

INDUCTION CENTRIFUGAL FANS

AT-ICF SERIES



Induction centrifugal fans of underground parkings.
 Temperatures of the transported medium: in continuous operation up to +55 °C in smoke extraction mode:
 300 °C – 2 hrs
 400 °C – 2 hrs
 Compactness. Power. Efficiency.

■ Application

Induction centrifugal fans ICF 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

ICF 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 are used. The motor ingress protection rating is IP55. The motors are rated for 400 V power mains voltage and 50 Hz frequency.

■ Impeller

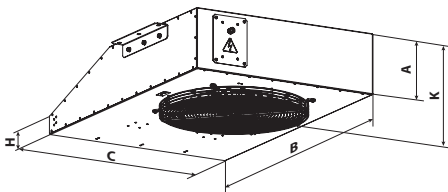
The impeller with backward curved steel blades.

■ Mounting

ICF 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.



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

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

Model	Fan pull [N]	Pole number	Fire resistance limit/h
ICF (Induction Centrifugal Fan)	- 50 N 85 N 100 N	- 4 4/6 (applicable for double-speed models) 4/8 (applicable for double-speed models)	- no number: max. +55 °C 300/2: 300 °C/2 h 400/2: 400 °C/2 h

■ Technical data

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

* Smoke extraction mode: once for two hours