

# Axial Flow Fans



An ISO 9001:2008 Company

AFPV4GAX

# AFPV4GAX Photographs



Fan Model	Fan Dia (mm)	No. of Blades
AFPV4GAX-900-280-6	900mm	6nos
AFPV4GAX-1000-311-6	1000mm	6nos
AFPV4GAX-1120-348-6	1120mm	6nos
AFPV4GAX-1250-389-6	1250mm	6nos
AFPV4GAX-1325-412-6	1325mm	6nos
AFPV4GAX-1400-436-6	1400mm	6nos
AFPV4GAX-1500-467-6	1500mm	6nos
AFPV4GAX-1600-498-6	1600mm	6nos
AFPV4GAX-1800-560-6	1800mm	6nos
AFPV4GAX-2000-622-6	2000mm	6nos



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# Company Profile

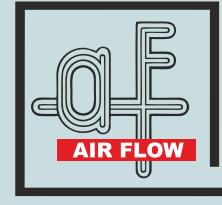
We “Efforts combined with a sincere selfless commitment and continuous pursuance of excellence Translate into Success;”

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, Vane Axial Flow, Plug 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.

Not only did we set new benchmarks in achieving the Exova for our Axial Flow Fans, we happen to be the sole manufacturers of the one of a kind UL Listed Axial Flow fans in the Aisa Certified by Underwriters Laboratories in accordance with UL-705. Now-a-days, the UL Fans has become important part of basement ventilation.

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’



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# Introduction



Air flow Pvt Ltd certifies that the Axial flow fans AFPV4GAX series shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Covers a wide range of volumetric flow and pressure conditions. Fans are Aluminum alloy impellers with adjustable blade. The blade pitch is field adjustable to suiting site conditions.

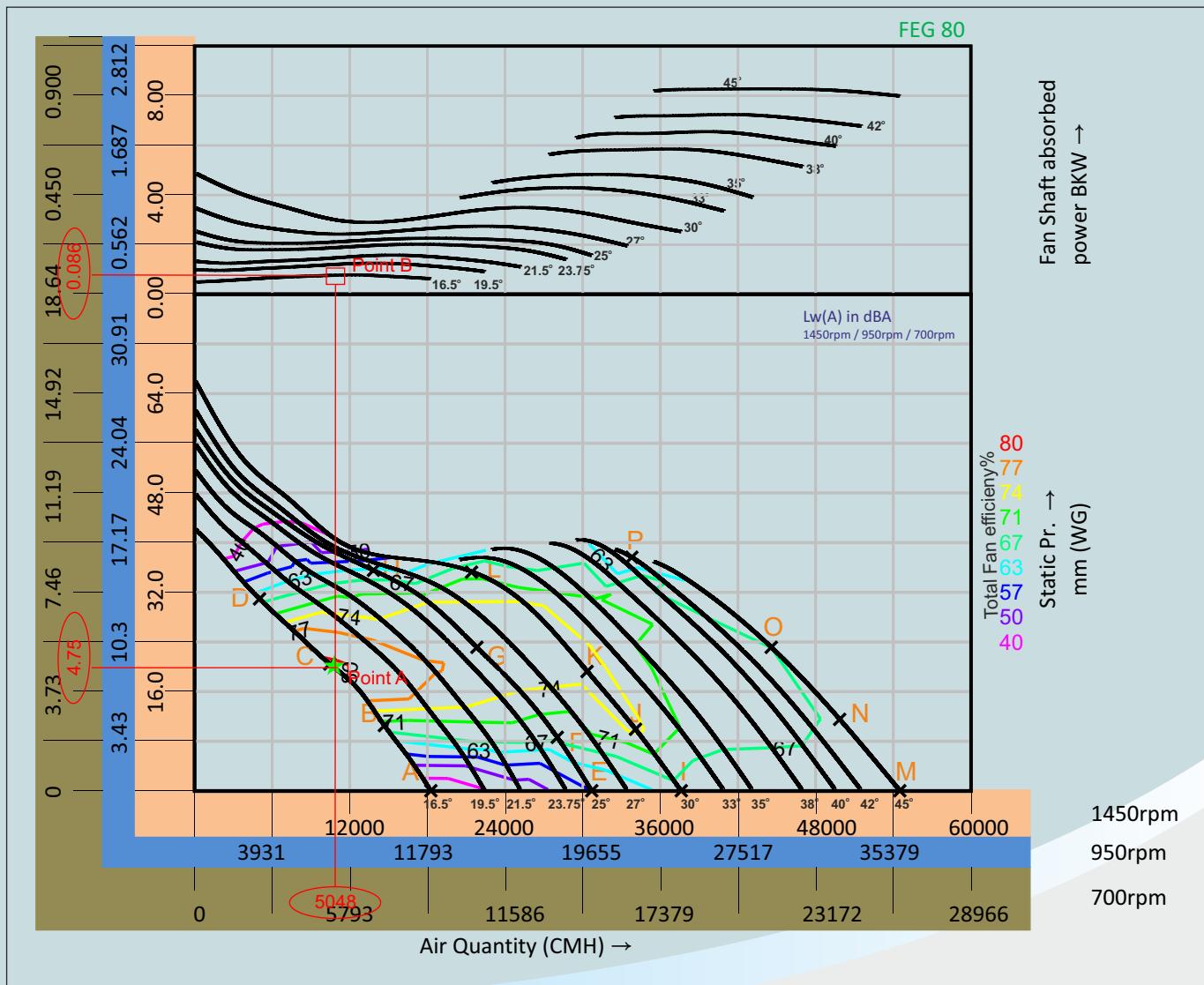
## Features

- a) High efficiency
- b) Quality raw materials
- c) Versatile construction
- d) 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.
- i) Minimum space and weight

# Example Graph



Example: AFPV4G-900 @ 700rpm

Desired point: 5048CMH, 4.75mmWG Static Pressure

#### How to determine Blade pitch setting:

1. Select rpm scale to determine desired duty point (700rpm scale)
2. Enter Bottom scale with CMH (5048) and go vertically upto the region of Fan BKW
3. Enter left with static pressure (4.75mm WG) and horizontally right
4. Where CMH and Static Pressure intersect is the operating point. Select Blade pitch angle (16.5.0deg) from this (Point A)

#### How to determine Fan shaft absorbed power

4. Starting at the operating point found in step4, follow the CMH until intersecting the Fan BKW line corresponding to blade pitch found in step4 (Point B)
5. From this point go horizontally left and read brake kilowatt (0.0806KW) in 950rpm scale on the Fan BKW scale. Use this Brake Kilowatt to select Motor Kilowatt.
6. To determine Noise power level at duty point from nearby noise selection value at 700rpm of 78dBA.
7. Total Efficiency of Fan at this duty point is 80.6%.



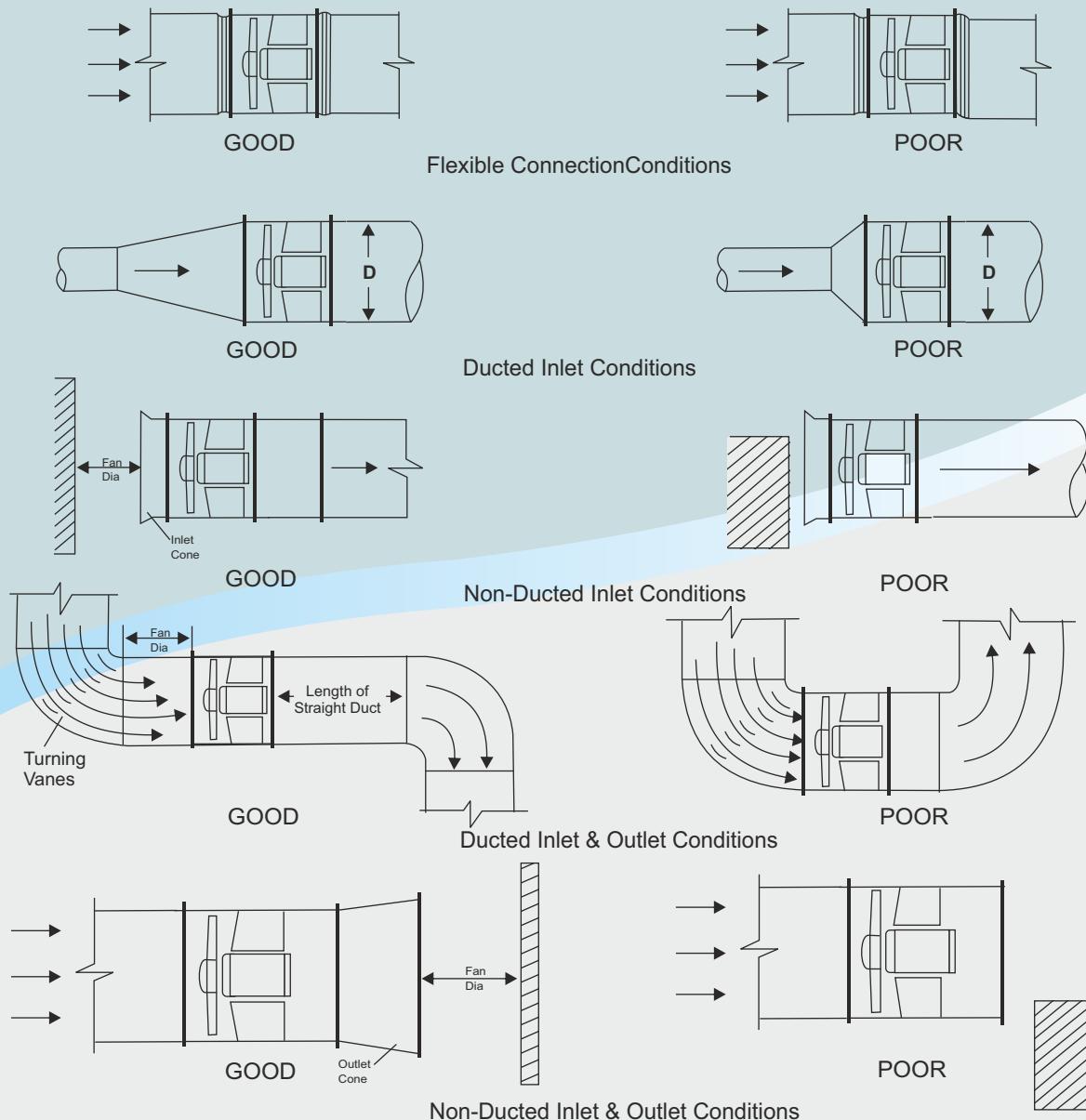
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# System Effects

## Factors affecting Air Performance

**System Effect:** A pressure loss which recognizes the effect of fan inlet restrictions, fan outlet restrictions or other conditions influencing fan performance when installed in the system. Duct elbows, transitions or other disruptions to uniform airflow may contribute to system effect, by the proximity to walls, beams and other obstruction to air flow in case of unducted fans. For a quantitative discussion of system effects refer to AMCA Publication 201 - Fans and Systems.

The diagram below shows some more common causes of system effect.





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

### 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. (M <sup>3</sup> /S)	Cubic Meters/Hr. (M <sup>3</sup> /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

$$1 \text{ lb/ft}^3 = 16.018 \text{ kg/m}^3$$

#### TIP SPEED

$$1 \text{ fpm} = .0051 \text{ m/s}$$



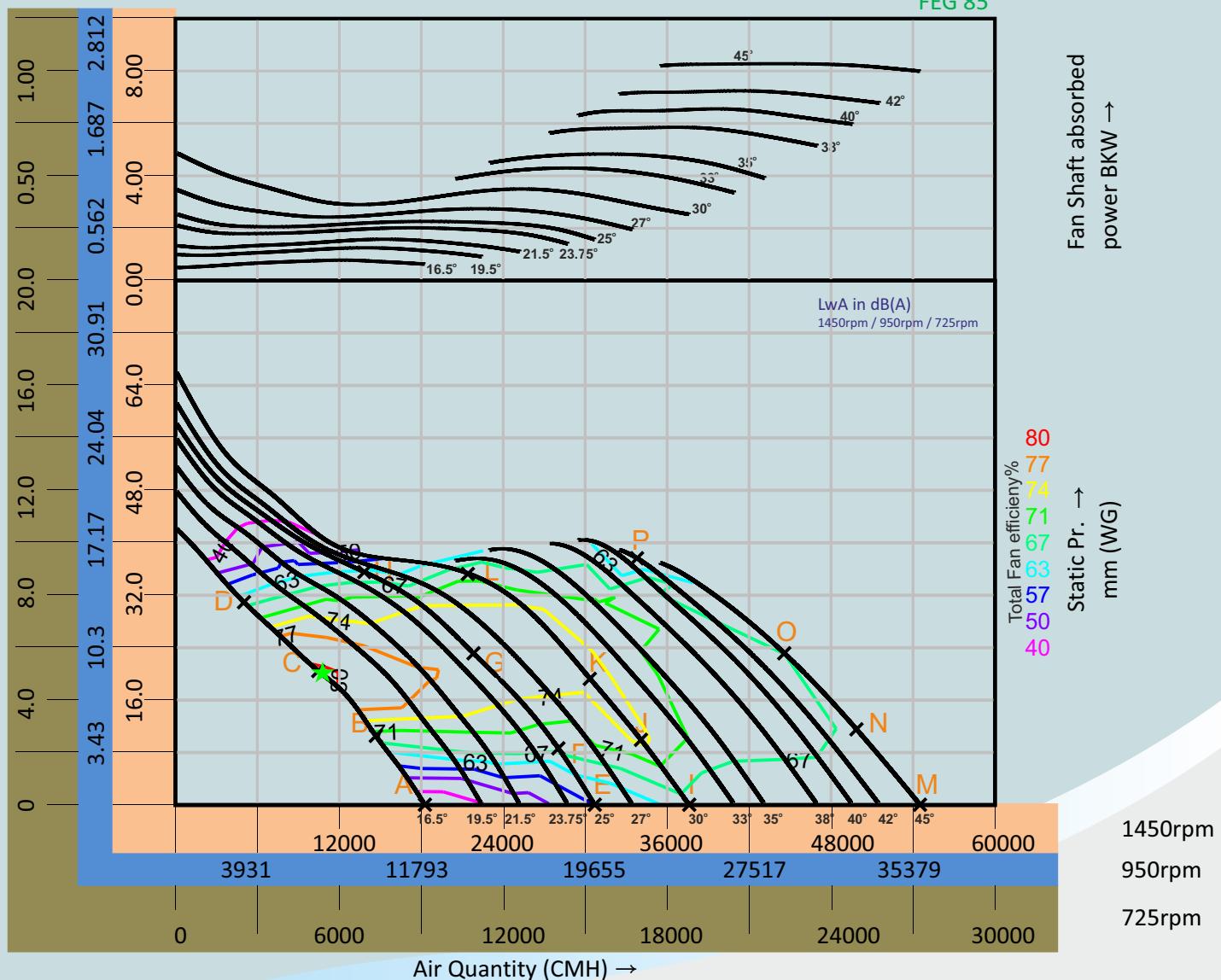
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■ FAN MODEL : AFPV4GAX-900-280-6

50Hz

Fan outlet and Inlet area: 0.6364 sq. mtr.

FEG 85



<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GAX 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.
SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX SII: NOISELESS EED: CONTROL RELIABILITY INTERTECHNOLOGIES, INC. <sup>®</sup>	SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX SII: NOISELESS EED: CONTROL RELIABILITY INTERTECHNOLOGIES, INC. <sup>®</sup>	Performance certified is for installation type D - Ducted inlet, Ducted 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 inlet Lwi and inlet LwiA sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts, calculated per AMCA International Standard 301.

LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm									
	A	E	I	M	N	O	P									
80 / 86 / 96	76 / 82 / 92	76 / 82 / 92	76 / 82 / 92	80 / 86 / 97												
81 / 88 / 99	75 / 81 / 91	75 / 81 / 91	75 / 81 / 91	80 / 86 / 97												
79 / 86 / 98	81 / 88 / 99	75 / 82 / 92	75 / 82 / 92	80 / 86 / 97												
74 / 81 / 91	83 / 90 / 102	86 / 93 / 104	86 / 93 / 104	83 / 90 / 101												
St. Pr. CMH	mmWG	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	63	125	250	500	1000	2000	4000	8000	Overall	Loudness in Sones	FEI	Blade Angle
5229	5.09	725	0.096	80	90	86	81	72	68	66	65	79	19	3.366	16.5°	
2510	7.73	725	0.081	84	78	76	75	69	66	63	61	74	14	2.481	16.5°	
14026	15.13	950	0.946	84	88	96	96	87	81	76	71	93	34	1.784	30.0°	
22329	4.26	950	0.807	82	84	82	81	75	73	73	72	81	22	2.362	30.0°	

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

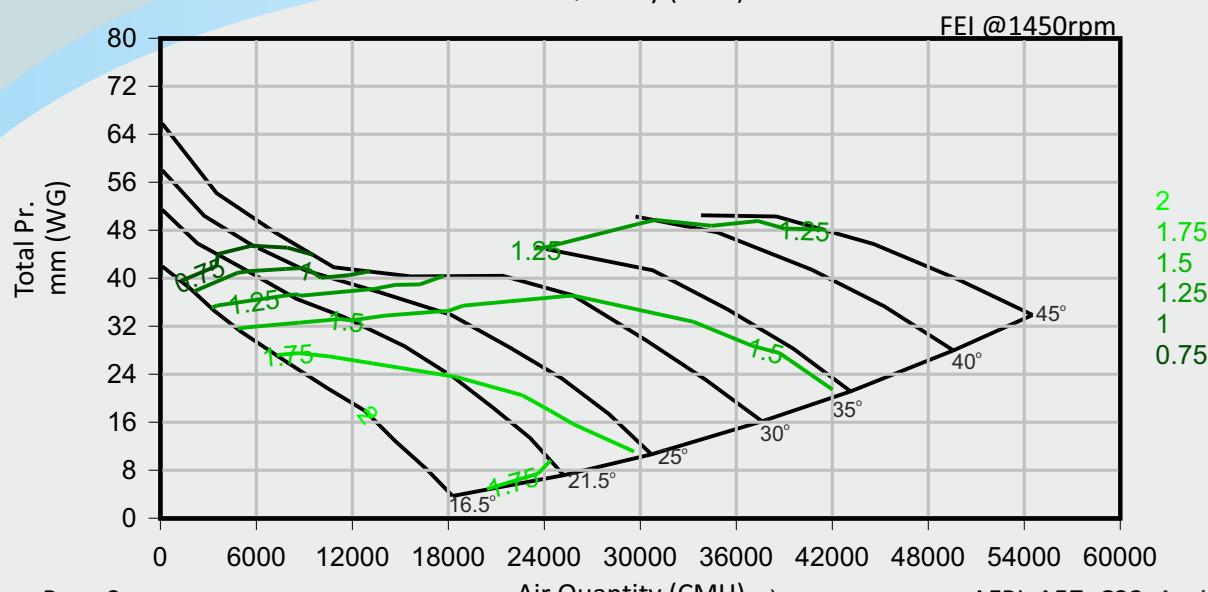
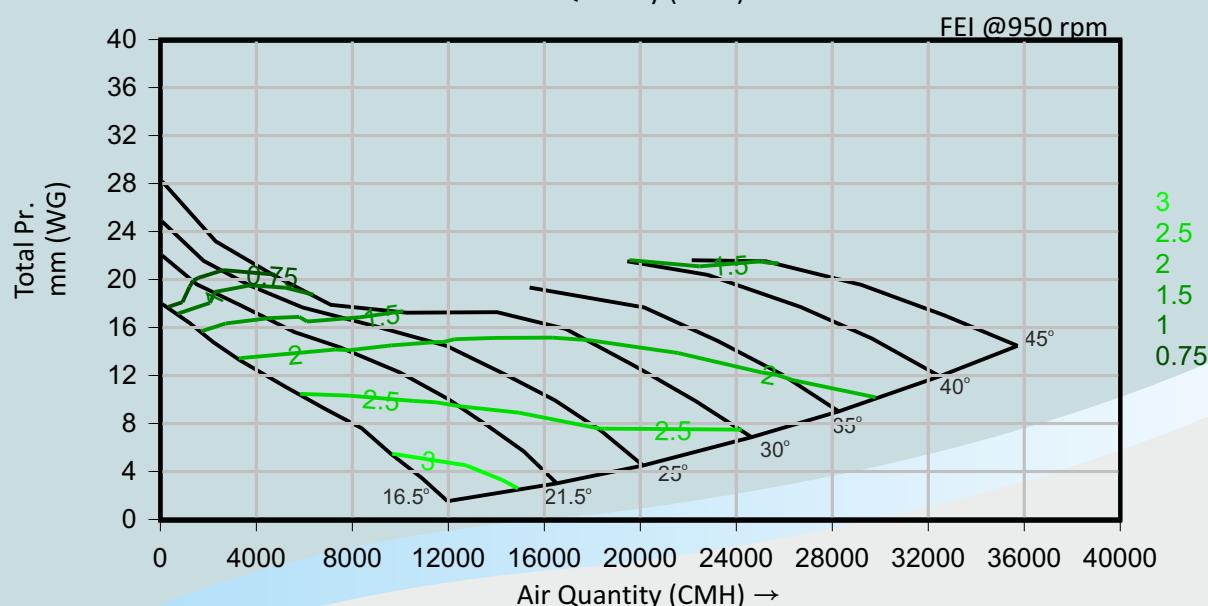
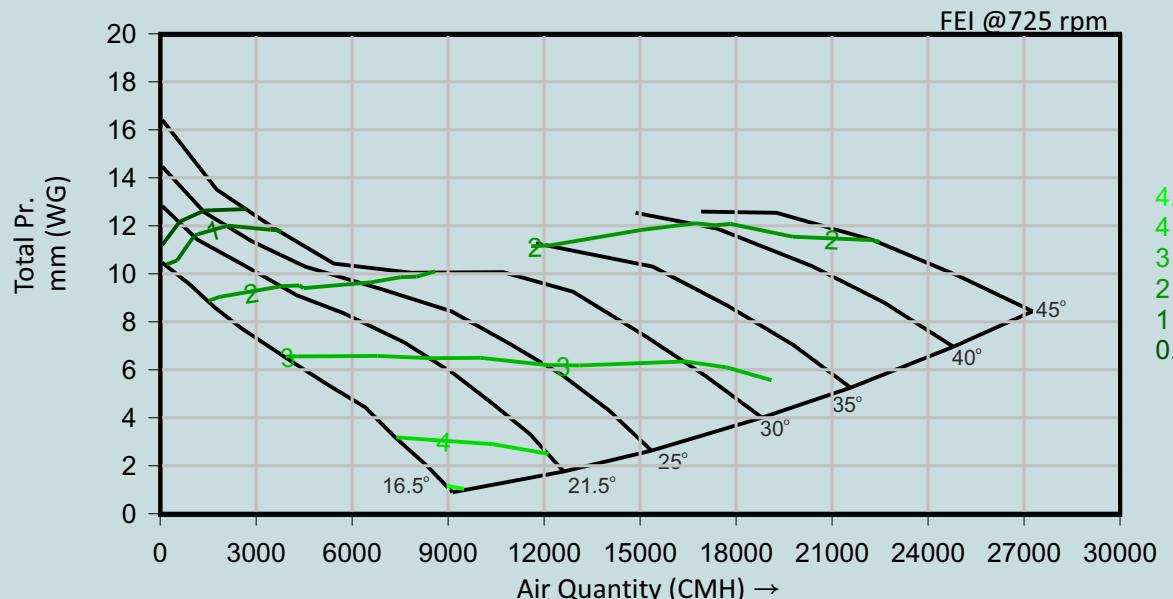


■ FAN MODEL : AFPV4GAX-900-280-6

50Hz

Fan outlet and Inlet area: 0.6364 sq. mtr.

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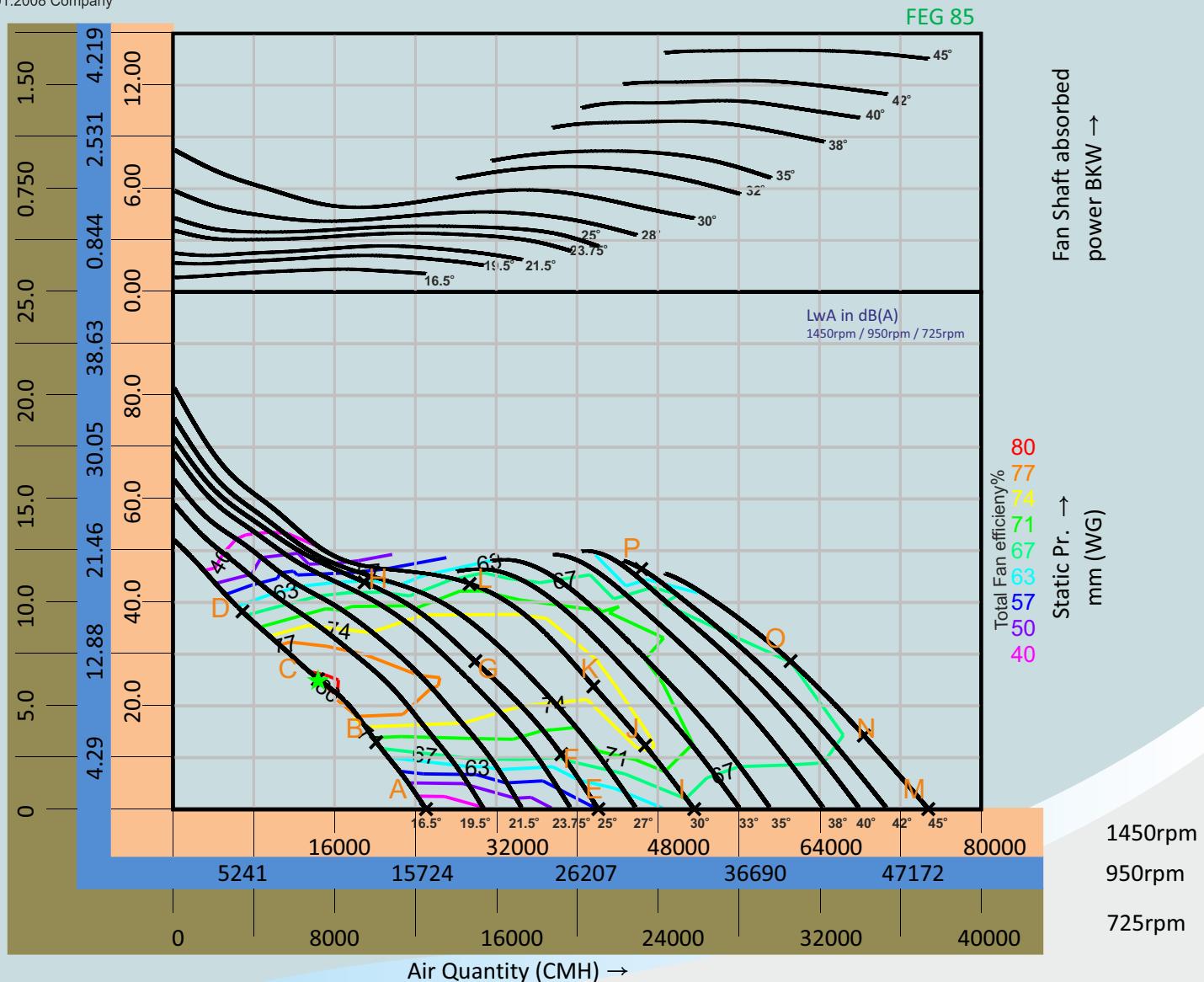


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■ FAN MODEL : AFPV4GAX-1000-311-6

50Hz

Fan outlet and Inlet area: 0.7857 sq. mtr.



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LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm		
	St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	FEI	Blade Angle	
7172	6.29	725	0.162	63 125 250 500 1000 2000 4000 8000	71 69 68 83	22	3.069	16.5°	
3444	9.55	725	0.137	87 82 80 78 72 69 67 64	77	17	2.262	16.5°	
19240	18.68	950	1.602	87 91 99 100 91 85 79 74	96	41	1.639	30.0°	
30630	5.26	950	1.367	86 88 85 84 79 76 76 76	84	26	2.125	30.0°	

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

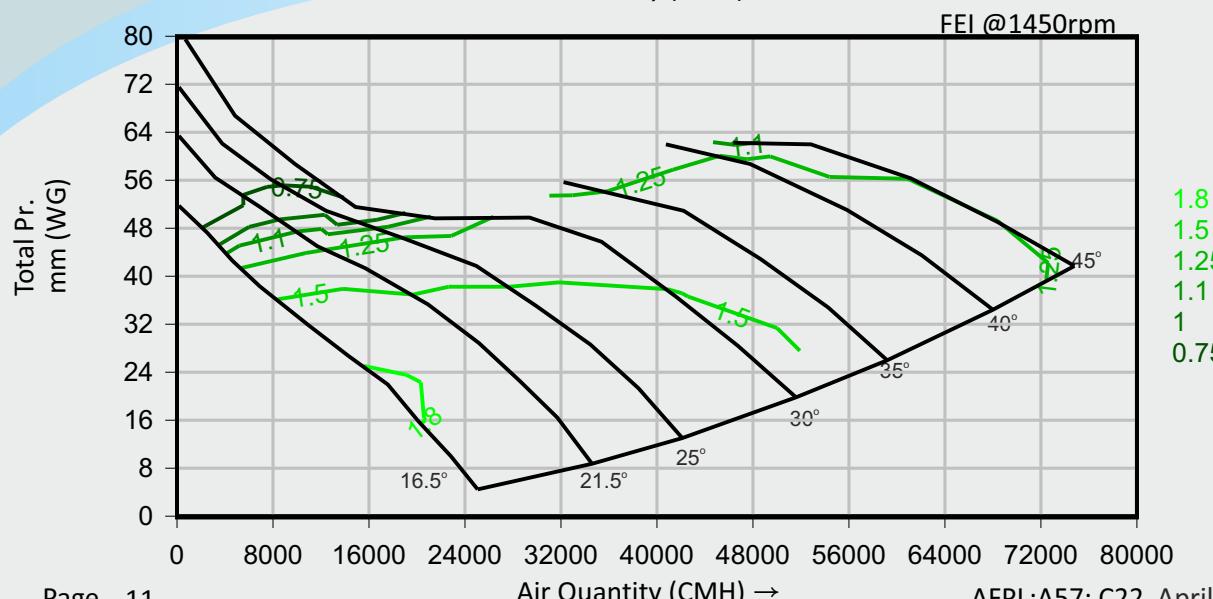
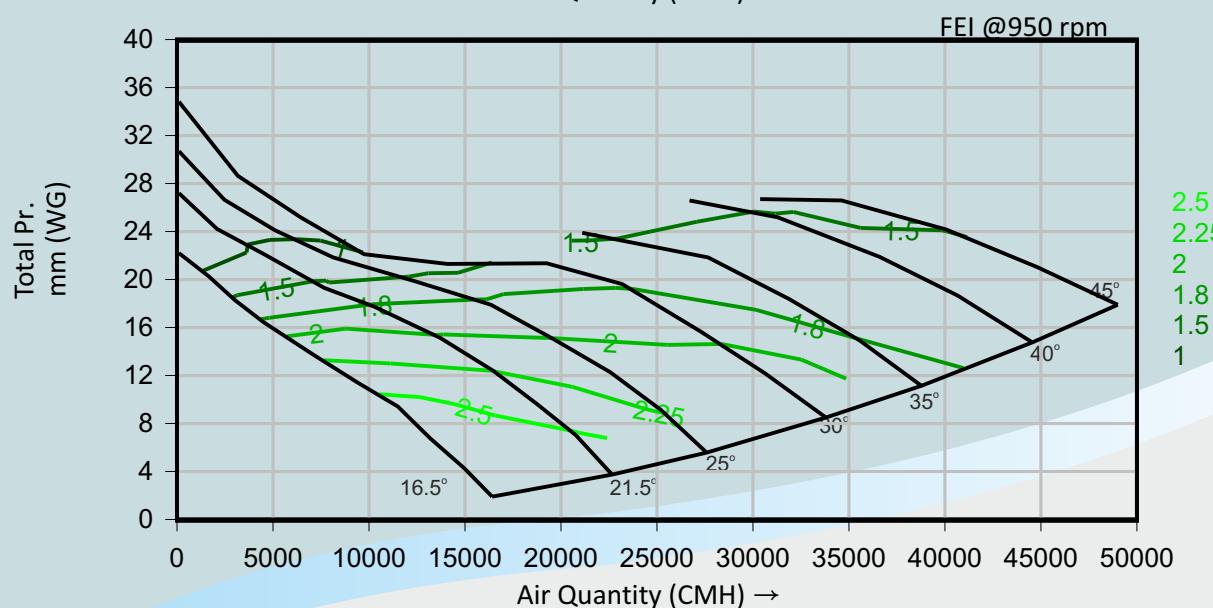
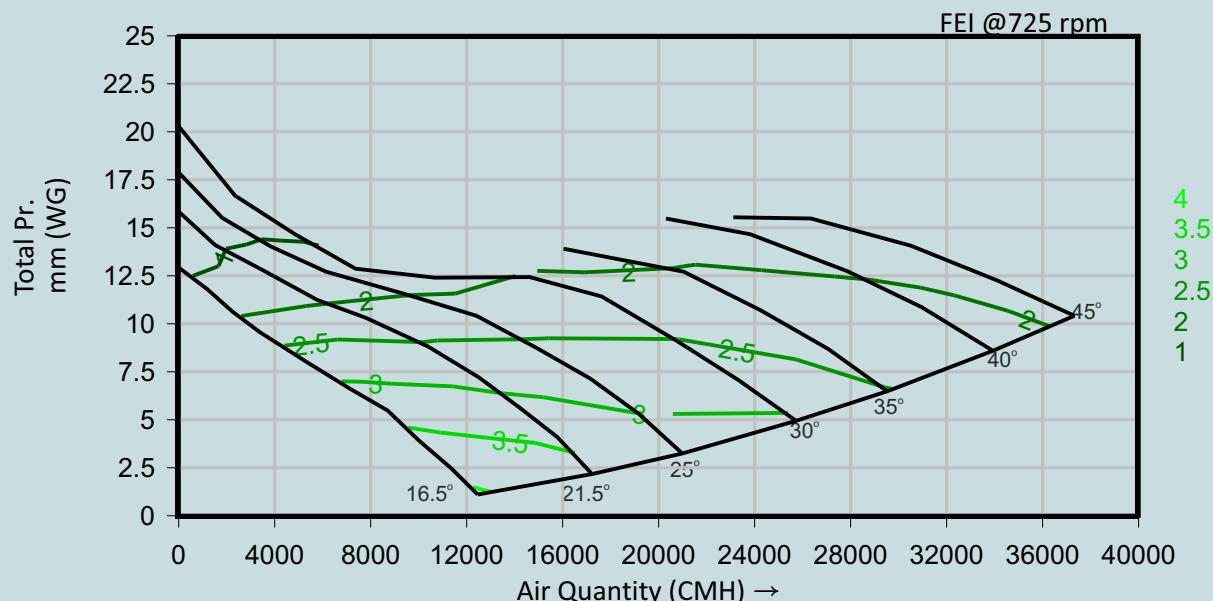


■ FAN MODEL : AFPV4GAX-1000-311-6

50Hz

Fan outlet and Inlet area: 0.7857 sq. mtr.

