Breeze®
We bring better air to life

AEROFOIL
AXIAL FLOW FAN




LC | LCS | LCF SERIES

amca WORLDWIDE CERTIFIED RATINGS — SOUND AND AIR PERFORMANCE — FEG FAN ENERGY GRADE — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®
amca INTERNATIONAL www.amca.org

amca WORLDWIDE CERTIFIED RATINGS — SOUND AND AIR PERFORMANCE — FEI FAN ENERGY INDEX — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.®
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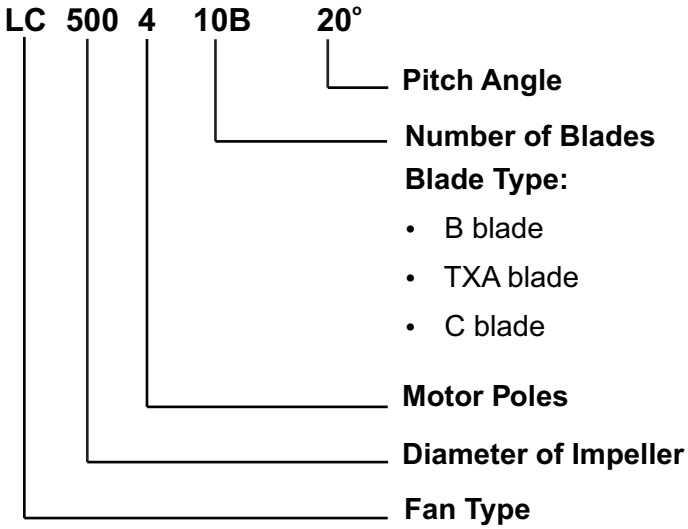
"**Breeze Industrial Ventilation Joint Stock Company** certifies that the LC Aerofoil Axial Flow Fan shown herein is licensed to bear the AMCA Seal.

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."

Fan Code

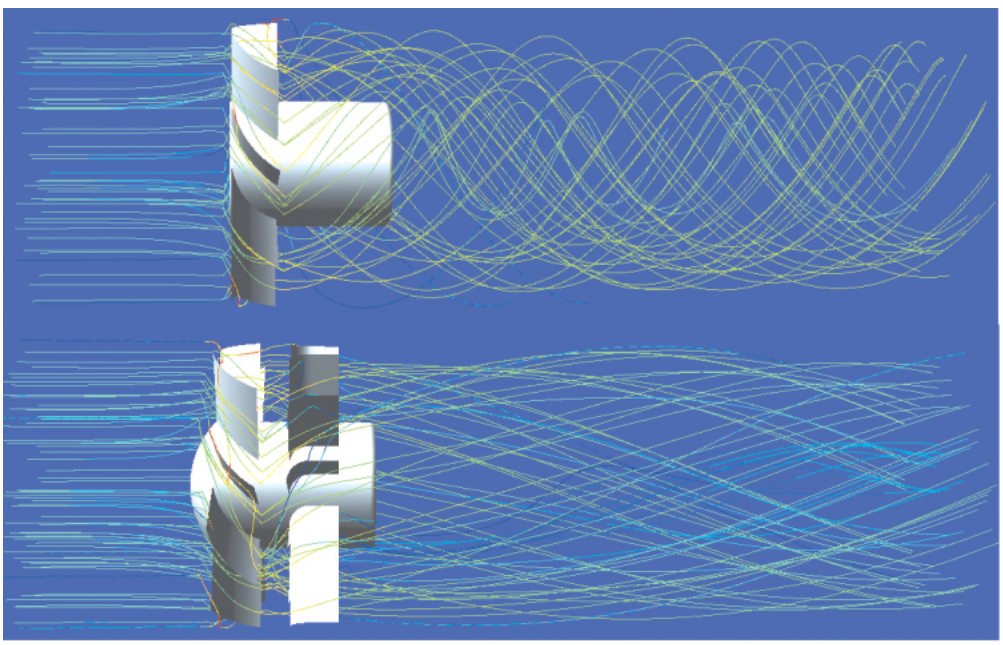


Description

Axial fans offer you a complete range of fan system and wide options of accessories such as impellers and hubs to meet all kinds of applications and demands. The impeller of axial fans offer high efficiency up to 80% or even higher.

Advanced Design of Straightening Stator Vanes and Ogive for Axial impellers:

With world's leading Computational Fluid Dynamics (CFD), axial fan has developed advanced straightening stator vanes and ogives for axial impellers. As the figure shows, with straightening stator vanes and ogive, turbulence in front of impeller has been greatly reduced, airflow becomes more stable and the efficacy can be improved up to 8%.



Notes:

1. For detail, please see the fan performance curve or contact with Breeze Industrial Ventilation JSC.
2. Special or other size of air outlet direction, please negotiate with Breeze Industrial Ventilation JSC.

General Information

The performance range is from 500 m^3/h up to 195.000 m^3/h, static pressure up to 1.500 Pa. High pressure is possible on two-stage fans.

Fan type:

- SC Series: Short Cased Axial Flow Fan.
- LC Series: Long Cased Axial Flow Fan.
- LCS Series: Smoke Extract Axial Fan.
- LCF Series: Explosion Proof Axial Fan.
- CRLC Series: Two-stage Axial Fan.
- CRLCS Series: Smoke Extract two-stage Axial Fan.

Construction Information

Axial series are mainly constructed of casing, impeller, motor and other accessories.

Casing

Fan sizes are from 315mm to 1600mm diameter.

All casings and motor mounting are made of mild steel, all steel parts are powder coated after manufacturing, thickness from 3.0mm to 6.0mm upon diameter.

Casing flanges are rolled, the pitch circles of holes are in accordance ISO 6580.

Material option available:

- Hot dip galvanized after manufacturing in accordance with ISO 1461:2022.
- Requested.

Casings are completed with an externally mounted terminal box which is prewired from the motor terminal box, ensuring ease of installation at site.

Two-stage Axial Flow Fan

Two-stage axial flow fans, in series, counter rotating for high pressures or for carpark application.

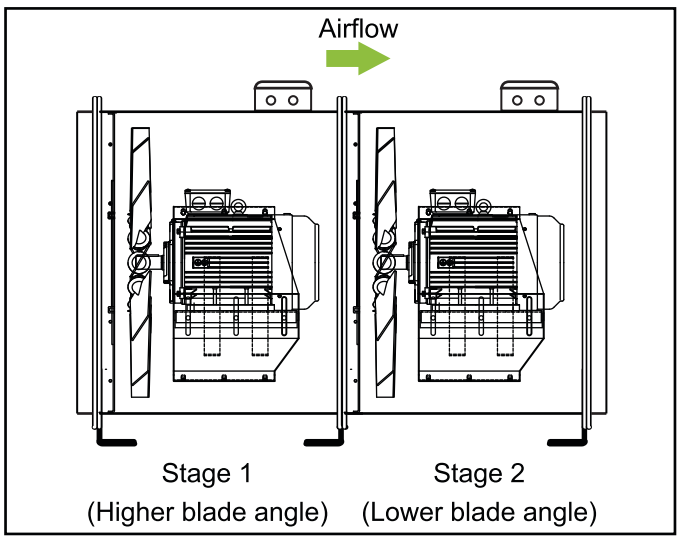
The system with just 2 counter rotating, in series axial flow fans, static pressures up to nearly 2.500 Pa can be achieved. The two-stage unit consists of 2 or more counter rotating single stage in series with left hand and right hand blades, without guide vane. The spin of the first stage is transformed into an additional static pressure by the following stage.

This way, the system produces an excellent airstream profile and 2,7 to 3 times the pressure of a single stage version.

All parts of the multi stage version can be taken from the single stage fan and therefore can be produced at a low cost. Each stage has its own seperate motor. If one stage fails or is switched off, the second stage still produces 65% of the air volume, while consuming only 40 % of the energy. This system is ideal for exhausting in carpark buildings. It works in accordance to the regulations for carpark exhaust systems in United Kingdom and other countries, which require two independent stages, so that the fan will still be operating in case of a failure of one stage. The airstream of the first stage will automatically turn the impeller of the switched off second stage in the opposite direction, so that it supports the airflow instead of disturbing it. This also saves energy compared to similar systems. Besides, the impeller is already rotating in the right direction when the second stage is switched on. As another advantage, this is an inexpensive way of adjusting the air volume.

