

Technical Data Sheet

LCS045L2-A9/17



Certification

- ⊗ ISO 5801:2007 (Airside Performance)
- ⊗ BS 848 Part 2:1985 (Sound Performance)
- ⊗ BS ISO 13347-2:2004 (Reverberation Room Method)

- ⊗ BSEN 12101-3:2015 – Legislation outlining test procedure to ensure fans are suitable to be used in the event of an emergency, in this instance 300°C for 2 hours
- ⊗ ISO 5801:2007 (Airside Performance)
- ⊗ BS 848 Part 2:1985 (Sound Performance)
- ⊗ BS ISO 13347-2:2004 (Reverberation Room Method)

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Technical Data

Performance - Required		Actual	
Air Flow	1.50 m ³ /s	Air Flow	1.53 m ³ /s
Static Pressure	300 Pa	Static Pressure	440 Pa
Selection Pressure	300 Pa	Total Pressure	496 Pa
Installation Type	TYPE D		
Air Density	1.20 kg/m ³		
Atmos. Temp.	20 °C		
Altitude	0 m		
Humidity	0.0 %		

Fan Data

Catalogue Code		LCS045L2-A9/17 (LCS04L-A9_717-090-2.2-2)	
Description		LCS – Long-Cased Smokevent Axial Fan	
Diameter	450 mm	Hub	181 mm
Impeller Type	Axial	Pitch	17°
Blade Material	Aluminium	Blades	9
Speed	2880 r/min @ 50 Hz		
Power, Abs:	1.78 kW	Peak	1.84 kW
Input Power	2.14 kW		
Efficiency Total	42.6%	Static	37.9%
SFP	1.43		
Fan Weight	37.3 kg		

Motor Data (at STP)

Motor Type	F300 (IE2) W	
Electrical Supply	400V 3ph 50Hz	
Motor Frame	90L	
Motor Power	2.64kW (AOM)	(2.20kW IEC)
FLC/Start	6.43A (AOM) / 30.02A	(5.36A FL IEC)
Motor Speed	2 Pole	
Motor Efficiency	83.2%	

Sound Data

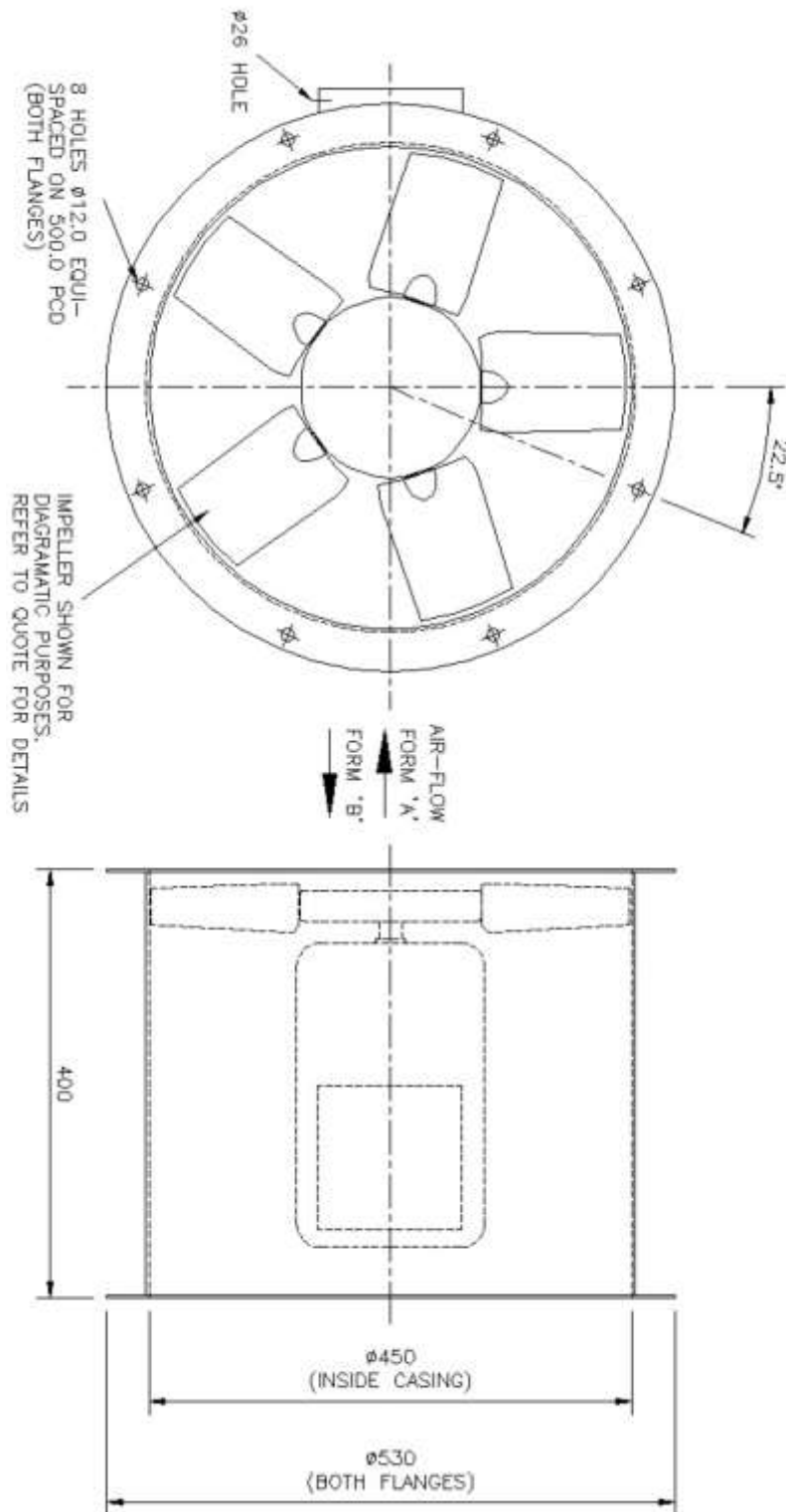
Spectrum (Hz)	63	125	250	500	1k	2k	4k	8k	dBW	dB(A) @ 3m
Inlet (dB)	91	89	97	97	95	91	86	81	102	79
Outlet (dB)	98	92	97	96	94	90	85	80	103	78

Sound levels are quoted as in-duct values. dB(A) values are average spherical free-field for comparative use only.

Technical Data

Energy Related Product Data		At Maximum Efficiency Point	
Overall Efficiency	40.2%	Input Power	1.90 kW
Measurement Category	D	Airflow	2.04 m ³ /s
Efficiency Category	Total	Pressure	374 Pa
FMEG	44	Speed	2880 r/min
Specific Ratio	1		

Drawing for Fan model LCS045L2-A9/17



Technical Graphs

