

# Vane Axial Flow Fans

AFPV4GVX



An ISO 9001:2008 Company

AFPL:A57: C21 May 2022

# AFPV4GVX Photographs



Fan Model	Fan Dia (mm)	No. of Blades
AFPV4GVX-900-280-6	900mm	6nos
AFPV4GVX-1000-311-6	1000mm	6nos
AFPV4GVX-1120-348-6	1120mm	6nos
AFPV4GVX-1250-389-6	1250mm	6nos
AFPV4GVX-1325-412-6	1325mm	6nos
AFPV4GVX-1400-436-6	1400mm	6nos
AFPV4GVX-1500-467-6	1500mm	6nos
AFPV4GVX-1600-498-6	1600mm	6nos
AFPV4GVX-1800-560-6	1800mm	6nos
AFPV4GVX-2000-622-6	2000mm	6nos



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# Company Profile

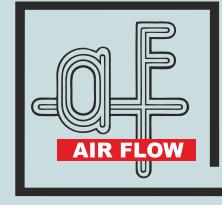
We “Efforts combined with a sincere selfless commitment and continuous pursuance of excellence Translate into Success;”

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 AFPV4GVX 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.

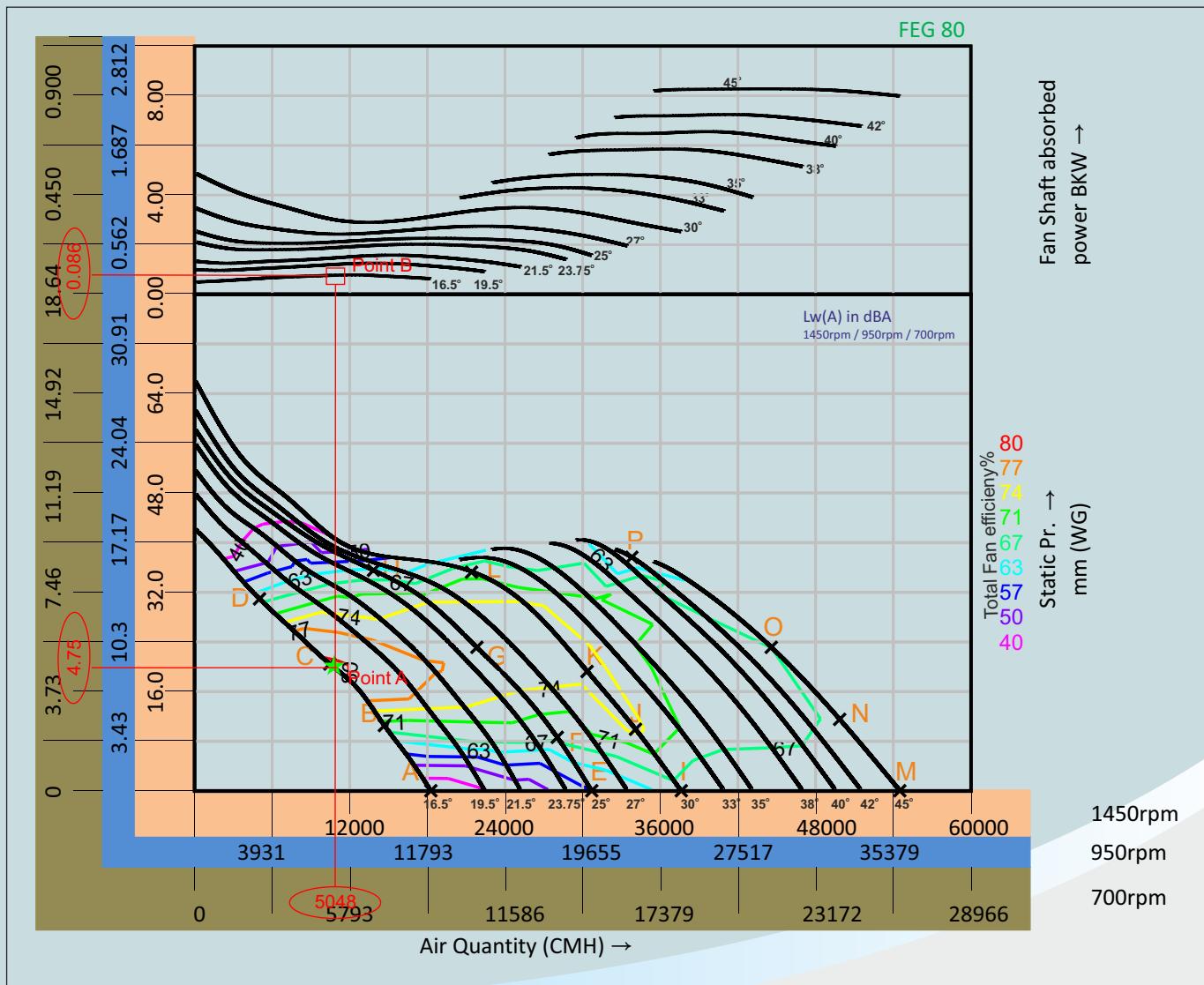
## Features

- 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: AFPV4GVX-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%.



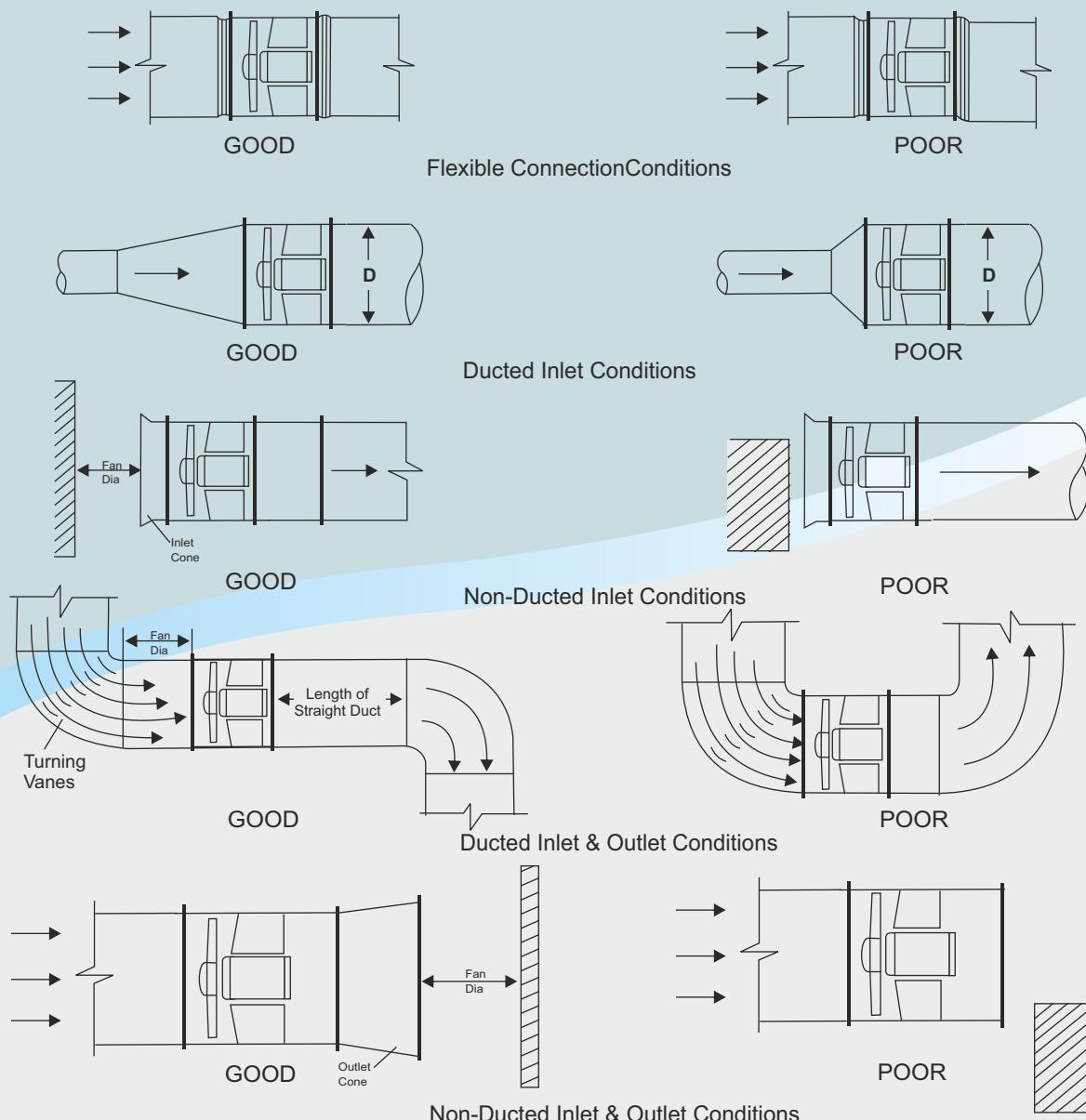
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# System Effects

## 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

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

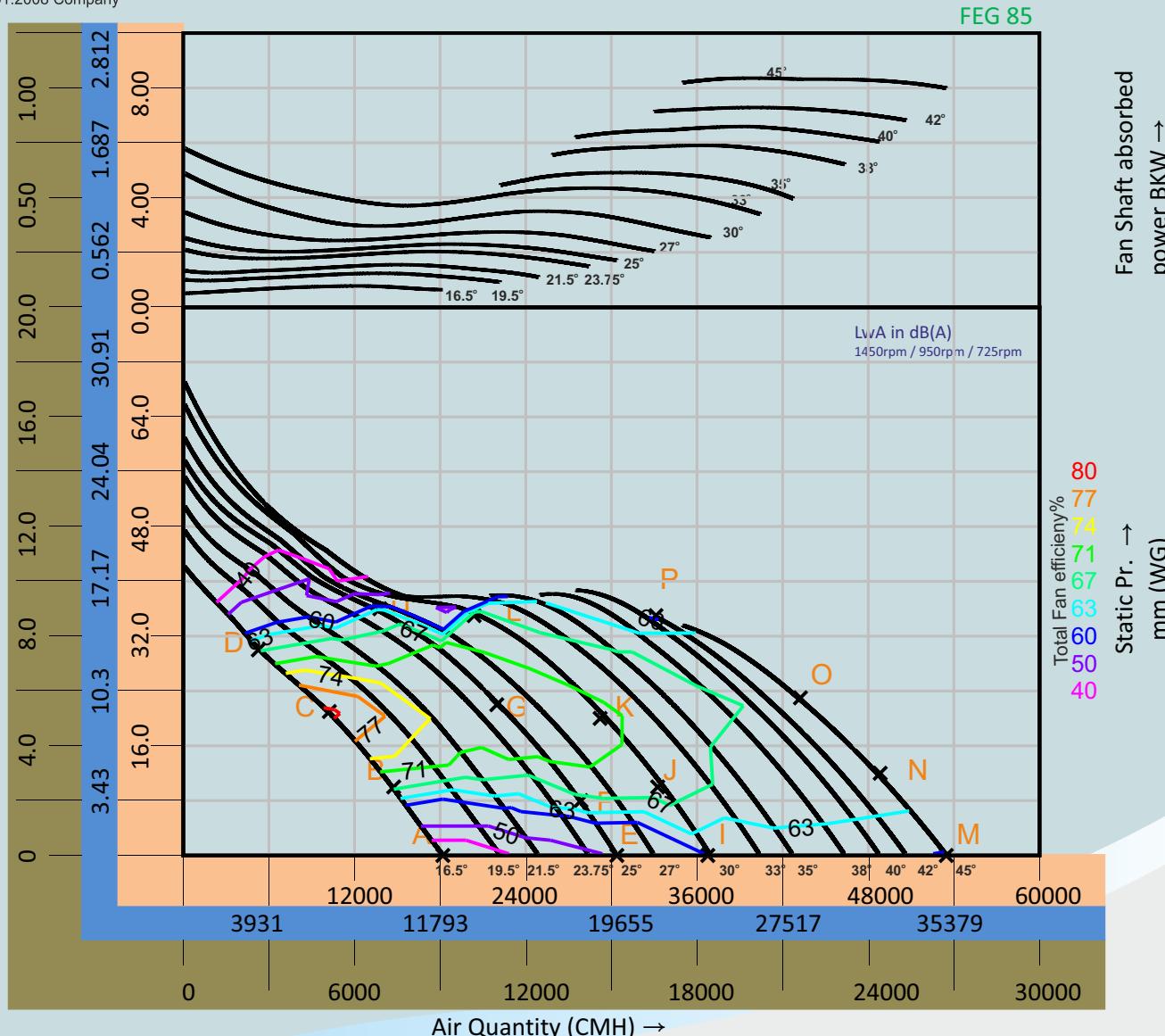


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■ FAN MODEL : AFPV4GVX-900-280-6

50Hz

Fan outlet and Inlet area: 0.6364 sq. mtr.



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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 LwAi 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		
	St. Pr. mmWG	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	FEI	Blade Angle	
5119	5.21	725	0.095	63 125 250 500 1000 2000 4000 8000	68 67 66 80	17	3.344	16.5°	
16601	2.84	725	0.369	78 87 82 73	69 67 66 75	14	3.013	30.0°	
21753	4.87	950	0.830	79 76 76 76	74 73 72 82	20	2.282	30.0°	
35026	0.04	950	2.248	84 82 81 76	79 76 73 87	25	1.613	45.0°	