These are designed a two-stage axial flow fan:

- Stage 1: Right hand blade
- Stage 2: Left hand blade



For example:

Fan ref: CRLC 1000/4/12TXA/17.5°/15°

- Stage 1 is 17.5° and Stage 2 is 15°

Smoke Extract Operation

The LCS series are designed and tested to operate at standard temperatures as well as elevated temperatures of 250°C/2 hours (H250) or 300°C/2 hours (H300), according to BS EN 12101-3/ISO 9001:2015.

Certificate Number: 5636023 – 04

Explosion Proof Operation

The LCF series are driven directly by an ATEX or IECEx certified motor. Single phases and three phases, IP55 or IP66, class F insulation, can be frequency conversion motor.

For motors provided with PTC posistor sensors that should be connected to the protection system, the type of sensor should be specified by the customer/electrician.

The range covers Gases Group IIA, IIB & IIC and most dust hazards. The Gas or Dust type must be specified.

The impeller of LCF series are fitted with Anti-static Nylon (AST) or Aluminum (AL blade) material if required.

The LCF series are typically used for the purpose of industrial ventilation, cooling and exhausting etc.

This product specially applies to Oil & Gas, Offshore Platform, Chemical, Petrochemical, Refinery and Marine Industries etc.

Impeller Data

High efficiency aluminum aerofoil type. All units are fitted with Breezax Impellers with Aluminum (ALU) blades. GRP or GRN blades can be fitted if required.

Hubs are manufactured from fully die cast aluminum alloy as standard.

The blades are with adjustable pitch angle to optimize the dutypoint. The solidity varies for a wider range of performance.

Balance:

The impellers are statically and dynamically balanced on precision machines according to ISO 1940 with G2.5mm/s quality standard.

Blade materials are available in:

- ALU: Standard
- GRP: Glass Reinforced Polypropylene
- GRN: Glass Reinforced Nylon
- AST: Anti-static Nylon

Operating temperature:

- ALU: -40°C + 200°C
- GRP: -40°C + 70°C
- GRN: -40°C + 150°C
- AST: -30°C + 110°C

Hub system:

Our range of axial fans has fully adjustable blades and there are 6 hub systems, as shown below:

Hub Type	Number of Blades
110	5
160	5,10
230	3,6,12
250	3,6,12
330	4,8,12,16
400	4,8,12,16

Blade Design/Type:

We have several options Blades Design as following:

Design Type	Material	Hub Series
Breezax, S	GRP/GRN	110, 160, 230
Breezax, B	ALU	110, 160, 230
Breezax, A	GRP/GRN	110, 160, 230
Breezaxmax, A	ALU/GRN	250, 330
Breezaxmax, T	ALU	250, 330
Breezaxmax, C	ALU/GRP	400

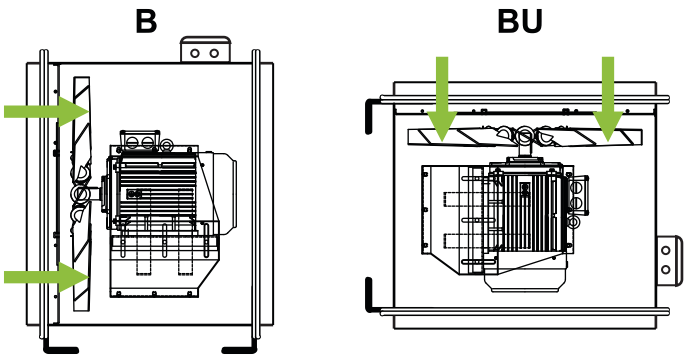
Mounting and Airflow

All units are suitable for internal or external operation at any installed angle.

Airflow direction:

- Plan B as standard.
- Arrows indicating correct rotating and direction of airflow are mounted on the outside of the fan case.

These forms of running are as follows:



Performance data

The axial fans are produced by Breeze Fan. Fan performance and data of type selection program:

- Manufactured under a certified ISO 9001:2015.
- The performance is tested international standards by AMCA 210 and ISO 5801:2017.
- Installation position D, i.e. ducted inlet and ducted outlet configuration.
- All curves to a density of $\rho = 1{,}2\ kg/m^3$, at 20°C.

Selection Program

Full details are available on our selection program.

The selection program is convenient, simple, intelligent. It is easy to choose suitable fans, provide and print out all data to confirm the result of choice. You can transfer these data to consultants and designers.

Please contact our sale department or login http://www.breeze.com.vn for selection program.

Sound levels

All measurements of the sound that the fans generate have been taken strictly in accordance with AMCA 300, Figure 2 and ISO 13347-2 for acoustic performance.

Sound data are determined according to AMCA 300 - installation type D, ISO 5136:2003 & 13347:2004.

The sound power levels shown on the fan curves are for inlet LwiA scale for installation type D: ducted inlet, ducted outlet. Ratings include the effects of ducted end correction.

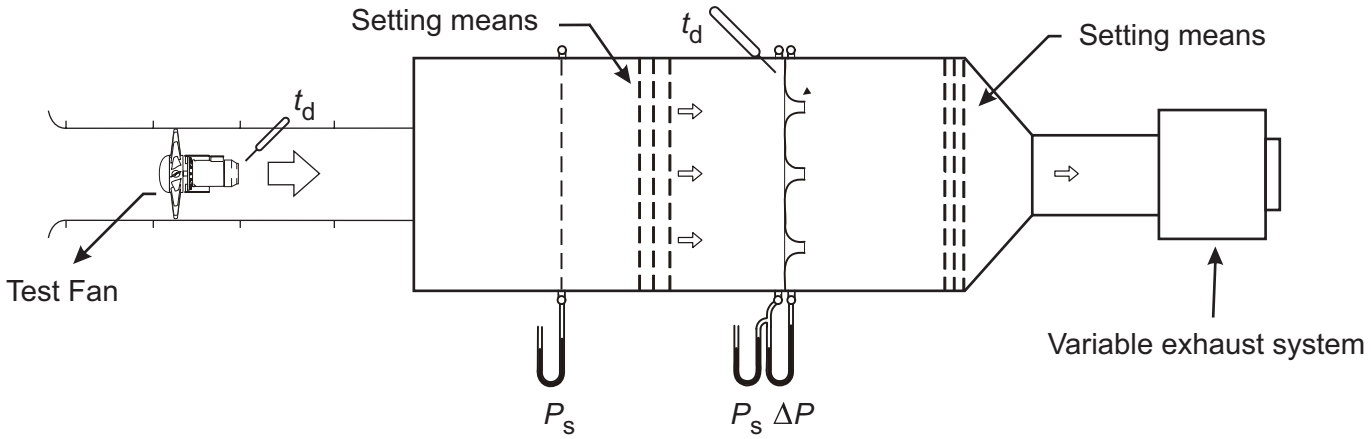
The sound pressure level at the inlet at 1m distance in low reflection can be obtained by deducting 11dB from the sound power level at the inlet side. The sound pressure difference from 1m to distance d is obtained as follows:

$$LpiA = 10 * \log (1/d)$$

Where: d = distance from fan in meters.

Please note that reflections and room characteristics as well as natural frequencies influence the size of the sound pressure level differently

The performance curves are provided in this catalogue were measured according to AMCA 210 and ISO 5801:2017 in the test chamber.



Motor Data

Motors incorporated are TEFC (Total Enclosed Fan Cooled) and airstream rated to IEC 60034, IE1 Efficiency Standard.

Standard motors are protected to IP55 with Class F insulation. Operating temperature is from -20°C to +50°C as standard, fans for operation beyond these limits are also available.

Motors are suitable for speed control by frequency inverter, subject to fan selection.

Available specific for your project requirements such as:

- 60Hz: specific to your voltage requirements.
- IE2, IE3, IE4 and IE5 Efficiency Classes.
- 2-speed (Full/Half and Full/Two Thirds).
- High temperature motor and double speeds motor (Class H): 250°C/2hrs or 300°C/2hrs or requested.

