

# CPAN

## Belt-driven box fan with forward curved blades



### Product

CPAN

### Application

Civil and industrial applications

### Construction

Load-bearing structure: aluminium frame and 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/m<sup>3</sup> and thermal conductivity of 0.0247 Wm K at 10 °C UNI 7891 according to ISO1923, sound insulation power  $R_w = 40$  dB (ISO 140/10). Inspection door with CE standard closure.

### FAN

Centrifugal fan with forward curved blades, double inlet, belt-driven execution, made of galvanized steel. Lightweight execution. Maintenance-free bearings mounted in stamped steel spider brackets.

### MOTOR

4-pole three-phase asynchronous motor with squirrel cage rotor, class IE3, in 400 V - 50/60 Hz version, IP55 protection. Available in dual polarity 4/6 poles, 2 speeds. Belt drive with SPA pulleys coupled with TAPER BUSH to the shafts. Belt tensioning slide on aluminium base. Working temperature range (-20 ÷ +60) °C.

## APPLICATIONS



TECHNICAL  
ROOMS



LARGE SPACES



HOSPITALS



CANTEENS



RESTAURANTS



FAST FOOD

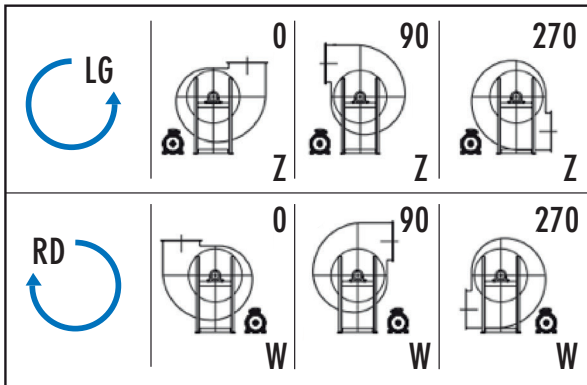


OFFICES

Fan characteristic curves are available on page 40 (section ATS - Belt-Driven Centrifugal Fan)



## ORIENTATIONS



STANDARD orientation LG 90. Inspection: left side.  
FOLLOWING THE AIRFLOW DIRECTION.

Optional anti-vibration joint, mandatory in LG0 and RD0.

## TECHNICAL FEATURES - OPERATING RANGE

Operating range	Flow rate (m <sup>3</sup> /h)	From 2,300 to 21,700
	Pressure (Pa)	From 960 to 1,370
Min. outlet	mm	232x208
Max. outlet	mm	557x478
Motor	Volt (±10%)	230-400 T / 400-690 T
	Poles	4-6
	IP	55
Fluid temp min. limit	°C	-20
Fluid max. temp limit	°C	+60

## TECHNICAL CHARACTERISTICS OF THE CABINET

The thermal and acoustic containment walls in CPAN 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/m<sup>3</sup>.

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 the sound insulation power, 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.

CPAS version available on request only in RD 90 and LG 90 orientations.

Made with pre-painted sheet metal panels in grey RAL 7032, equipped with 3 mm thick thermal and acoustic insulation.

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

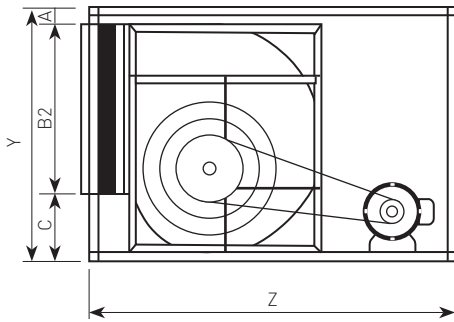
Inspection door panel equipped with sealed closures, panel opposite the inspection and opposite the discharge removable by means of screws.

# CPAN

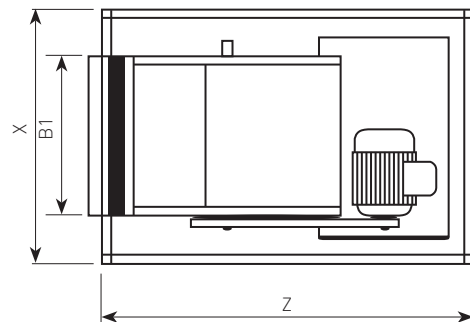
Centrifugal box fan  
belt-driven with forward curved blades

## 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	232x208	600	600	750	237	155	50
9/9	296x262	600	600	750	245	93	75
10/10	331x289	750	750	900	284	177	85
12/12	395x341	750	750	900	310	99	90
15/15	471x404	900	900	1000	335	161	130
18/18	557x478	1000	1000	1200	391	131	170



LEFT SIDE VIEW



TOP VIEW

## TECHNICAL CHARACTERISTICS - OPERATING LIMITS

Fan blade	Max. speed RPM	Max. power installed kW	Flow rate maximum m³/h	Pressure max. static Pa
7/7	2600	3	2300	1070
9/9	2100	3	6800	1180
10/10	2000	4	8500	1370
12/12	1500	5.5	12000	1110
15/15	1200	5.5	14900	960
18/18	1100	7.5	21700	1110



## ACCESSORIES



Anti-vibration joint



Rain guard roof



Exhaust connector with  
mesh  
protection



Duct connector  
Ductable filter holder



Support feet



Switch  
safety ON/OFF



RVIT  
Inverter IP20 AND IP66



Disconnecter  
and switch 2 V 20 A

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