



**ELTAFANTECH
AXIAL FANS**

**amca
WORLDWIDE
CERTIFIED
RATINGS**

**SOUND
AND
AIR
PERFORMANCE**

**FEG
FAN EFFICIENCY
GRADE CERTIFIED**

**AIR
MOVEMENT
AND CONTROL
ASSOCIATION
INTERNATIONAL, INC.®**
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**ELTA
GROUP LIMITED**

ELTAFANTECH ASIA SDN BHD certifies that the Axial Fans 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



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ADJUSTABLE PITCH AXIAL FLOW FANS

FEATURES

The AP Series of duct mounted adjustable pitch axial flow fans is available in the following variants :

- AP series : direct-drive
- APV series : direct-drive vertical mounted

Construction

The casings are of mild steel and are hot-dip galvanised after manufacture. Impeller blades shall have an aerofoil section and be pressure die-cast aluminium, injection-moulded glass-reinforced plastic or nylon. Anti-static blades for hazardous applications up to 1400mm diameter, are also available.

Motors

Type-squirrel cage induction motor which can be selected to suit virtually any specification.

Electricity supply – single or three-phase to suit a wide range of voltages and frequencies.

Bearings – ball.

Motors to meet Australian Ex e, Ex d, Ex n or D.I.P Standards can be fitted.

Internal Thermal Protection

Can be provided as an optional extra.

Testing

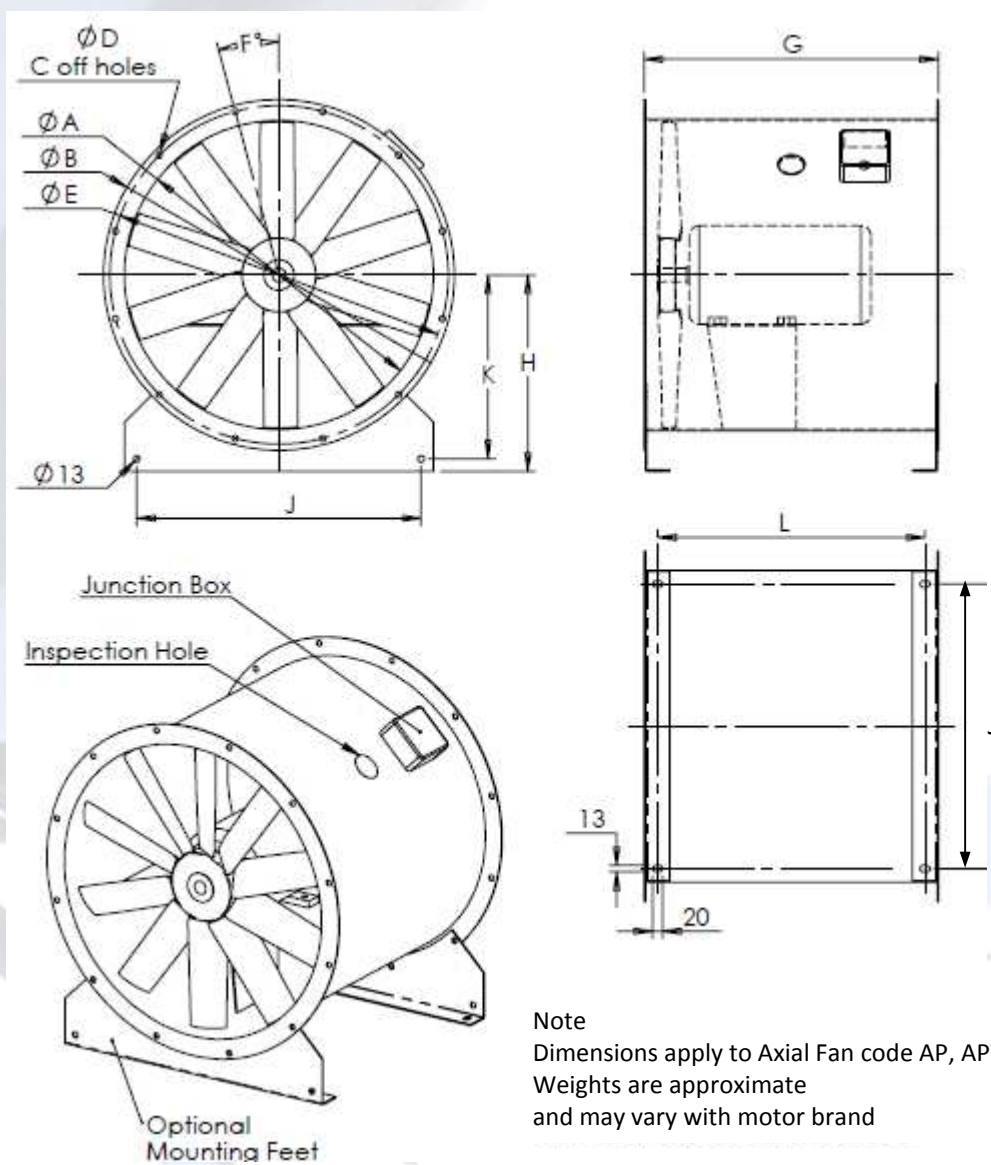
Air flow testing to AMCA Standard 210-07