Fan Laws

Speed Change - Constant Size - Constant Density

- Air Volume ≈ Rotation Speed

$$\frac{V_2}{V_1} = \frac{n_2}{n_1}$$

- Pressure ≈ (Rotation Speed)^2

$$\frac{\Delta p_1}{\Delta p_2} = \left(\frac{n_1}{n_2}\right)^2 = \left(\frac{V_1}{V_2}\right)^2$$

- Abs. Power ≈ (Rotation Speed)^3

$$\frac{P_1}{P_2} = \left(\frac{n_1}{n_2}\right)^3 = \left(\frac{V_1}{V_2}\right)^3$$

Size Change - Constant Speed - Constant Density

- Air Volume ≈ (IMP. Diameter)^3

$$\frac{V_2}{V_1} = \left(\frac{D_2}{D_1}\right)^3$$

- Pressure ≈ (IMP. Diameter)^2

$$\frac{\Delta p_1}{\Delta p_2} = \left(\frac{D_1}{D_2}\right)^2$$

- Abs. Power ≈ (IMP. Diameter)^5

$$\frac{P_1}{P_2} = \left(\frac{D_1}{D_2}\right)^5$$

Density Change - Constant Speed - Constant Size

- Air Volume = No change

$$V = \text{Constant}$$

- Pressure ≈ Density

$$\frac{\Delta p_1}{\Delta p_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

- Abs. Power ≈ Density

$$\frac{P_1}{P_2} = \frac{\rho_1}{\rho_2} = \frac{T_2}{T_1}$$

Noise:

$$N_2 - N_1 = 50 \log 10 * \frac{D_2}{D_1} + 50 \log 10 * \frac{n_2}{n_1}$$

Pressure

- Dynamic Pressure (Pa)

$$p_d = \frac{\rho}{2} * v^2$$

- Total Pressure (Pa)

$$p_t = p_{st} + p_d$$

- Air Velocity (m/s)

$$v = \frac{V * 4}{\pi D^2}$$

Absorbed Power

$$P = \left(\frac{V\ (m^3/s) * p_t\ (Pa)}{\eta\% * 10}\right) kW$$

Whereby:

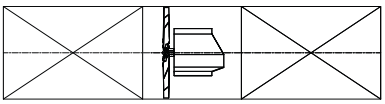
- V = Air Volume (m^3/s)
- D = Impeller diameter (mm)
- P = Absorbed power (kW)
- N = Noise
- n = Rotation speed (rpm)
- p_t = Total pressure (Pa)
- p_{st} = Static pressure (Pa)
- p_d = Dynamic pressure (Pa)
- ρ = Air density (kg/m^3), standard is 1.2kg/m^3
- v = Air velocity (m/s)
- η = Efficiency (%)
- π = 3.14

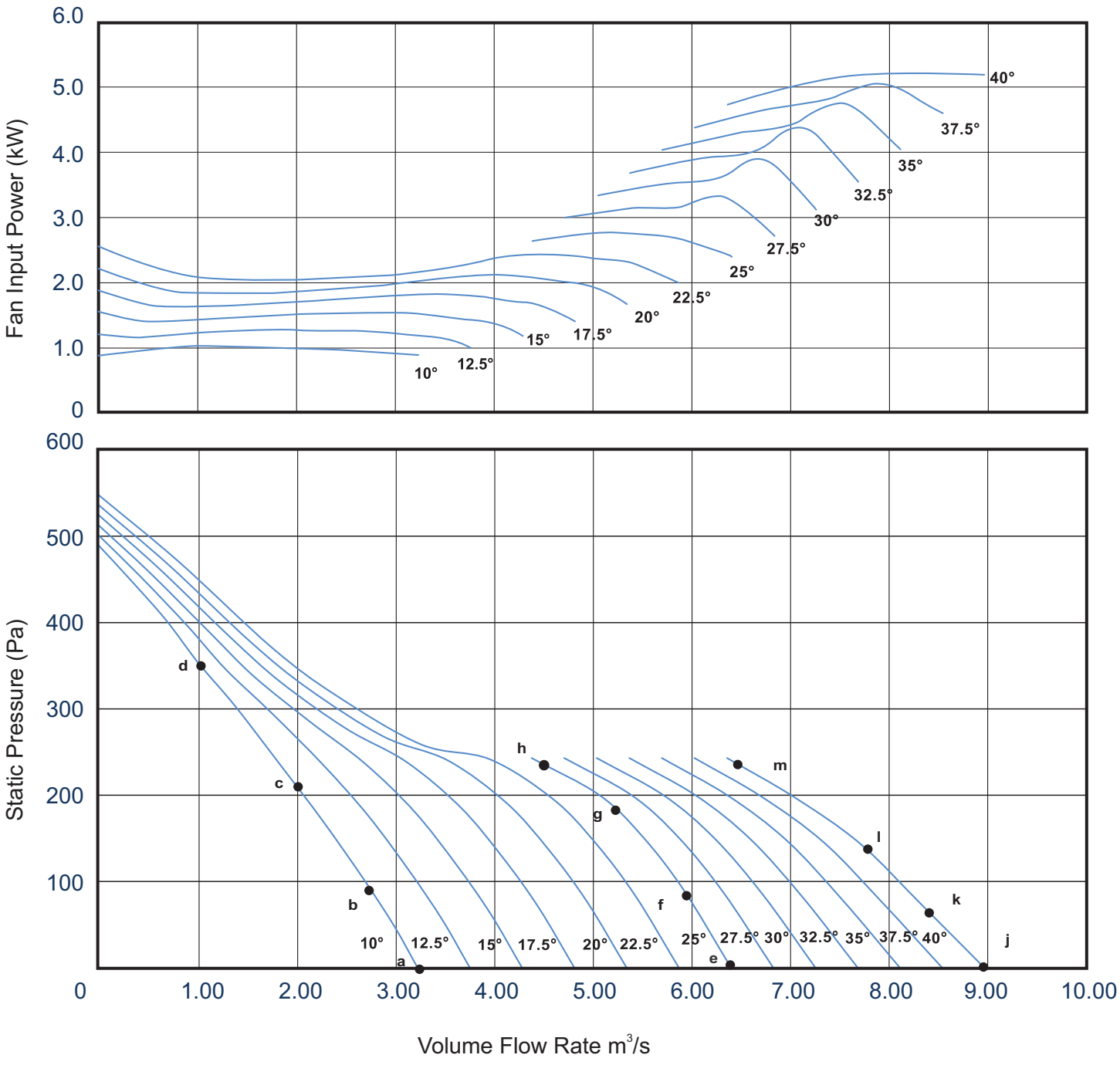
Performance Curve LC710/4/12B

Fan Type	Axial Flow Fan	Diameter	710 mm	Speed	1440 rpm
Blades / Material	12-AL	Blade Type	B	Hub Type	230
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	0.396 m^2

Performance certified is for installation type D: ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Measured in installation D according to AMCA 210:





Performance Curve LC710/4/12B

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Blades / Material	12-AL	Blade Type	B	Hub Type	230
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	0.396 m^2

The A-weighted sound power 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. FEI_T calculation is based on default motor.

Model	Degree	Fan speed (rpm)	Shart input Power (kW)	Air Flow (m3/s)	Static Pressure (Pa)	FEI_T
LC 710/4/12B	10	1440	0.891	3.236	0	0.879
			0.938	3.005	47	0.992
			0.969	2699	101	1.081
			0.996	2.271	171	1.126
			1.010	1.854	234	1.101
			1.020	1.386	304	0.991
			1.030	1.017	353	0.835
	25		2.393	6.407	0	1.104
			2.649	5.928	90	1.161
			2.734	5.504	153	1.188
			2.768	5.073	200	1.172
			2.636	4.389	243	1.120
			2.332.	3.647	250	1.024
			2.251	2.687	308	0.870
	40		8.969	5.191	0	1.116
			8.343	5.231	72	1.108
			7.710	5.187	144	1.112
			7.041	5.015	198	1.089
			6.366	4.732	243	1.069
			5.484	3.939	191	0.913
			4.344	3.385	153	0.690

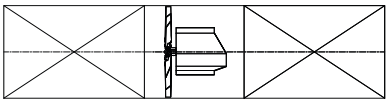
Ref	Full Octave Band Center Fequency (Hz)								L_{WiA}
	63	125	250	500	1K	2K	4K	8K	
a	99	91	90	88	87	86	85	78	93
b	98	91	93	91	91	86	82	76	95
c	98	92	93	91	90	86	82	76	94
d	100	93	94	87	84	82	80	74	91
e	105	98	94	90	86	84	84	80	94
f	104	99	94	90	87	85	84	81	94
g	102	101	97	96	92	88	84	78	97
h	107	105	101	94	89	85	80	73	97
j	107	96	95	91	88	86	86	83	95
k	108	95	94	90	87	86	86	82	94
l	107	95	94	91	87	86	87	82	95
m	104	105	98	94	91	90	87	81	98