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

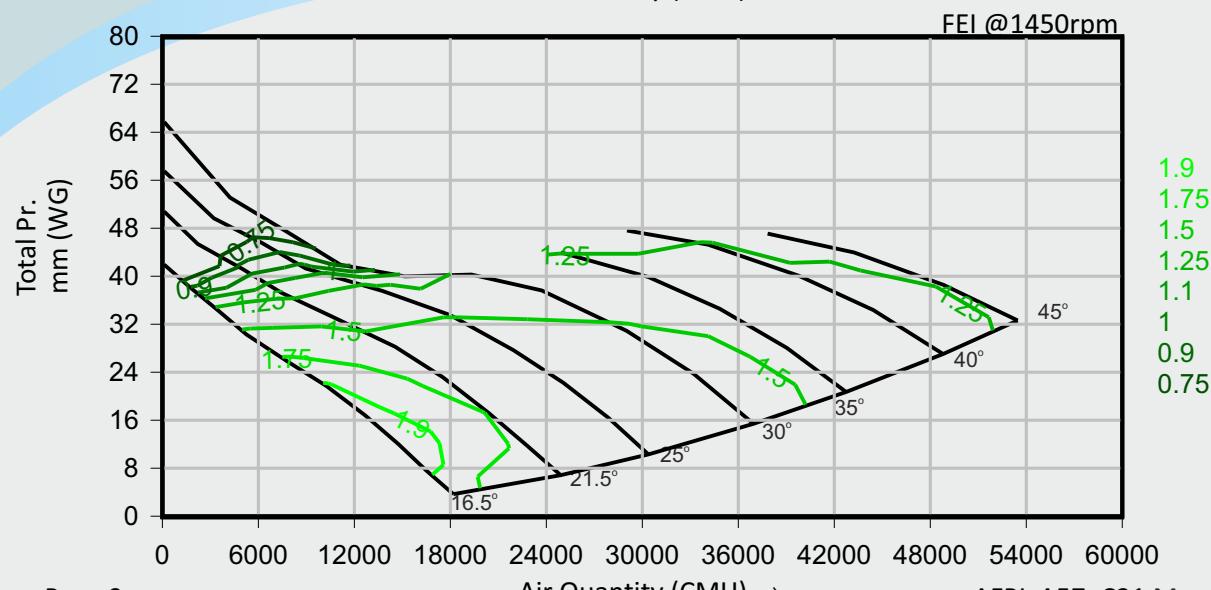
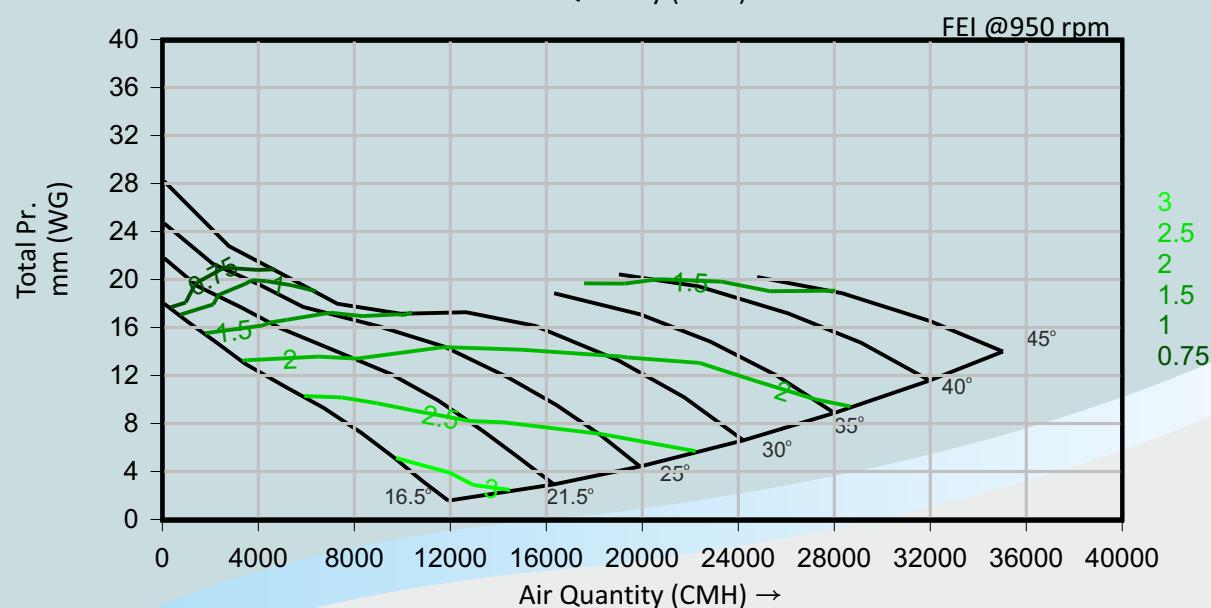
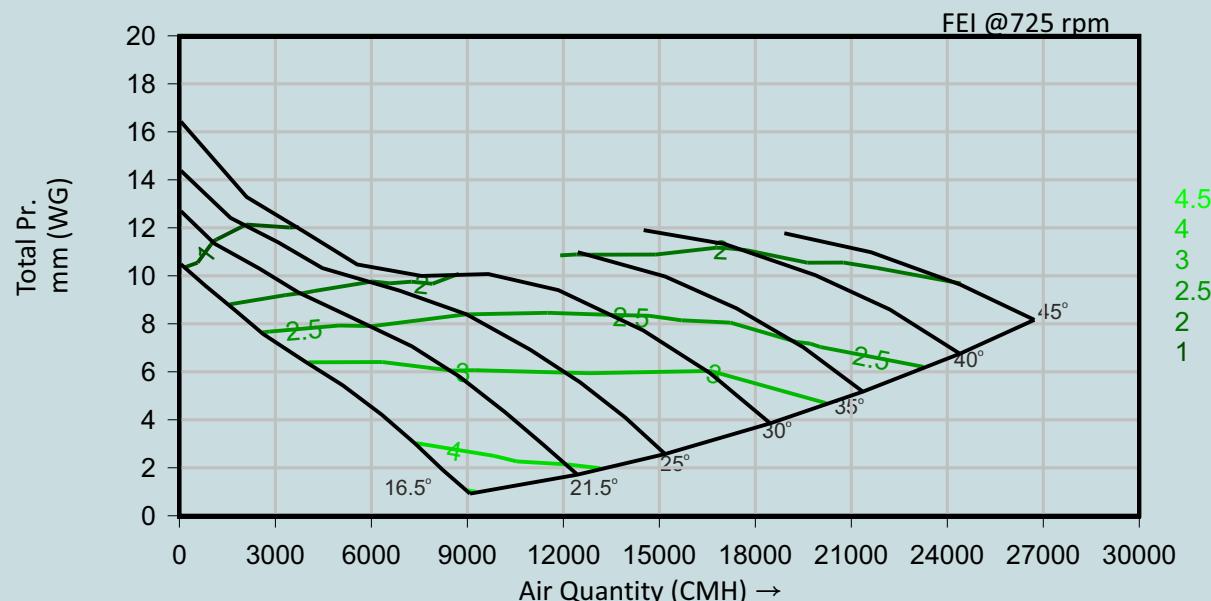


■ FAN MODEL : AFPV4GVX-900-280-6

50Hz

Fan outlet and Inlet area: 0.6364 sq. mtr.

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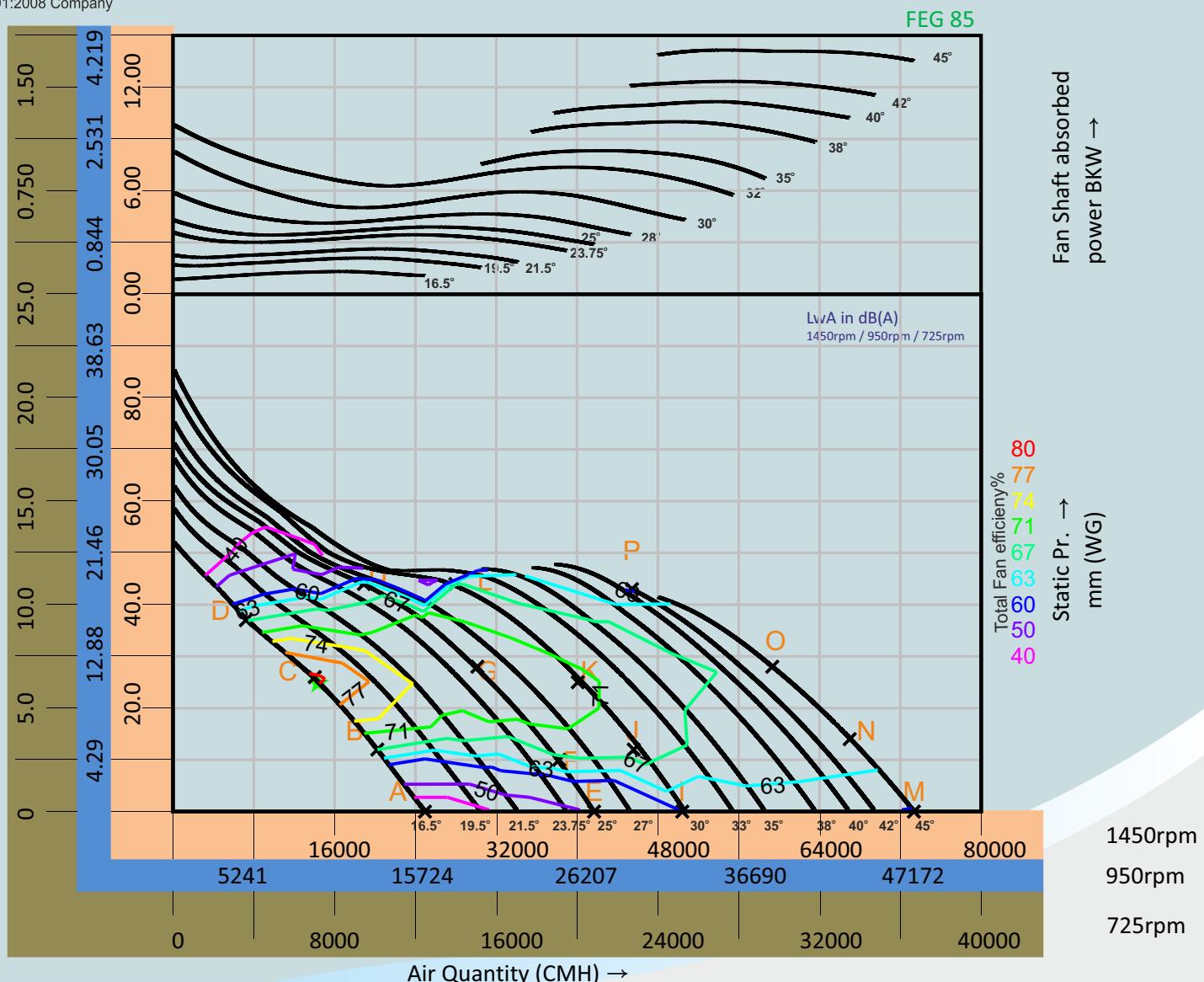


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■ FAN MODEL : AFPV4GVX-1000-311-6

50Hz

Fan outlet and Inlet area: 0.7857 sq. mtr.



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SIE MOYENNE RED. CONTROL ASSOCIATION INTERNATIONALE, INC. <sup>®</sup>	SIE MOYENNE RED. CONTROL ASSOCIATION INTERNATIONALE, INC. <sup>®</sup>	SIE MOYENNE RED. CONTROL ASSOCIATION INTERNATIONALE, INC. <sup>®</sup>	SIE MOYENNE RED. CONTROL ASSOCIATION INTERNATIONALE, INC. <sup>®</sup>		
LwA in dB(A) 725/950/1450rpm		LwA in dB(A) 725/950/1450rpm		LwA in dB(A) 725/950/1450rpm	
A 83 / 89 / 99		E 79 / 85 / 95		I 79 / 85 / 95	
B 85 / 91 / 102		F 79 / 85 / 95		J 78 / 85 / 95	
C 83 / 90 / 102		G 85 / 91 / 102		K 80 / 86 / 96	
D 78 / 84 / 95		H 86 / 93 / 105		L 89 / 96 / 108	

CMH	St. Pr. mmWG	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB									Loudness in Sones	Blade Angle	
				63	125	250	500	1000	2000	4000	8000	Overall			
7022	6.43	725	0.160	81	91	90	86	76	72	70	69	83	21	3.052	16.5°
22772	3.50	725	0.624	83	80	79	79	72	70	70	69	78	17	2.710	30.0°
29840	6.01	950	1.405	87	89	85	85	79	77	76	75	85	25	2.056	30.0°
48046	0.05	950	3.806	91	94	93	92	85	82	79	77	90	31	1.482	45.0°

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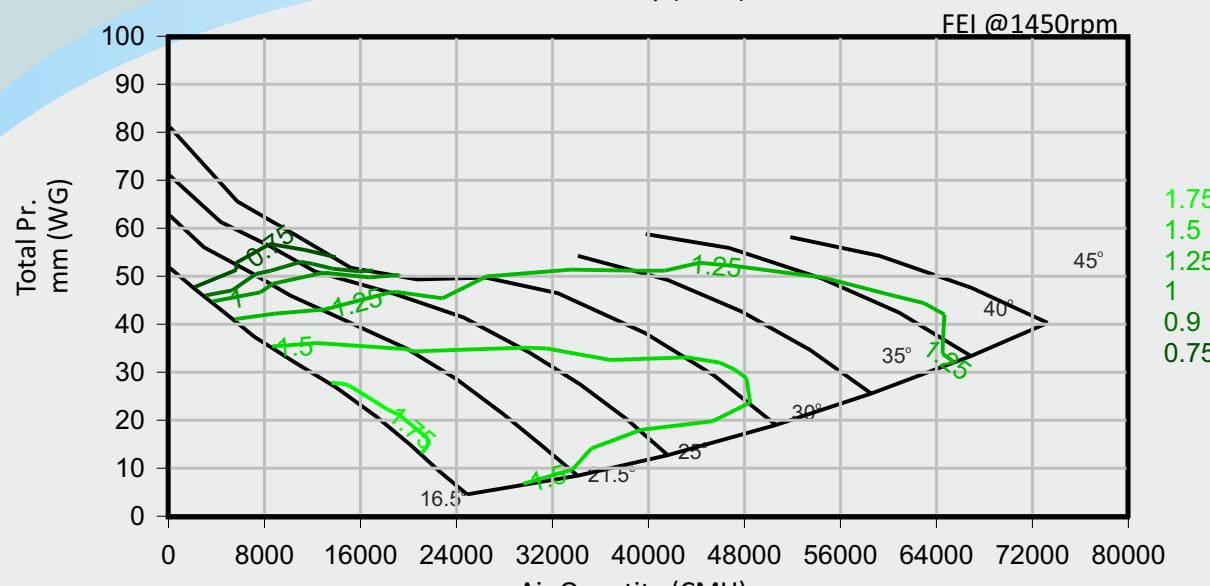
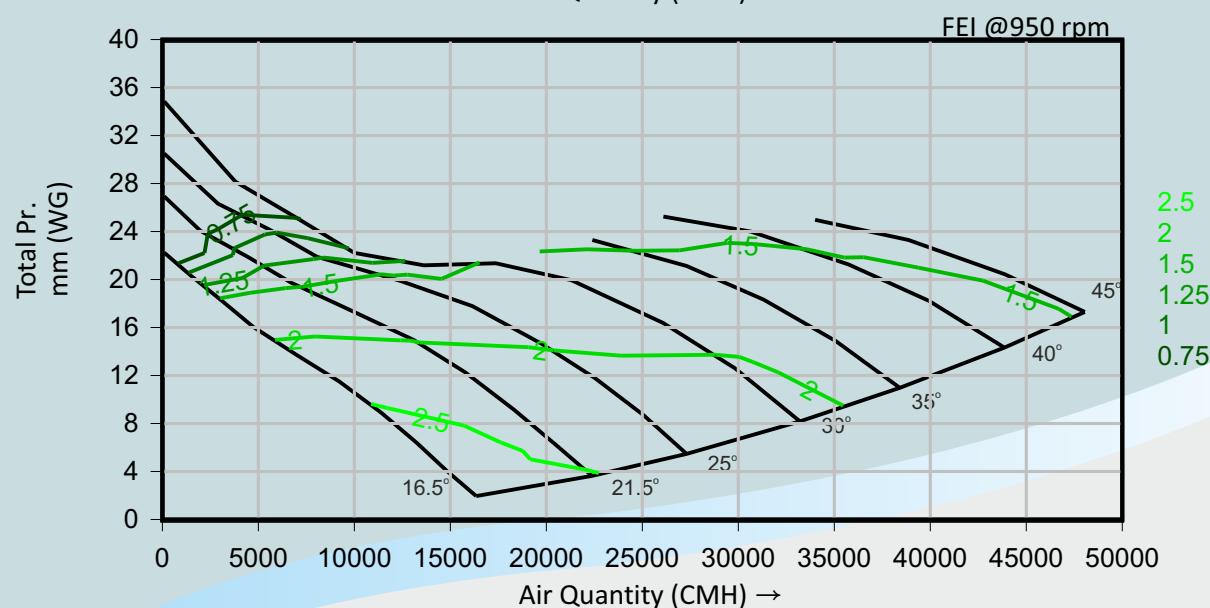
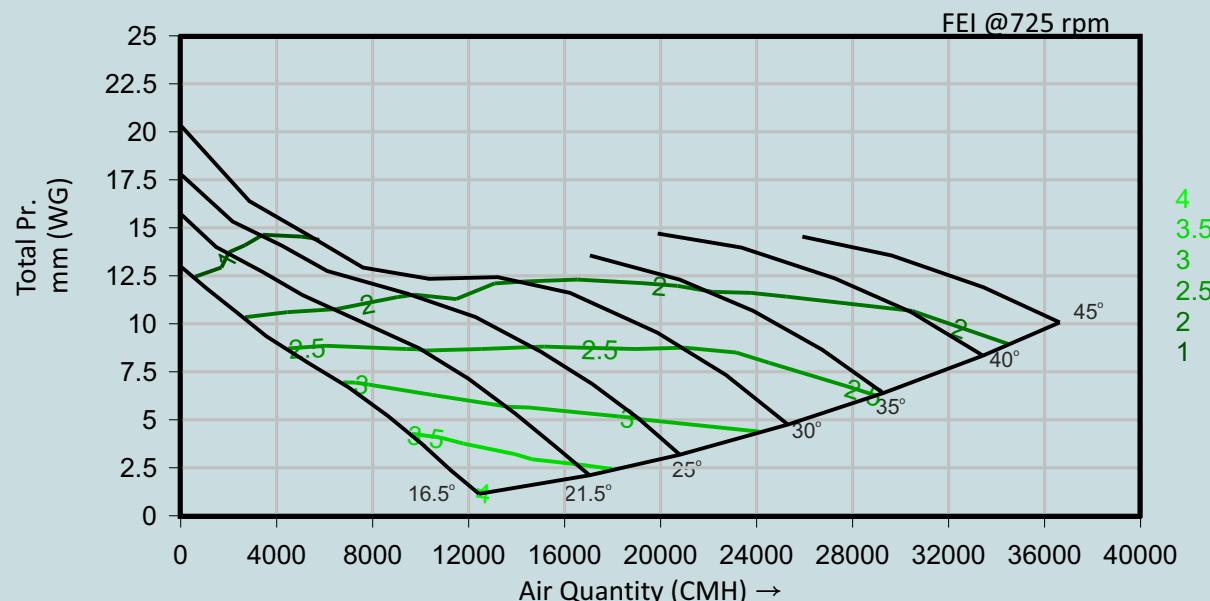


■ FAN MODEL : AFPV4GVX-1000-311-6

50Hz

Fan outlet and Inlet area: 0.7857 sq. mtr.