Sound testing to AMCA Standard 300-08

Fan ranges described by this catalogue have been tested in the AMCA International Accredited Laboratory, in accordance with AMCA Standard 210-07 (figure 12, Installation Type D, Standard air density of 1.2Kg/m³).



DIMENSIONS



Note
Dimensions apply to Axial Fan code AP, APV
Weights are approximate
and may vary with motor brand

Fan Code	ϕA ID	ϕB OD	C	ϕD	ϕE PCD	F°	G	H	J	K	L	Wgt. kg
..056	560	645	12	12	620	15	400	355	510	330	345	57
..063	630	715	12	12	690	15	450	400	580	375	395	75
..071	710	795	16	12	770	11.25	450	450	660	425	395	94



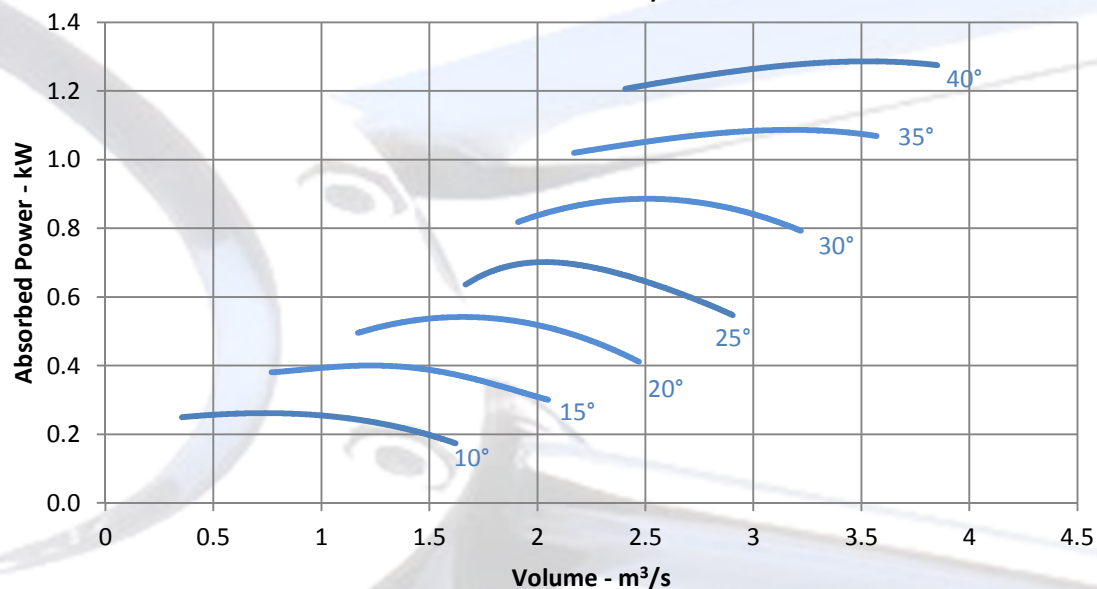
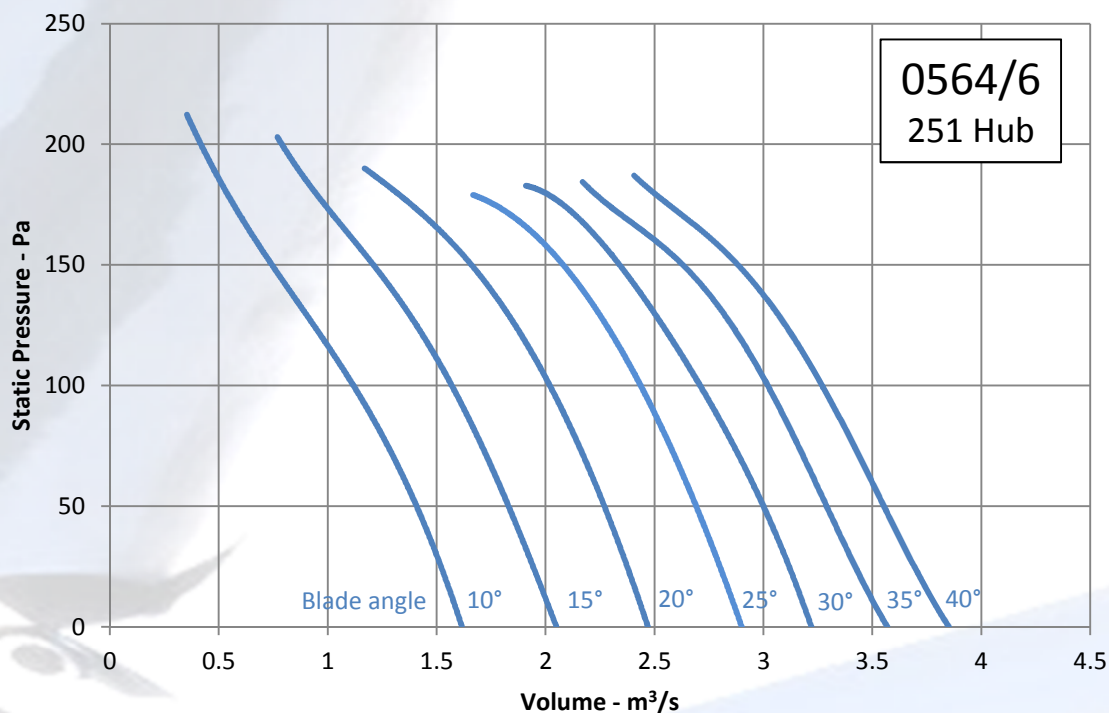
PERFORMANCE CURVES