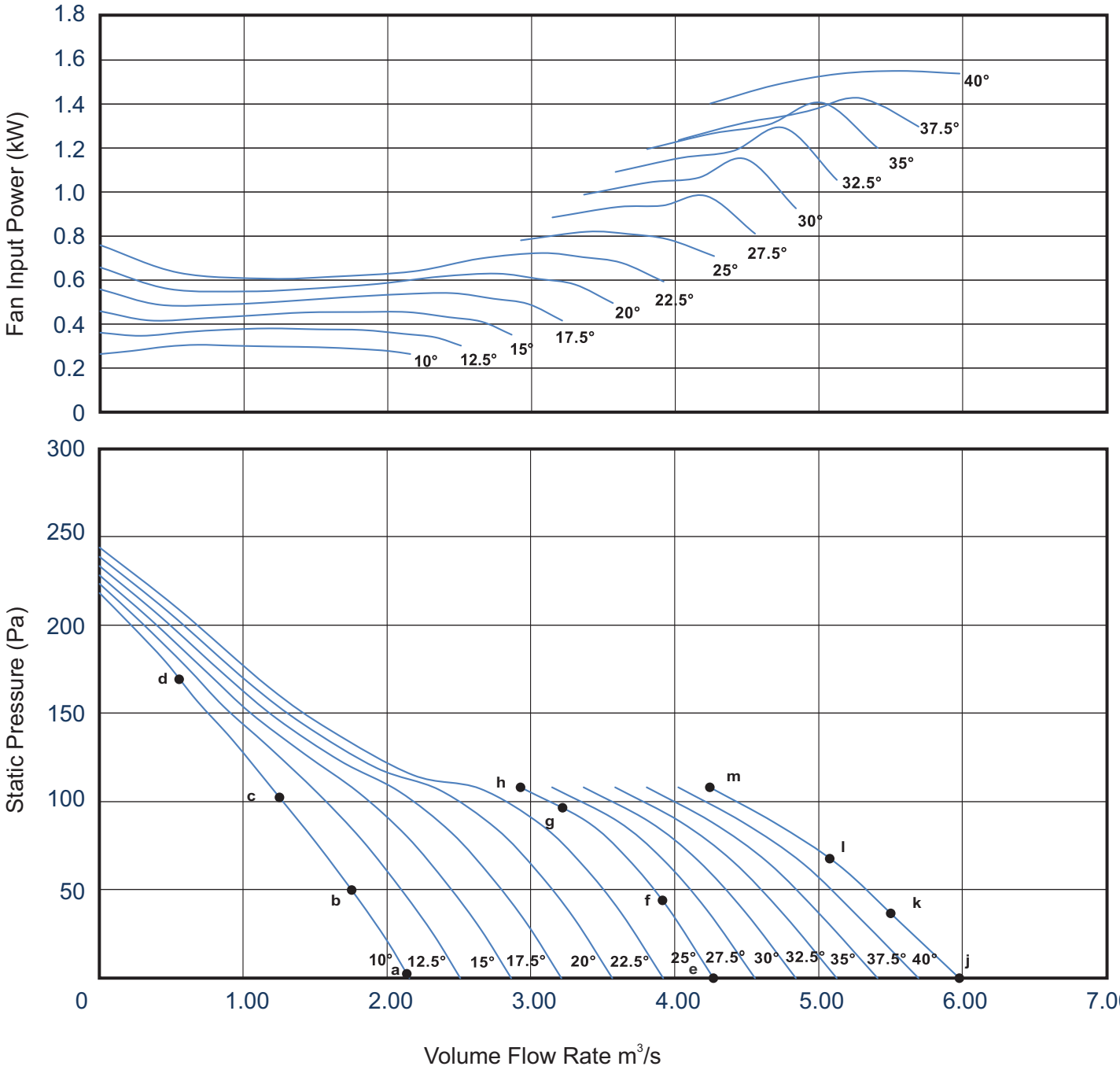
Performance Curve LC710/6/12B

Fan Type	Axial Flow Fan	Diameter	710 mm	Speed	960 rpm
Blades / Material	12-AL	Blade Type	B	Hub Type	230
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	0.396 m^2

Performance certified is for installation type D: ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Measured in installation D according to AMCA 210:





Performance Curve LC710/6/12B

Fan Type	Axial Flow Fan	Diameter	710 mm	Speed	960 rpm
Blades / Material	12-AL	Blade Type	B	Hub Type	230
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	0.396 m^2

The A-weighted sound power 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. FEI_T calculation is based on default motor.

Model	Degree	Fan speed (rpm)	Shart input Power (kW)	Air Flow (m3/s)	Static Pressure (Pa)	FEI_T
LC 710/6/12B	10	960	0.264	2.157	0	1.628
			0.278	2.003	21	1.667
			0.287	1.799	45	1.674
			0.295	1.514	76	1.639
			0.298	1.236	104	1.538
			0.302	0.924	135	1.355
			0.306	0.678	157	1.143
	25		0.709	4.271	0	1.675
			0.785	3.952	40	1.650
			0.810	3.669	68	1.638
			0.820	3.382	89	1.588
			0.781	2.926	108	1.508
			0.691	2.431	111	1.397
			0.667	1.791	137	1.178
	40		1.538	5.979	0	1.499
			1.550	5.562	32	1.466
			1.537	5.140	64	1.447
			1.486	4.694	88	1.413
			1.402	4.244	108	1.380
			1.167	3.656	85	1.240
			1.003	2.896	68	1.001

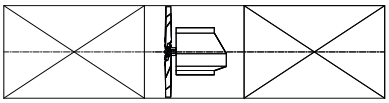
Ref	Full Octave Band Center Fequency (Hz)								L_{WiA}
	63	125	250	500	1K	2K	4K	8K	
a	87	84	81	78	78	77	72	64	83
b	86	85	83	82	79	76	70	63	84
c	89	91	82	78	76	73	67	59	82
d	87	85	77	76	74	73	68	61	80
e	93	89	84	79	76	75	74	68	83
f	93	91	83	79	77	76	74	68	84
g	91	93	88	85	82	78	72	65	87
h	96	98	86	81	78	73	67	60	86
j	95	87	84	80	78	77	76	71	85
k	96	86	84	80	77	77	76	70	84
l	94	87	85	80	78	79	76	70	85
m	93	101	88	84	82	80	75	69	89

