112	113	111	94	94	90	85	75	98	51

The sound power level ratings shown are in decibels, referred to  $10^{-12}$  watts, calculated per AMCA International Standard 301.

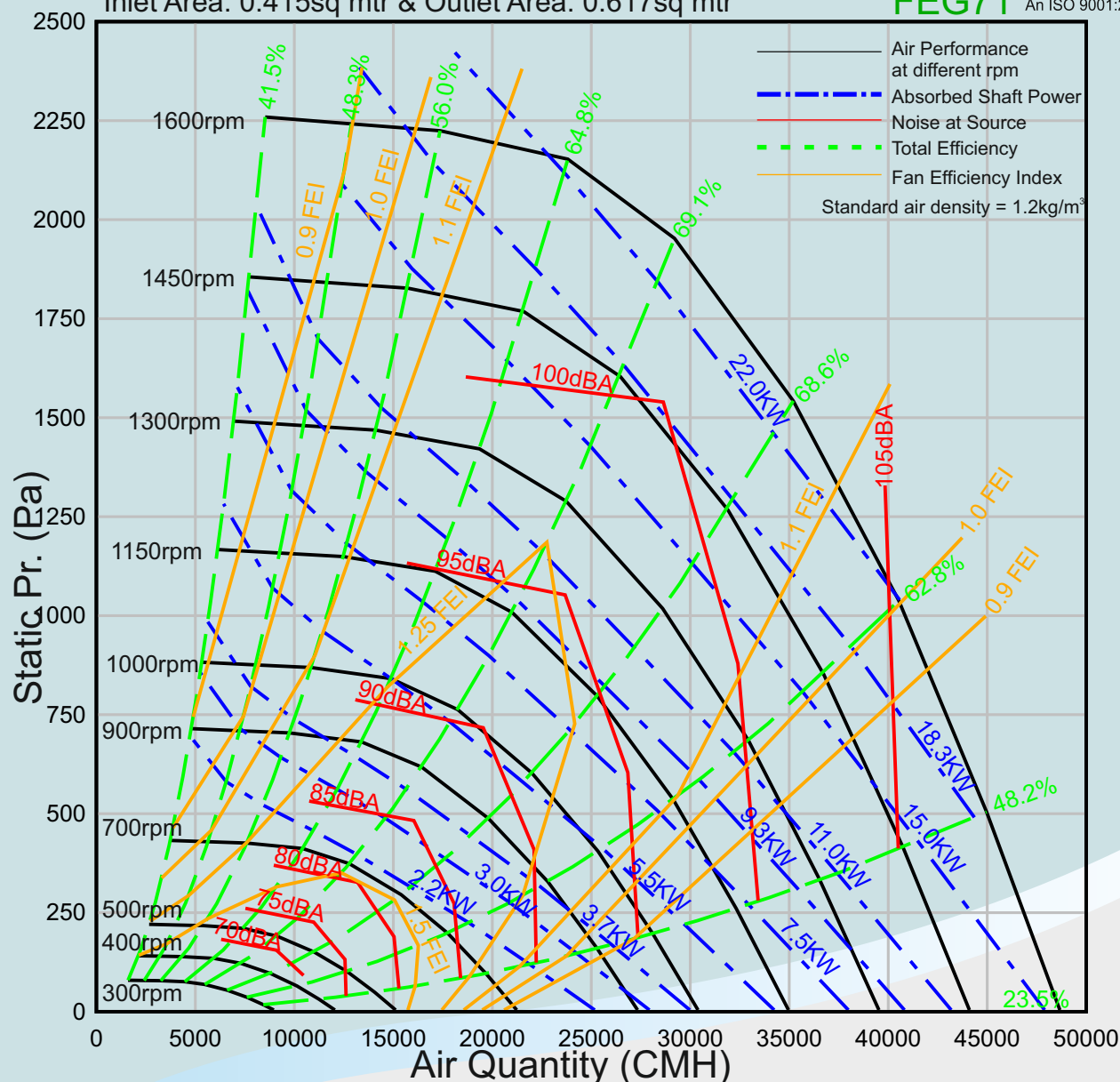
The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



# AFPF-108-800

Inlet Area: 0.415sq mtr & Outlet Area: 0.617sq mtr

**FEG71** An ISO 9001:2008 Company



Air Flow Pvt Ltd certifies that the Plenum / Plug Fans Model AFPF108 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.

