

## Technical Data Sheet

### LCS056N2-A6/16



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

## Technical Data

Performance - Required		Actual	
Air Flow	2.50 m <sup>3</sup> /s	Air Flow	2.50 m <sup>3</sup> /s
Static Pressure	500 Pa	Static Pressure	605 Pa
Selection Pressure	603 Pa	Total Pressure	667 Pa
Installation Type	TYPE D		
Air Density	1.20 kg/m <sup>3</sup>		
Atmos. Temp.	20 °C		
Altitude	0 m		
Humidity	0.0 %		

## Fan Data

Catalogue Code	LCS056N2-A6/16 (LCS056N-A6_717-IE2-090-3-2)		
Description	LCS – Long-Cased Smoke		
Diameter	560 mm	Hub	251 mm
Impeller Type	Axial	Pitch	16°
Blade Material	Aluminium	Blades	6
Speed	2880 r/min @ 50 Hz	Form	B
Power, Abs:	3.22 kW	Peak	3.22 kW
Efficiency Total	51.9%	Static	47.0%
SFP	1.55		
Fan Weight	51.7 kg		

## Motor Data (at STP)

Motor Type	F300 (IE2) W	
Electrical Supply	400V 3ph 50Hz	
Motor Frame	L90L	
Motor Power	3.30kW (AOM)	(3.00kW IEC)
FLC/Start (DOL)	6.73A (AOM) / 38.56A	(6.12A FL IEC)
Motor Speed	2 Pole	
Motor Efficiency	83.3%	

## Sound Data

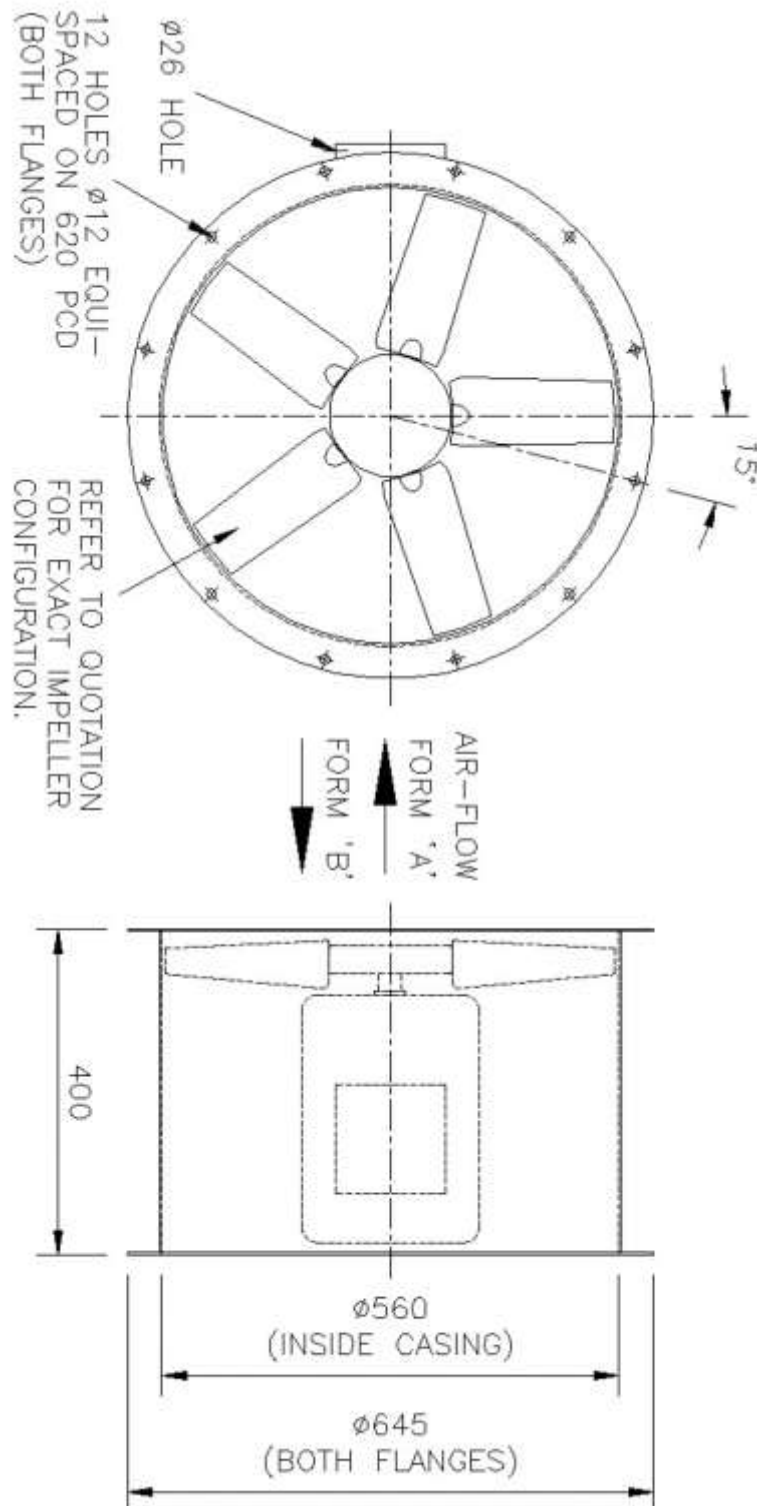
Spectrum (Hz)	63	125	250	500	1k	2k	4k	8k	dBW	dB(A) @ 3m
Inlet (dB)	94	95	95	96	94	89	86	79	102	78
Outlet (dB)	95	95	95	96	94	88	86	78	102	77

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	40.0%	Input Power	3.87 kW
Measurement Category	C	Airflow	2.76 m <sup>3</sup> /s
Efficiency Category	Static	Pressure	560 Pa
FMEG	42	Speed	2880 r/min
Specific Ratio	1		

Drawing for Fan model LCS056N2-A6/16



Technical Graphs