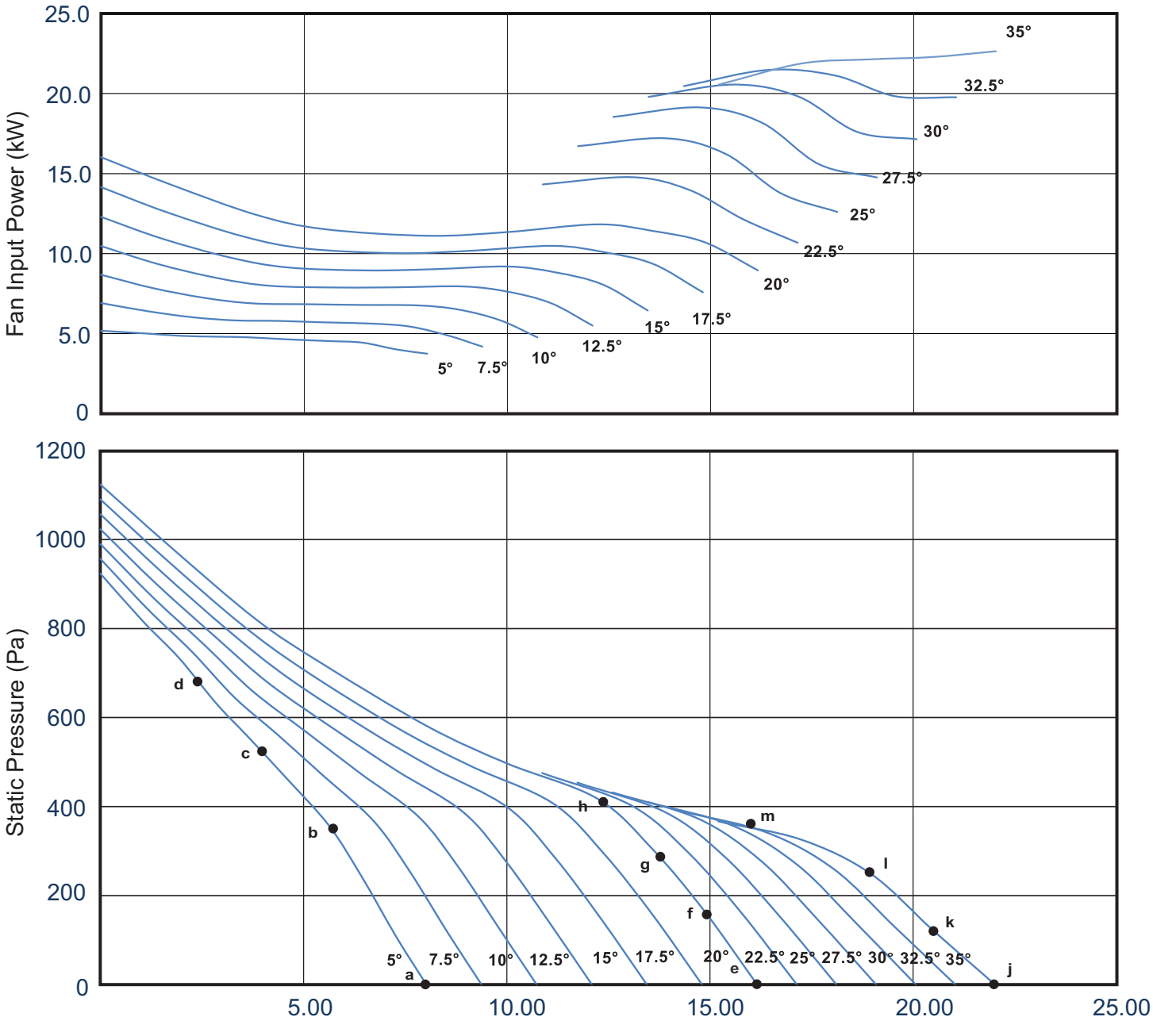
Performance Curve LC1000/4/12TXA

Fan Type	Axial Flow Fan	Diameter	1000 mm	Speed	1440 rpm
Blades / Material	12-AL	Blade Type	TXA	Hub Type	250
Air Density	1.2 kg/m^3	FEG	60	Outlet Area	0.801 m^2

Performance certified is for installation type D: ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Measured in installation D according to AMCA 210:





Performance Curve LC1000/4/12TXA

Fan Type	Axial Flow Fan	Diameter	1000 mm	Speed	1440 rpm
Blades / Material	12-AL	Blade Type	TXA	Hub Type	250
Air Density	1.2 kg/m^3	FEG	60	Outlet Area	0.801 m^2

The A-weighted sound power 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. FEI_T calculation is based on default motor.

Model	Degree	Fan speed (rpm)	Shart input Power (kW)	Air Flow (m3/s)	Static Pressure (Pa)	FEI_T
LC 1000/4/12TXA	5	1440	3.750	8.025	0	0.566
			4.003	7.293	106	0.755
			4.438	6.428	243	0.889
			4.536	5.621	358	0.970
			4.647	4.556	466	0.927
			4.772	3.618	558	0.831
			4.809	2.864	630	0.729
	20		8.951	16.167	0	0.983
			10.712	14.858	167	1.035
			11.421	13.572	306	1.084
			11.833	12.221	419	1.074
			11.350	10.001	497	0.966
			11.117	8.043	581	0.856
			11.539	5.475	720	0.652
	35		22.650	22.025	0	0.852
			22.292	20.475	124	0.895
			22.147	18.956	250	0.928
			21.884	17.238	326	0.879
			20.567	15.210	367	0.803
			17.324	12.933	326	0.694
			16.851	9.318	455	0.566

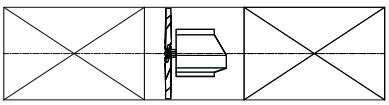
Ref	Full Octave Band Center Fequency (Hz)								L_{WiA}
	63	125	250	500	1K	2K	4K	8K	
a	103	93	96	99	100	97	94	84	104
b	103	97	104	101	98	95	91	79	103
c	101	96	101	96	94	92	87	78	99
d	101	97	99	97	95	94	89	82	100
e	103	98	100	98	97	94	95	86	102
f	103	97	101	100	100	98	95	87	105
g	102	103	106	110	105	101	94	86	110
h	103	104	106	107	103	100	94	86	108
j	107	103	104	102	100	98	94	89	105
k	107	104	104	102	100	98	95	89	106
l	107	107	105	104	102	99	95	89	107
m	107	110	106	105	102	100	95	89	107

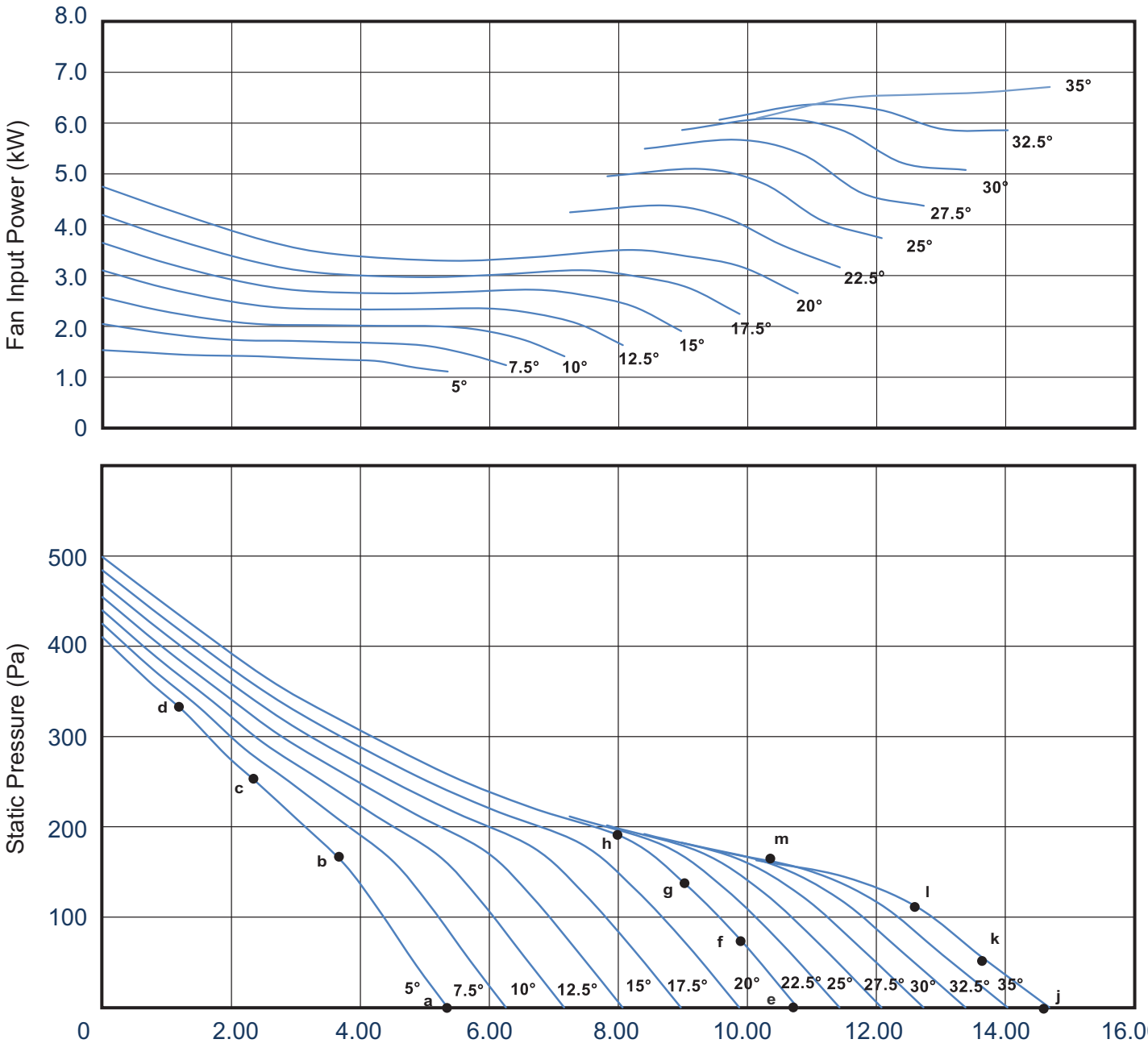
Performance Curve LC1000/6/12TXA

Fan Type	Axial Flow Fan	Diameter	1000 mm	Speed	960 rpm
Blades / Material	12-AL	Blade Type	TXA	Hub Type	250
Air Density	1.2 kg/m^3	FEG	60	Outlet Area	0.801 m^2

Performance certified is for installation type D: ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Measured in installation D according to AMCA 210:





Performance Curve LC1000/6/12TXA

Fan Type	Axial Flow Fan	Diameter	1000 mm	Speed	960 rpm
Blades / Material	12-AL	Blade Type	TXA	Hub Type	250
Air Density	1.2 kg/m^3	FEG	60	Outlet Area	0.801 m^2

The A-weighted sound power 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. FEI_T calculation is based on default motor.

