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.
- Temperatures of the transported medium: in continuous operation up to +55 °C; in smoke extraction mode: 300 °C/2 hrs and 400 °C/2 hrs.
- The fans with the fire resistance rating 200 °C/2 hrs can be manufactured on special request.



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

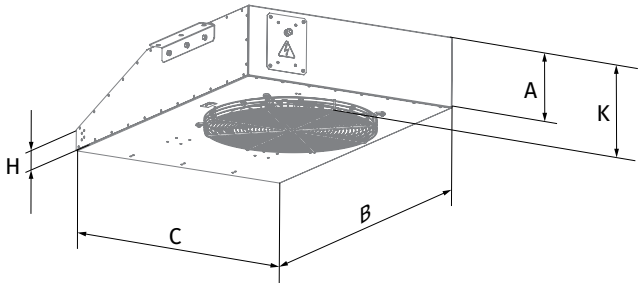
- The impeller with backward curved steel blades.

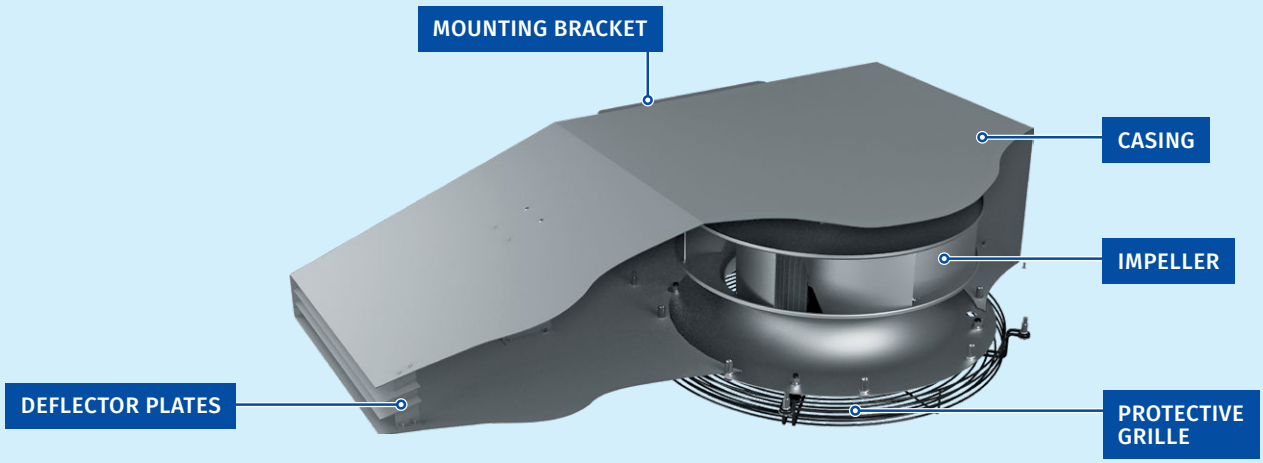
Mounting

- 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 wirind diagram shown in the terminal box.

Dimensions [mm]

Model	A	B	C	H	K	Weight [kg]
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		Thrust [N]		Number of poles		Fire resistance limit/hrs
Centro-Jet: Induction centrifugal fan	–	**50N** **85N** **100N**	–	**4** **4/6** (applicable for double-speed models) **4/8** (applicable for double-speed models)	–	**_:** max. +55 °C **300/2:** 300 °C/2 h **400/2:** 400 °C/2 h

Technical data

Model	Number of speeds	Max. air flow [m³/h]	Power [kW]	Thrust [N]	Air speed [m/s]	RPM	Operating temperature [°C]	Sound pressure LpA, dB in 3 m
Centro-Jet-50N-4	1	6200	1.5	50	20.5	1500	–25...+55 °C	72
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	72/59
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		6200/3100	1.6/0.4	50/13	20.5/10.2	1500/750	–25...+55 °C	72/57
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	76
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	76/63
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		9750/4150	2.2/0.55	85/20	22.3/9.5	1500/750	–25...+55 °C	76/60
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	78
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	78/63
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