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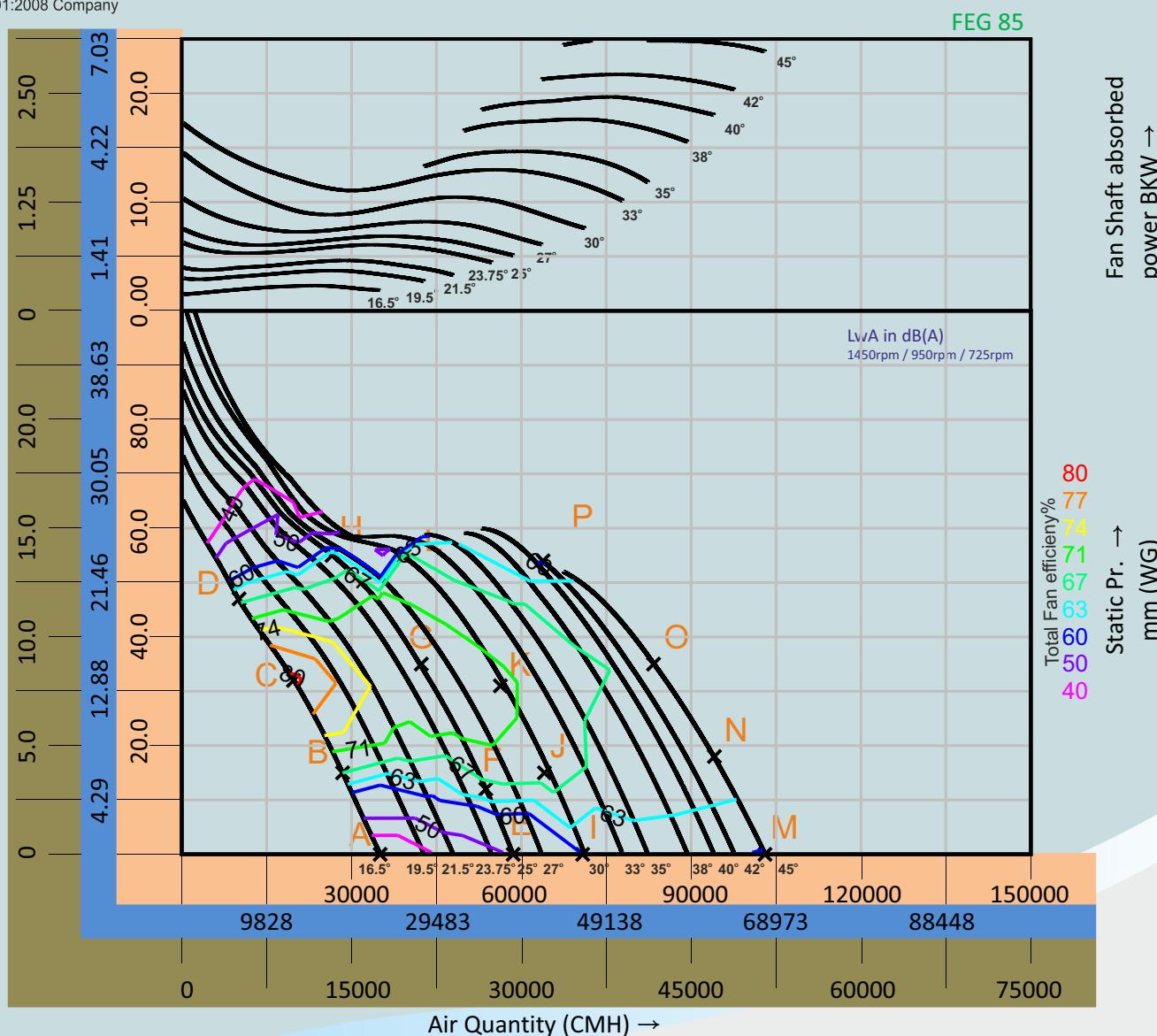


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■ FAN MODEL : AFPVGVX-1120-348-6

50Hz

Fan outlet and Inlet area: 0.9856 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								
	E	I	M	H	J	N	L	O	P						
A 87 / 93 / 103	83 / 89 / 98	83 / 89 / 99	87 / 94 / 104												
B 88 / 94 / 105	82 / 88 / 98	82 / 88 / 98	87 / 94 / 104												
C 87 / 94 / 105	88 / 95 / 106	83 / 90 / 100	87 / 94 / 104												
D 81 / 88 / 98	90 / 97 / 108	93 / 100 / 111	93 / 100 / 111												
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
9865	8.06	725	0.283	84	94	94	89	80	75	74	73	87	25	2.741	16.5°
31994	4.39	725	1.101	86	83	82	82	76	74	73	73	82	21	2.377	30.0°
41923	7.54	950	2.476	91	92	88	88	82	80	79	79	88	30	1.867	30.0°
67501	0.07	950	6.708	95	97	96	95	89	86	83	80	94	38	1.371	45.0°

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

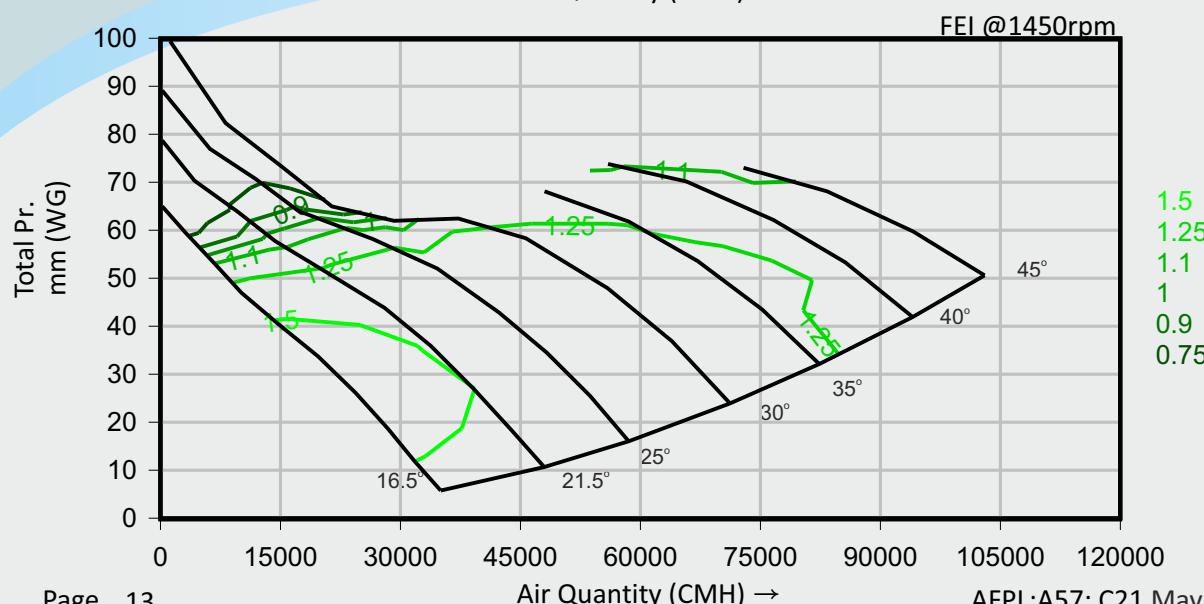
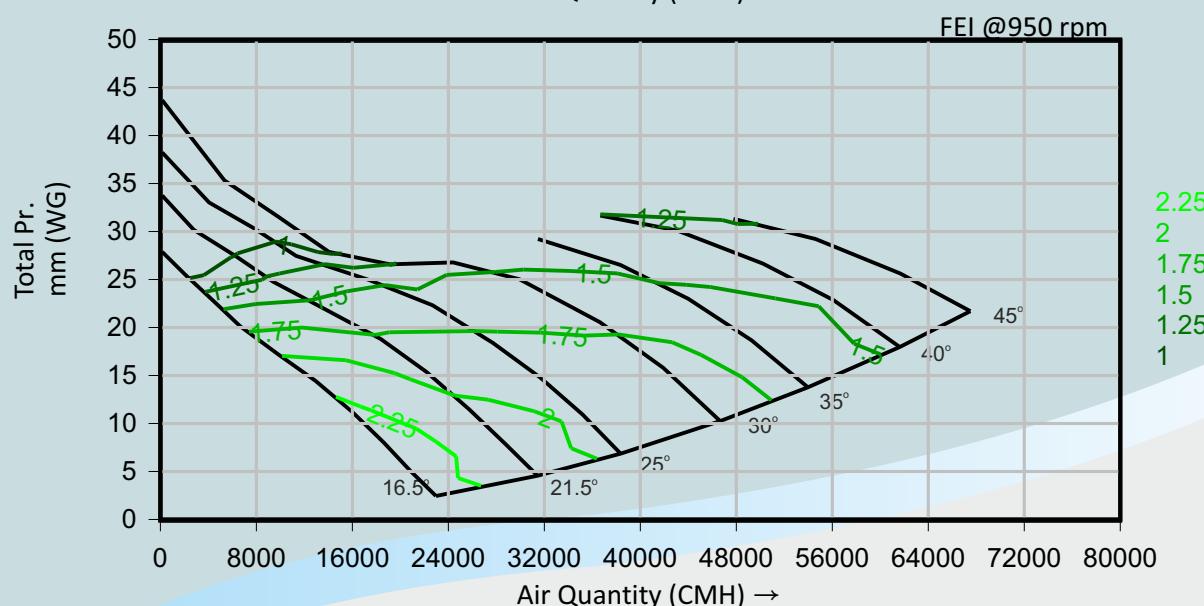
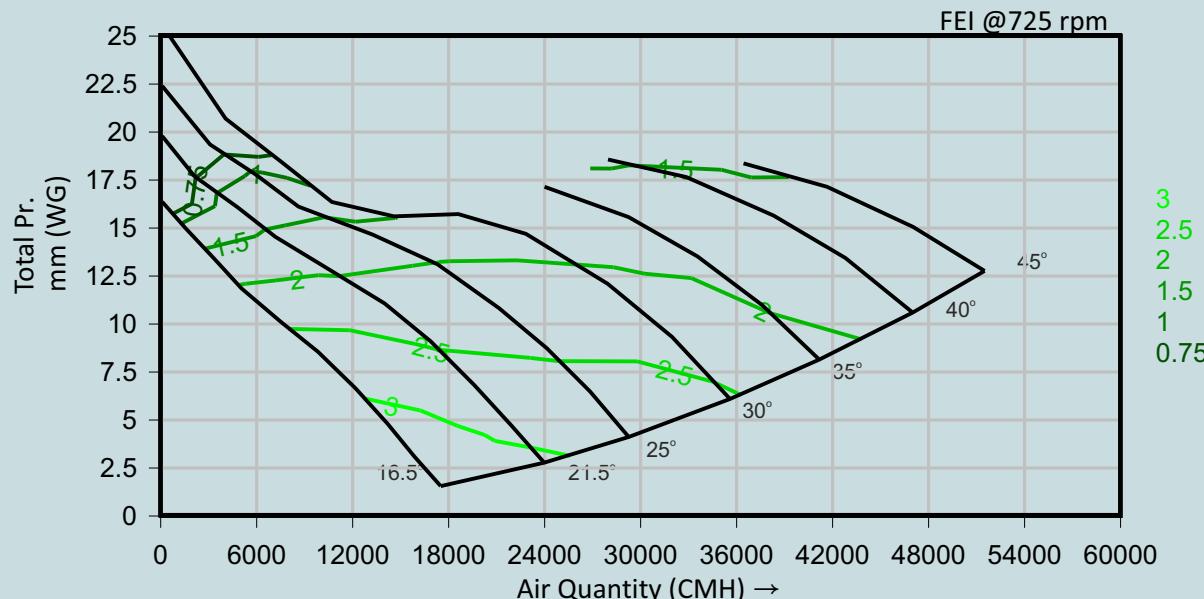


■ FAN MODEL : AFPVGVX-1120-348-6

50Hz

Fan outlet and Inlet area: 0.9856 sq. mtr.

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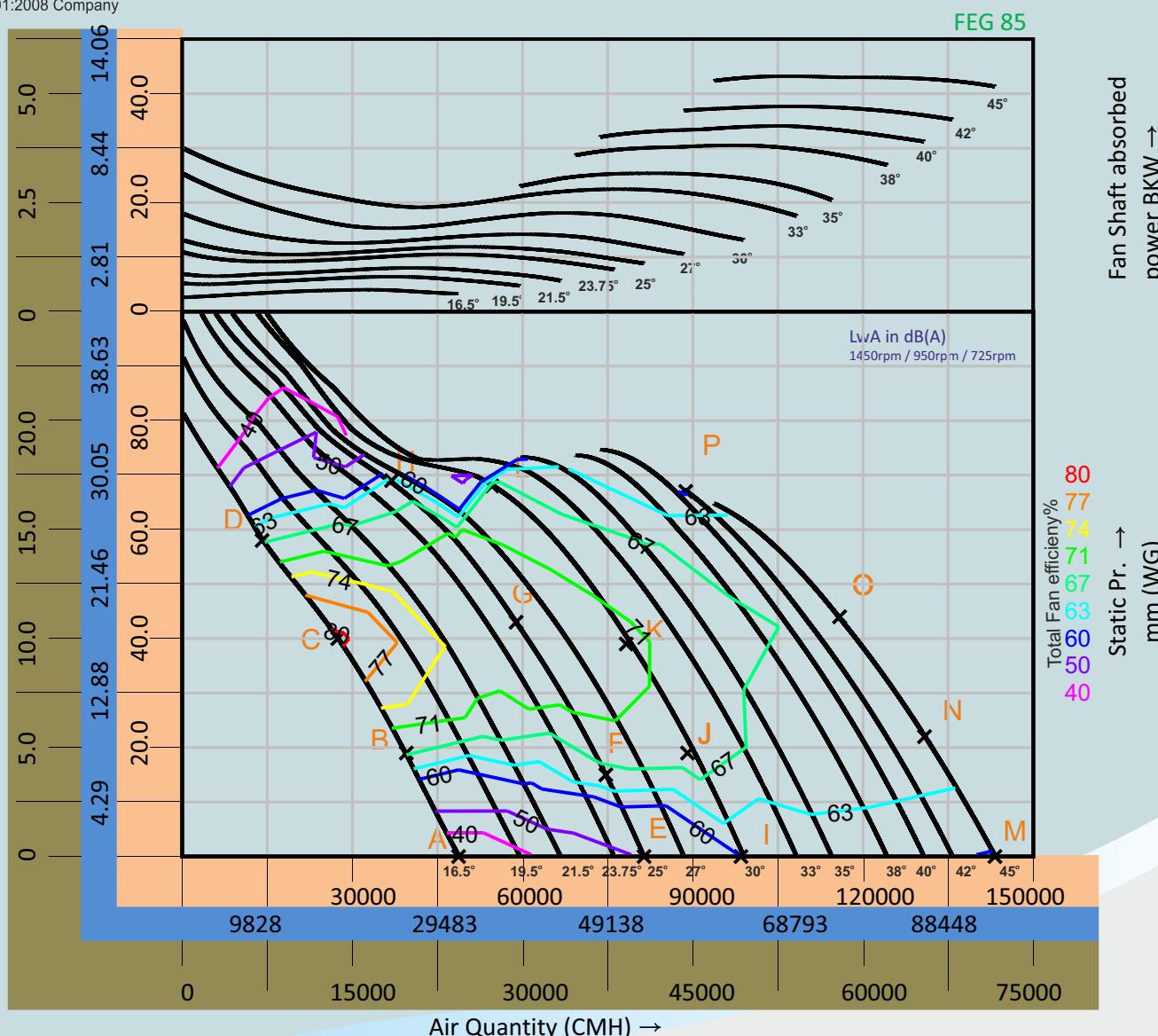


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■ FAN MODEL : AFPV4GVX-1250-389-6

50Hz

Fan outlet and Inlet area: 1.2278 sq. mtr.



