DUCT AXIAL FANS

APPLICATION

Duct axial fans available with long and short case, suitable to extract air in commercial and industrial where high performances combined with strength, durability and corrosion resistance are requested, such as industrial kitchens, sports halls, warehouses, factories, schools, cooling towers, airports, in the naval and agricultural field, etc...

CONSTRUCTION

- Fan casing constructed from a single sheet, roll formed and welded, with both motor and axial impeller mounted within the length of the unit casing.
- Casing made from reinforced, bent, welded and hot-dip galvanised steel in compliance with BS EN ISO 1461:2009 after fabrication and drilled to BS ISO 6580:2005.
- Adjustable pitch aerofoil impellers provided with blades made from high quality pressure die cast aluminium (LM6).
- Hubs manufactured from die cast aluminum alloy (LM24).
- Dynamically balanced impellers to ISO 14694 Grade G6.3.
- Totally enclosed motors, with sealed for life ball bearings, efficient class IE2 or IE3, IP55 protection degree, Class F or H insulation to the EN 60034-5. **N.B. IE2 motors with nominal rated power between 0,75kW and 375kW must be used with speed controller.**
- Electrical connection to the motor provided by IP55 terminal box mounted on the outside of the unit casing.

FEATURES & BENEFITS

- The all metal fan casing and guard provide a long lasting and robust construction.
- Wide range available:
  - from 250mm to 2000mm diameter.
  - 2,4,6 or 8-pole motors.
  - single-phase or three-phase motors.
- Impellers are factory set an angle to provide maximum performance.
- Fans are suitable for operating temperatures up to +54°C (check requested model).
- Tested to the latest standards, meaning accurate, up to date information on electrical safety, performance and noise level that can be relied upon.
- Designed and manufactured in accordance with Machine Directive (MD), Low Voltage Directive (LVD), Electromagnetic Compatibility Directive (EMC).

ACCESSORIES

- Mounting feet.
- Anti-vibration mounts (set of 4).
- Bell mouth inlet.
- Matching flange.
- Flexible connector.
- Impeller side guard.
- Silencers (page 58).
- Inverter (upon request).

PLEASE CONTACT AERAULIQA DIRECLTY FOR A SPECIFIC FAN SELECTION

Example of fan selection type LC200X6-A6/20

Location:

Designation:

Performance - Required

Air Flow:	50.00 m³/s
Static Pressure:	400 Pa
Selection Pressure:	400 Pa
Installation Type:	TYPE D
Air Density:	1.204 kg/m³
Atmos. Temp.:	20 °C
Altitude: m	0 m
Humidity:	0.0 %

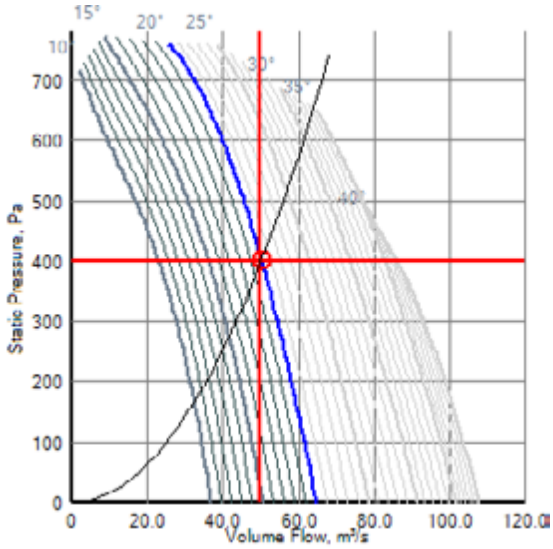
Actual

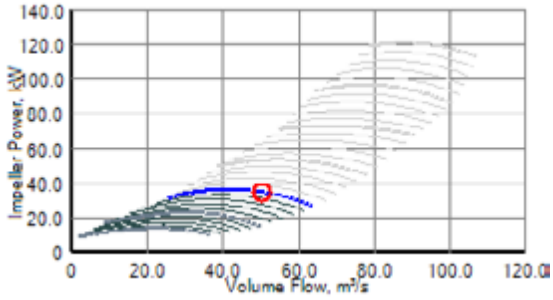
Air Flow:	50.12 m³/s
Static Pressure:	402 Pa
Total Pressure:	555 Pa

Fan Data

Catalogue Code:	LC200X6-A6/20 (LC200X-A6_M-IE3-3-250-37-6)
Description:	Long-Cased Axial

Diameter:	2000 mm	Hub:	550 mm
Impeller Type:	Axial	Pitch:	20°
Blade Material:	Aluminium	Blades:	6
Speed:	960 RPM @50 Hz	Form:	B
Power, Abs:	34.73	Peak:	36.09
Efficiency Total:	80.1%	Static:	58.0%
SFP:	0.74		
Fan Weight:	1075.4 kg		





Motor Data (at STP)

Motor Type:	IE3
Electrical Supply:	400V 3ph 50Hz
Motor Frame:	250S/M
Motor Power:	37.00kW
FLC/Start (DOL):	66.60A / 492.84A
Motor Speed:	6 pole
Motor Efficiency:	94.4%

Sound Data

Spectrum (Hz):	63	125	250	500	1K	2K	4K	8K	dBW	dB(A) @ 3m
Inlet (dB):	104	107	103	102	101	99	95	91	111	85
Outlet (dB):	107	108	104	101	100	99	96	92	112	85

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

Location:

Designation:

Energy Related Product Data

Overall Efficiency:	62.9%
Measurement Category:	C
Efficiency Category :	Static
FMEG:	61
Specific Ratio:	1

At Maximum Efficiency Point

Input Power:	37.86 kW
Air Flow:	37 m³/s
Pressure:	640 Pa
Speed:	960 r/min