Model	Degree	Fan speed (rpm)	Shart input Power (kW)	Air Flow (m3/s)	Static Pressure (Pa)	FEI_T
LC 1000/6/12TXA	5	960	1.111	5.350	0	1.031
			1.186	4.862	47	1.159
			1.315	4.285	108	1.224
			1.344	3.747	159	1.263
			1.377	3.037	207	1.173
			1.414	2.411	249	1.037
			1.425	1.908	280	0.905
	20		2.652	10.778	0	1.368
			3.174	9.905	74	1.336
			3.384	9.048	136	1.345
			3.506	8.174	186	1.311
			3.363	6.667	221	1.169
			3.294	5.362	258	1.032
			3.419	3.650	320	0.778
	35		5.711	14.683	0	1.063
			6.605	13.650	55	1.094
			6.562	12.637	111	1.115
			6.484	11.492	145	1.052
			6.094	10.140	163	0.968
			5.133	8.622	145	0.864
			4.993	6.212	163	0.698

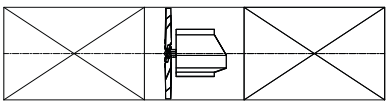
Ref	Full Octave Band Center Fequency (Hz)								L_{WiA}
	63	125	250	500	1K	2K	4K	8K	
a	91	86	90	91	90	87	82	70	94
b	91	96	92	90	88	84	77	66	92
c	89	91	87	84	83	80	73	65	88
d	90	91	89	87	87	84	78	71	91
e	92	89	92	89	87	85	83	72	92
f	92	90	92	91	90	87	83	73	95
g	92	94	97	94	93	88	81	73	97
h	93	100	99	95	93	88	80	72	98
j	97	94	95	92	90	87	82	77	95
k	97	95	95	93	91	88	83	78	96
l	97	99	96	94	92	88	83	78	97
m	97	100	97	95	92	89	83	77	97

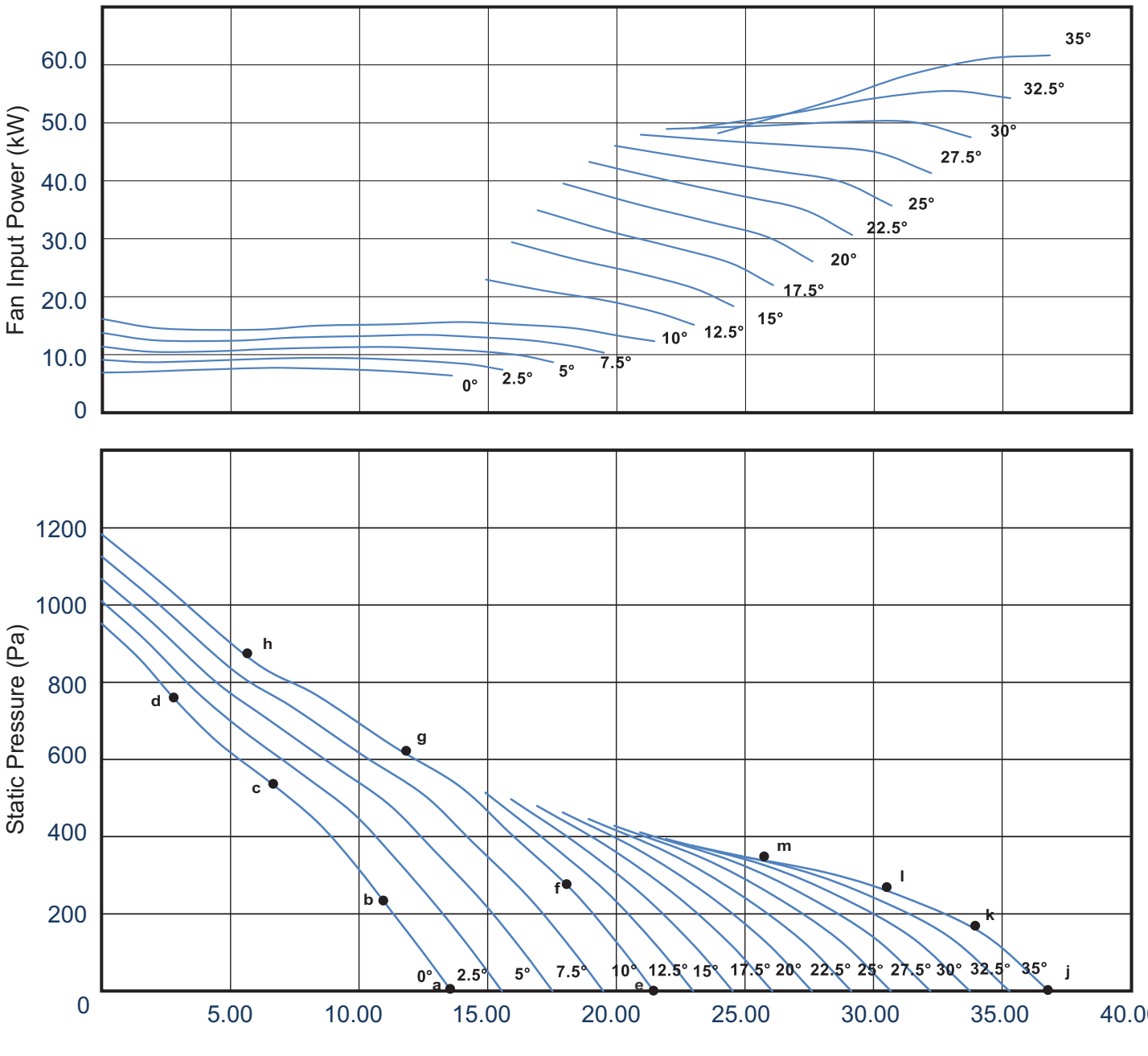
Performance Curve LC1250/4/8C

Fan Type	Axial Flow Fan	Diameter	1250 mm	Speed	1440 rpm
Blades / Material	8-AL	Blade Type	C	Hub Type	400
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	1.237m^2

Performance certified is for installation type D: ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Measured in installation D according to AMCA 210:





Performance Curve LC1250/4/8C

Fan Type	Axial Flow Fan	Diameter	1250 mm	Speed	1440 rpm
Blades / Material	8-AL	Blade Type	C	Hub Type	400
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	1.237m^2

The A-weighted sound power 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. FEI_T calculation is based on default motor.

Model	Degree	Fan speed (rpm)	Shart input Power (kW)	Air Flow (m3/s)	Static Pressure (Pa)	FEI_T
LC 1250/4/8C	0	1440	6.379	13.590	0	0.594
			6.767	12.474	101	0.772
			7.128	11.277	205	0.892
			7.408	9.863	326	0.981
			7.604	8.363	439	0.991
			7.742	6.557	540	0.891
			7.496	4.533	644	0.739
	10		12.339	21.459	0	0.774
			13.186	20.181	113	0.901
			14.583	18.288	261	0.974
			15.235	15.905	407	1.000
			15.626	13.908	531	0.995
			15.245	11.337	635	0.926
			15.005	8.343	767	0.795
	35		61.641	36.827	0	0.600
			61.044	34.305	146	0.632
			58.199	31.283	241	0.619
			53.642	28.221	306	0.602
			48.195	23.933	360	0.543
			47.793	20.450	486	0.513
			49.150	15.432	605	0.404

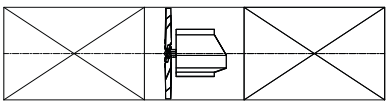
Ref	Full Octave Band Center Fequency (Hz)								L_{WiA}
	63	125	250	500	1K	2K	4K	8K	
a	100	104	109	107	107	102	98	96	104
b	103	105	108	108	105	100	97	95	109
c	100	114	111	103	100	97	93	86	107
d	103	104	103	100	100	99	95	89	105
e	106	109	112	107	108	105	99	92	112
f	107	108	113	109	108	103	97	90	112
g	113	113	113	108	101	98	94	87	110
h	112	107	105	102	101	100	96	91	107
j	123	126	119	114	111	107	101	96	117
k	126	121	116	110	107	103	97	90	113
l	122	119	115	109	106	102	96	90	112
m	121	118	114	108	106	101	95	89	111