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CMH	St. Pr. mmWG	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB								Overall	Loudness in Sones	FEI	Blade Angle
				63	125	250	500	1000	2000	4000	8000				
13714	10.04	725	0.490	88	97	92	83	78	77	76	90	31	2.485	16.5°	
44477	5.47	725	1.906	89	86	86	86	79	77	77	76	25	2.130	30.0°	
58281	9.39	950	4.288	94	96	92	91	86	84	83	82	92	37	1.724	30.0°
93840	0.08	950	11.616	98	101	99	98	92	89	86	83	97	48	1.288	45.0°

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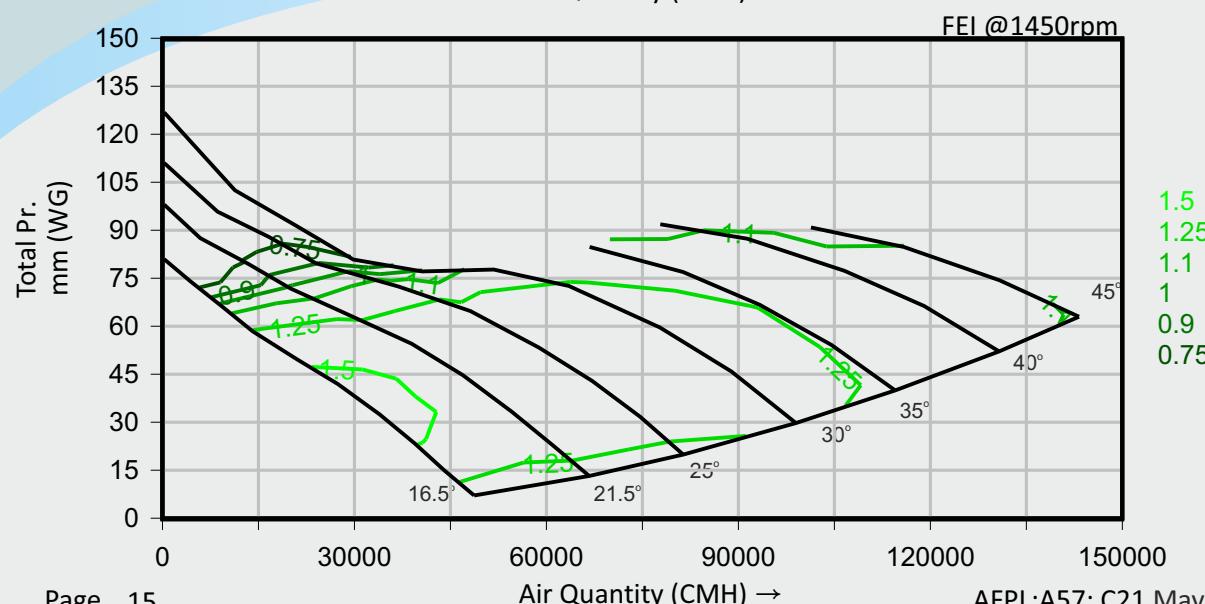
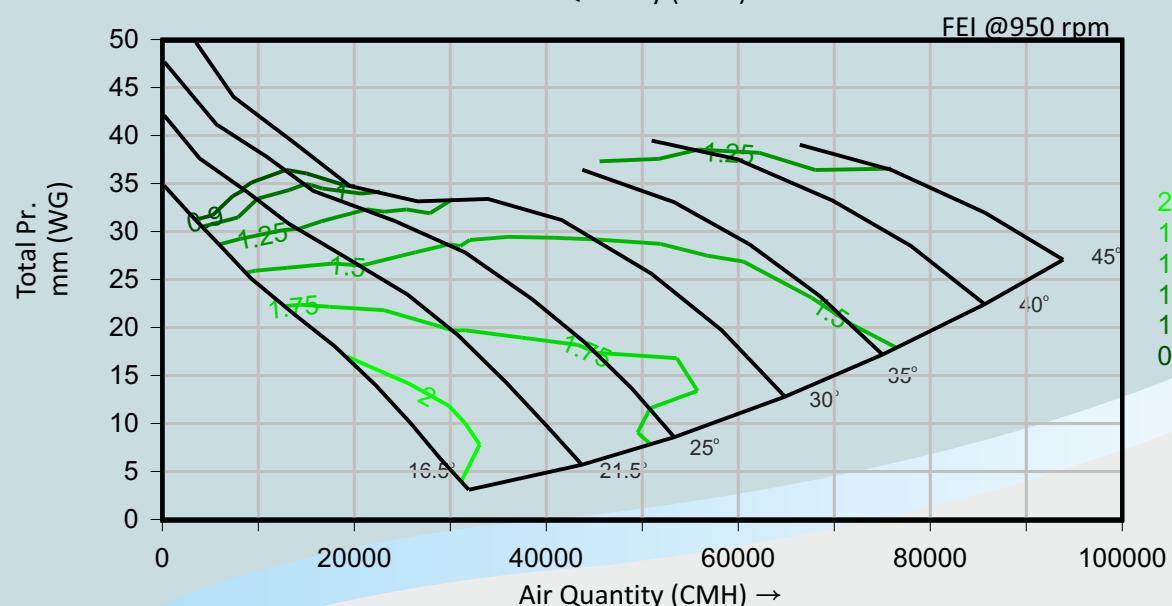
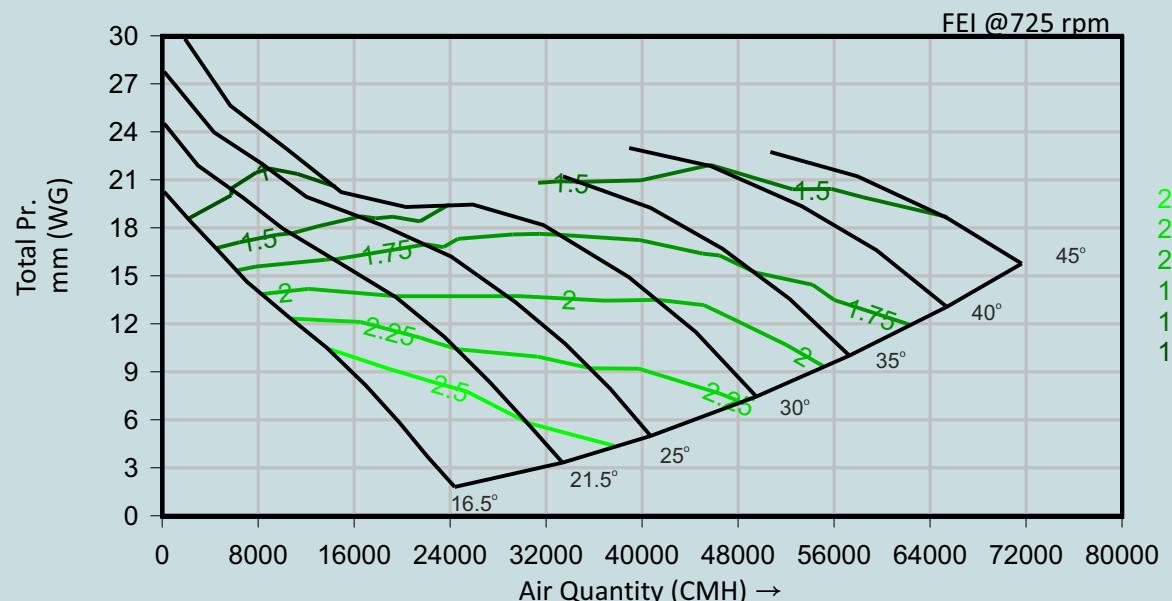


■ FAN MODEL : AFPV4GVX-1250-389-6

50Hz

Fan outlet and Inlet area: 1.2278 sq. mtr.

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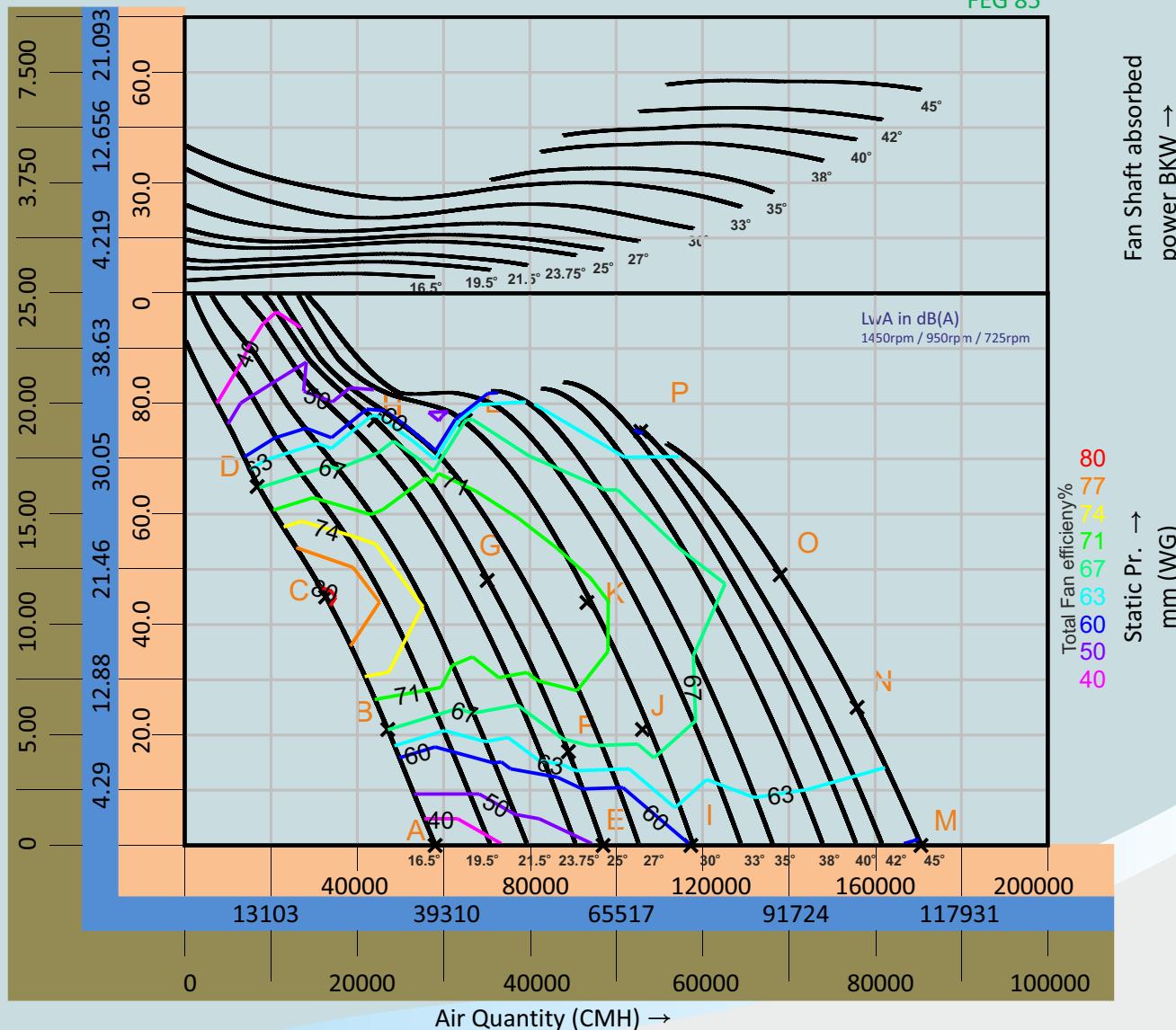
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■ FAN MODEL : AFPV4GVX-1325-412-6

50Hz

Fan outlet and Inlet area: 1.3794 sq. mtr.

FEG 85



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St. Pr. CMH	mmWG	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB								Loudness in Sones	FEI	Blade Angle	
				63	125	250	500	1000	2000	4000	8000	Overall			
16334	11.28	725	0.655	89	99	99	94	85	80	79	78	92	35	2.371	16.5°
52973	6.15	725	2.550	91	88	87	87	81	79	78	78	87	28	2.022	30.0°
69413	10.55	950	5.738	96	97	94	93	88	85	84	84	93	42	1.662	30.0°
111765	0.09	950	15.545	100	102	101	100	94	91	88	85	99	54	1.250	45.0°