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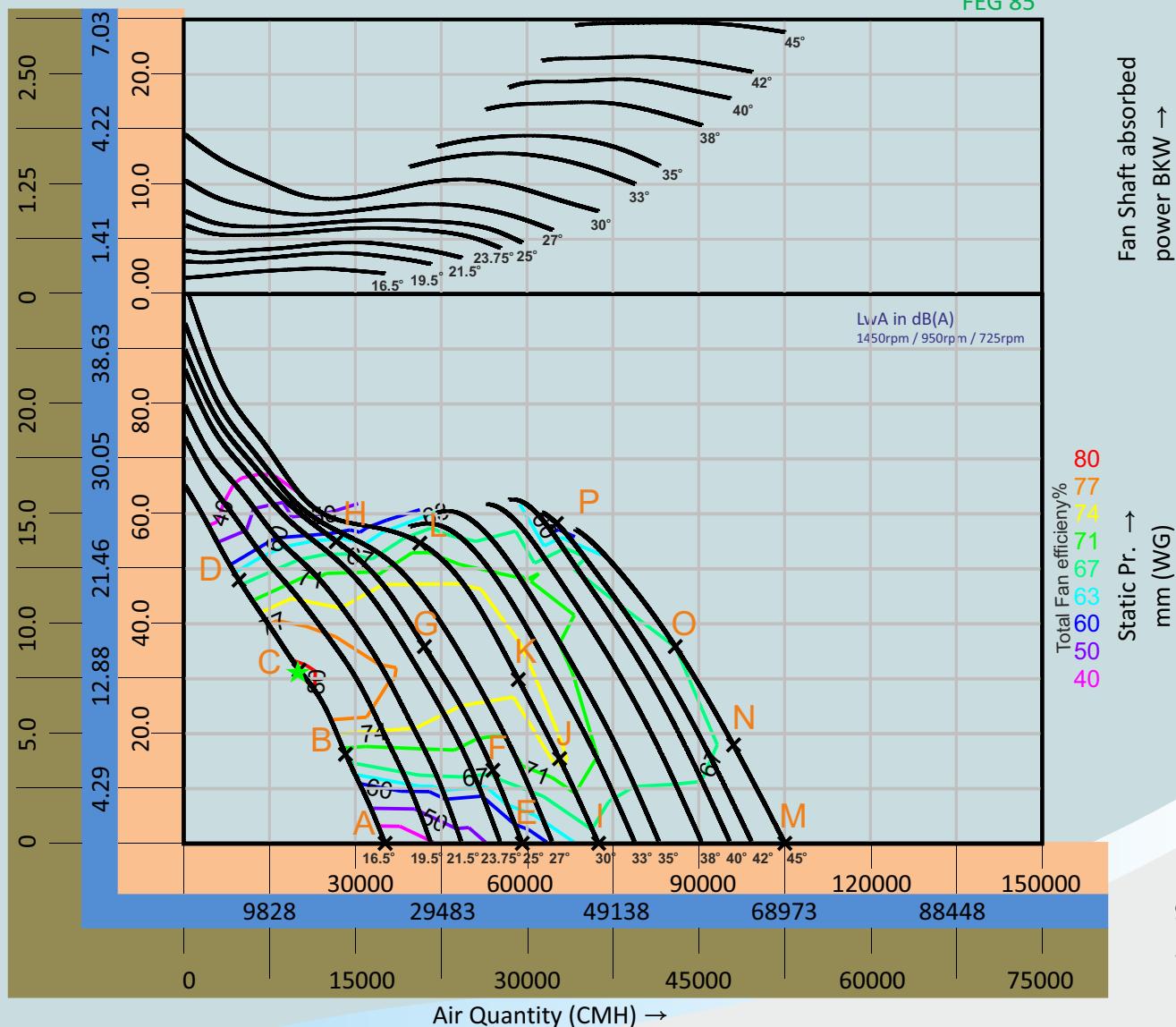
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■ FAN MODEL : AFPVGAX-1120-348-6

50Hz

Fan outlet and Inlet area: 0.9856 sq. mtr.

FEG 85



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LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm									
	St. Pr. CMH	RPM	BKW mmWG	Sound Power Levels A-weighted (Lwi) dB	63	125	250	500	1000	2000	4000	8000	Overall	Loudness in Sones	FEI	Blade Angle
A 86 / 92 / 102	E 82 / 89 / 99	I 82 / 89 / 98	M 86 / 93 / 103													
B 88 / 94 / 105	F 82 / 88 / 98	J 82 / 88 / 98	N 86 / 93 / 103													
C 86 / 93 / 105	G 88 / 95 / 105	K 82 / 88 / 98	O 87 / 93 / 103													
D 81 / 88 / 98	H 90 / 97 / 108	L 92 / 99 / 111	P 90 / 97 / 107													
10077 7.89	725	0.286	87	96	88	79	74	73	71	86	27	2.757	16.5°			
4838 11.98	725	0.241	90	85	83	82	75	72	70	68	20	2.033	16.5°			
27031 23.43	950	2.824	90	94	103	103	94	88	83	78	52	1.521	30.0°			
43033 6.6	950	2.409	89	91	88	88	82	80	79	79	32	1.927	30.0°			

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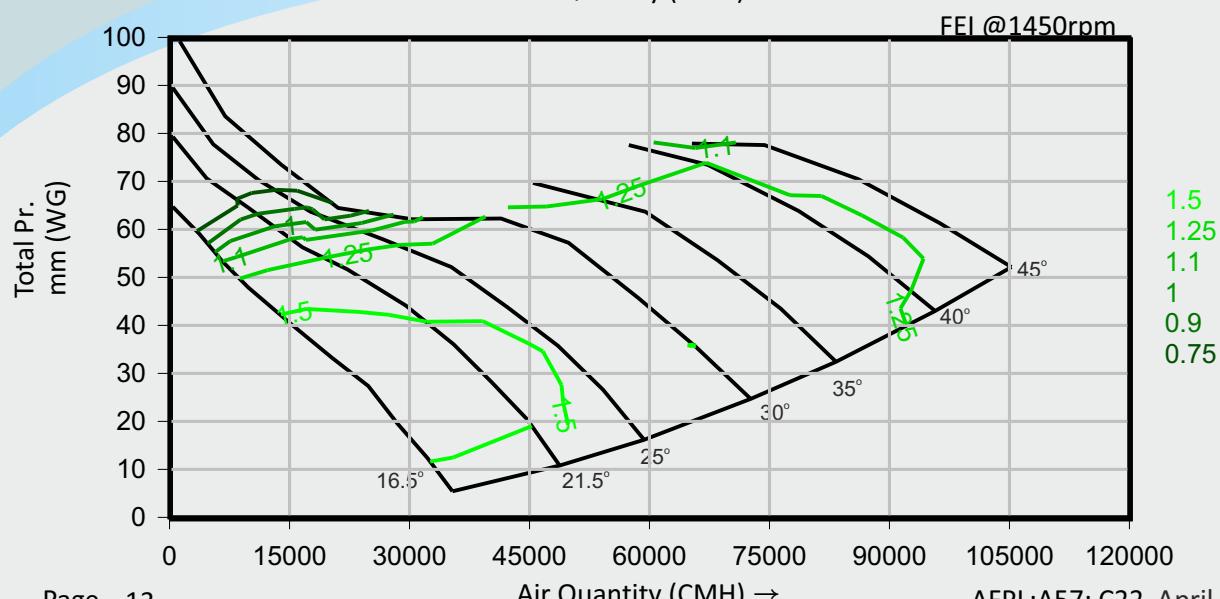
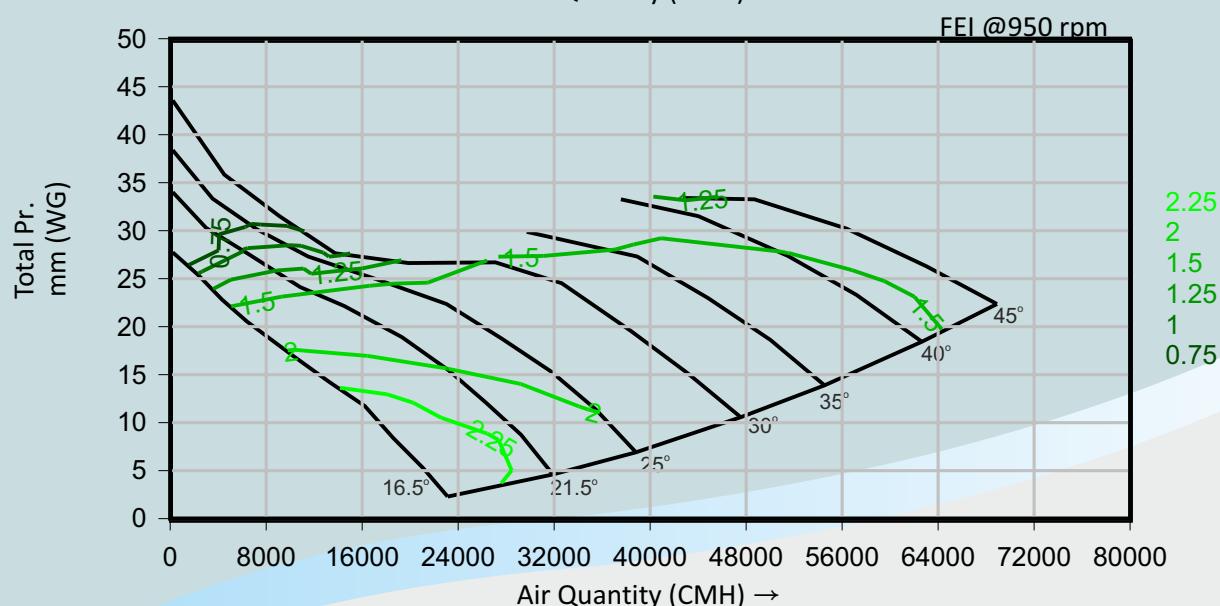
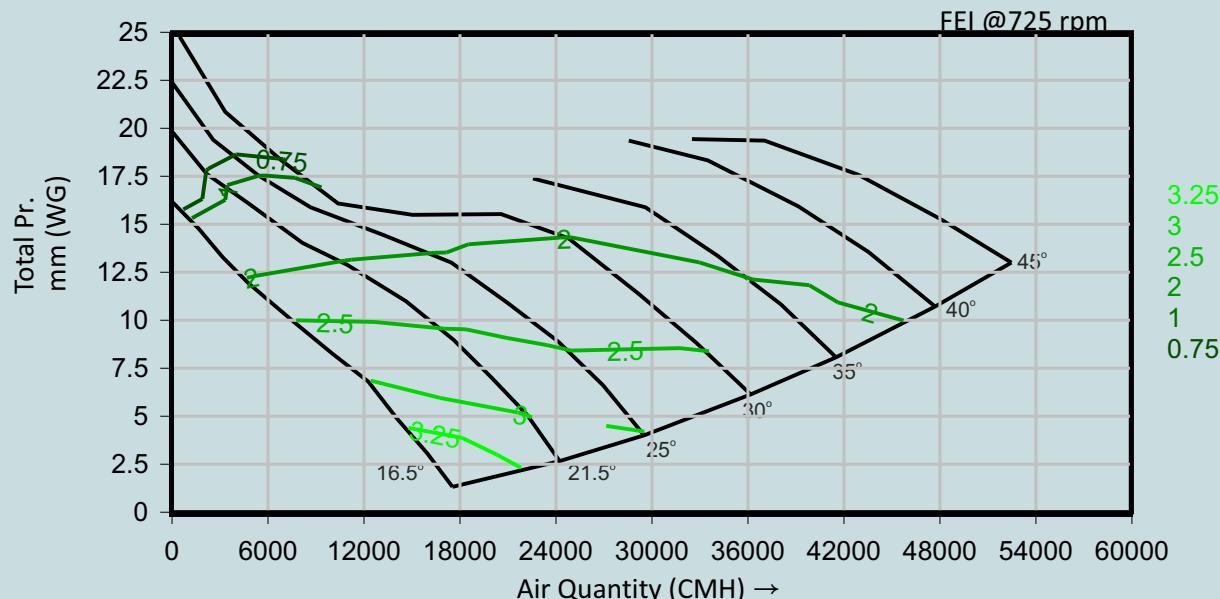


■ FAN MODEL : AFPVGAX-1120-348-6

50Hz

Fan outlet and Inlet area: 0.9856 sq. mtr.

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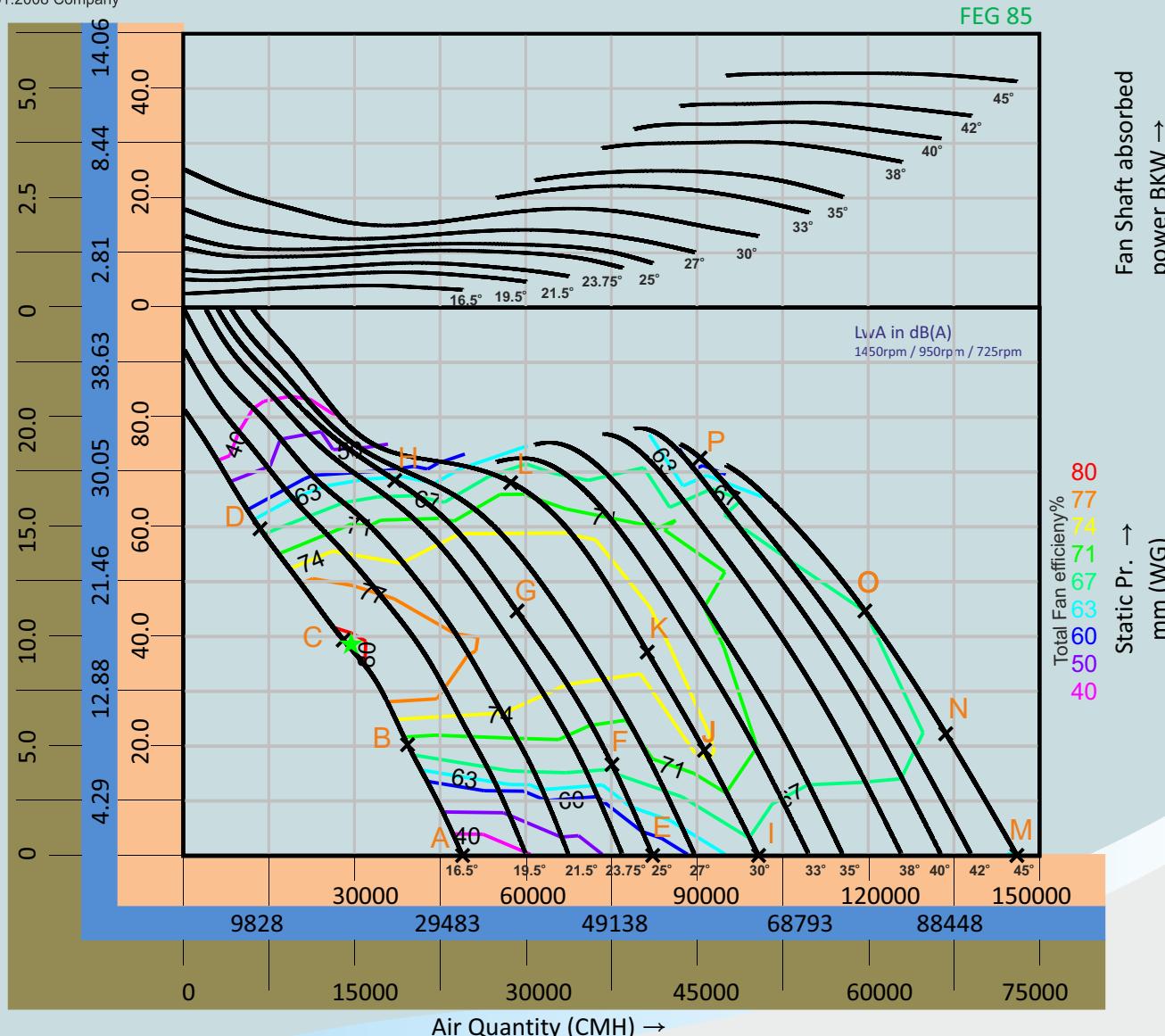


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■ FAN MODEL : AFPV4GAX-1250-389-6

50Hz

Fan outlet and Inlet area: 1.2278 sq. mtr.



