

# CENTRO-JET

## Induction centrifugal fans

### Use

- Induction centrifugal fans **Centro-Jet** are designed for general purpose ventilation of underground and semiopened parkings, smoke extraction in case of fire as a part of smoke extract system. The fans generate a high-speed and high-pressure directed air jet.



### Design

- Centro-Jet casing is made of polymer coated steel.
- Due to low height of the casing the fan is recommended for use in low-ceilinged room.
- The protecting grille on the intake side prevents ingress of foreign objects into the fan.
- Deflector plates on the exhaust side of the fan ensure correct air flow distribution.

### Modifications

- Single-speed
- Double-speed

### Motor

- Single- or double-speed 4-, 6- or 8-pole asynchronous motors are used. The motor ingress protection rating is IP55. The motors are rated for 400 V power mains voltage and 50 Hz frequency.

### Impeller

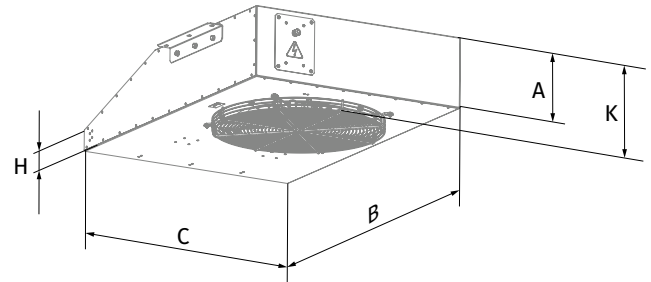
- The impeller with backward curved steel blades.

### Mounting

- The Centro-Jet fans are designed for ceiling mounting and fixation by means of the supplied fixing brackets. Power is supplied through the internal terminal box. The fan wiring and mounting must be made according to the instructions and the wiring diagram shown in the terminal box.

### Overall dimensions [mm]

Model	A	B	C	H	K	Weight [kg]
<b>Centro-Jet-50N</b>	290	1355	935	90	350	96
<b>Centro-Jet-85N</b>	330	1605	1105	110	390	136
<b>Centro-Jet-100N</b>	330	1605	1105	110	390	138



The fans with the fire resistance rating 200 °C/2 hrs can be manufactured on special request.

### Designation key

Model	Fan pull [N]	Number of poles	Fire resistance limit/hrs
<b>CENTRO-JET:</b> Induction centrifugal fan	- <b>50N</b> <b>85N</b> <b>100N</b>	- <b>4</b> <b>4/6</b> (applicable for double-speed models) <b>4/8</b> (applicable for double-speed models)	- <b>—</b> : max. +55 °C <b>300/2</b> : 300 °C/2 h <b>400/2</b> : 400 °C/2 h

## Technical data

Model	Number of speeds	Max. air flow [m <sup>3</sup> /h]	Power [kW]	Fan pull [N]	Air speed [m/s]	RPM	Operating temperature [°C]	Sound pressure LpA, dB in 3 m
Centro-Jet-50N-4							-25...+55 °C	
Centro-Jet-50N-4-300/2	1	6200	1.5	50	20.5	1500	300 °C/2 h*	72
Centro-Jet-50N-4-400/2							400 °C/2 h*	
Centro-Jet-50N-4/6							-25...+55 °C	
Centro-Jet-50N-4/6-300/2		6200/4100	1.5/0.37	50/20	20.5/13.5	1500/1000	300 °C/2 h*	72/59
Centro-Jet-50N-4/6-400/2							400 °C/2 h*	
Centro-Jet-50N-4/8	2						-25...+55 °C	
Centro-Jet-50N-4/8-300/2		6200/3100	1.6/0.4	50/13	20.5/10.2	1500/750	300 °C/2 h*	72/57
Centro-Jet-50N-4/8-400/2							400 °C/2 h*	
Centro-Jet-85N-4							-25...+55 °C	
Centro-Jet-85N-4-300/2	1	9750	2.2	85	22.3	1500	300 °C/2 h*	76
Centro-Jet-85N-4-400/2							400 °C/2 h*	
Centro-Jet-85N-4/6							-25...+55 °C	
Centro-Jet-85N-4/6-300/2		9750/5950	2.2/0.7	85/28	22.3/13.6	1500/1000	300 °C/2 h*	76/63
Centro-Jet-85N-4/6-400/2							400 °C/2 h*	
Centro-Jet-85N-4/8	2						-25...+55 °C	
Centro-Jet-85N-4/8-300/2		9750/4150	2.2/0.55	85/20	22.3/9.5	1500/750	300 °C/2 h*	76/60
Centro-Jet-85N-4/8-400/2							400 °C/2 h*	
Centro-Jet-100N-4							-25...+55 °C	
Centro-Jet-100N-4-300/2	1	10200	3	100	23.3	1500	300 °C/2 h*	78
Centro-Jet-100N-4-400/2							400 °C/2 h*	
Centro-Jet-100N-4/8							-25...+55 °C	
Centro-Jet-100N-4/8-300/2	2	10200/5150	2.8/0.7	100/26	23.3/11.8	1500/750	300 °C/2 h*	78/63
Centro-Jet-100N-4/8-400/2							400 °C/2 h*	

\* Smoke extraction mode: once for two hours