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

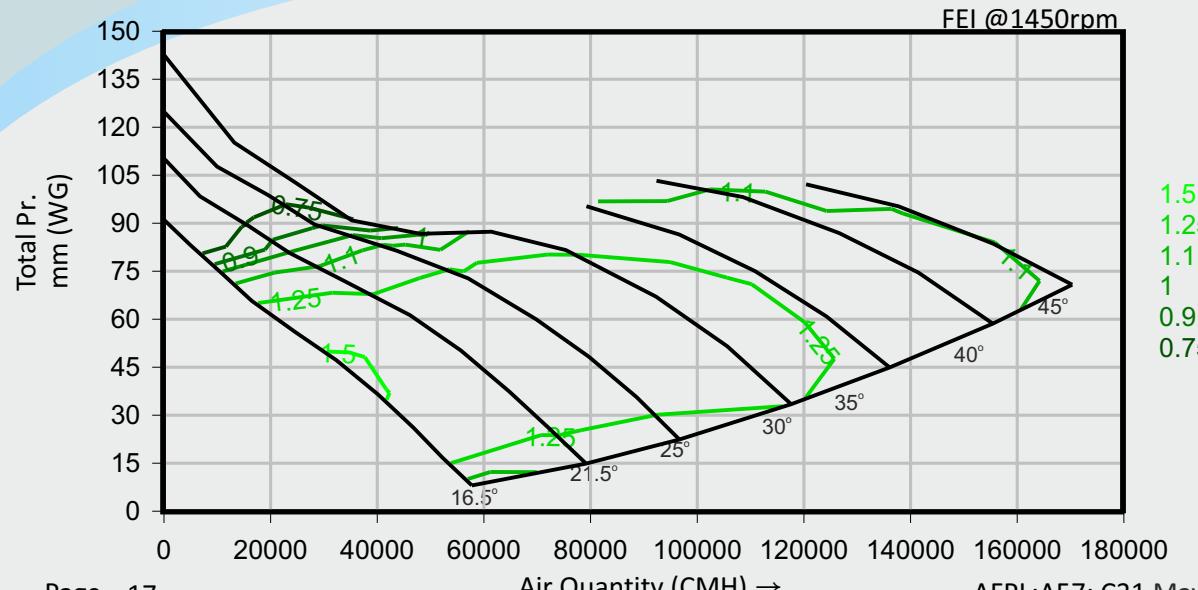
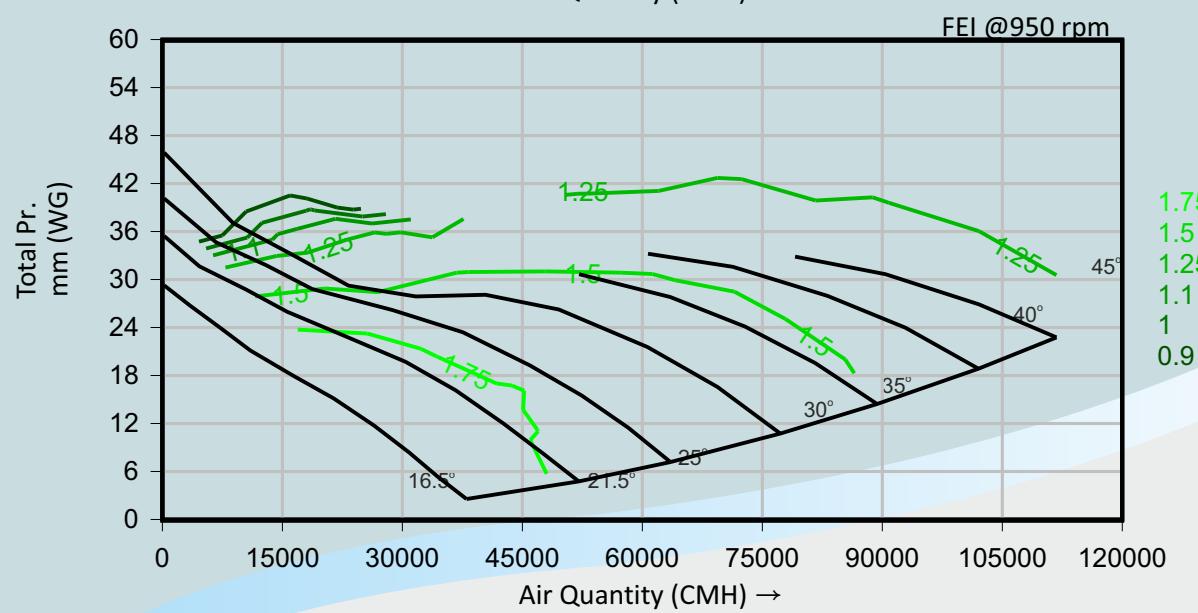
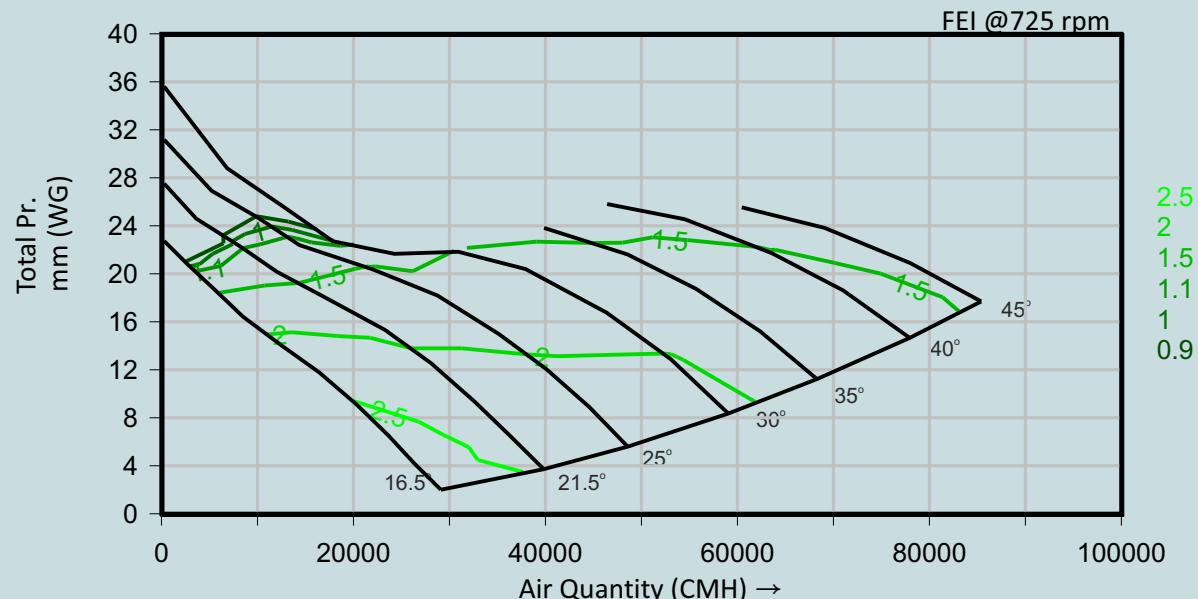


■ FAN MODEL : AFPV4GVX-1325-412-6

50Hz

Fan outlet and Inlet area: 1.3794 sq. mtr.

An ISO 9001:2008 Company





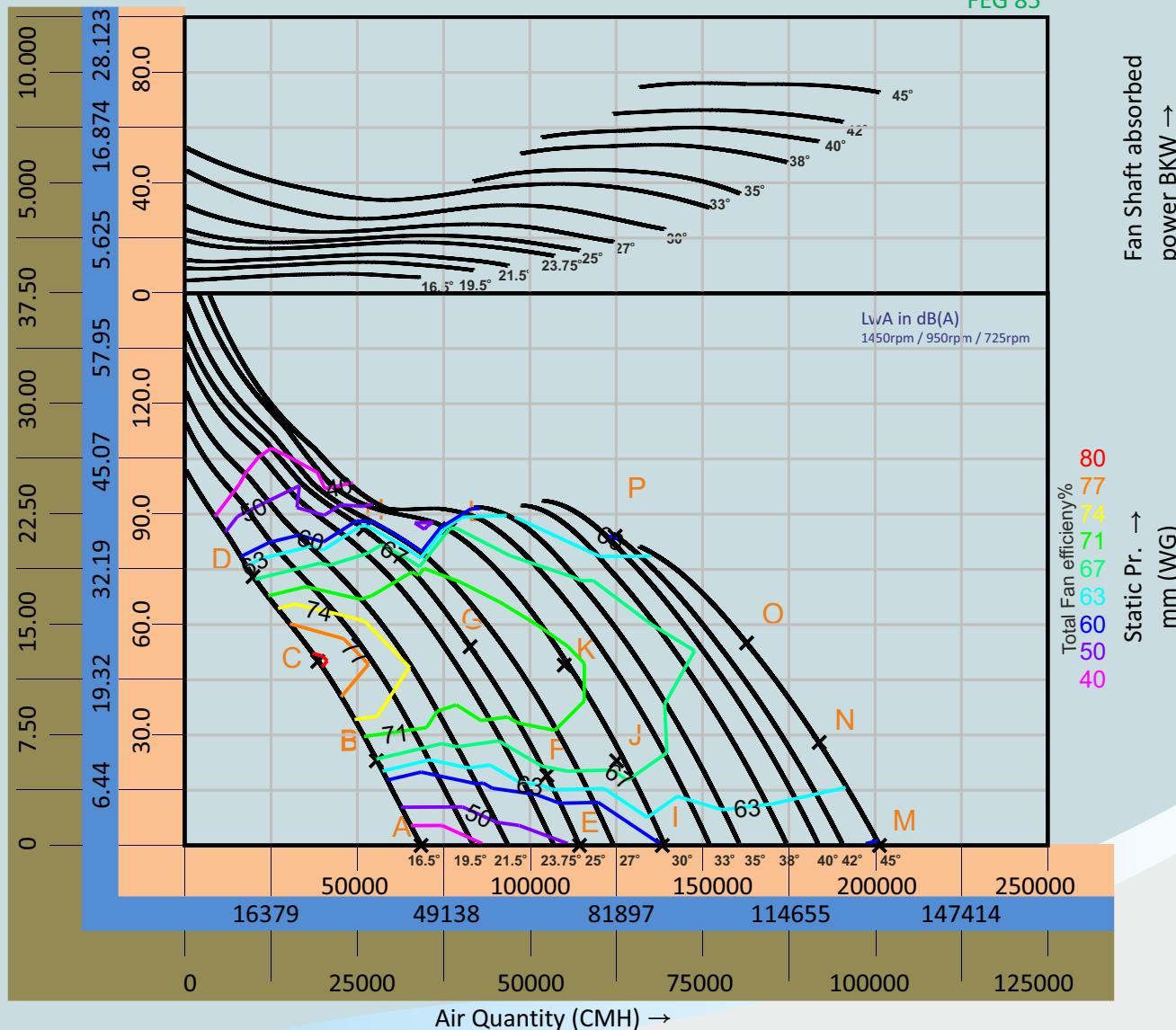
An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GVX-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 AFPV4GVX 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	F	G	H	I	J	K	L	M	
A 93 / 99 / 109	89 / 96 / 105				90 / 96 / 106				94 / 101 / 111	
B 95 / 101 / 112	89 / 95 / 105				89 / 95 / 105				94 / 100 / 111	
C 94 / 101 / 112	95 / 102 / 112				90 / 97 / 107				94 / 100 / 111	
D 88 / 95 / 105	96 / 103 / 115				99 / 106 / 118				100 / 107 / 118	
St. Pr. CMH	Sound Power Level dB	Power Level dB	Power Level dB	Power Level dB	Power Level dB	Power Level dB	Power Level dB	Power Level dB	Loudness in Sones	Blade Angle
19267 12.60	63	125	250	500	1000	2000	4000	8000	Overall	2.234 16.5°
62487 6.86	91	101	100	96	87	82	81	80	94	39 2.234 16.5°
81880 11.78	93	90	89	89	82	81	80	80	89	31 1.931 30.0°
131838 0.11	98	99	95	95	89	87	86	86	95	47 1.610 30.0°
	101	104	103	102	95	92	90	87	101	60 1.219 45.0°

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

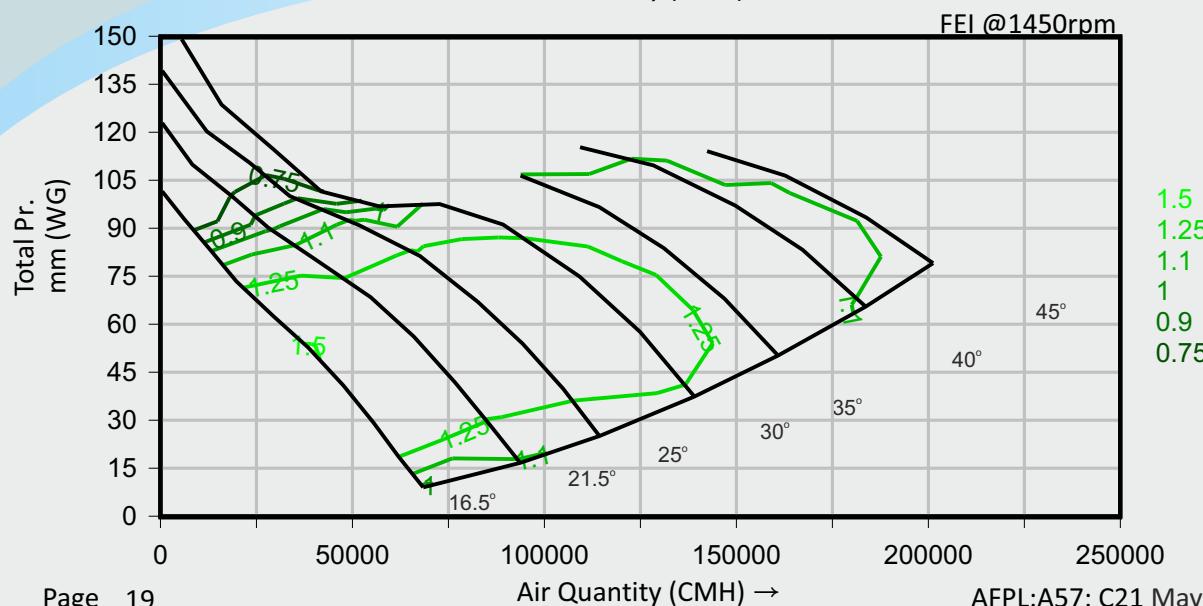
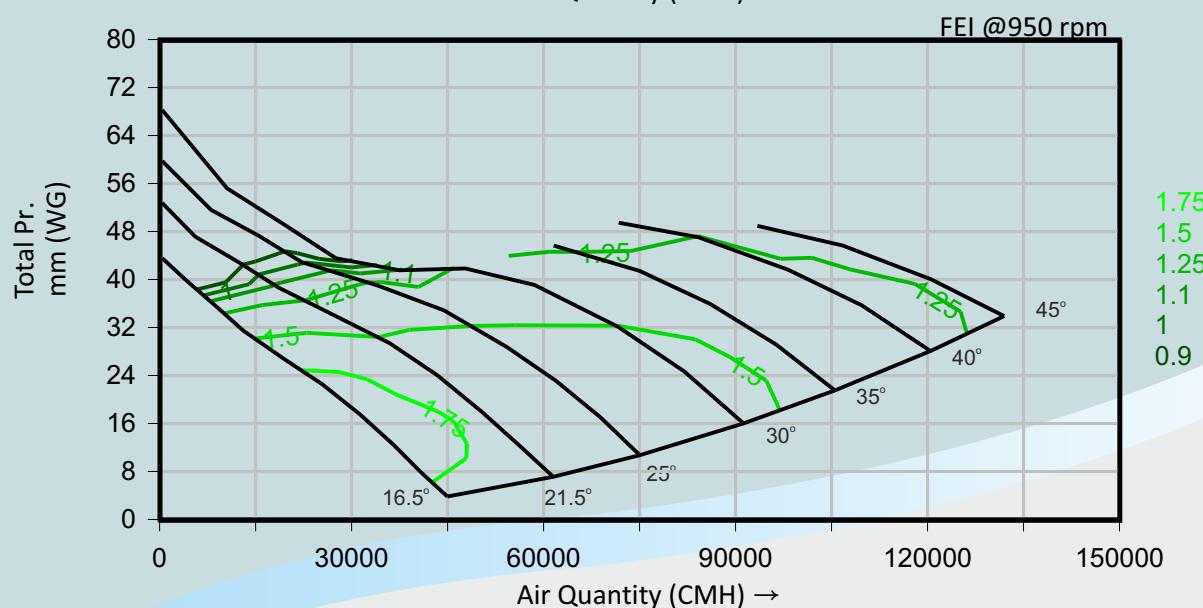
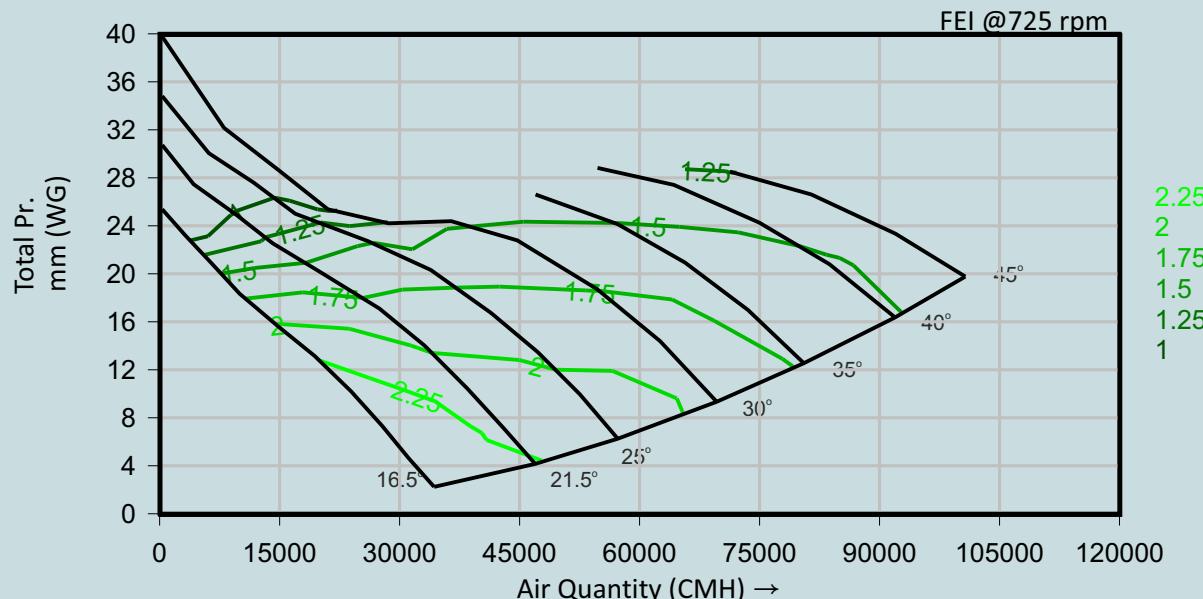


■ FAN MODEL : AFPV4GVX-1400-436-6

50Hz

Fan outlet and Inlet area: 1.5400 sq. mtr.