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LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm		
	St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lw)	dB	Overall	Loudness in Sones	FEI	Blade Angle
14009 9.82 725 0.495	63	125	250	500	1000	2000	4000	8000	Overall
6726 14.92 725 0.417	90	100	96	91	82	78	76	75	89
37579 29.19 950 4.889	79	88	86	85	79	76	73	71	84
59824 8.22 950 4.171	83	94	92	91	85	83	83	82	91
									32
									2.499
									16.5°
									1.844
									16.5°
									1.435
									30.0°
									39
									1.777
									30.0°

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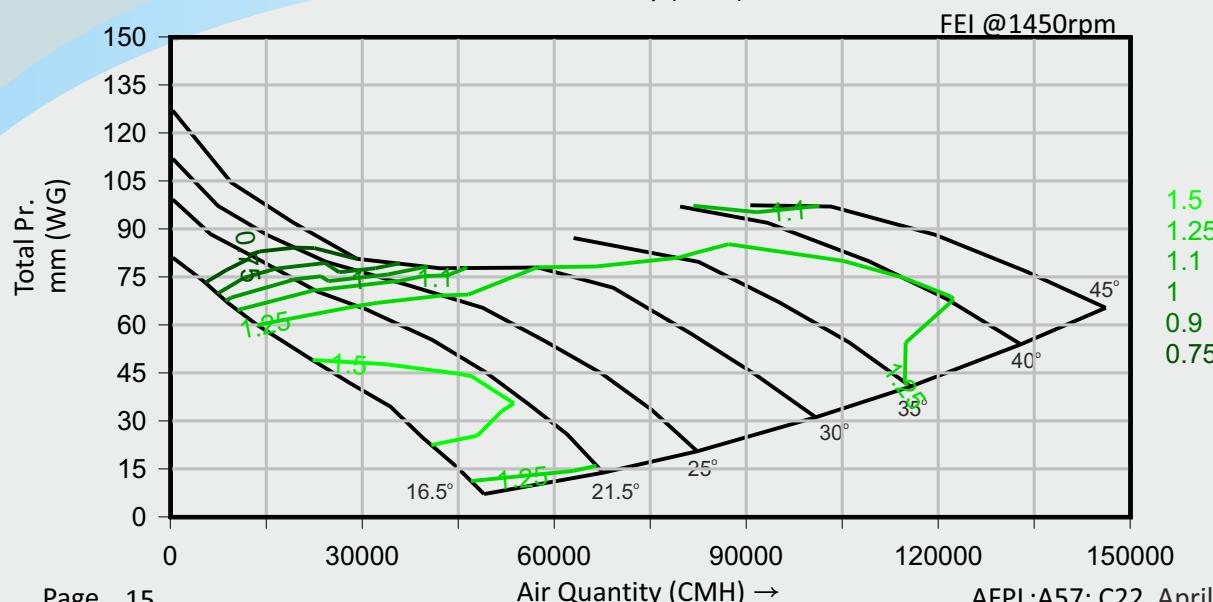
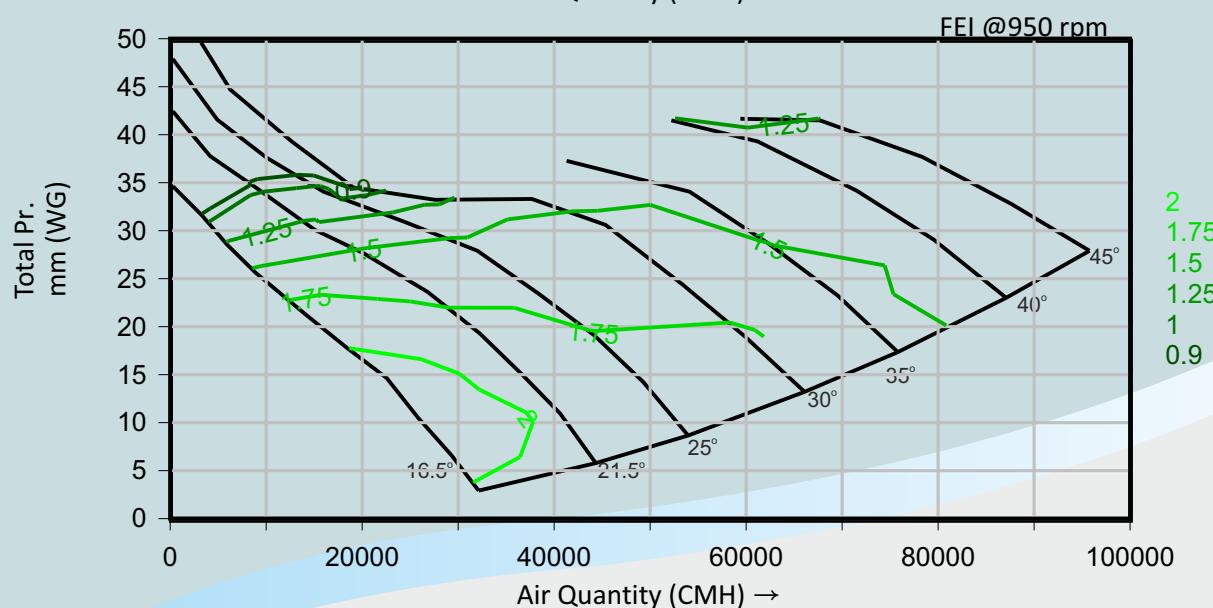
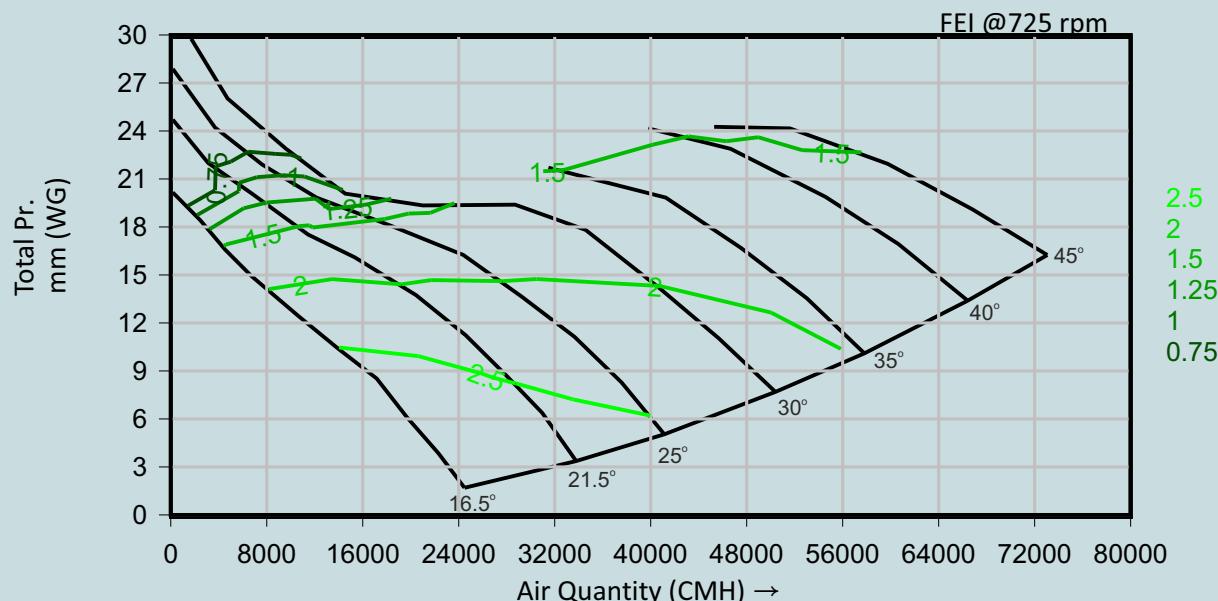


■ FAN MODEL : AFPV4GAX-1250-389-6

50Hz

Fan outlet and Inlet area: 1.2278 sq. mtr.

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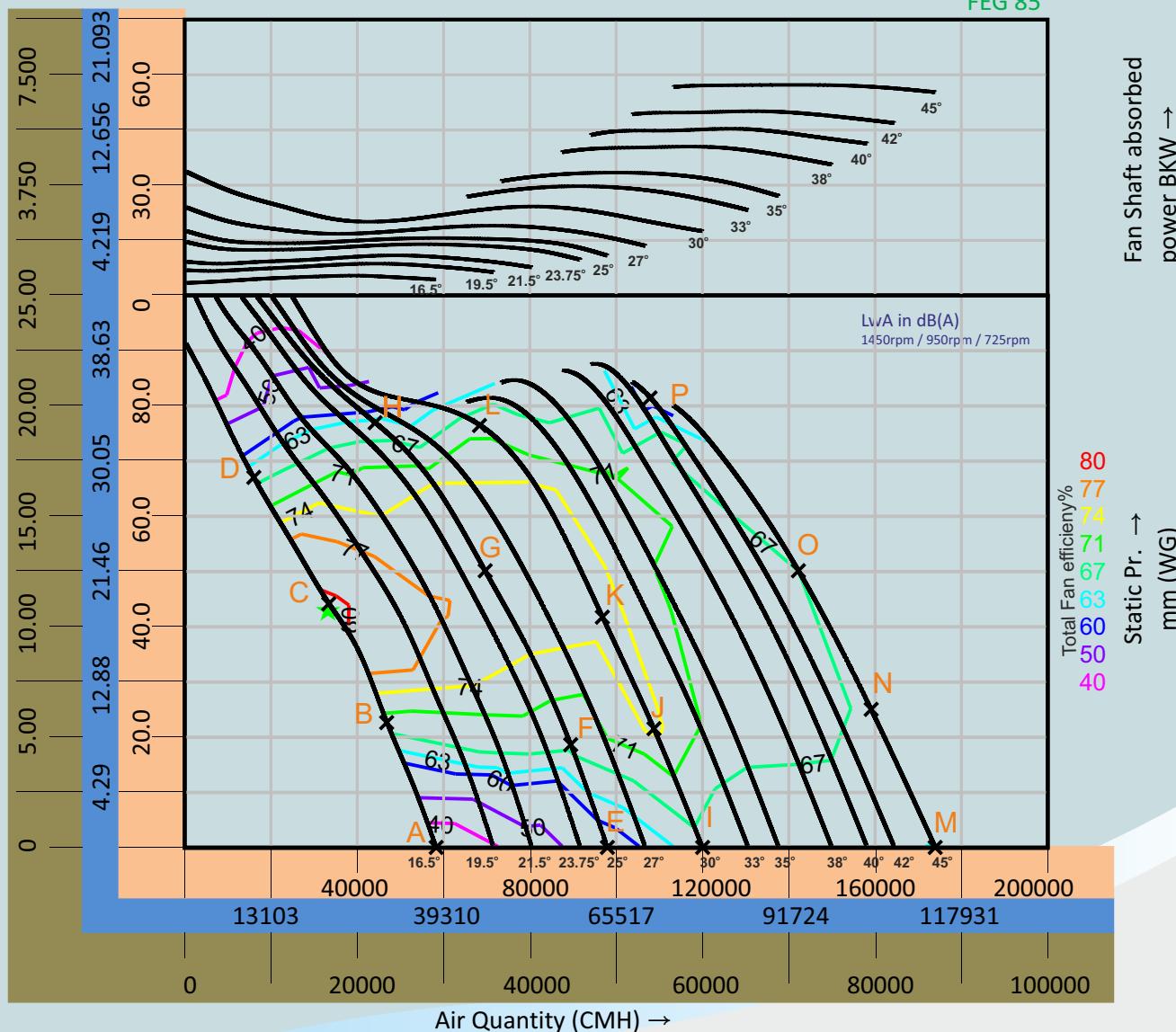
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■ FAN MODEL : AFPV4GAX-1325-412-6

50Hz

Fan outlet and Inlet area: 1.3794 sq. mtr.

FEG 85



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LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm		
	E	I	M	H	J	N	L	O	P
A 91 / 98 / 108	88 / 94 / 104	87 / 94 / 104	91 / 98 / 109						
B 93 / 100 / 110	87 / 93 / 103	87 / 93 / 103	91 / 98 / 108						
C 91 / 98 / 110	93 / 100 / 111	87 / 93 / 103	92 / 98 / 108						
D 86 / 93 / 103	95 / 102 / 113	98 / 104 / 116	95 / 102 / 112						
St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	FEI	Blade Angle		
16685	11.04	725	63 125 250 500 1000 2000 4000 8000	91	36	2.384	16.5°		
8011	16.76	725	0.558 95 90 88 87 80 77 75	86	27	1.761	16.5°		
44757	32.79	950	6.543 95 99 108 108 99 93 88	104	73	1.397	30.0°		
71251	9.24	950	5.582 94 96 94 93 87 85 84	93	43	1.711	30.0°		