AXIAL FAN AP0564HA6/10/15/20/25/30/35/40

Diameter : 560mm
Rated Power : 1.5kW

Hz: 50
Speed: 1440 rpm

Outlet area: 0.2463m²
FEG Grade: FEG63



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Performance certified is for Installation Type D: Ducted Inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories).



SOUND PERFORMANCE

Fan Model : AP0564HA6/10

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L _{wi} (dB) :	83	76	73	76	74	74	73	64	0	1.69	1497
Det. No. : 2 L _{wi} (dB) :	83	75	73	76	75	75	73	65	40	1.5	1490
Det. No. : 3 L _{wi} (dB) :	83	77	78	83	84	81	74	66	100	1.22	1489
Det. No. : 4 L _{wi} (dB) :	87	90	90	85	81	77	72	64	148	0.85	1487

Fan Model : AP0564HA6/25

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L _{wi} (dB) :	86	84	79	78	77	77	75	68	0	2.98	1477
Det. No. : 2 L _{wi} (dB) :	88	84	78	78	76	76	74	67	89	2.55	1472
Det. No. : 3 L _{wi} (dB) :	88	85	81	79	77	76	74	67	129	2.34	1472
Det. No. : 4 L _{wi} (dB) :	88	85	83	83	79	79	75	69	171	2.03	1471

Fan Model : AP0564HA6/40

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L _{wi} (dB) :	93	89	83	85	81	79	76	71	0	3.87	1446
Det. No. : 2 L _{wi} (dB) :	94	89	82	85	80	79	76	71	48	3.58	1445
Det. No. : 3 L _{wi} (dB) :	95	89	82	84	81	80	76	72	116	3.18	1445
Det. No. : 4 L _{wi} (dB) :	97	89	82	84	83	81	77	72	187	2.52	1449



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The Sound Power Level ratings shown are in decibels referred to 10-12 watts calculated per AMCA International Standard 301. Values shown are for inlet L_{wi} sound power levels for Installation type D: Ducted Inlet, Ducted Outlet. Ratings include the effect of duct end correction.