An ISO 9001:2008 Company





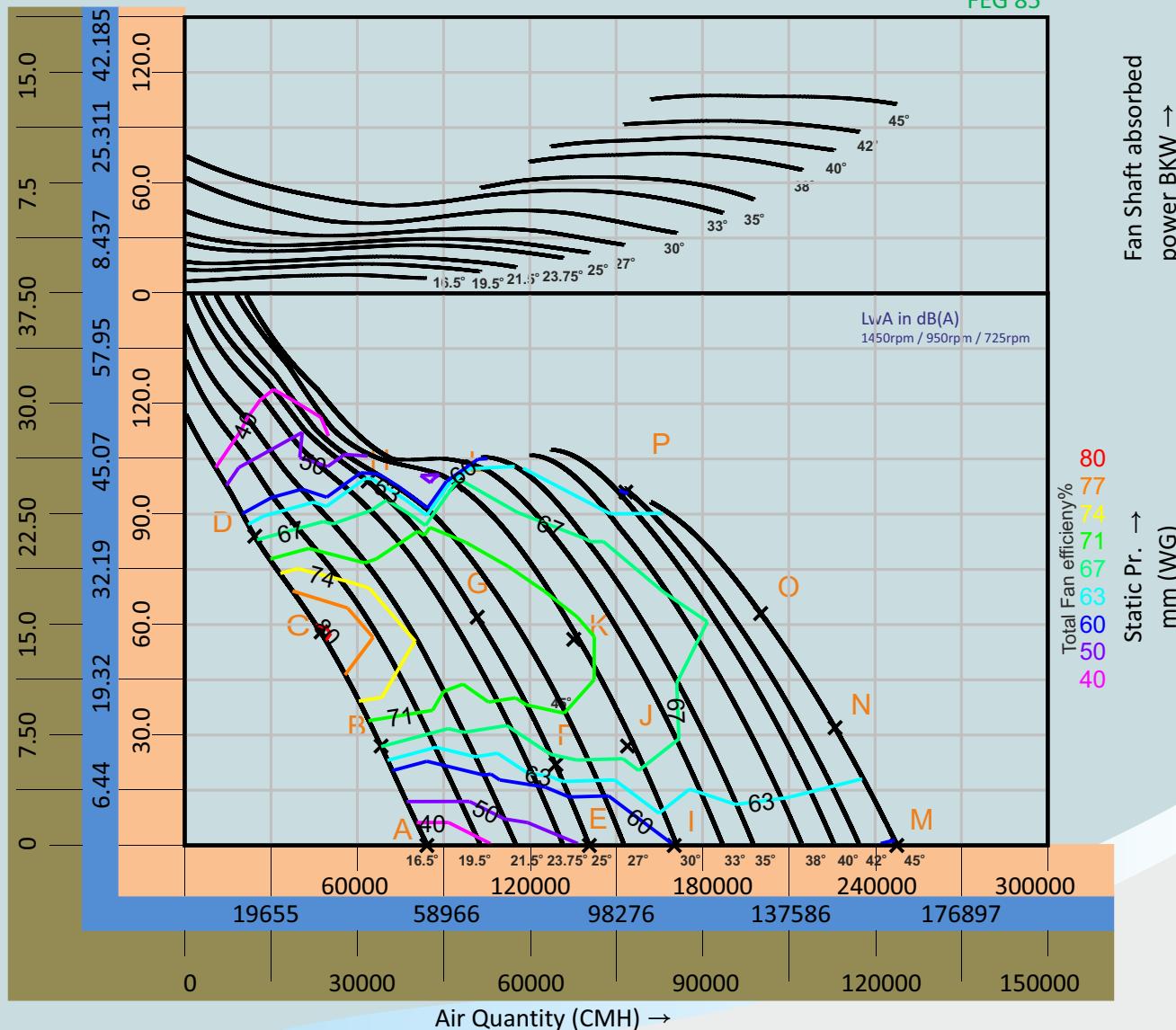
An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GVX-1500-467-6

50Hz

Fan outlet and Inlet area: 1.7679 sq. mtr.

FEG 85



1450rpm

950rpm

725rpm

<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	<b>AMCA WORLDWIDE CERTIFIED RATINGS</b>	Air Flow Pvt. Ltd. certifies that the Axial Flow Fan series AFPV4GVX 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		
	I	M	J	N	O	P			
A 95 / 102 / 112	E 91 / 98 / 107	I 92 / 98 / 108	M 96 / 103 / 113						
B 97 / 103 / 114	F 91 / 97 / 107	J 91 / 97 / 107	N 96 / 102 / 113						
C 96 / 103 / 114	G 97 / 104 / 114	K 92 / 99 / 109	O 96 / 103 / 113						
D 90 / 97 / 107	H 98 / 106 / 117	L 102 / 108 / 120	P 102 / 109 / 120						
St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	Blade Angle			
23698	14.46	725	63 125 250 500 1000 2000 4000 8000	96	44	2.099	16.5°		
76857	7.88	725	4.742 95 92 91 91 84 83 82 82	91	36	1.831	30.0°		
100709	13.52	950	10.669 100 101 97 97 91 89 88 88	97	54	1.552	30.0°		
162155	0.12	950	28.905 104 106 105 104 97 94 92 89 103	70	1.184	45.0°			

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

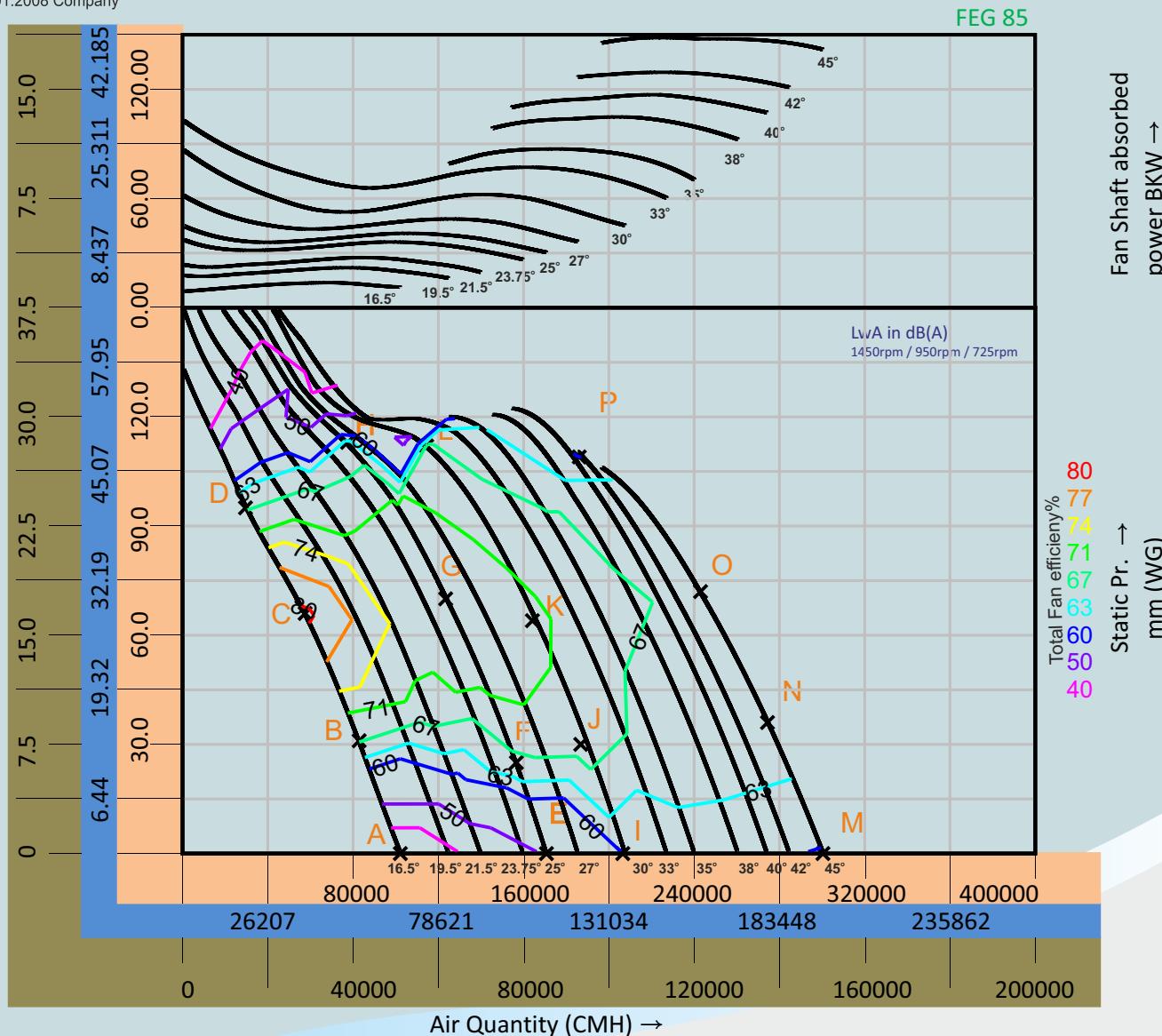


An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GVX-1600-498-6

50Hz

Fan outlet and Inlet area: 2.0114 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 AFPV4GVX 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 97 / 104 / 114	93 / 100 / 109	94 / 100 / 110	98 / 105 / 115						
B 99 / 105 / 116	F 93 / 99 / 109	J 93 / 99 / 109	N 98 / 104 / 115						
C 98 / 105 / 116	G 99 / 106 / 116	K 94 / 101 / 111	O 98 / 104 / 115						
D 92 / 99 / 109	H 100 / 108 / 119	L 103 / 110 / 122	P 104 / 111 / 122						
St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB	Overall	Loudness in Sones	Blade Angle			
28760	16.45	725	63 125 250 500 1000 2000 4000 8000	86 85 84 98	50	1.992	16.5°		
93276	8.96	725	6.548 97 94 93 93 86 85 84	84 93	40	1.750	30.0°		
122223	15.39	950	14.732 102 103 99 99 93 91 90	90 99	61	1.505	30.0°		
196796	0.14	950	39.913 106 108 107 106 99 96 94	91 105	80	1.156	45.0°		

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

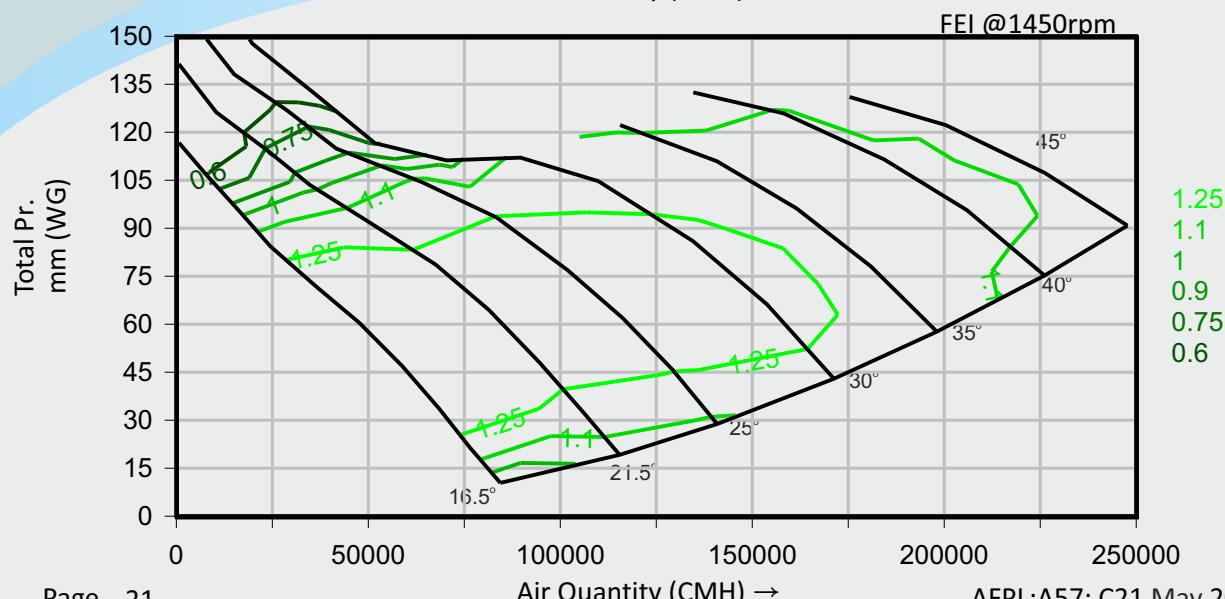
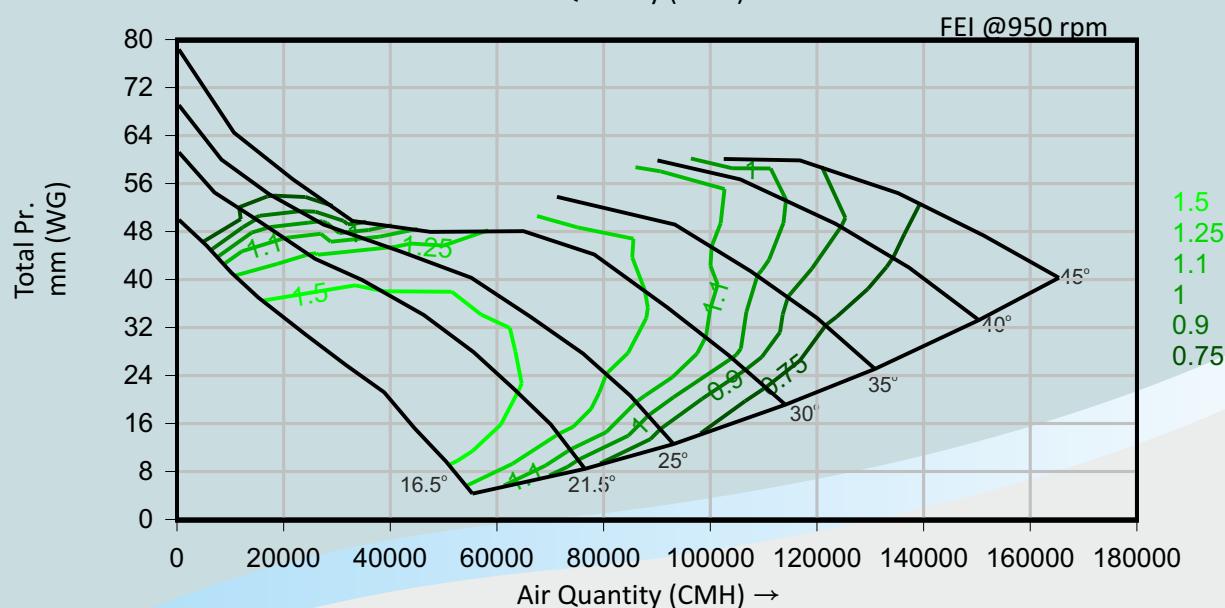
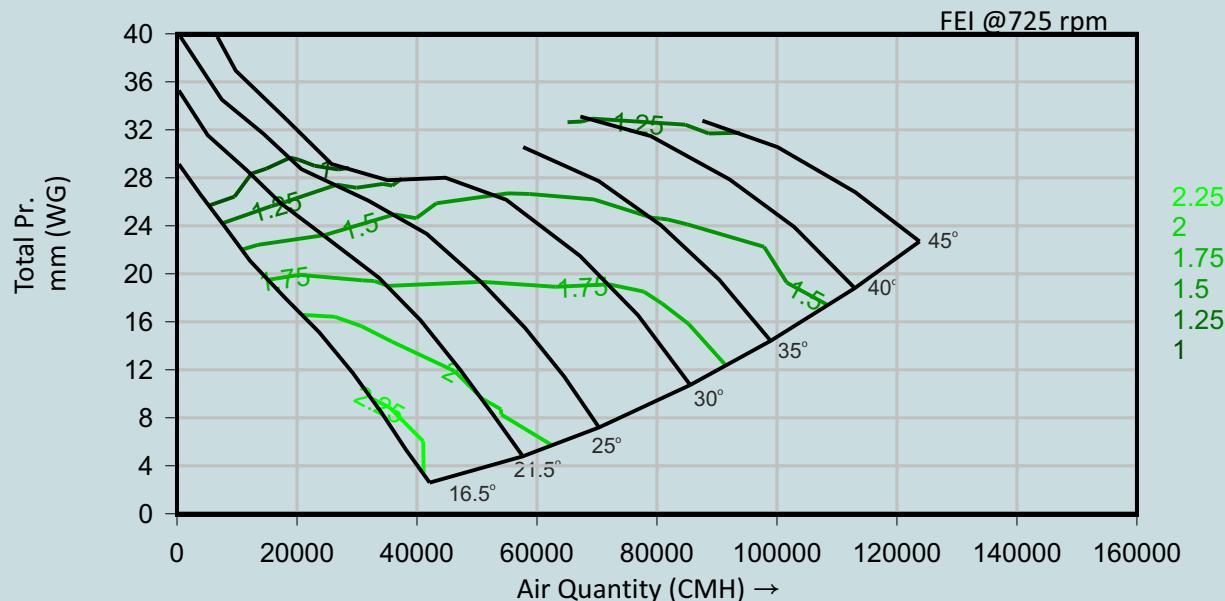


■ FAN MODEL : AFPV4GVX-1500-467-6

50Hz

Fan outlet and Inlet area: 1.7679 sq. mtr.

