

60 Hz

ICF SERIES



Induction centrifugal fans for ventilation of parkings. Transported air temperature in continuous mode up to +55°C, in smoke extraction mode: 300 °C/2 h, 400 °C/2 h 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

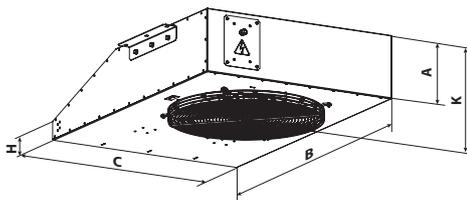
Single- or double-speed 4-, 6- or 8-pole asynchronous motors are used. The motor ingress protection rating is IP55. The motors are rated for 400 V power mains voltage and 50 Hz frequency.

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	265	1355	935	90	325	92

Model	Fan pull [N]	Pole number	Fire resistance limit/h	Frequency
ICF (Impulsion Centrifugal Fan)	50 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	undefined: 50 Hz 60 Hz: 60 Hz

Technical data

Model	Number of speeds	Max. air capacity [m³/h]	Power [kW]	Fan pull [N]	Air speed [m/s]	RPM	Operating temperature [°C]	Sound pressure LpA, dB in 3 m
ICF-50N-4-60Hz	1	6400	1,5	50	22,3	1800	-25...+55 °C	72
ICF-50N-4-300/2-60Hz							300 °C/2 h*	
ICF-50N-4-400/2-60Hz							400 °C/2 h*	
ICF-50N-4/6-60Hz	2	6400/4250	1,5/0,37	50/20	22,3/14,2	1800/1200	-25...+55 °C	72/59
ICF-50N-4/6-300/2-60Hz							300 °C/2 h*	
ICF-50N-4/6-400/2-60Hz							400 °C/2 h*	
ICF-50N-4/8-60Hz							-25...+55 °C	
ICF-50N-4/8-300/2-60Hz	2	6400/3200	1,6/0,4	50/13	22,3/11,1	1800/900	300 °C/2 h*	72/57
ICF-50N-4/8-400/2-60Hz							400 °C/2 h*	

* Smoke extraction mode: once for two hours