

IMPULSE CENTRIFUGAL FANS

CENTRO-JET SERIES



Impulse centrifugal fans with fire resistance limit 300 °C/2 h and 400 °C/2 h for ventilation of underground parkings. Compactness. Power. Efficiency.

Application

Impulse 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.

Modifications

- Single-speed
- Double-speed

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.

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

Motor

Single- or double-speed 4-, 6- or 8-pole asynchronous motors. 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.

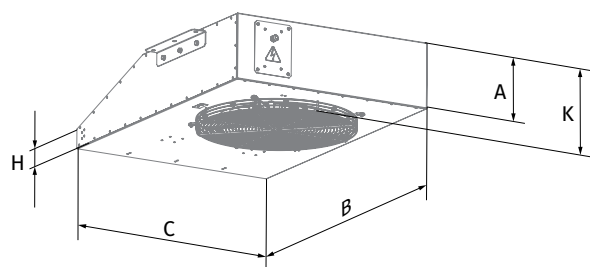
Mounting

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



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

Designation key

| Model | Fan pull [N] | Pole number | Fire resistance limit/hrs |
|---|---|--|--|
| CENTRO-JET: impulse centrifugal fan | - 50N - 85N - 100N | - 4 (for single-speed models) - 4/6 (for double-speed models) - 4/8 (for double-speed models) | - — : max. +55 °C 300/2 : 300 °C/2 hrs. 400/2 : 400 °C/2 hrs. |

TECHNICAL DATA

| Model | Number of speeds | Max. air capacity [m³/h] | Power [kW] | Fan pull [N] | Air speed [m/s] | RPM | Operating temperature* |
|---------------------------|------------------|--------------------------|------------|--------------|-----------------|-----------|------------------------|
| Centro-Jet-50N-4 | 1 | 6200 | 1.5 | 50 | 20.5 | 1500 | -25...+55 °C |
| Centro-Jet-50N-4-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-50N-4-400/2 | | | | | | | 400 °C/2 h |
| Centro-Jet-50N-4/6 | 2 | 6200/4100 | 1.5/0.37 | 50/20 | 20.5/13.5 | 1500/1000 | -25...+55 °C |
| Centro-Jet-50N-4/6-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-50N-4/6-400/2 | | | | | | | 400 °C/2 h |
| Centro-Jet-50N-4/8 | | | | | | | -25...+55 °C |
| Centro-Jet-50N-4/8-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-50N-4/8-400/2 | 400 °C/2 h | | | | | | |
| Centro-Jet-85N-4 | 1 | 9750 | 2.2 | 85 | 22.3 | 1500 | -25...+55 °C |
| Centro-Jet-85N-4-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-85N-4-400/2 | | | | | | | 400 °C/2 h |
| Centro-Jet-85N-4/6 | 2 | 9750/5950 | 2.2/0.7 | 85/28 | 22.3/13.6 | 1500/1000 | -25...+55 °C |
| Centro-Jet-85N-4/6-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-85N-4/6-400/2 | | | | | | | 400 °C/2 h |
| Centro-Jet-85N-4/8 | | | | | | | -25...+55 °C |
| Centro-Jet-85N-4/8-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-85N-4/8-400/2 | 400 °C/2 h | | | | | | |
| Centro-Jet-100N-4 | 1 | 10200 | 3 | 100 | 23.3 | 1500 | -25...+55 °C |
| Centro-Jet-100N-4-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-100N-4-400/2 | | | | | | | 400 °C/2 h |
| Centro-Jet-100N-4/8 | 2 | 10200/5150 | 2.8/0.7 | 100/26 | 23.3/11.8 | 1500/750 | -25...+55 °C |
| Centro-Jet-100N-4/8-300/2 | | | | | | | 300 °C/2 h |
| Centro-Jet-100N-4/8-400/2 | | | | | | | 400 °C/2 h |

* Smoke extraction mode: once for two hours