An ISO 9001:2008 Company



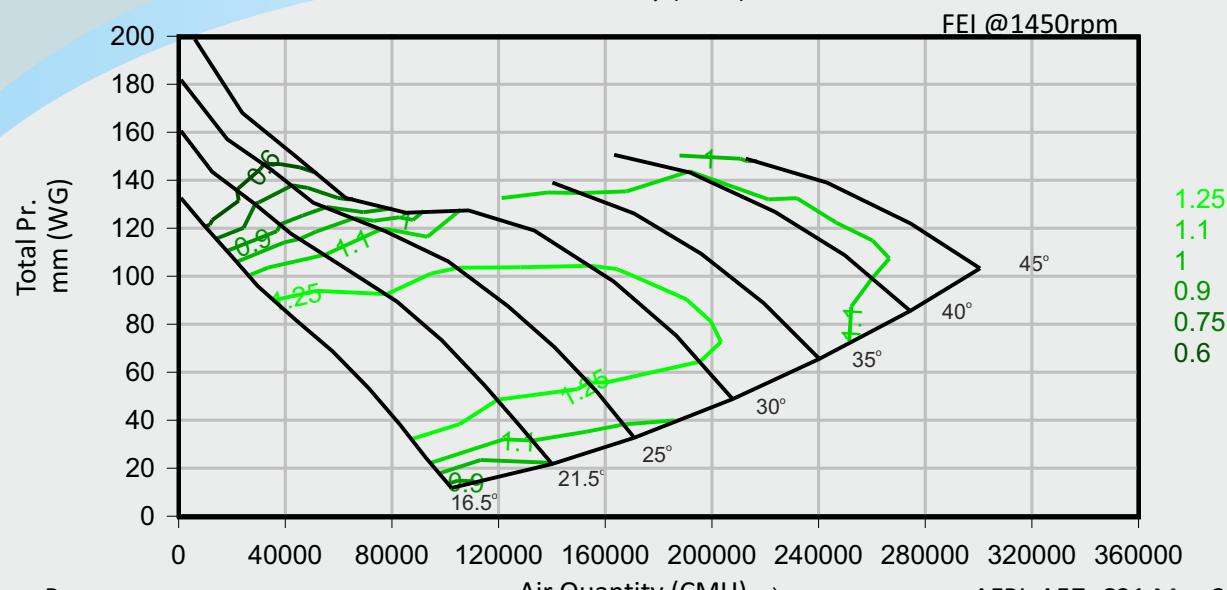
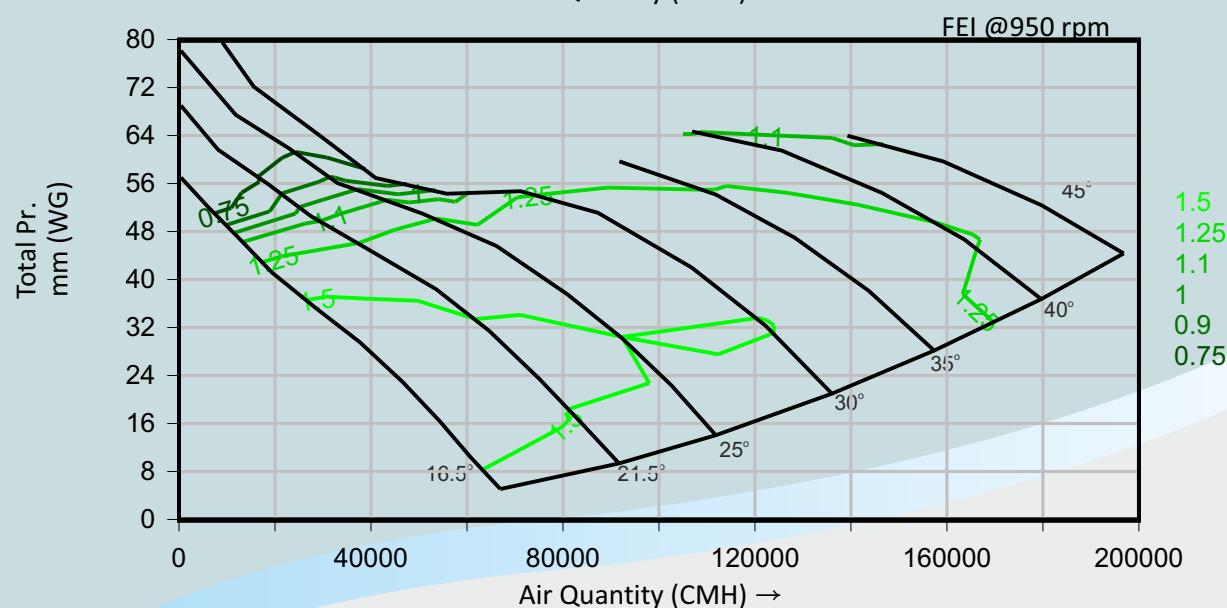
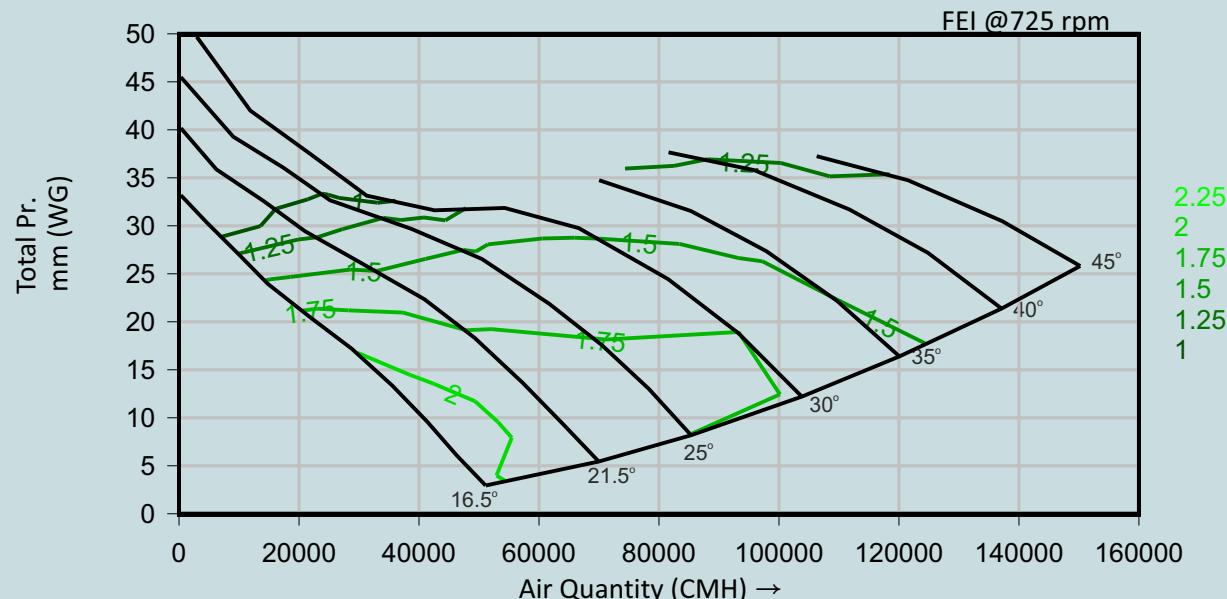


■ FAN MODEL : AFPV4GVX-1600-498-6

50Hz

Fan outlet and Inlet area: 2.0114 sq. mtr.

An ISO 9001:2008 Company



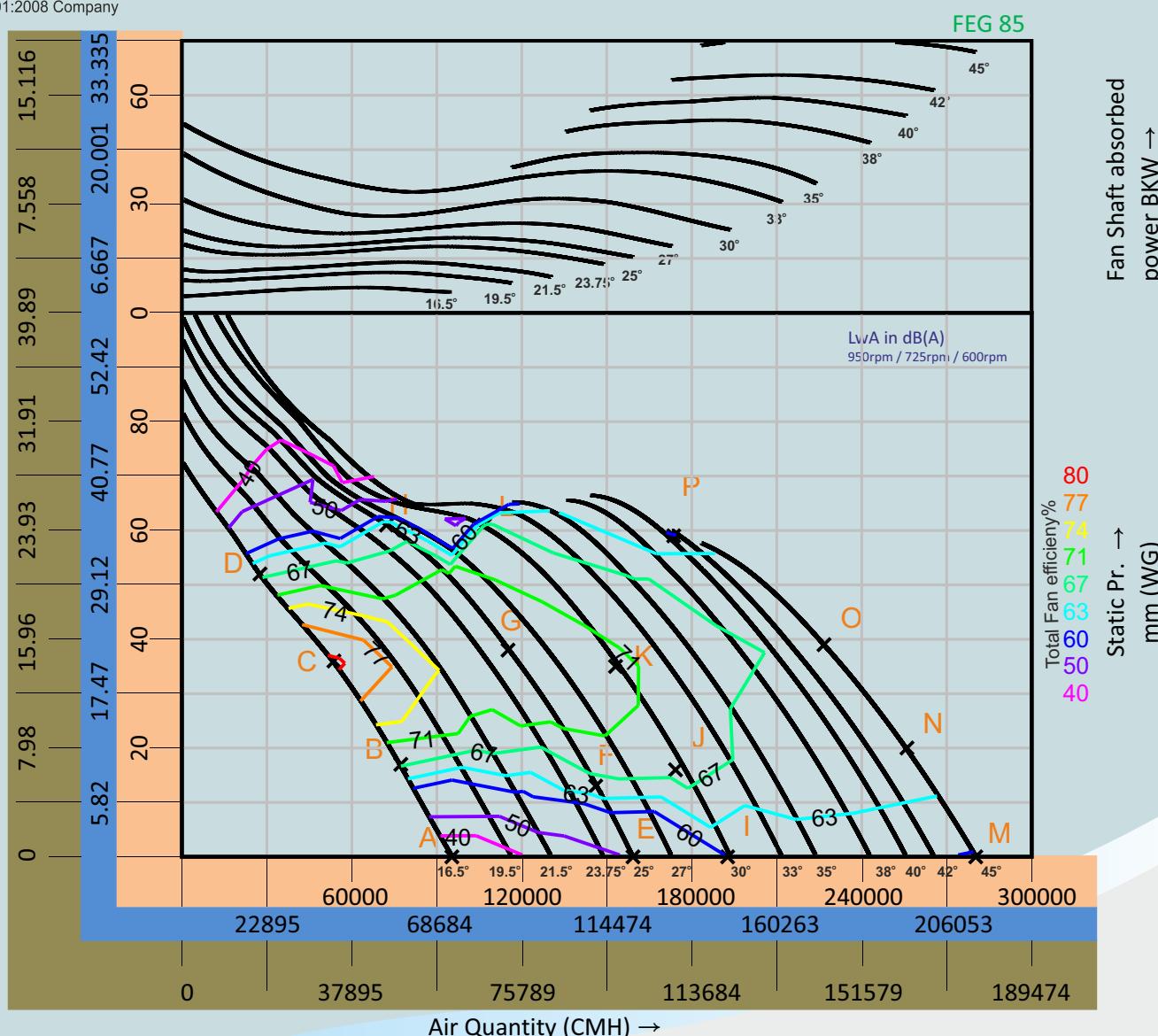


An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GVX-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 AFPV4GVX 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.

CMH	St. Pr. mmWG	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB								Overall	Loudness in Sones	FEI	Blade Angle
				63	125	250	500	1000	2000	4000	8000				
40950	20.82	725	3.032	99	108	108	104	94	89	88	87	101	64	1.833	16.5°
132809	11.34	725	11.800	100	97	97	97	90	88	88	87	96	51	1.628	30.0°
174025	19.47	950	26.548	105	107	103	102	97	95	94	93	103	79	1.434	30.0°
280204	0.18	950	71.924	109	112	110	110	103	100	97	94	108	104	1.112	45.0°