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

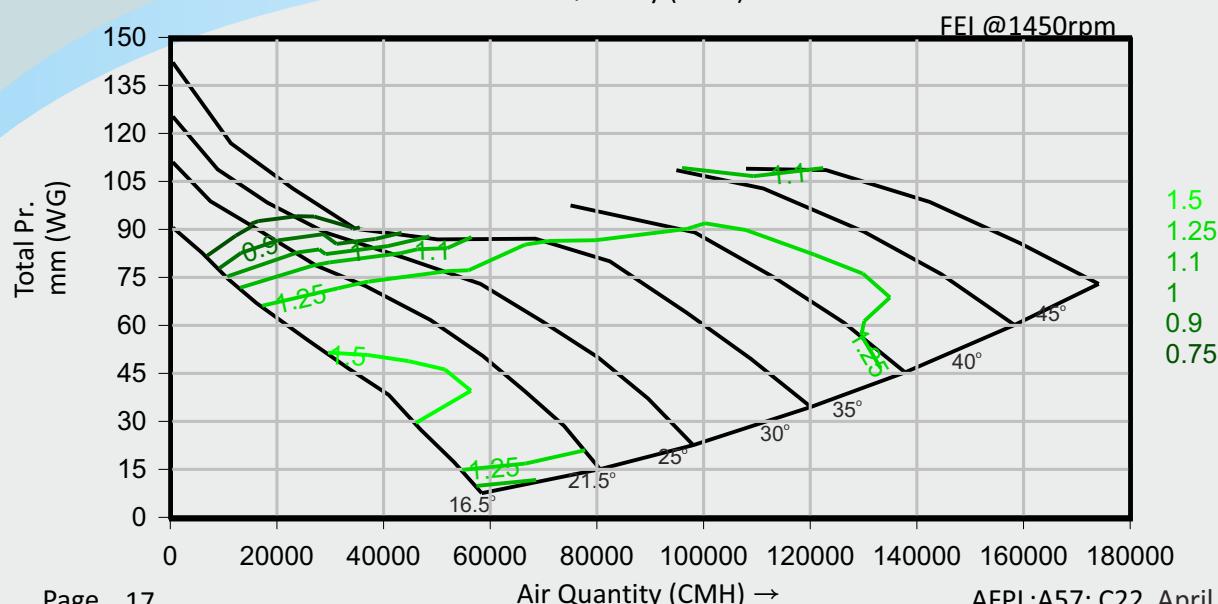
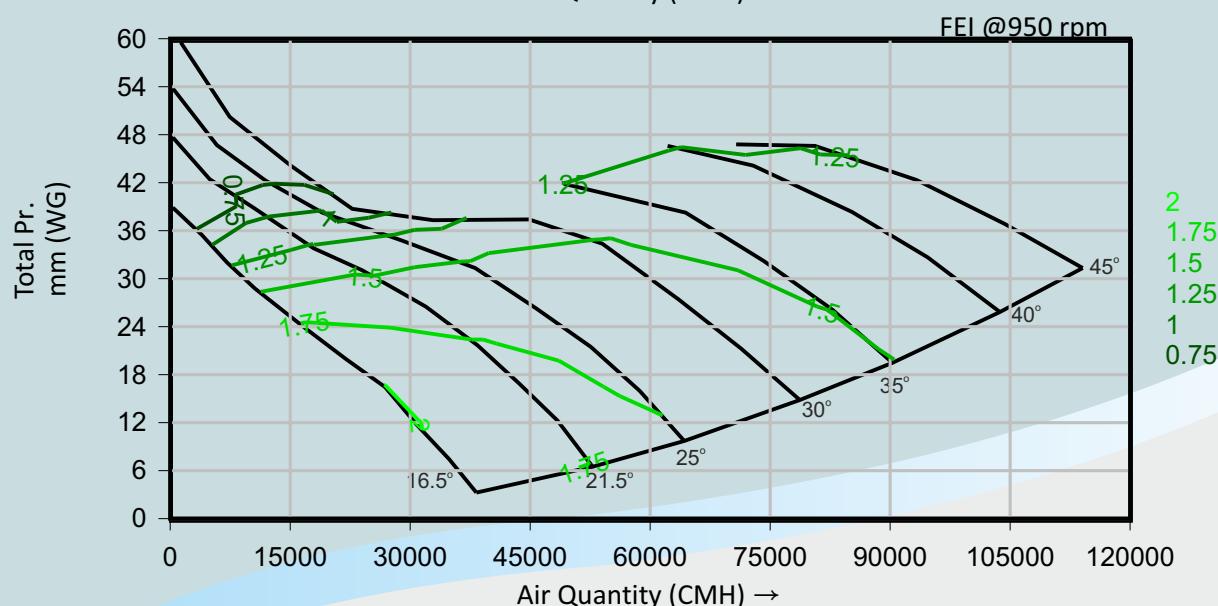
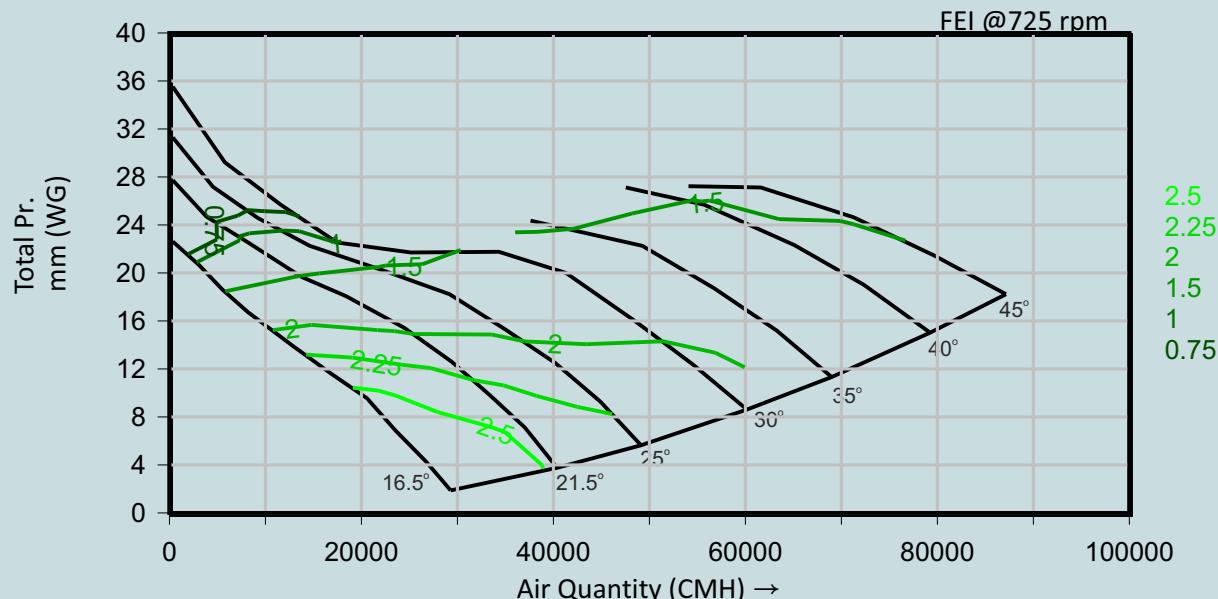


■ FAN MODEL : AFPV4GAX-1325-412-6

50Hz

Fan outlet and Inlet area: 1.3794 sq. mtr.

An ISO 9001:2008 Company





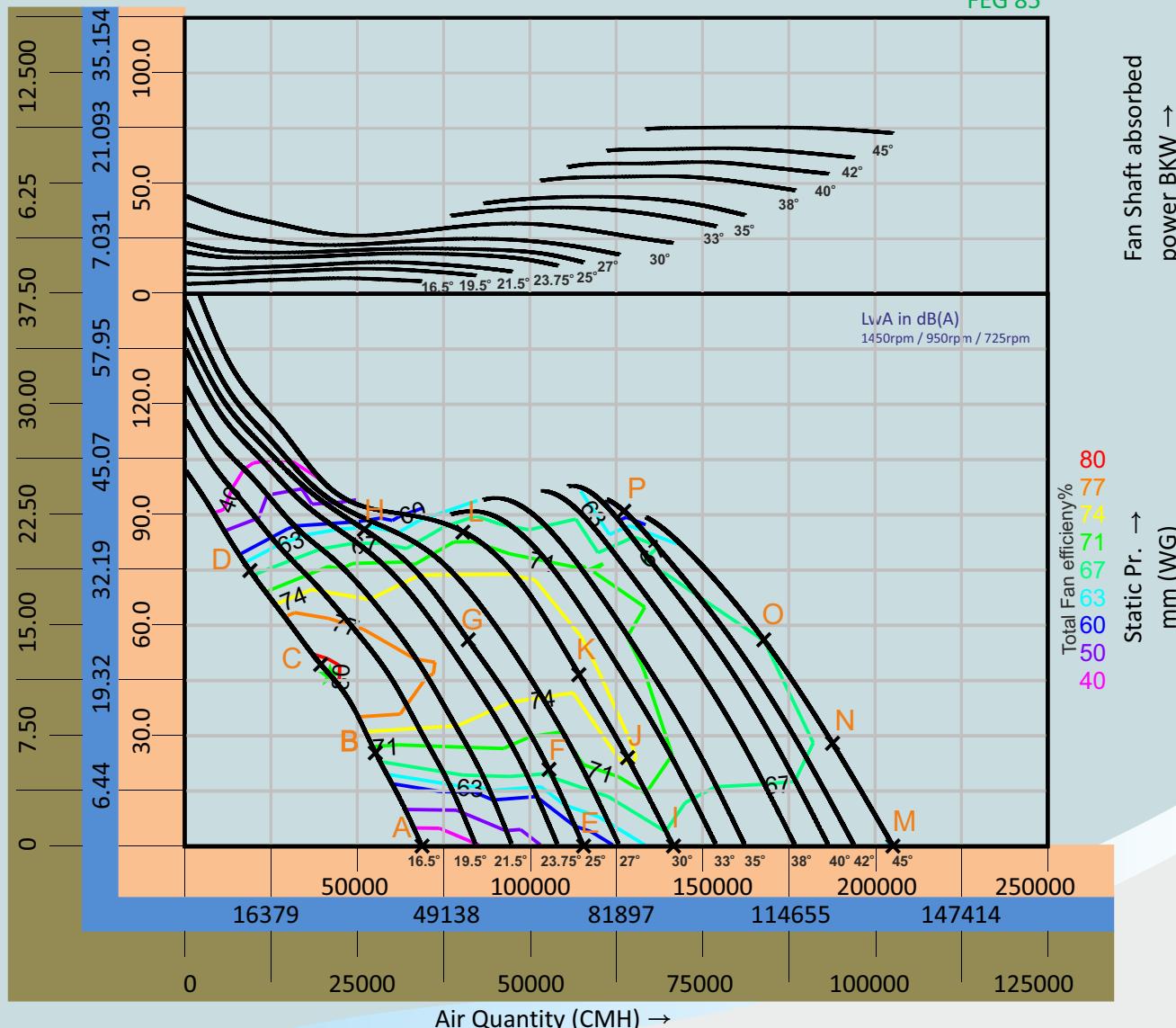
An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GAX-1400-436-6

50Hz

Fan outlet and Inlet area: 1.5400 sq. mtr.

FEG 85



<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GAX 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.
SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	Performance certified is for installation type D - Ducted inlet, Ducted 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 inlet Lwi and inlet Lwia sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts, calculated per AMCA International Standard 301.

LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm		
	E	I	M	H	J	N	L	O	P
A 93 / 99 / 109	89 / 95 / 105	89 / 95 / 105	93 / 100 / 110						
B 95 / 101 / 112	F 89 / 95 / 105	J 88 / 95 / 105	N 93 / 100 / 110						
C 93 / 100 / 112	G 95 / 101 / 112	K 89 / 95 / 105	O 93 / 100 / 110						
D 88 / 94 / 105	H 96 / 103 / 115	L 99 / 106 / 118	P 97 / 103 / 114						
St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	Blade Angle	FEI	Blade Angle	FEI
19681	12.32	0.872	63 125 250 500 1000 2000 4000 8000	93	40	16.5°	2.245	16.5°	
9449	18.72	0.734	94 103 100 94 86 81 79 78	93	30	16.5°	1.695	16.5°	
52795	36.61	8.617	97 92 90 89 82 79 77 75	88	80	30.0°	1.366	30.0°	
84048	10.32	7.352	98 95 95 89 87 86 86 86	95	46	30.0°	1.656	30.0°	

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

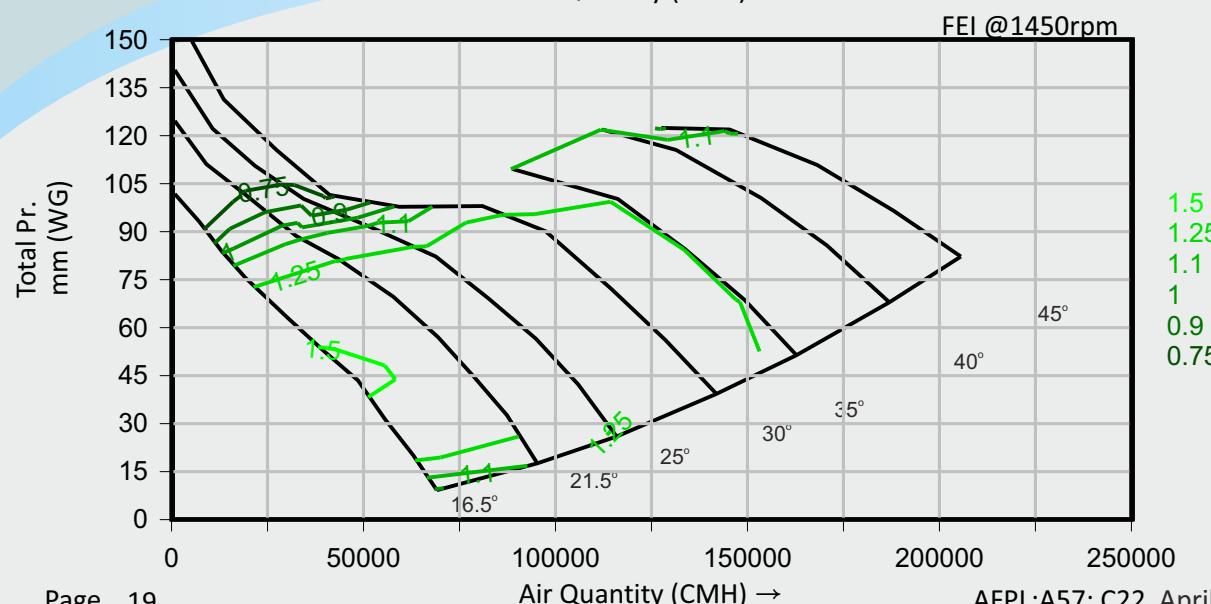
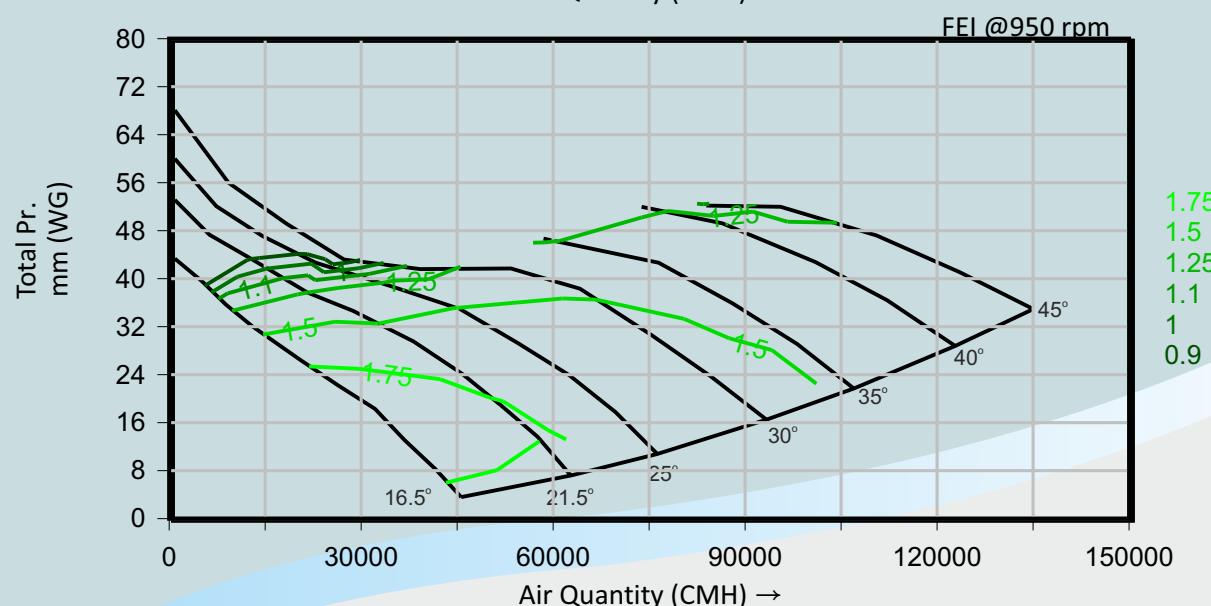
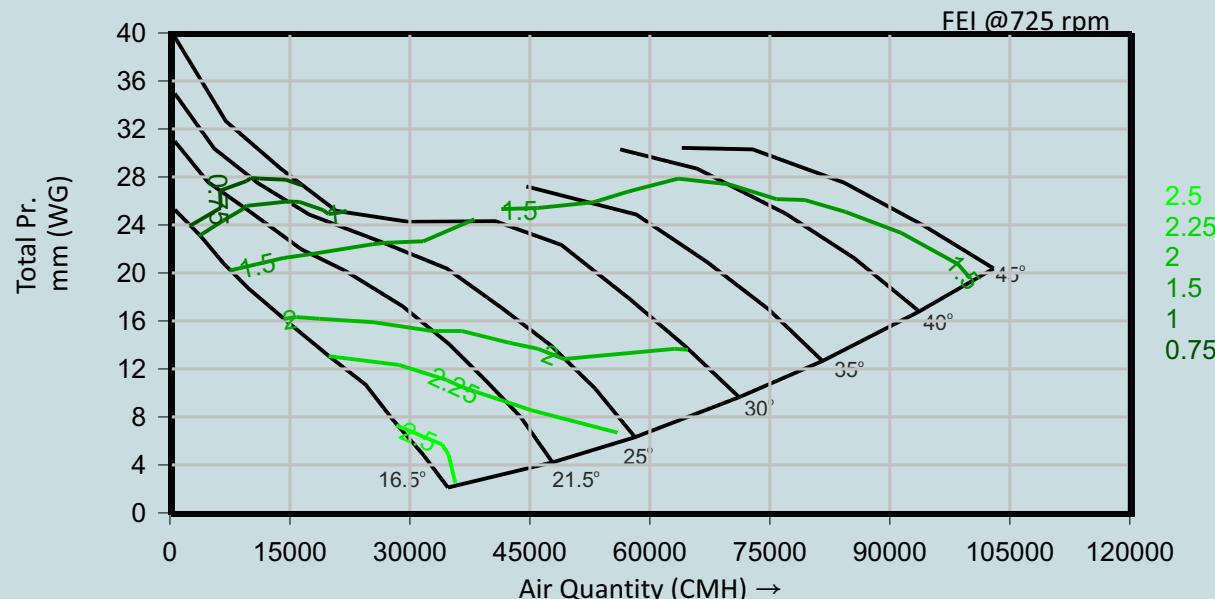


■ FAN MODEL : AFPV4GAX-1400-436-6

50Hz

Fan outlet and Inlet area: 1.5400 sq. mtr.