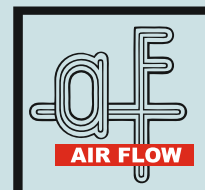
Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
25282	161	900	3.398	96	99	100	90	89	88	78	64	93	34
21651	393	900	4.072	94	97	97	88	86	82	75	66	89	27
17643	584	900	4.310	94	97	96	86	83	81	75	66	87	25
12276	694	900	3.861	104	104	97	87	84	80	72	62	88	27

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



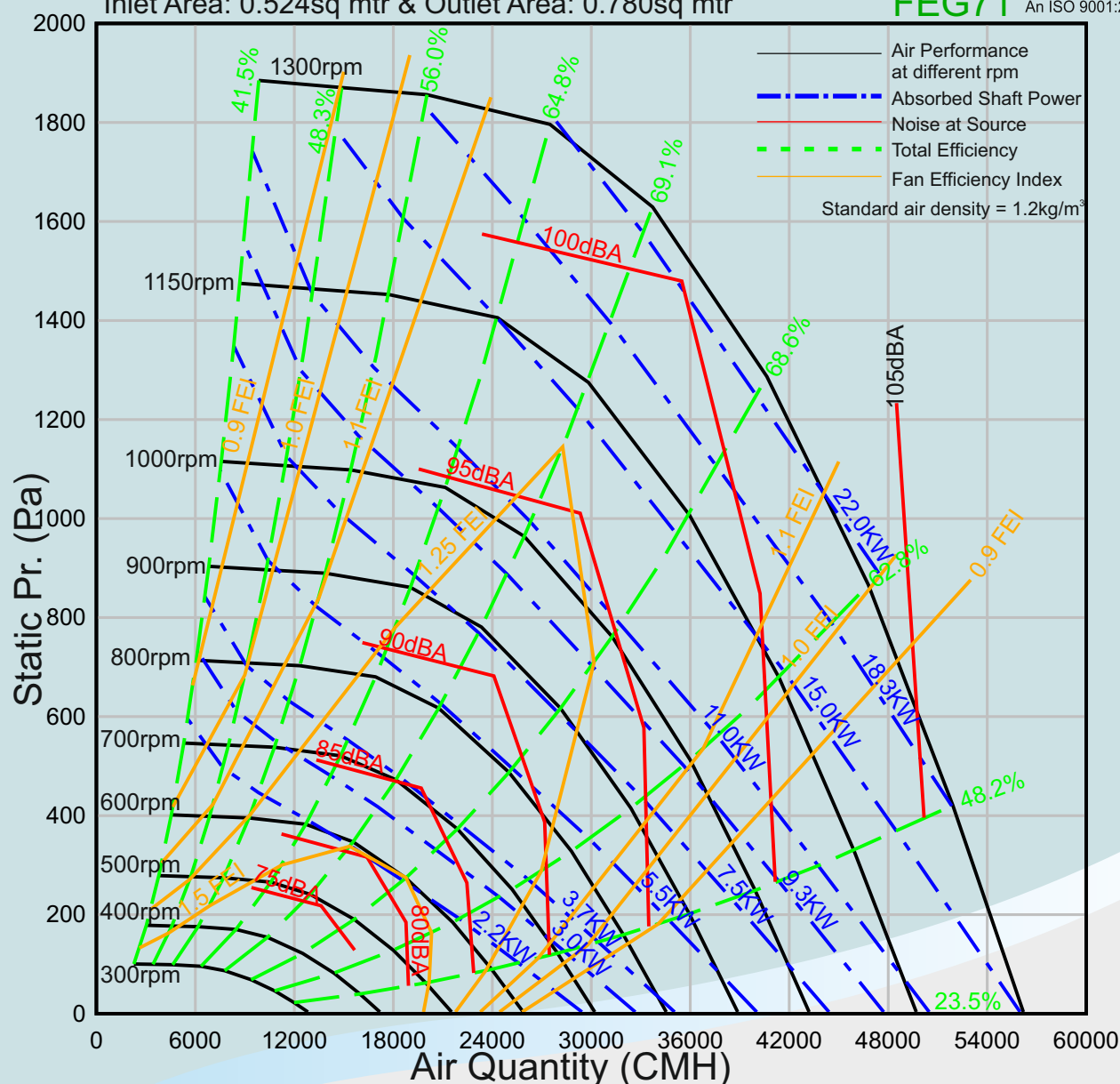


# AFPF-108-900

Inlet Area: 0.524sq mtr & Outlet Area: 0.780sq mtr

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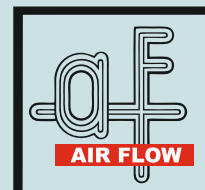
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Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
35923	203	900	6.102	100	103	104	94	93	92	82	68	97	42
30763	496	900	7.312	98	101	101	92	89	86	79	69	93	34
25068	738	900	7.740	98	101	99	89	87	85	78	69	91	31
17443	877	900	6.934	108	108	101	91	88	84	76	66	92	34