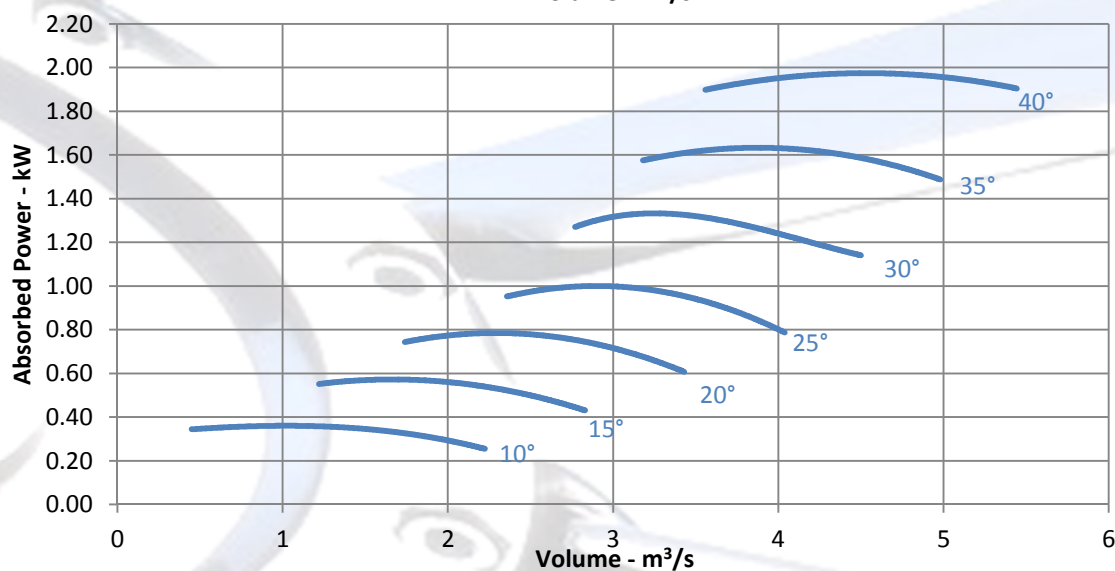
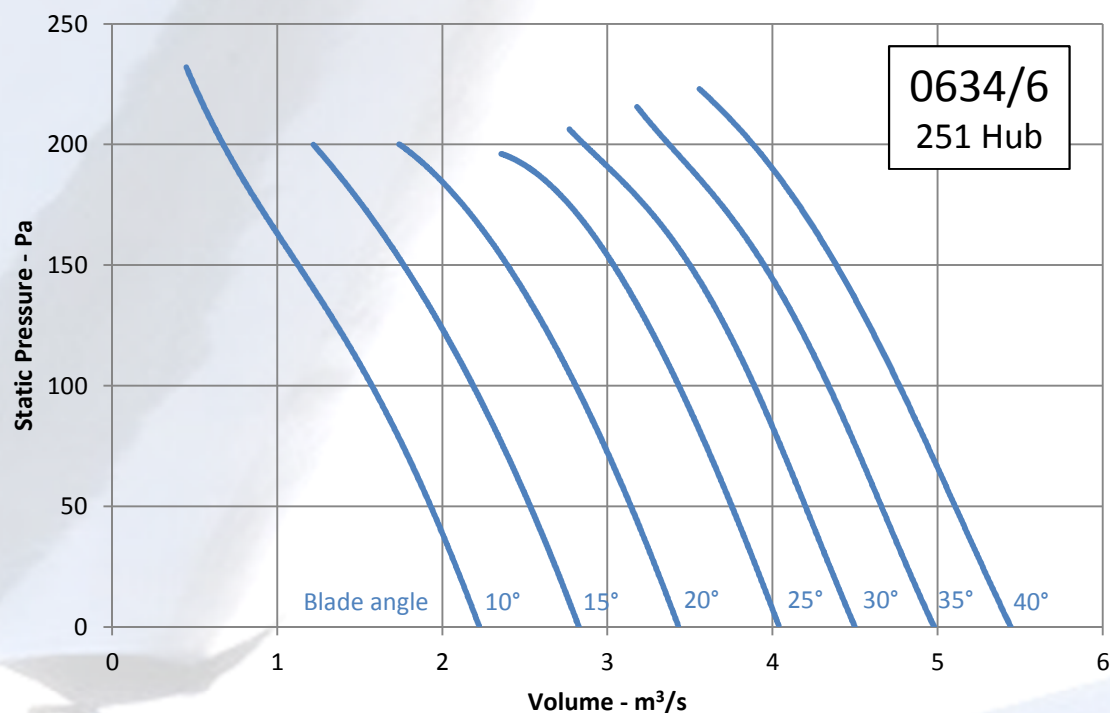
PERFORMANCE CURVES