An ISO 9001:2008 Company





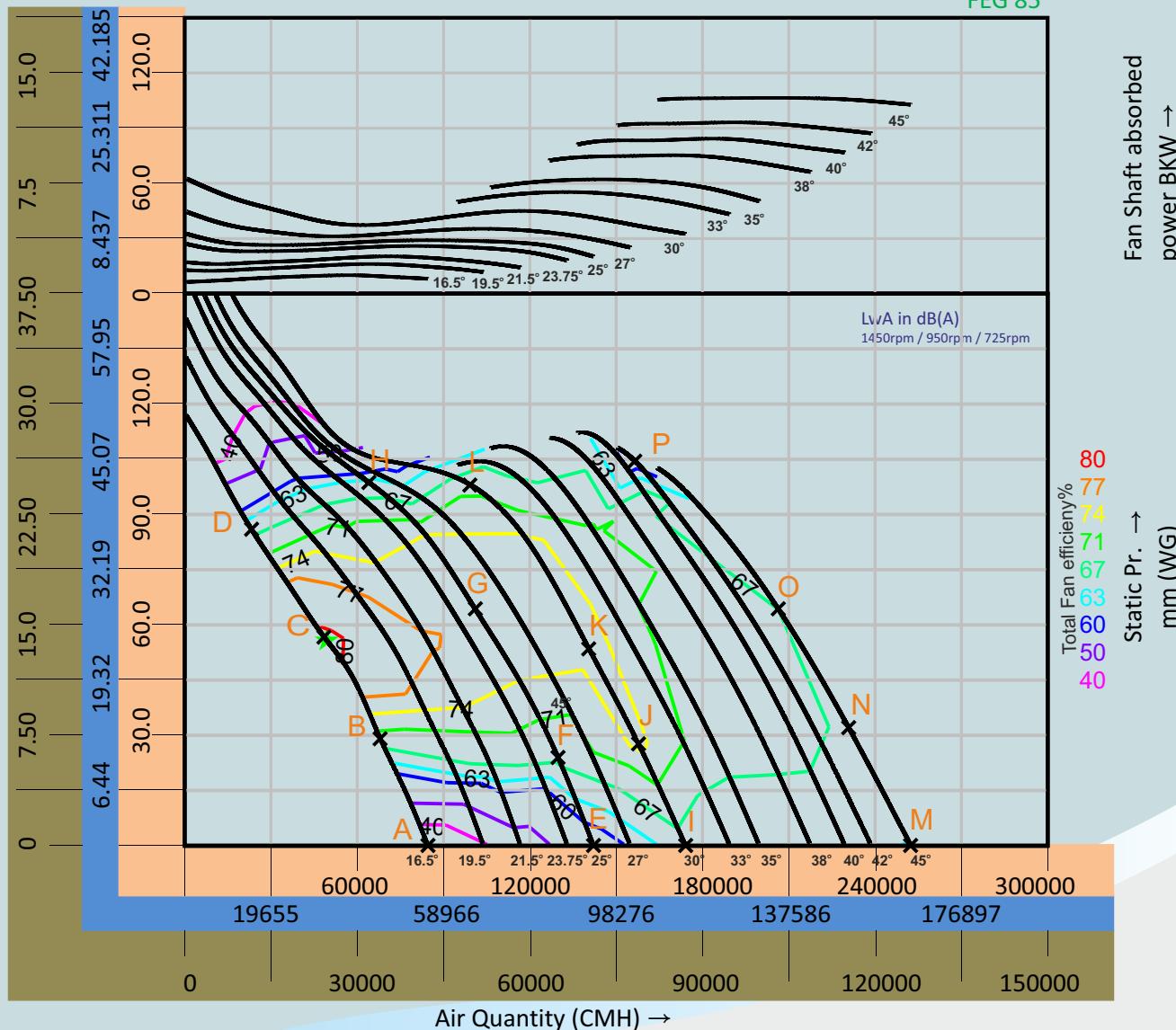
An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GAX-1500-467-6

50Hz

Fan outlet and Inlet area: 1.7679 sq. mtr.

FEG 85



<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GAX 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.
SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	Performance certified is for installation type D - Ducted inlet, Ducted 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 inlet Lwi and inlet LwiA sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts, calculated per AMCA International Standard 301.

LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm		
	E	I	M	H	J	N	L	O	P
A 95 / 101 / 111	91 / 98 / 107	91 / 97 / 107	95 / 102 / 112						
B 97 / 103 / 114	91 / 97 / 107	91 / 97 / 107	95 / 102 / 112						
C 95 / 102 / 114	97 / 104 / 114	91 / 97 / 107	95 / 102 / 112						
D 90 / 96 / 107	98 / 106 / 117	101 / 108 / 120	99 / 105 / 116						
St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	Blade Angle			
24207	14.15	725	63 125 250 500 1000 2000 4000 8000	95	45	2.109	16.5°		
11622	21.48	725	1.231 96 105 102 96 88 83 82 80	95	33	1.579	16.5°		
64936	42.03	950	1.037 99 94 92 91 84 81 79 77	90	94	1.333	30.0°		
103375	11.84	950	12.167 99 103 111 112 103 97 92 87	108	53	1.596	30.0°		

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

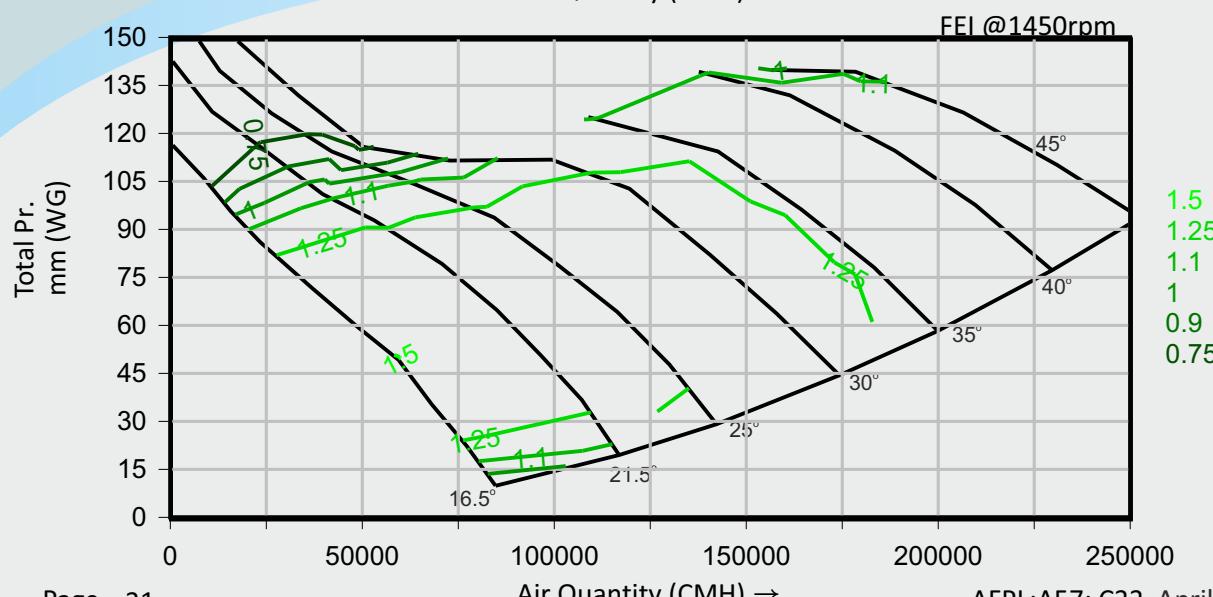
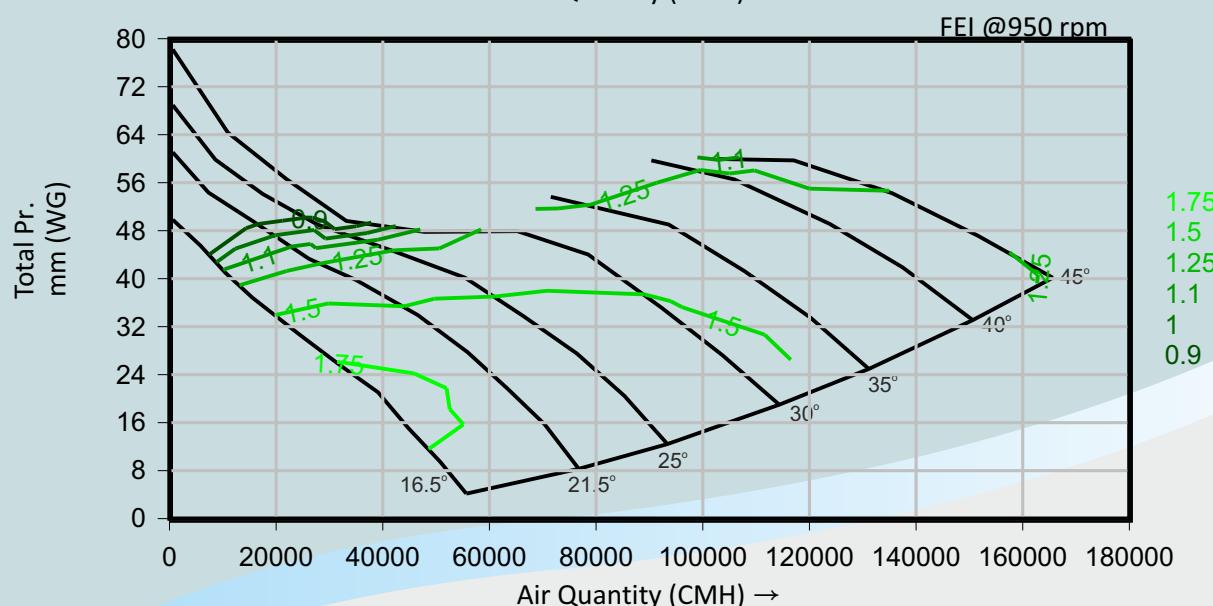
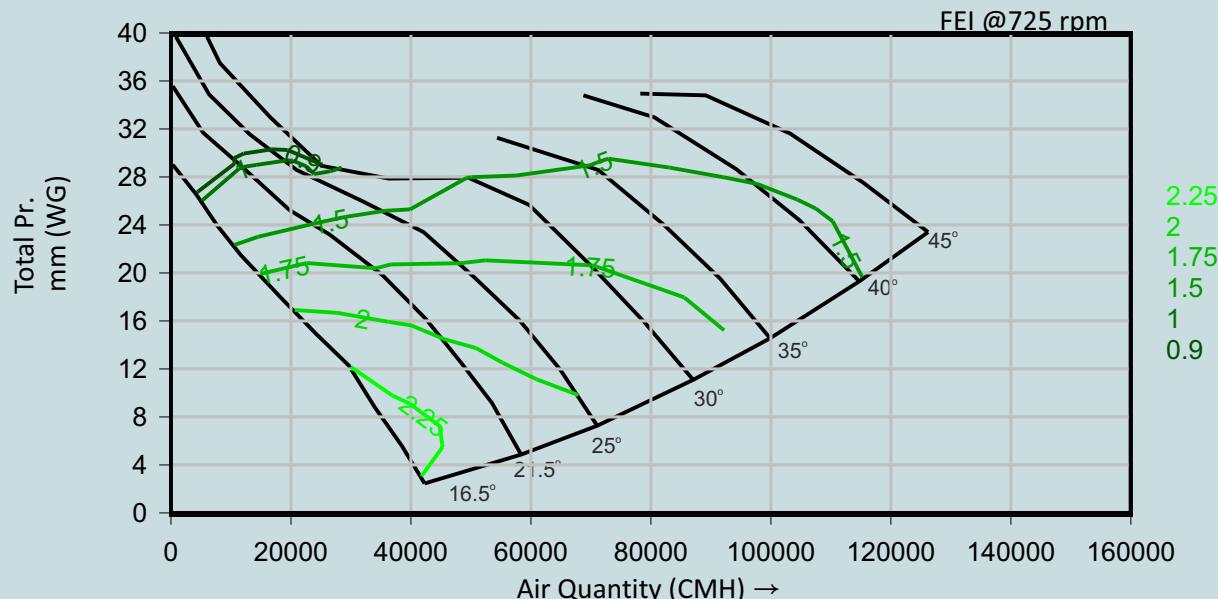


■ FAN MODEL : AFPV4GAX-1500-467-6

50Hz

Fan outlet and Inlet area: 1.7679 sq. mtr.

An ISO 9001:2008 Company





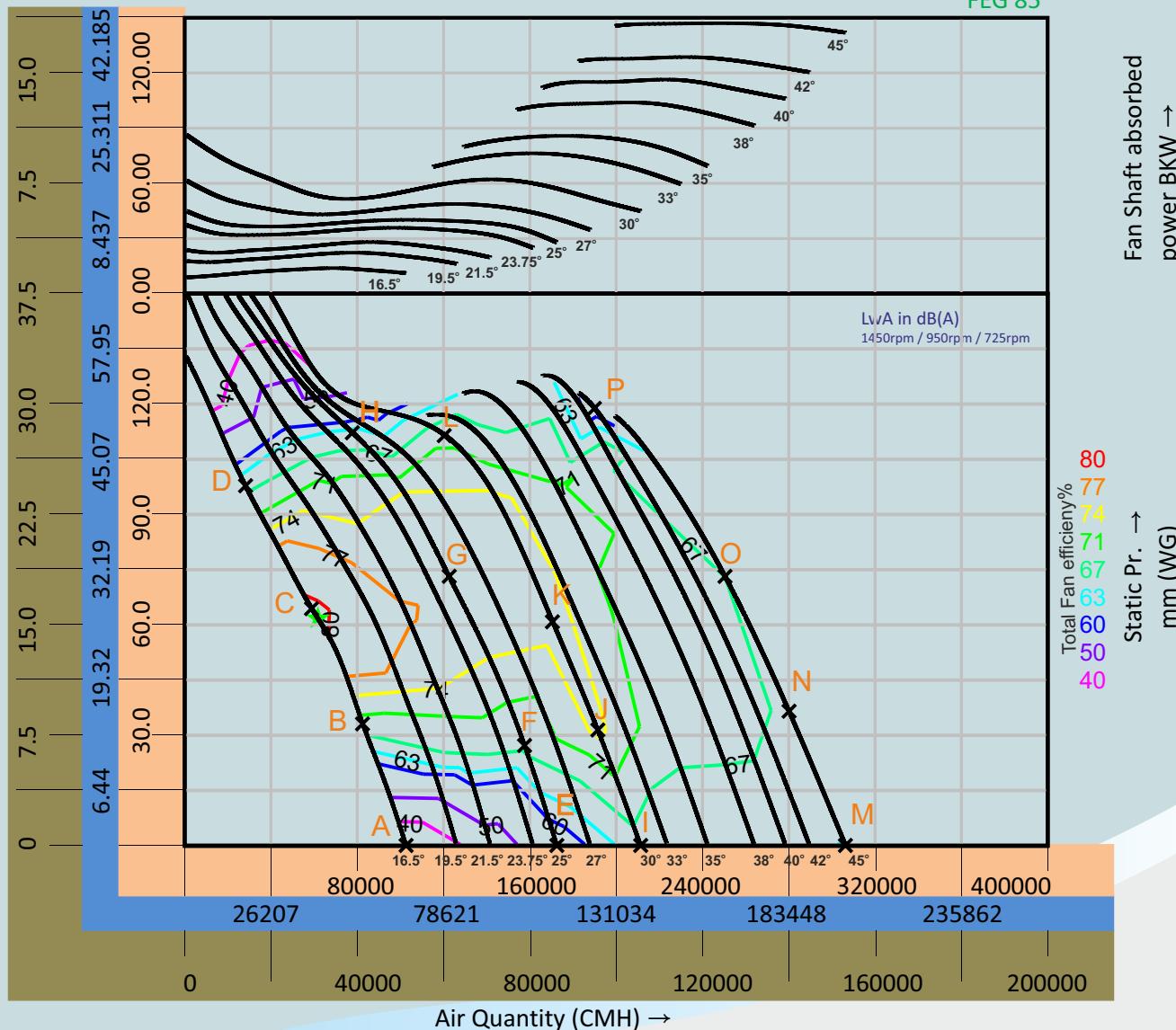
An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GAX-1600-498-6

50Hz

Fan outlet and Inlet area: 2.0114 sq. mtr.

FEG 85



<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GAX 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.
SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	Performance certified is for installation type D - Ducted inlet, Ducted 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 inlet Lwi and inlet LwiA sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts, calculated per AMCA International Standard 301.