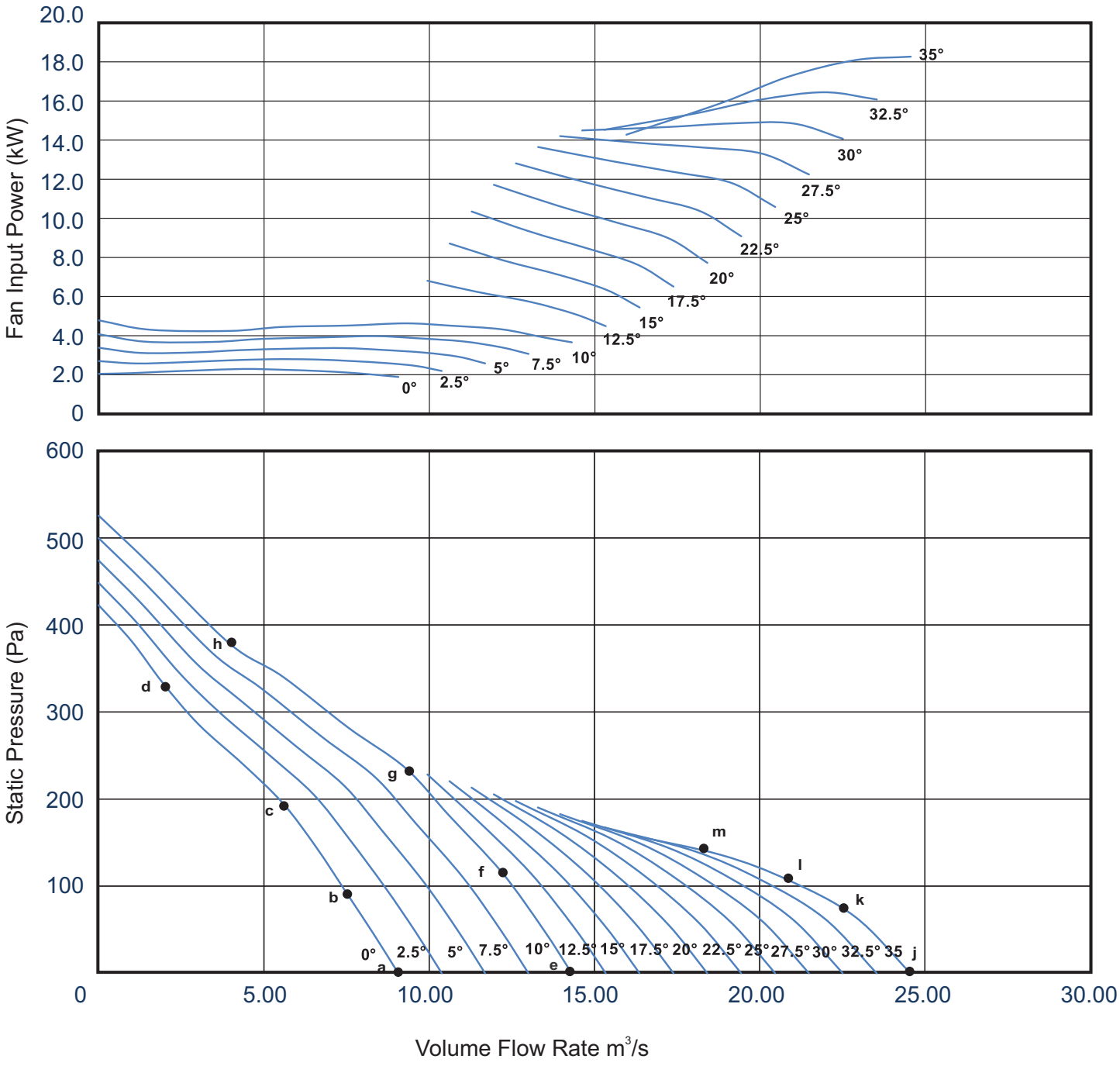
Performance Curve LC1250/6/8C

Fan Type	Axial Flow Fan	Diameter	1250 mm	Speed	960 rpm
Blades / Material	8-AL	Blade Type	C	Hub Type	400
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	1.237m^2

Performance certified is for installation type D: ducted inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Measured in installation D according to AMCA 210:





Performance Curve LC1250/6/8C

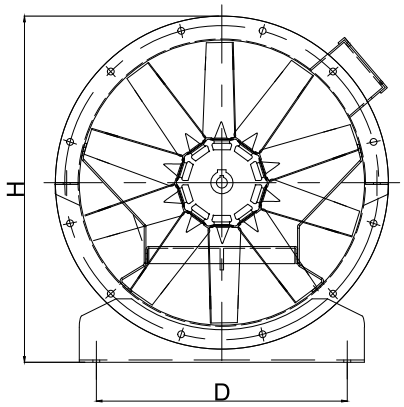
Fan Type	Axial Flow Fan	Diameter	1250 mm	Speed	960 rpm
Blades / Material	8-AL	Blade Type	C	Hub Type	400
Air Density	1.2 kg/m^3	FEG	56	Outlet Area	1.237m^2

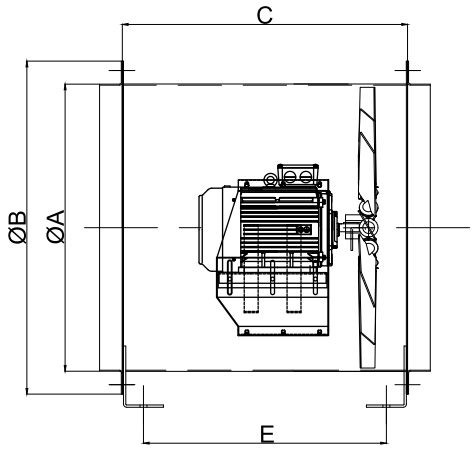
The A-weighted sound power ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction. The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301. FEI_T calculation is based on default motor.

Model	Degree	Fan speed (rpm)	Shart input Power (kW)	Air Flow (m3/s)	Static Pressure (Pa)	FEI_T
LC 1250/6/8C	0	960	1.890	9.060	0	1.046
			2.005	8.316	45	1.168
			2.112	7.518	91	1.237
			2.195	6.575	145	1.280
			2.253	5.579	195	1.244
			2.294	4.371	240	1.098
			2.221	3.022	286	0.902
	10		3.656	14.306	0	1.140
			3.907	13.454	50	1.224
			4.231	12.192	116	1.268
			4.514	10.603	181	1.229
			4.630	9.272	236	1.192
			4.517	7.558	282	1.097
			4.446	5.562	341	0.933
	35		18.624	24.551	0	0.728
			18.087	22.870	65	0.753
			17.244	20.855	107	0.736
			15.894	18.814	136	0.716
			14.280	15.955	160	0.651
			14.161	13.633	216	0.608
			14.563	10.288	269	0.476

Ref	Full Octave Band Center Fequency (Hz)								L_{WiA}
	63	125	250	500	1K	2K	4K	8K	
a	93	100	98	98	95	89	91	76	100
b	92	99	100	97	93	88	90	73	99
c	91	104	98	93	91	86	84	71	97
d	93	96	93	91	91	88	83	76	95
e	96	104	99	99	98	93	87	78	101
f	97	102	103	100	97	91	84	76	102
g	100	102	105	98	94	89	83	76	100
h	101	97	95	93	91	90	84	80	97
j	118	110	108	104	100	95	89	84	106
k	116	109	105	101	98	92	86	91	103
l	114	107	104	100	96	90	85	79	102
m	113	106	102	99	95	89	83	78	101

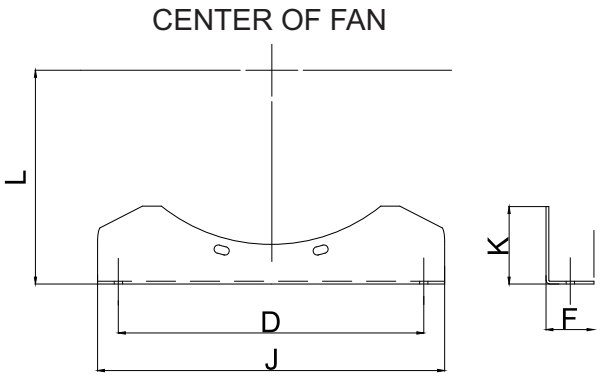
Dimension Information





Fan Size	Motor Frame	A	B	C	D	H	E	Fan Weight (Kg)
LC 710	F90-100	710	815	600	650	858	524	120-130
	F112-132	710	815	600	650	858	524	130-150
LC 1000	F132-160	1000	1106	850	930	1183	764	210-280
	F180	1000	1106	850	930	1183	764	320-370
LC 1250	F160-180	1250	1378	1000	1180	1439	892	400-450
	F200-225	1250	1378	1000	1180	1439	892	540-620