AXIAL FAN AP0634HA6/10/15/20/25/30/35/40

Diameter : 630mm
Rated Power : 2.2kW

Hz : 50
Speed: 1440 rpm

Outlet area: 0.3117m²
FEG Grade: FEG67



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SOUND PERFORMANCE

Fan Model : AP0634HA6/10

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L_{wi} (dB) :	81	75	76	78	78	76	78	69	17	2.3	1491
Det. No. : 2 L_{wi} (dB) :	81	75	75	78	78	78	78	70	35	2.13	1492
Det. No. : 3 L_{wi} (dB) :	83	79	83	89	88	84	78	70	102	1.67	1491
Det. No. : 4 L_{wi} (dB) :	87	95	90	88	84	80	75	67	164	1.13	1492

Fan Model : AP0634HA6/25

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L_{wi} (dB) :	85	83	80	81	81	79	78	72	0	4.16	1483
Det. No. : 2 L_{wi} (dB) :	87	84	80	81	80	78	77	72	105	3.51	1479
Det. No. : 3 L_{wi} (dB) :	87	85	81	82	81	80	78	72	155	3.16	1477
Det. No. : 4 L_{wi} (dB) :	89	86	86	88	86	83	79	74	196	2.6	1475

Fan Model : AP0634HA6/40

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L_{wi} (dB) :	93	89	84	85	83	81	79	75	0	5.49	1452
Det. No. : 2 L_{wi} (dB) :	92	89	83	85	83	82	79	76	80	4.95	1450
Det. No. : 3 L_{wi} (dB) :	93	91	83	84	84	84	80	76	132	4.58	1451
Det. No. : 4 L_{wi} (dB) :	95	90	84	85	86	85	80	76	213	3.86	1457



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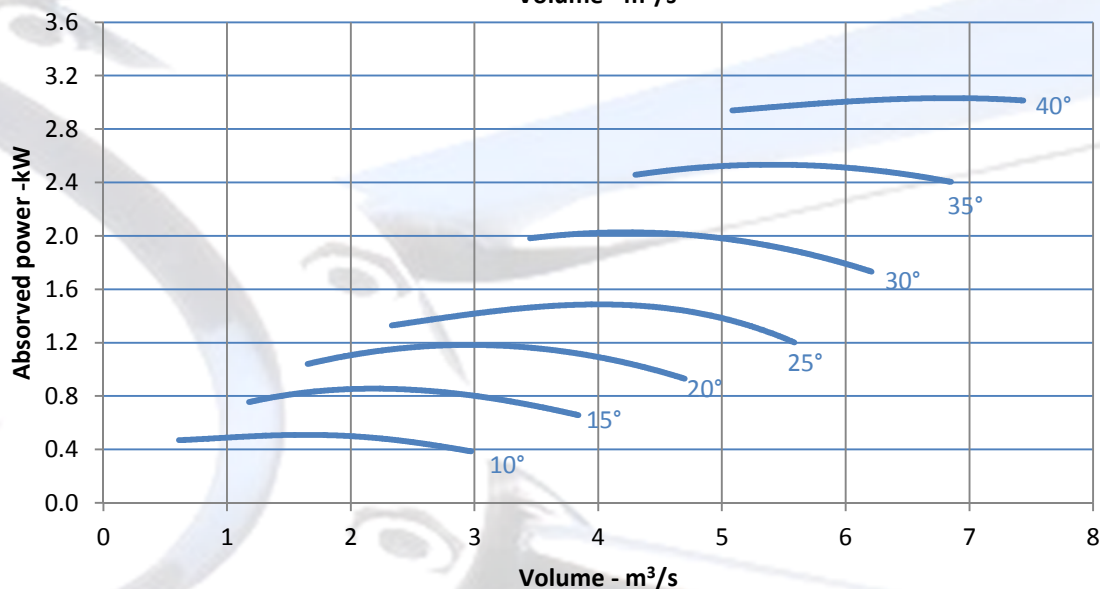
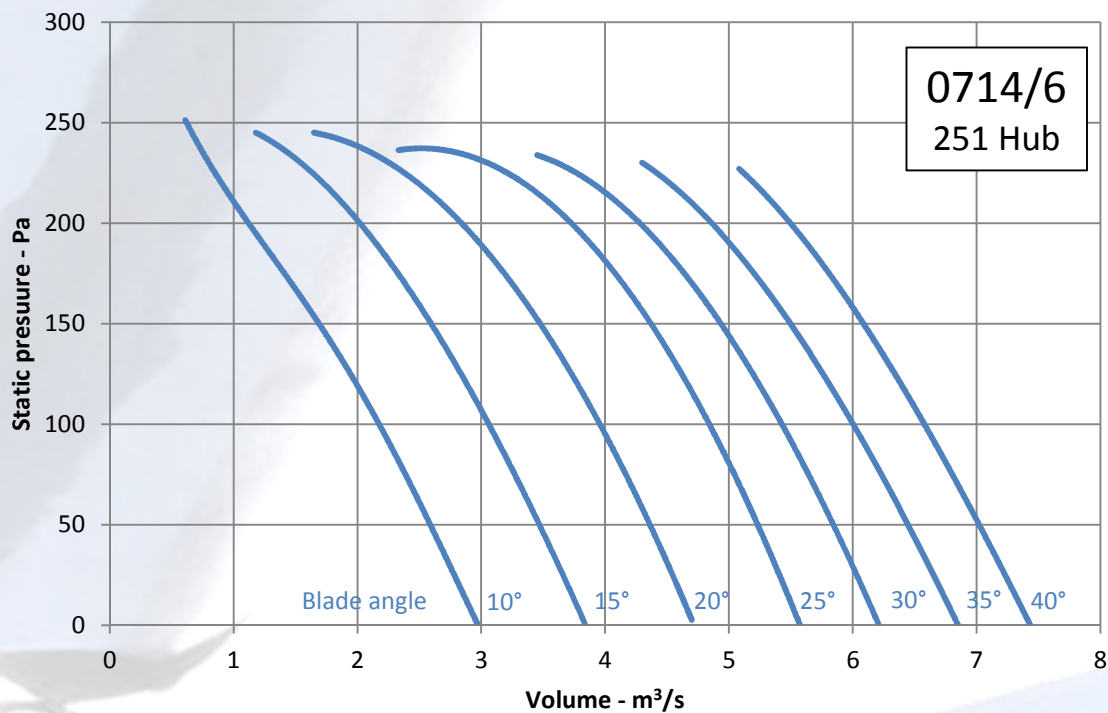
PERFORMANCE CURVES