LwA in dB(A) 725/950/1450rpm	LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm			LwA in dB(A) 725/950/1450rpm		
	E	I	M	H	L	P			
A 97 / 103 / 113	93 / 100 / 109	93 / 99 / 109	97 / 104 / 114						
B 99 / 105 / 116	93 / 99 / 109	92 / 99 / 109	97 / 104 / 114						
C 97 / 104 / 116	99 / 106 / 116	93 / 99 / 109	97 / 104 / 114						
D 92 / 98 / 109	100 / 108 / 119	103 / 110 / 122	101 / 107 / 118						
St. Pr. CMH	Sound RPM	Power BKW	Level dB	A-Weighted (Lwi) dB	Overall	Loudness in Sones	FEI	Blade Angle	
29378	16.09	725	63	125 250 500 1000 2000 4000 8000	82 97	51	2.001	16.5°	
14105	24.44	725	1.432	98 107 104 98 90 85 84	82 97	37	1.503	16.5°	
78808	47.82	950	16.8	101 105 113 114 105 99 94	81 79 92	109	1.305	30.0°	
125460	13.48	950	14.333	100 102 99 99 93 91 90	90 99	61	1.546	30.0°	

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

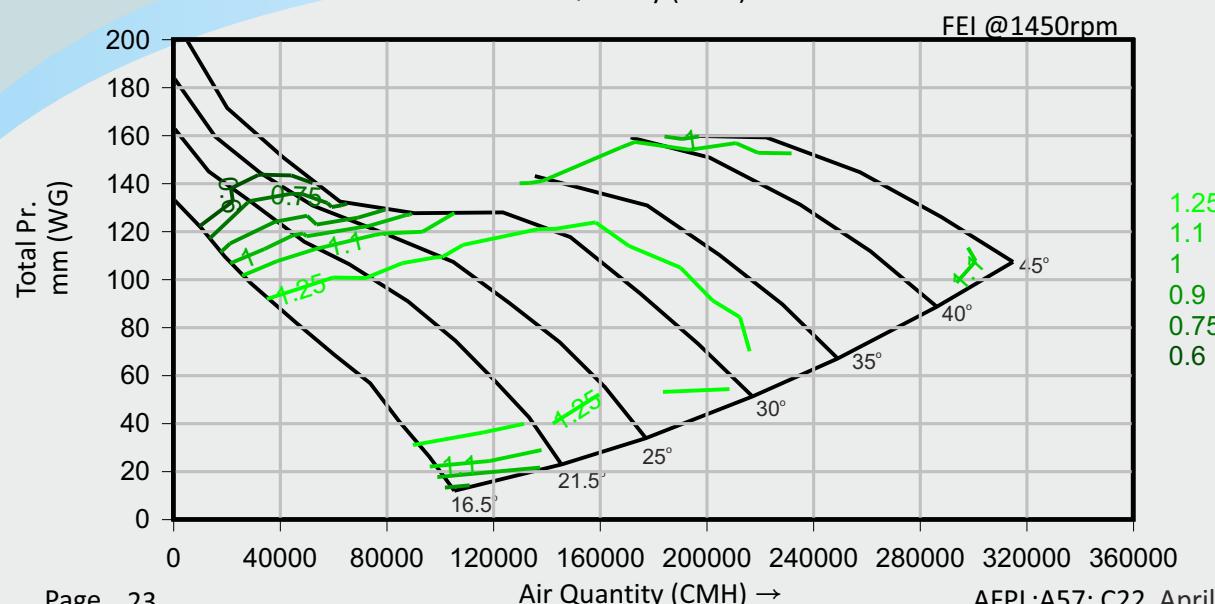
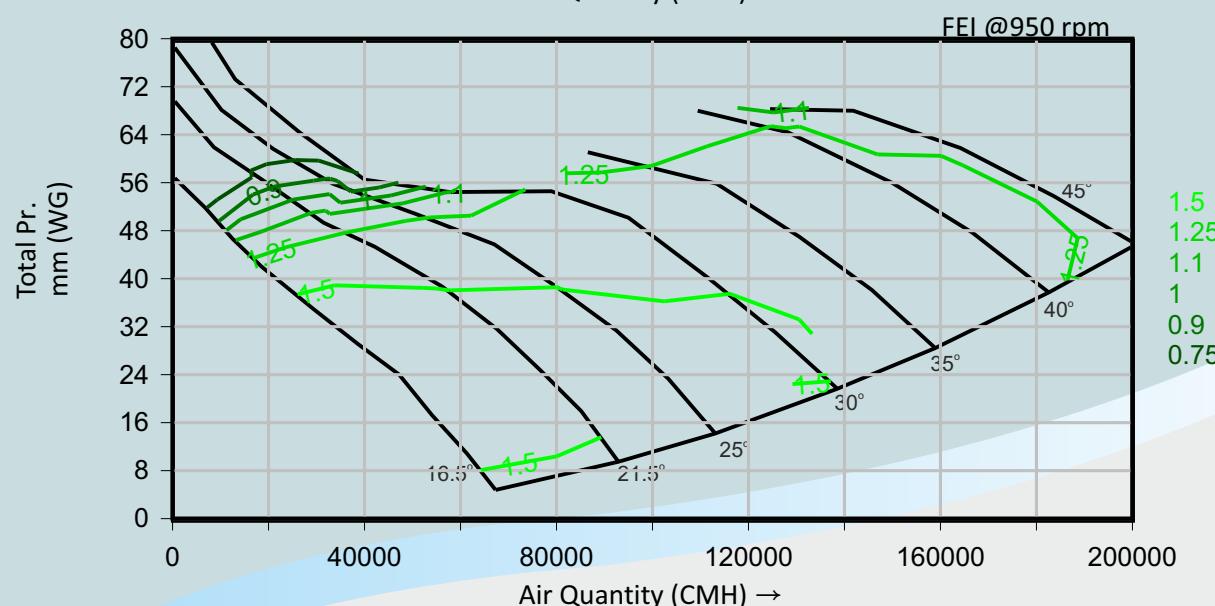
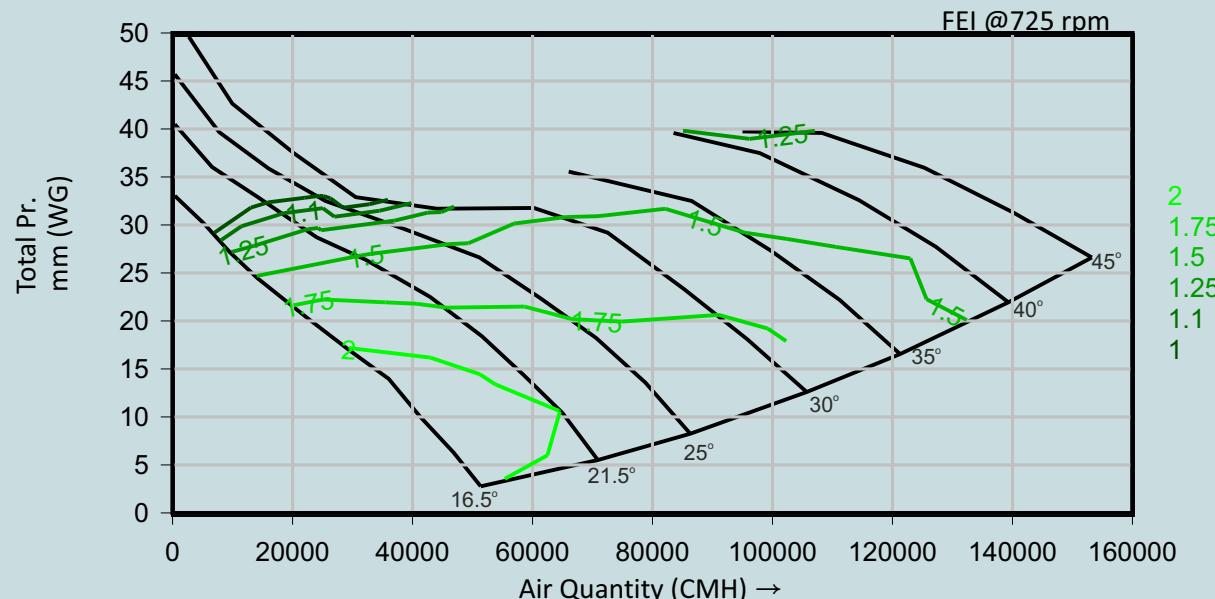


■ FAN MODEL : AFPV4GAX-1600-498-6

50Hz

Fan outlet and Inlet area: 2.0114 sq. mtr.

An ISO 9001:2008 Company



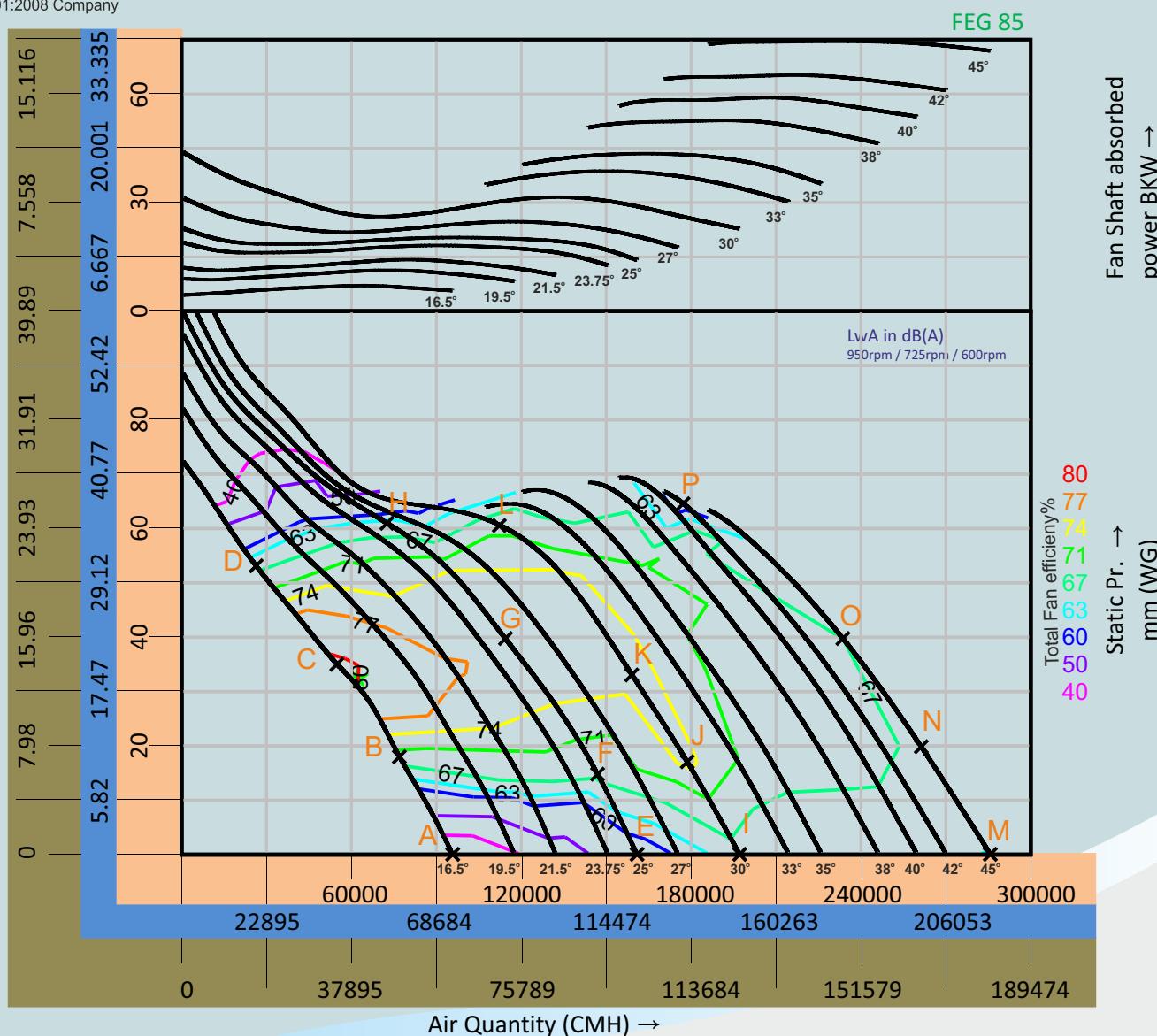


An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GAX-1800-560-6

50Hz

Fan outlet and Inlet area: 2.5457 sq. mtr.



<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GAX 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.
SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	SOUND AND AIR PERFORMANCE FEI AND ENERGY INDEX	Performance certified is for installation type D - Ducted inlet, Ducted 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 inlet Lwi and inlet LwiA sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts, calculated per AMCA International Standard 301.

LwA in dB(A) 600/725/950rpm	LwA in dB(A) 600/725/950rpm			LwA in dB(A) 600/725/950rpm			LwA in dB(A) 600/725/950rpm								
St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	63	125	250	500	1000	2000	4000	8000	Overall	Loudness in Sones	FEI	Blade Angle
41830	20.37	725	3.064	101	111	107	102	93	89	87	86	100	64	1.841	16.5°
20083	30.94	725	2.58	105	100	97	96	90	87	84	82	95	46	1.394	16.5°
112209	60.52	950	30.274	105	109	117	117	108	103	97	92	114	143	1.265	30.0°
178633	17.05	950	25.828	104	106	103	102	96	94	94	94	102	78	1.471	30.0°