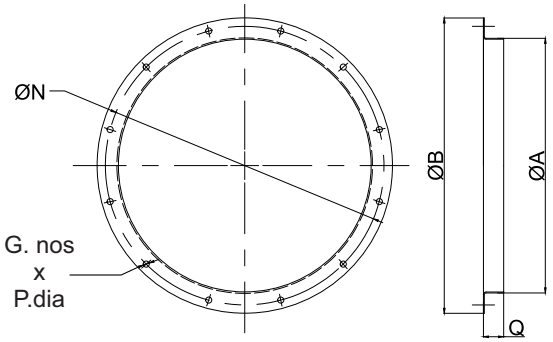
All dimensions in mm.



MOUNTING FEETS

Size	J	D	L	F	K	Wt (kg)
710	710	650	450	70	195	3.0
1000	1000	930	630	80	280	10.0
1250	1240	1180	750	100	315	14.0

All dimensions in mm.



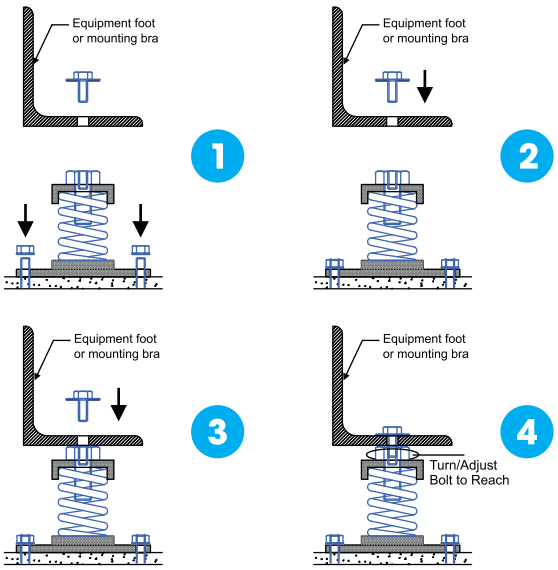
INLET/OUTLET FLANGES

Size	G.nos	P.Dia	N	A	B	Q	Wt (kg)
710	16	16	775	710	815	50	6.0
1000	16	16	1060	1000	1106	50	9.0
1250	20	20	1340	1250	1378	60	12.0

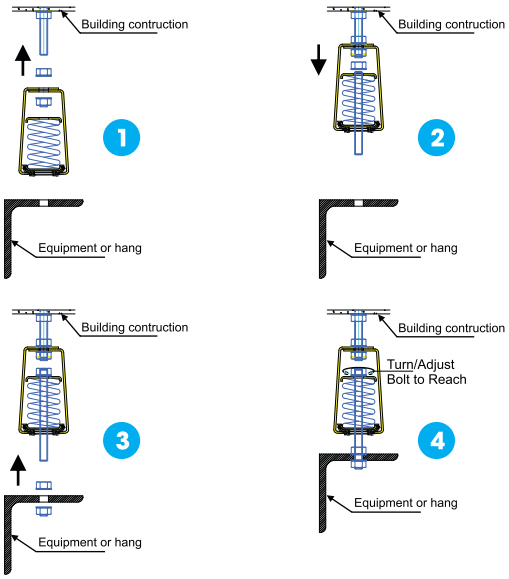
All dimensions in mm.

* Dimensions shown are approximate only. The details please contact local sales office for more information.

Installation Guide



Mounting Isolators



Hanger Isolators

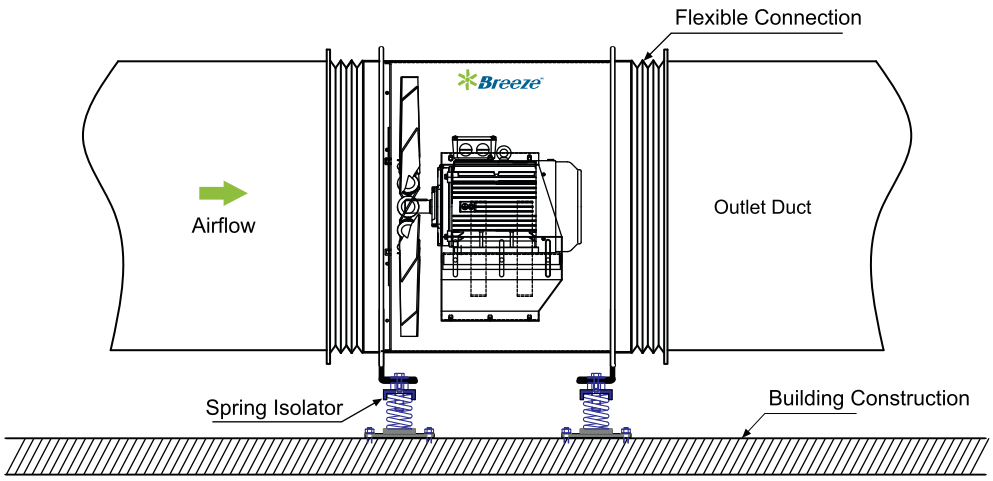


Fig 01. Mounting type

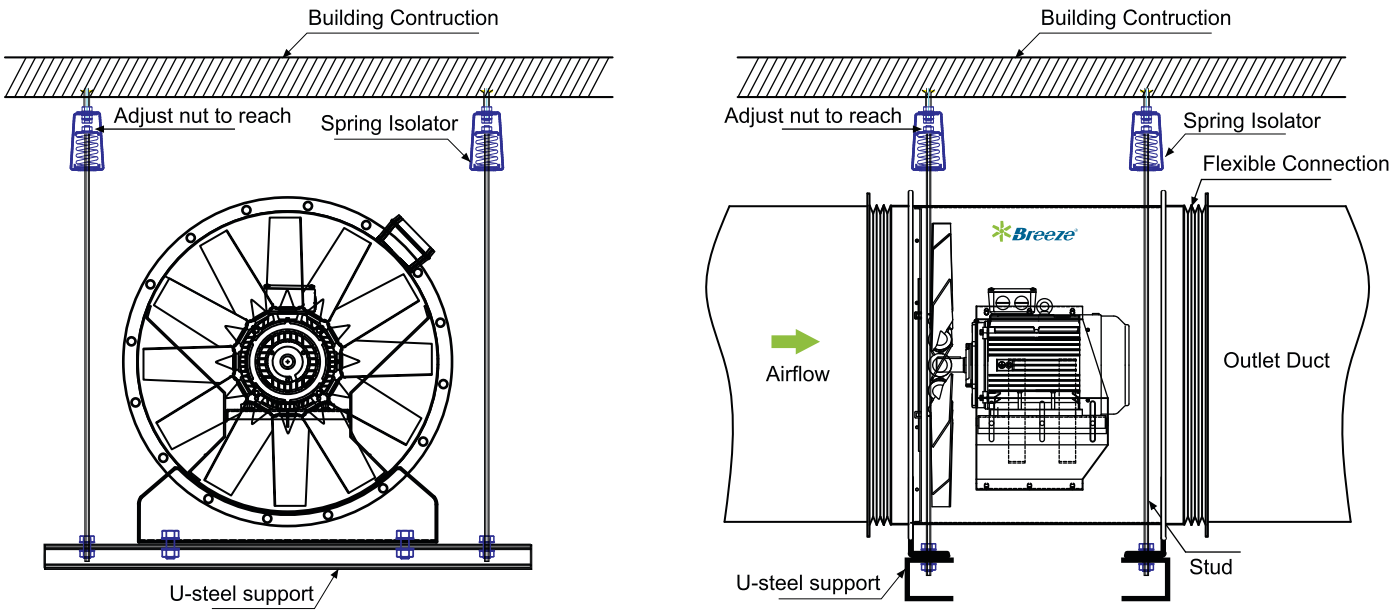


Fig 02. Hanging type

Applied standard:

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