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

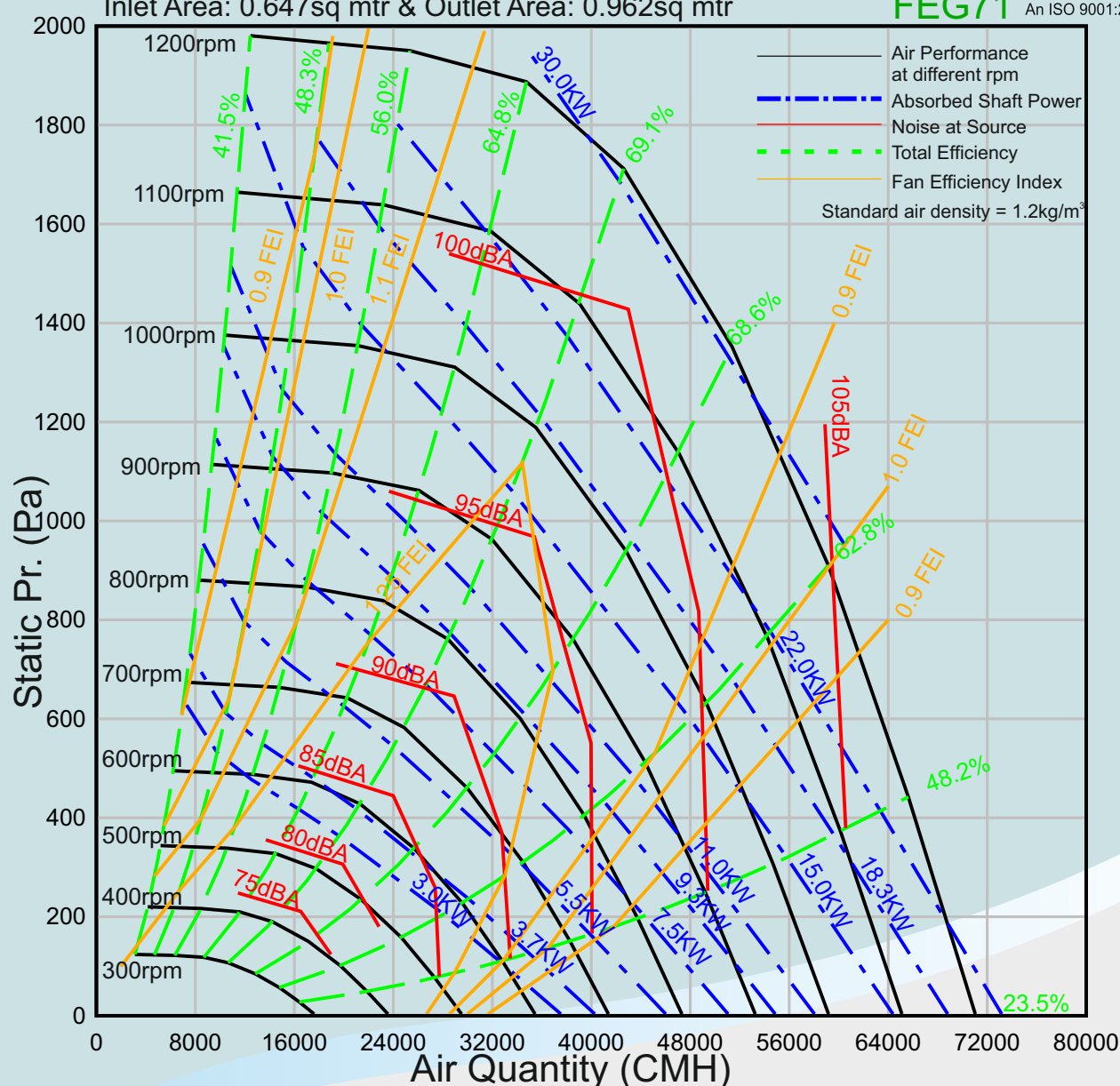
The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



# AFPF-108-1000

Inlet Area: 0.647sq mtr & Outlet Area: 0.962sq mtr

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Performance certified is for installation type A - Free inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet Lwo and LwoA sound power levels for Installation Type A: free inlet, free outlet.

CMH	St.Pr. (Pa)	RPM	BKW	Sound Power Levels (Lwo) - dB								Overall (LwoA) - dBA	Loudness in Sones
				63	125	250	500	1000	2000	4000	8000		
49195	250	900	10.305	104	107	107	97	96	95	85	71	100	53
42129	612	900	12.348	102	105	105	95	92	89	82	73	96	42
34330	911	900	13.072	102	105	103	92	90	88	81	72	94	38
23888	1081	900	11.710	112	111	104	94	91	87	79	69	95	42

The sound power level ratings shown are in decibels, referred to 10<sup>-12</sup> watts, calculated per AMCA International Standard 301.

The sound ratings shown are loudness values in fan sones at a distance of 1.5m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for Installation Type A: free outlet hemispherical sone levels.



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