

# IMPULSE CENTRIFUGAL FANS

## CENTRO-JET SERIES



Impulse centrifugal fans with fire resistance limit 200 °C/2 h, 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.

### Motor

Single- or double-speed 4-, 6- or 8-pole asynchronous motors. Motor ingress protection rating is IP55.

### Impeller

The impeller with backward curved steel blades.

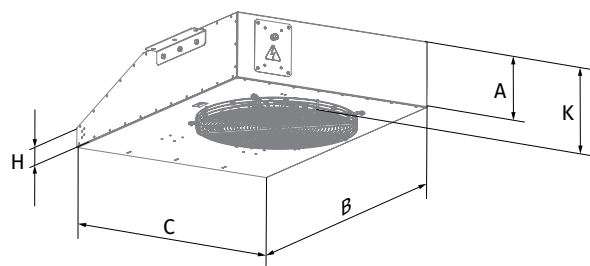
### Mounting

**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	
<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

Designation key				
Model	Fan pull [N]	Pole number	Climatic category	Fire resistance limit/hrs
<b>CENTRO-JET:</b> impulse centrifugal fan	<b>50N</b>	<b>4</b> (for single-speed models)	<b>U:</b> moderate climate (-40...+40 °C)	<b>_:</b> max. +55 °C
	<b>85N</b>	<b>4/6</b> (for double-speed models)	<b>HL:</b> cold climate (-60...+40 °C)	<b>200/2:</b> 200 °C/2 hrs.
	<b>100N</b>	<b>4/8</b> (for double-speed models)	<b>UHL:</b> moderate and cold climate (-60...+40 °C)	<b>300/2:</b> 300 °C/2 hrs.
			<b>T:</b> tropical climate (-10...+50 °C)	<b>400/2:</b> 400 °C/2 hrs.
			<b>M:</b> maritime moderately cold climate (-40...+40 °C)	
			<b>O:</b> general climatic modification (except maritime climate) (-60...+50 °C)	
			<b>OM:</b> general maritime climatic modification (-40...+40 °C)	
			<b>V:</b> universal climatic modification (-60...+50 °C)	

## TECHNICAL DATA

Model	Number of speeds	Unit voltage [V]	Frequene [Hz]	Max. air capacity [m³/h]	Power [kW]	Fan pull [N]	Air speed [m/s]	RPM	Operating temperature*	Fire resistance	Weight [kg]
<b>50N, SINGLE-SPEED</b>											
Centro-Jet 50N-4-...	1	3~400	50	6200	1.5	50	20.5	1500	-25...+55 °C	55 °C	96
Centro-Jet 50N-4-...-200/2									200 °C/2 h	F200	
Centro-Jet 50N-4-...-300/2									300 °C/2 h	F300	
Centro-Jet 50N-4-...-400/2									400 °C/2 h	F400	
<b>50N, DOUBLE-SPEED</b>											
Centro-Jet 50N-4/6-...	2	3~400	50	6200 / 4100	1.5 / 0.37	50 / 20	20.5 / 13.5	1500 / 1000	-25...+55 °C	55 °C	96
Centro-Jet 50N-4/6-...-200/2									200 °C/2 h	F200	
Centro-Jet 50N-4/6-...-300/2									300 °C/2 h	F300	
Centro-Jet 50N-4/6-...-400/2									400 °C/2 h	F400	
Centro-Jet 50N-4/8-...	2	3~400	50	6200 / 3100	1.6 / 0.4	50 / 13	20.5 / 10.2	1500 / 750	-25...+55 °C	55 °C	96
Centro-Jet 50N-4/8-...-200/2									200 °C/2 h	F200	
Centro-Jet 50N-4/8-...-300/2									300 °C/2 h	F300	
Centro-Jet 50N-4/8-...-400/2									400 °C/2 h	F400	
<b>85N, SINGLE-SPEED</b>											
Centro-Jet 85N-4-...	1	3~400	50	9750	2.2	85	22.3	1500	-25...+55 °C	55 °C	136
Centro-Jet 85N-4-...-200/2									200 °C/2 h	F200	
Centro-Jet 85N-4-...-300/2									300 °C/2 h	F300	
Centro-Jet 85N-4-...-400/2									400 °C/2 h	F400	
<b>85N, DOUBLE-SPEED</b>											
Centro-Jet 85N-4/6-...	2	3~400	50	9750 / 5950	2.2 / 0.7	85 / 28	22.3 / 13.6	1500 / 1000	-25...+55 °C	55 °C	136
Centro-Jet 85N-4/6-...-200/2									200 °C/2 h	F200	
Centro-Jet 85N-4/6-...-300/2									300 °C/2 h	F300	
Centro-Jet 85N-4/6-...-400/2									400 °C/2 h	F400	
Centro-Jet 85N-4/8-...	2	3~400	50	9750 / 4150	2.2 / 0.55	85 / 20	22.3 / 9.5	1500 / 750	-25...+55 °C	55 °C	136
Centro-Jet 85N-4/8-...-200/2									200 °C/2 h	F200	
Centro-Jet 85N-4/8-...-300/2									300 °C/2 h	F300	
Centro-Jet 85N-4/8-...-400/2									400 °C/2 h	F400	
<b>100N, SINGLE-SPEED</b>											
Centro-Jet 100N-4-...	1	3~400	50	10200	3.0	100	23.3	1500	-25...+55 °C	55 °C	138
Centro-Jet 100N-4-...-200/2									200 °C/2 h	F200	
Centro-Jet 100N-4-...-300/2									300 °C/2 h	F300	
Centro-Jet 100N-4-...-400/2									400 °C/2 h	F400	
<b>100N, DOUBLE-SPEED</b>											
Centro-Jet 100N-4/8-...	2	3~400	50	10200 / 5150	2.8 / 0.7	100 / 26	23.3 / 11.8	1500 / 750	-25...+55 °C	55 °C	138
Centro-Jet 100N-4/8-...-200/2									200 °C/2 h	F200	
Centro-Jet 100N-4/8-...-300/2									300 °C/2 h	F300	
Centro-Jet 100N-4/8-...-400/2									400 °C/2 h	F400	

\* Smoke extraction mode: once for two hours