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

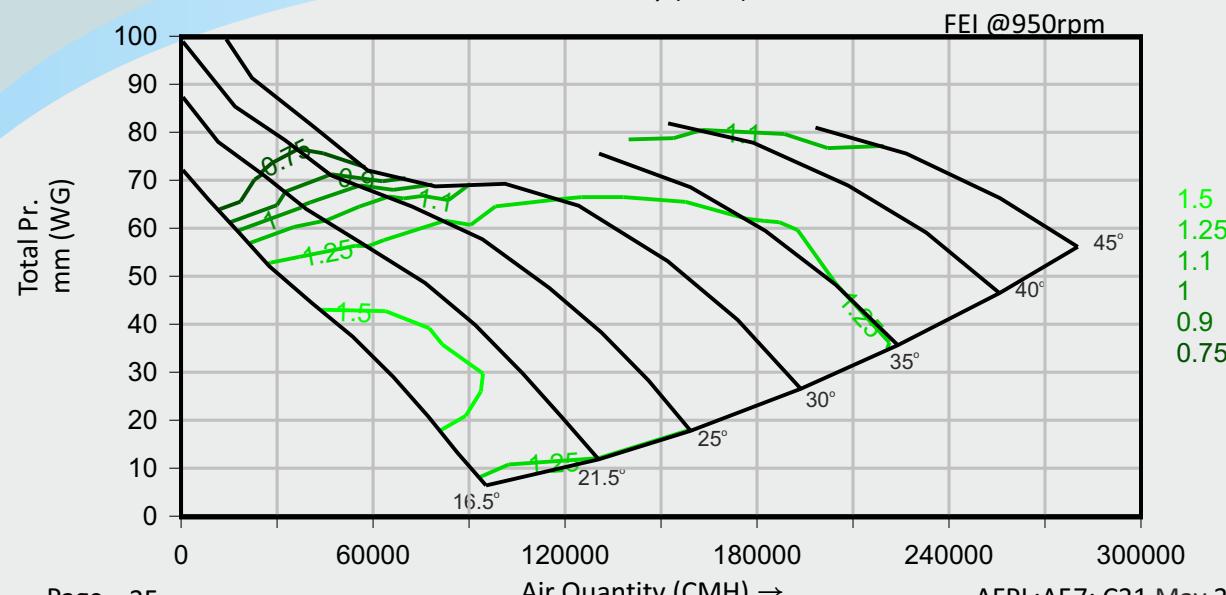
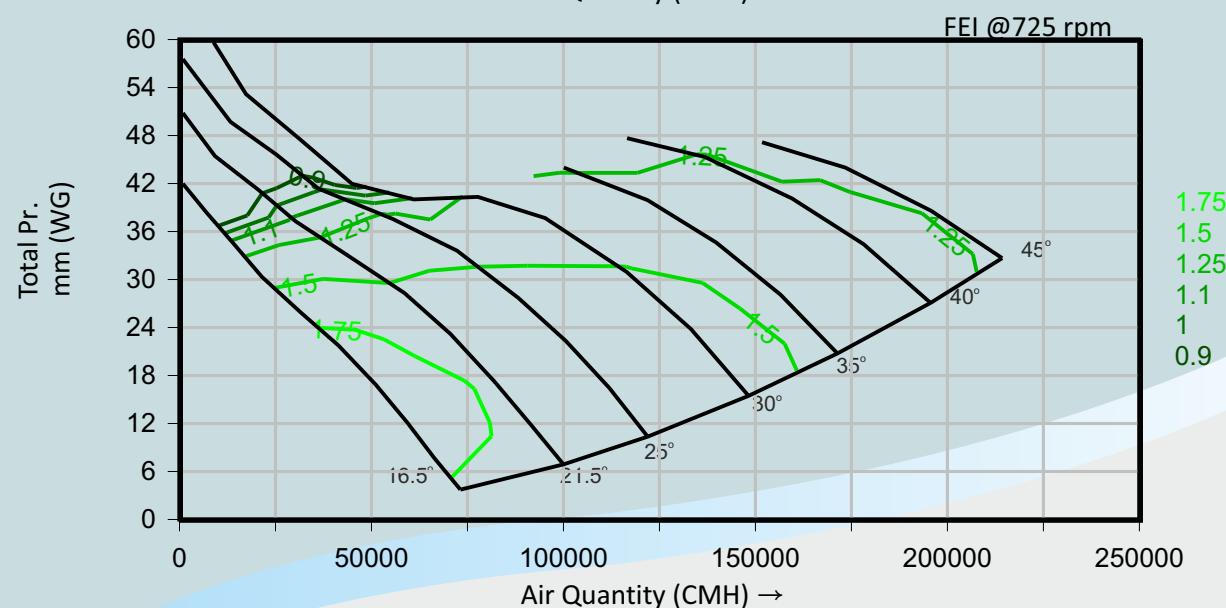
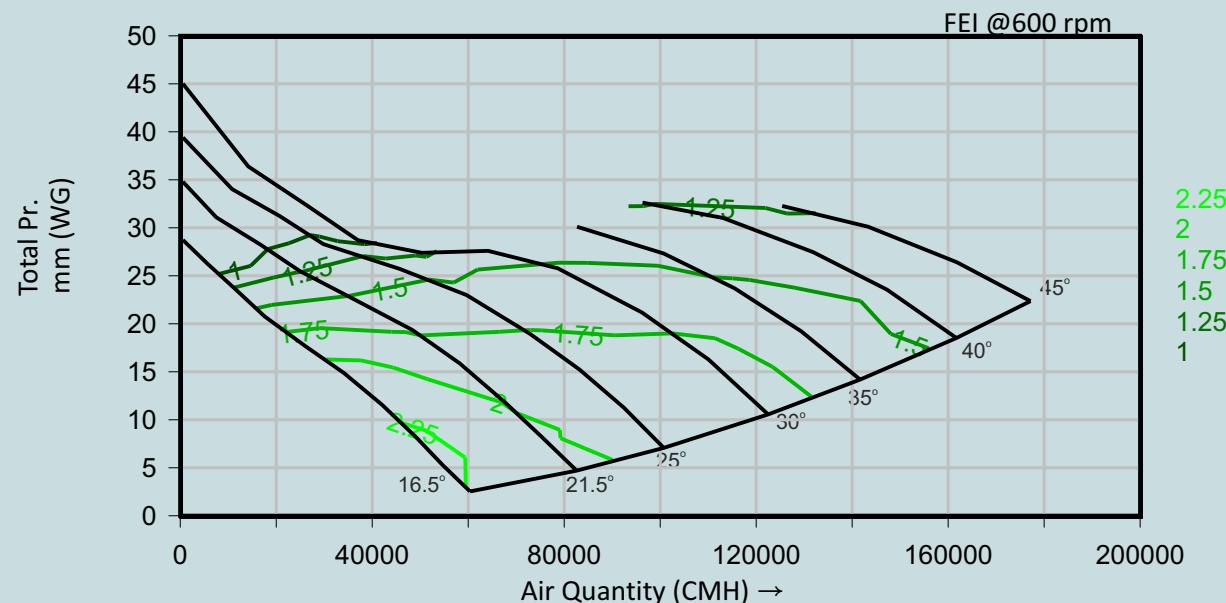


■ FAN MODEL : AFPV4GVX-1800-560-6

50Hz

Fan outlet and Inlet area: 2.5457 sq. mtr.

An ISO 9001:2008 Company



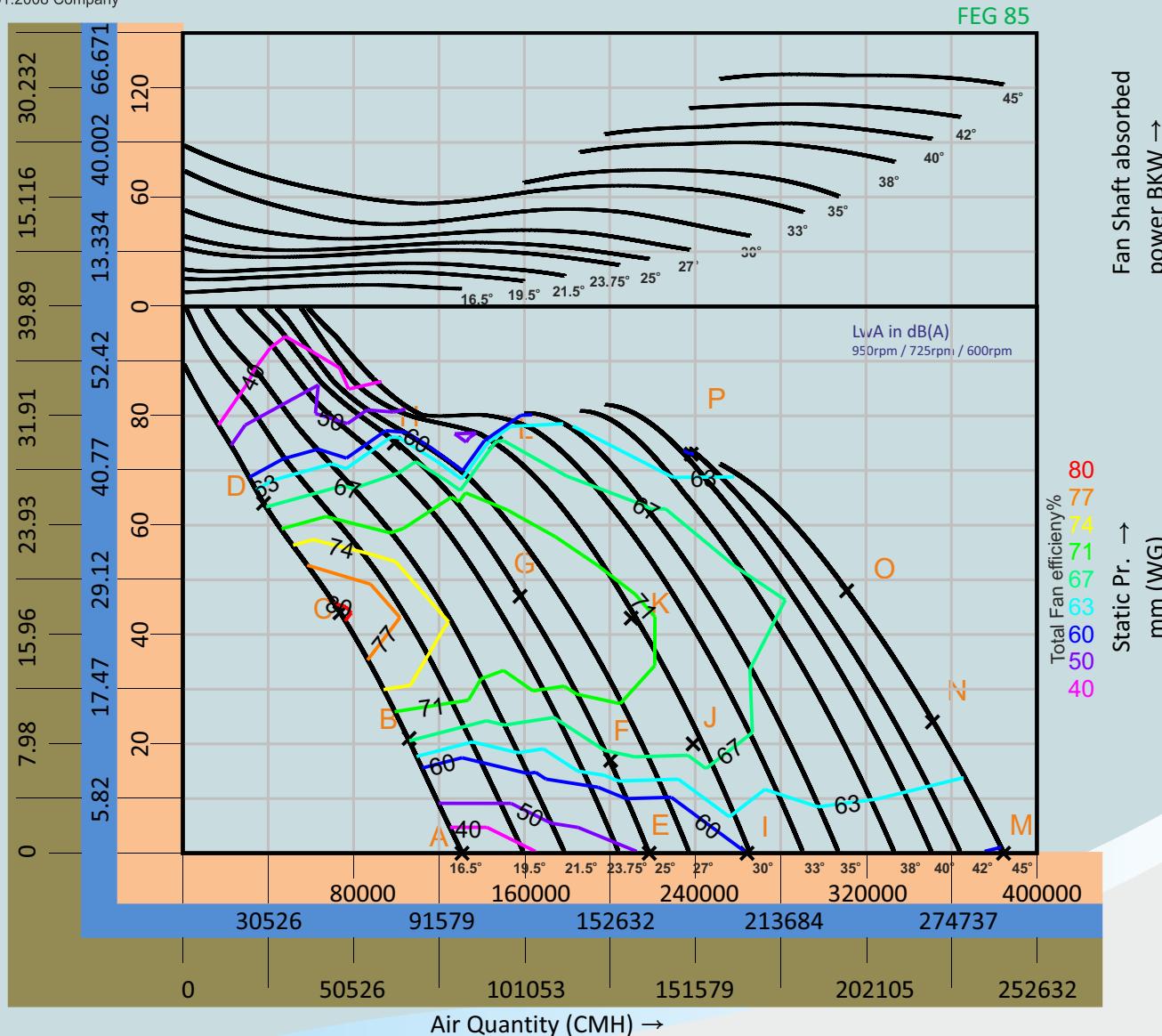


An ISO 9001:2008 Company

■ FAN MODEL : AFPV4GVX-2000-622-6

50Hz

Fan outlet and Inlet area: 3.1429 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 AFPV4GVX 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.

St. Pr. CMH	RPM	BKW	Sound Power Levels A-weighted (Lwi) dB								Overall	Loudness in Sones	FEI	Blade Angle	
			63	125	250	500	1000	2000	4000	8000					
56173	25.71	5.135	102	112	111	107	97	93	92	90	104	80	1.724	16.5°	
182179	14.00	725	19.983	104	101	100	99	91	91	90	99	64	1.541	30.0°	
238718	24.04	950	44.960	108	110	106	106	100	98	97	96	106	99	1.383	30.0°
384368	0.22	950	121.80	112	115	114	113	106	103	100	98	111	132	1.080	45.0°

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

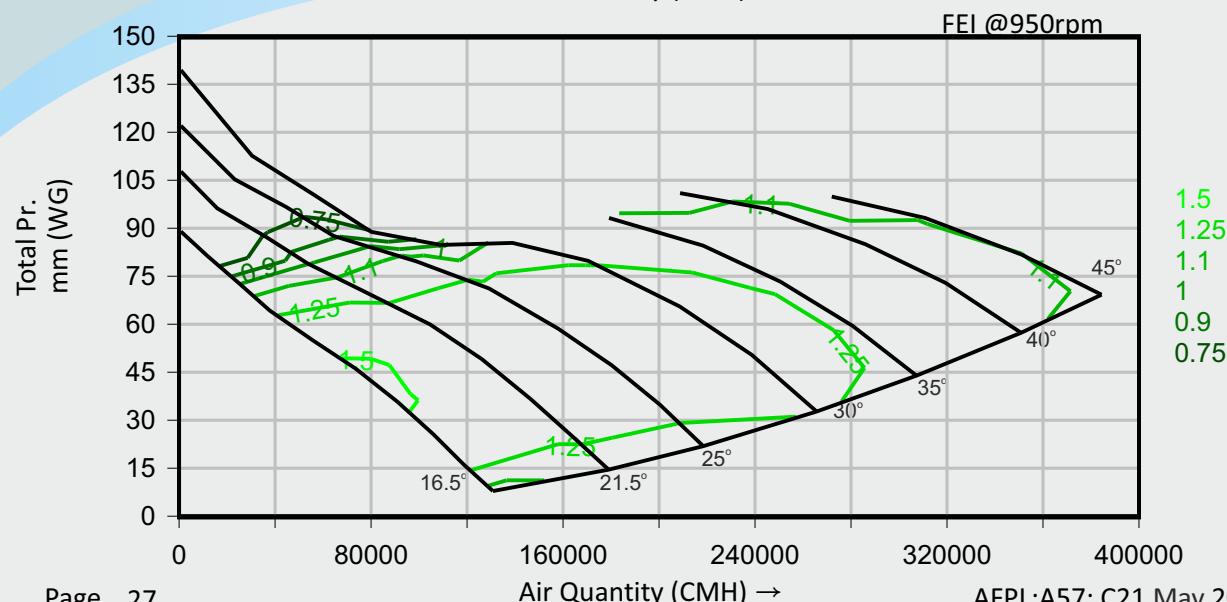
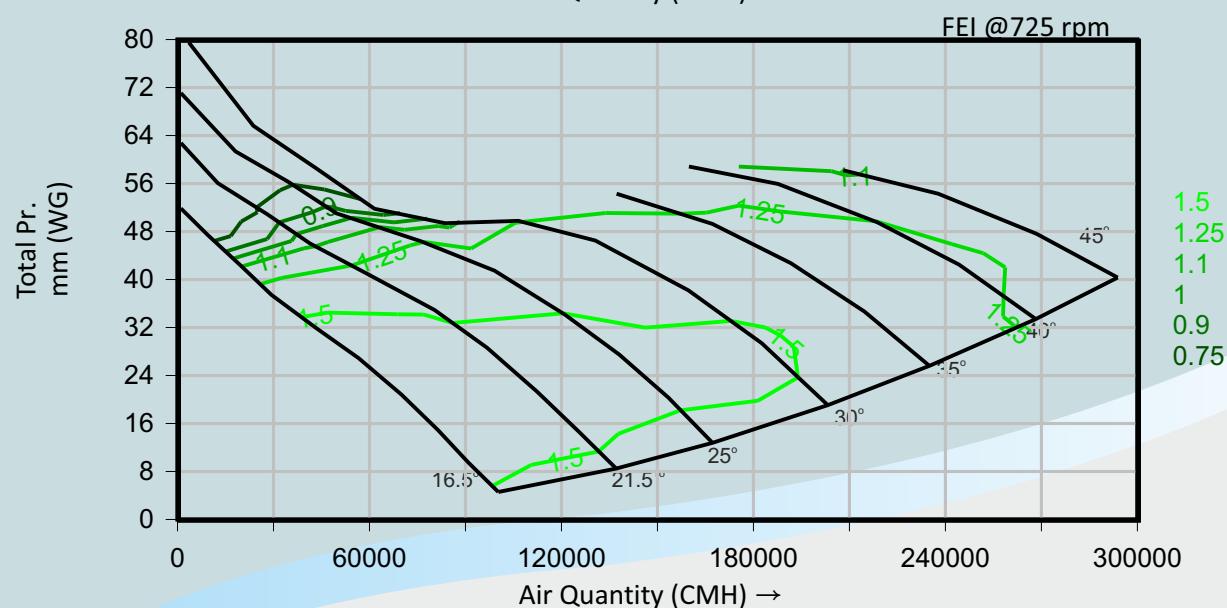
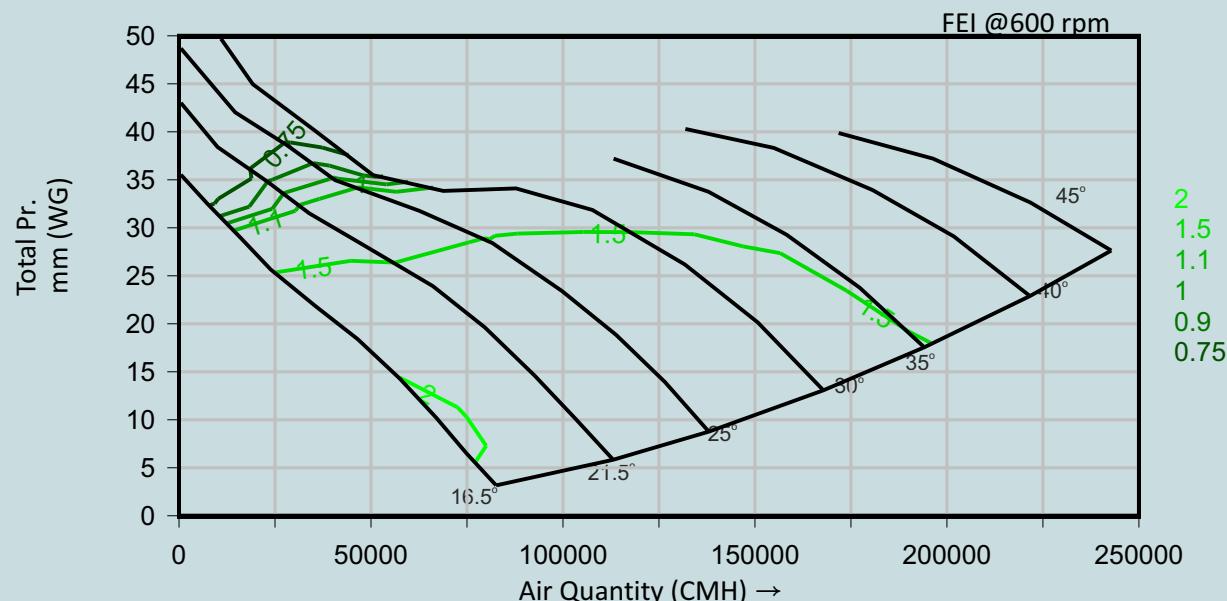


■ FAN MODEL : AFPV4GVX-2000-622-6

50Hz

Fan outlet and Inlet area: 3.1429 sq. mtr.

An ISO 9001:2008 Company





An ISO 9001:2008 Company

## AIR FLOW PVT. LTD.

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**Catalouge reference - AFPL:A57: C21 May 2022**