AXIAL FAN AP0714HA6/10/15/20/25/30/35/40

Diameter : 710mm
Rated Power : 4.0 kW

Hz: 50
Speed: 1440 rpm

Outlet area: 0.3959m²
FEG Grade: FEG67



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Performance certified is for Installation Type D: Ducted Inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances (accessories).



SOUND PERFORMANCE

Fan Model : AP0714HA6/10

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L _{wi} (dB) :	82	81	80	82	82	79	82	74	0	3.1	1500
Det. No. : 2 L _{wi} (dB) :	83	81	80	84	88	86	83	75	72	2.55	1496
Det. No. : 3 L _{wi} (dB) :	85	84	91	92	90	85	80	73	146	1.93	1497
Det. No. : 4 L _{wi} (dB) :	86	89	85	84	82	81	78	71	221	1.1	1497

Fan Model : AP0714HA6/25

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L _{wi} (dB) :	88	88	84	86	84	82	81	76	0	5.77	1487
Det. No. : 2 L _{wi} (dB) :	87	88	83	85	83	82	80	76	115	4.89	1484
Det. No. : 3 L _{wi} (dB) :	89	89	87	89	87	85	82	77	178	4.32	1485
Det. No. : 4 L _{wi} (dB) :	91	90	96	96	91	88	83	78	232	3.46	1484

Fan Model : AP0714HA6/40

AMCA Band Number Center Frequency (Hz)	1	2	3	4	5	6	7	8	Point of Operation		
	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1.0K</u>	<u>2.0K</u>	<u>4.0K</u>	<u>8.0K</u>	$\frac{P_s}{Pa}$	$\frac{Q}{m^3/s}$	$\frac{N}{rpm}$
Det. No. : 1 L _{wi} (dB) :	95	93	88	90	88	85	83	80	0	7.58	1467
Det. No. : 2 L _{wi} (dB) :	94	92	87	89	88	86	84	80	84	6.86	1464
Det. No. : 3 L _{wi} (dB) :	94	93	86	88	89	88	85	80	157	6.2	1468
Det. No. : 4 L _{wi} (dB) :	97	94	89	90	89	88	84	80	228	5.32	1464



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ELTAFANTECH

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