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

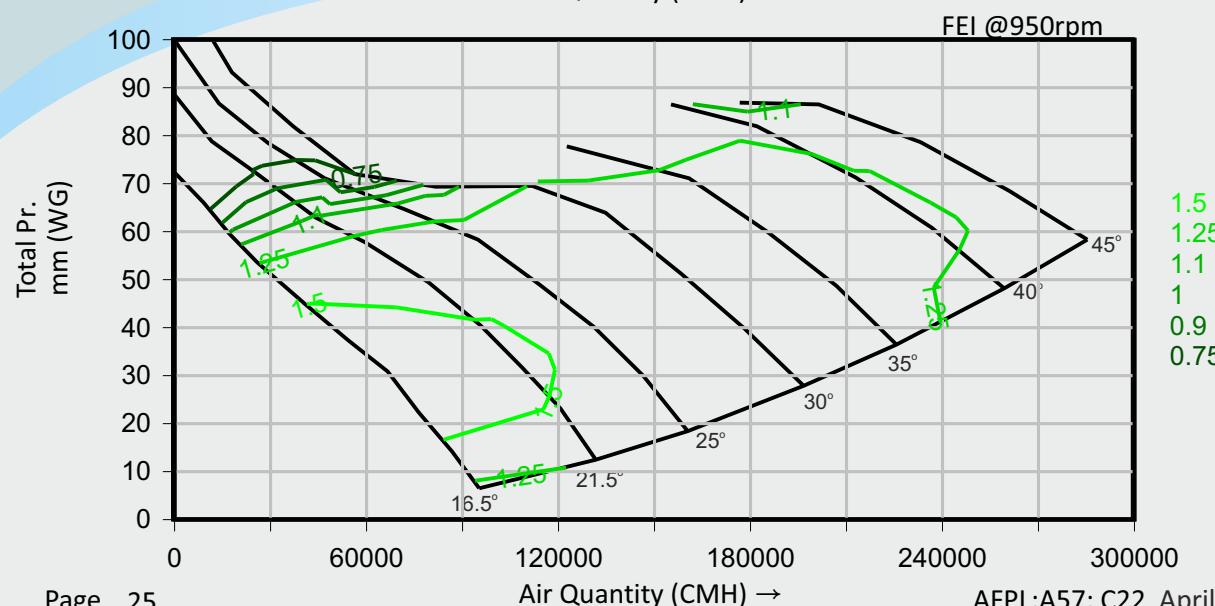
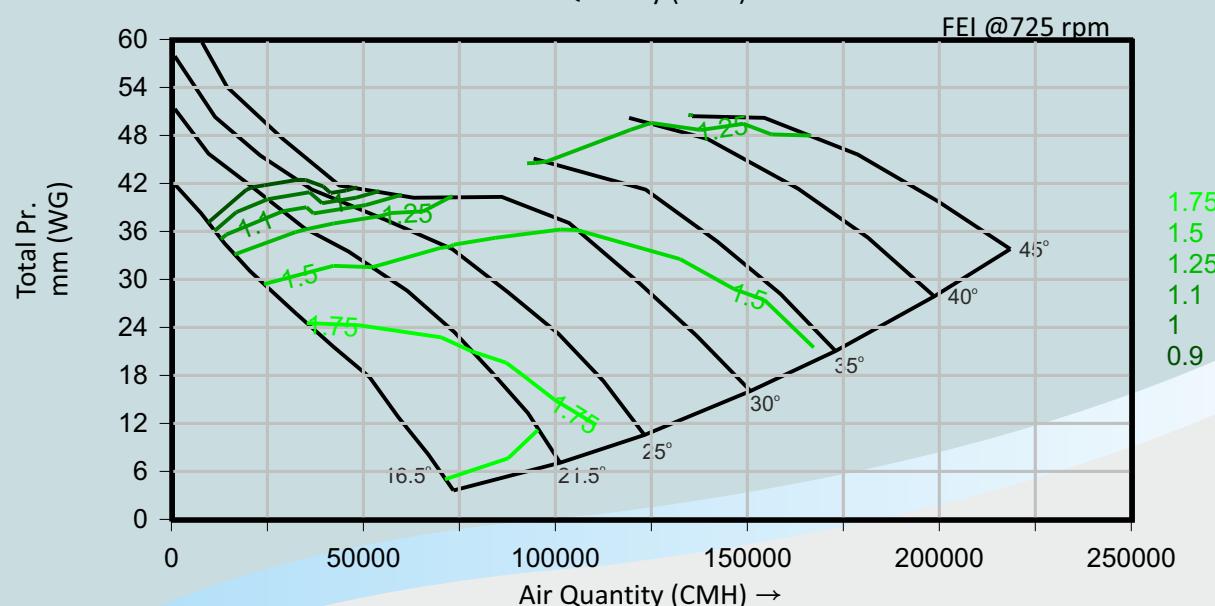
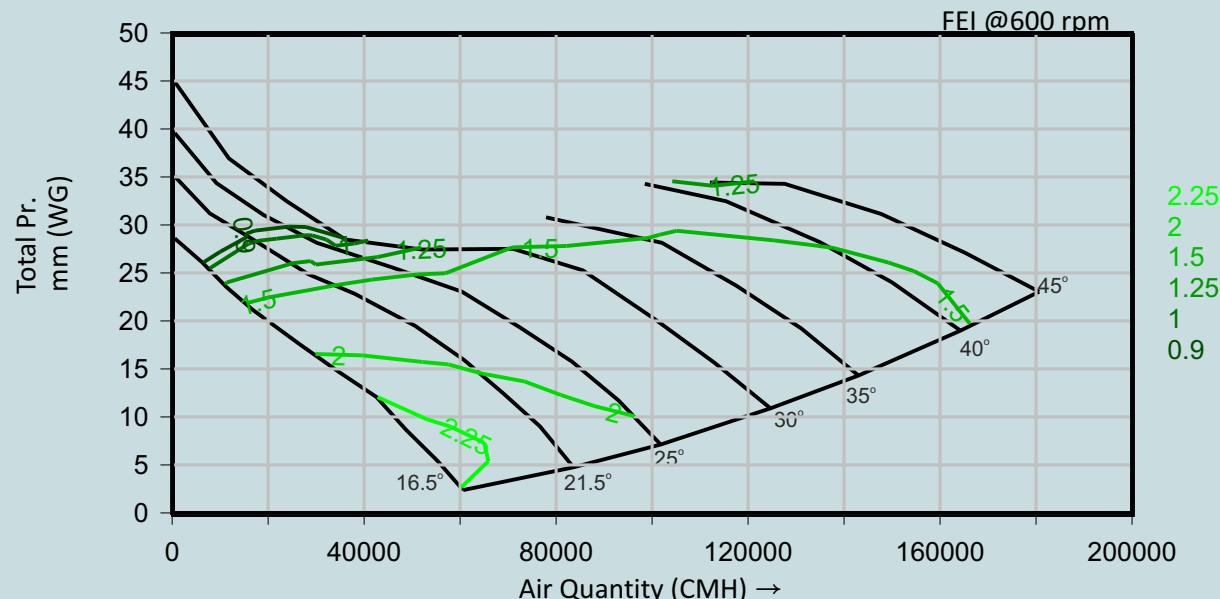


■ FAN MODEL : AFPV4GAX-1800-560-6

50Hz

Fan outlet and Inlet area: 2.5457 sq. mtr.

An ISO 9001:2008 Company





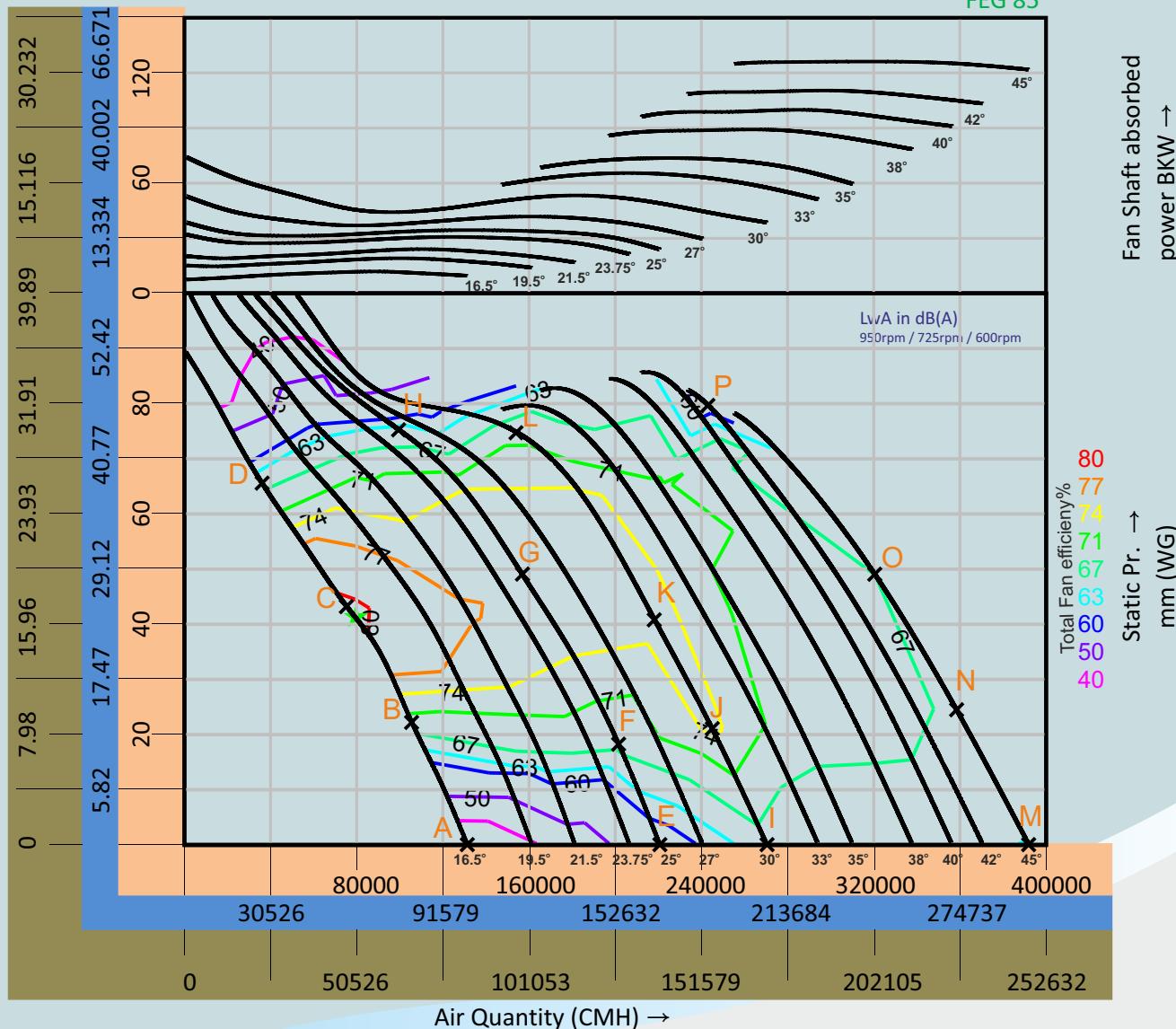
An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GAX-2000-622-6

50Hz

Fan outlet and Inlet area: 3.1429 sq. mtr.

FEG 85



<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GAX 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.
SOUND AND AIR PERFORMANCE FEI AMERICAN MEASUREMENTS INC.	SOUND AND AIR PERFORMANCE FEI AMERICAN MEASUREMENTS INC.	Performance certified is for installation type D - Ducted inlet, Ducted 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 inlet Lwi and inlet Lwia sound power levels for installation Type D: Ducted inlet, Ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to $10^{-12}$ watts, calculated per AMCA International Standard 301.

St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB								Overall	Loudness in Sones	Blade Angle	
			63	125	250	500	1000	2000	4000	8000				
57380	25.15	725	5.189	105	114	111	105	96	92	90	89	104	81	1.731
27549	38.19	725	4.369	108	103	101	100	93	90	88	85	98	58	1.321
153922	74.72	950	51.27	108	112	120	121	112	106	100	95	117	183	1.235
245038	21.05	950	43.741	107	109	106	105	100	98	97	97	106	99	1.417

The sound ratings shown are loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation Type D: ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction

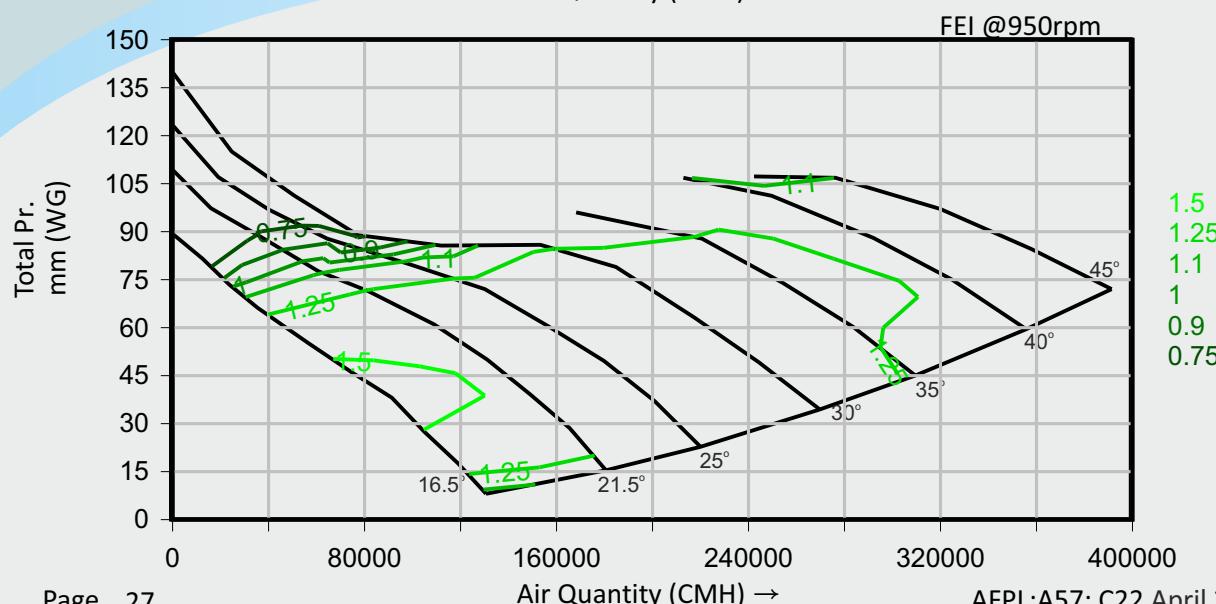
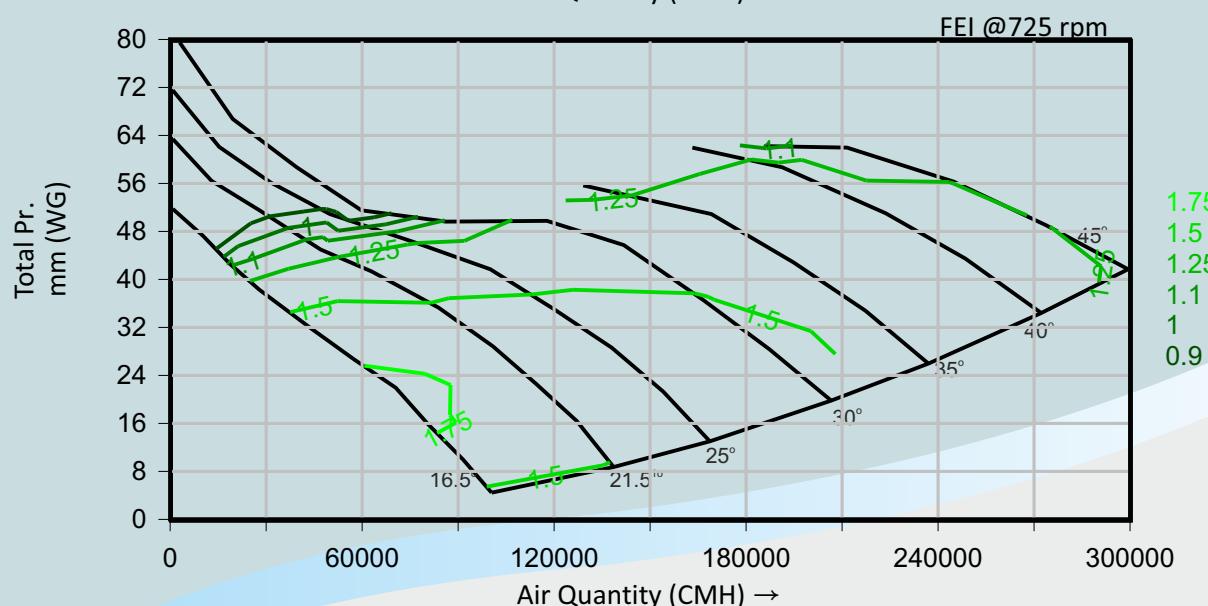
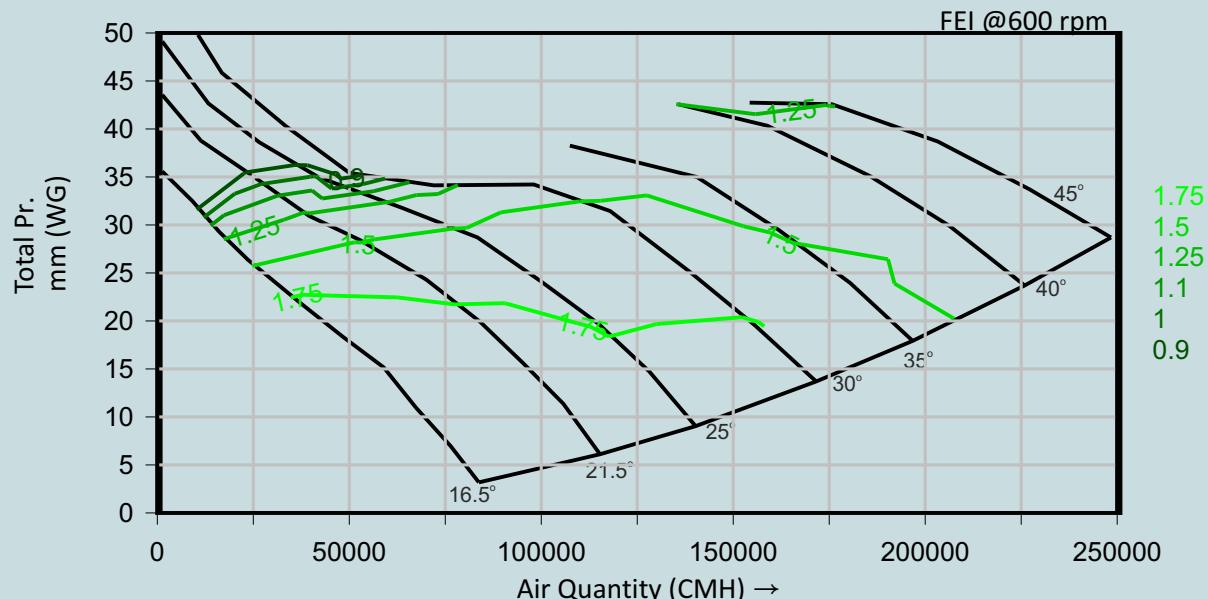


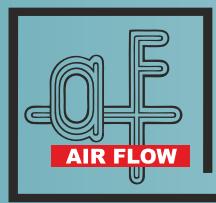
■ FAN MODEL : AFPV4GAX-2000-622-6

50Hz

Fan outlet and Inlet area: 3.1429 sq. mtr.

An ISO 9001:2008 Company





An ISO 9001:2008 Company

## AIR FLOW PVT. LTD.

13 / 1090, Hardhian Singh Road, Karol Bagh, New Delhi, India - 110005

Phone: +91-1147602222, 28751236

email: [mail@airflow.in](mailto:mail@airflow.in), [sales@airflow.in](mailto:sales@airflow.in)

[www.airflow.in](http://www.airflow.in); <https://facebook.com/airflowindia>

**Catalouge reference - AFPL:A57: C22 April 2022**