

CADN

Double panel Box fan direct drive with forward curved blades



Product

CADN

Application

Civil and industrial applications

Construction

Load-bearing structure: frame and aluminium profiles
Panels: double sound-absorbing paneling th. 25 mm
or single pre-painted panel cladding equipped with acoustic
insulation

CABINET

Structure made with extruded aluminium profiles connected by ABS corner joints. Sandwich panels in external pre-painted sheet metal RAL 7032 and internal galvanized sheet metal, with EPDM sealing profile, with interposed 25 mm rigid expanded polyurethane with density 47 kg/m³ and thermal conductivity of 0.0247 Wm²K at 10 °C UNI 7891 according to ISO1923, sound insulation power Rw = 40 dB (ISO 140/10). Inspection door with sealed closure.

FAN

Centrifugal fan with forward curved blades, double inlet with direct drive motor, made of galvanized steel. Flow rate up to 7750 m³/h and pressure up to 500 Pa. Fan blade dynamically balanced according to ISO-1940.

MOTOR

Motor with ball bearings, in execution single-phase 230 V 50 Hz or three-phase 400 V 50 Hz, available in 4 or 6 poles. On request Brushless or 3-speed motor.

APPLICATIONS



CIVIL
VENTILATION



TECHNICAL
ROOMS



OFFICES



PUBLIC
SERVICES



CANTEENS



RESTAURANTS

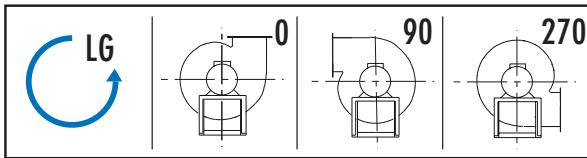


FAST FOOD

Fan characteristic curves are available on page 27 (section CBD - Forward Curved Blade Centrifugal Fan)



ORIENTATIONS



STANDARD orientation LG 90.

Electrical wiring on the left side in LG 90, right side in LG0 and LG270 orientation (following the airflow).

Optional anti-vibration joint mandatory in LG0.

TECHNICAL FEATURES - OPERATING RANGE

Operating range	Max flow rate (m ³ /h)	From 250 to 7,800
	Pressure (Pa)	From 50 to 550
Min. outlet	mm	230x208
Max. outlet	mm	387x345
Motor	Volt (±10%)	230 M / 230-400 T
	Poles	4-6

CABINET TECHNICAL FEATURES

The thermal and acoustic containment walls in CADN units are composed of sandwich panels, 25 mm thick, consisting of an insulating component in expanded polyurethane lined on one side with galvanized sheet metal and on the other with pre-painted sheet metal, grey RAL 7032. It has a density of 47 kg/m³. The insulating component is expanded using water, therefore the foam contains neither CFC nor HCFC.

Thanks to the high number of closed cells, exceeding 95%, the panel foam has a thermal conductivity, measured according to UNI 7891 standard, of 0.0247 W/(m K) at a temperature of 10 °C. Regarding sound insulation, according to ISO 140/10 standard, it is equal to Rw=40 dB.

The panel can be used in a temperature range between -40 °C and +80 °C in continuous operation and without substantial changes in thermal insulation characteristics.

Structure made with extruded aluminium profiles connected by ABS corner joints.

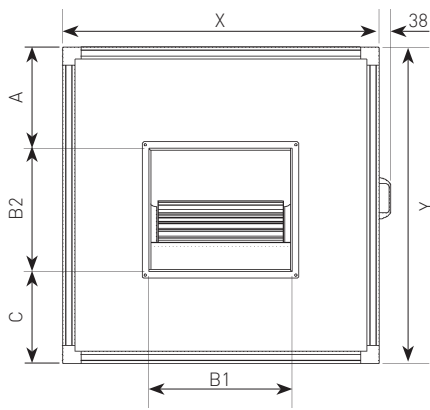
Inspection door panel equipped with sealed closures, panel opposite the inspection and opposite the discharge removable by means of screws.

CADN

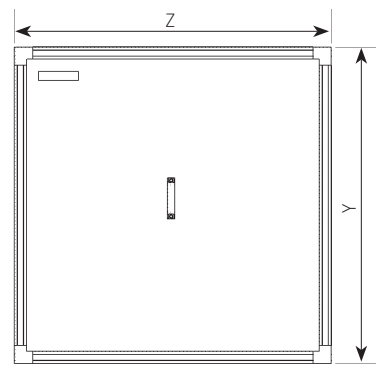
Centrifugal box fan
direct drive with forward curved blades

DIMENSIONS

Fan blade	Inlet discharge B1xB2 mm	Inlet height in standard 90 configuration					Wt nominal kg
		X mm	Y mm	Z mm	C mm	A mm	
7/7	230x208	500	500	500	185	107	35
9/7	230x263	600	600	600	197	140	40
9/9	300x263	600	600	600	197	140	40
10/8	260x292	600	600	600	218	90	40
10/10	326x292	600	600	600	218	90	40
12/9	300x345	750	750	750	241	164	65
12/12	387x345	750	750	750	241	164	65



FRONT VIEW



RIGHT SIDE VIEW



AVAILABLE MODELS

Fan blade Inches	Power installed kW	Power supply Volt/Hz/f	Speed RPM	Poles Number
7/7	0.07	230/50/1	820	6
7/7	0.15	230/50/1	1346	4
9/7	0.37	230/50/1	1387	4
9/9	0.20	230/50/1	915	6
9/9	0.55	230/50/1	1376	4
10/8	0.55	230/50/1	1310	4
10/10	0.25	230/50/1	924	6
10/10	0.55	230/50/1	1282	4
12/9	0.75	230/50/1	923	6
12/9	1.1	230/50/1	945	6
12/12	0.75	230/50/1	926	6
12/12	1.1	400/50/3	958	6

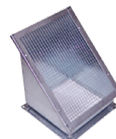
ACCESSORIES



Anti-vibration joint



Rain guard roof



Exhaust connector with mesh protection



Duct connector
Ductable filter holder



Support feet



Safety switch
ON/OFF



3-speed selector



Speed controller
single-phase

All images are only indicative of the product type and may differ from the actual article.