



Industrial ceiling fan ICF

Equalizes the temperature in buildings with high ceilings

Application

Ceiling fans are used primarily to equalize the temperature in rooms with high ceilings, such as industrial and warehouse buildings, gymnasiums, and shops. Several controls as well as downrods and blades of different sizes are available, making it possible to adapt ceiling fan ICF to almost all applications.

Comfort

Warm air is lighter than cold air and therefore rises towards the ceiling. In buildings with high ceilings, a cushion of warm air builds under the ceiling. Ceiling fan ICF pushes down the heated air at a low speed. In this way, the heat is better utilised in the occupied zone without draughts. Ceiling fan ICF can rotate in both ways, an advantage when installed at a low height.

Operation and economy

Ceiling fan ICF pushes the warm air from the ceiling and thus lowers the temperature there, the heat losses through the roof and walls are reduced and in many cases, heating costs can be reduced by up to 30%.

Industrial ceiling fan ICF is of high quality and maintenance free with a long service life. Easy installation and low energy consumption gives a very short pay-off period, in many instances in less than a year.

Design

Industrial ceiling fan ICF has a functional design and white colour which blends well in most premises. The low sound level makes it even more discreet.

Product specifications

- The blades push down large volumes of air without causing excessive air speed.
- Can operate clockwise and anti-clockwise.
- Canopy with vibration absorption.
- Fan blades and downrod coated with zinc.
- The enclosed motor is equipped with permanently lubricated ball bearings for long life.
- Other fan blade diameters are available as an accessory (914, 1218 mm).
- Other downrods are available as an accessory (gives a total height of 395, 945 mm).
- High protection class, IP55 (ICF55).
- Colour: NCS S 0505-R90B



Reduces heat losses with up to 30 %.

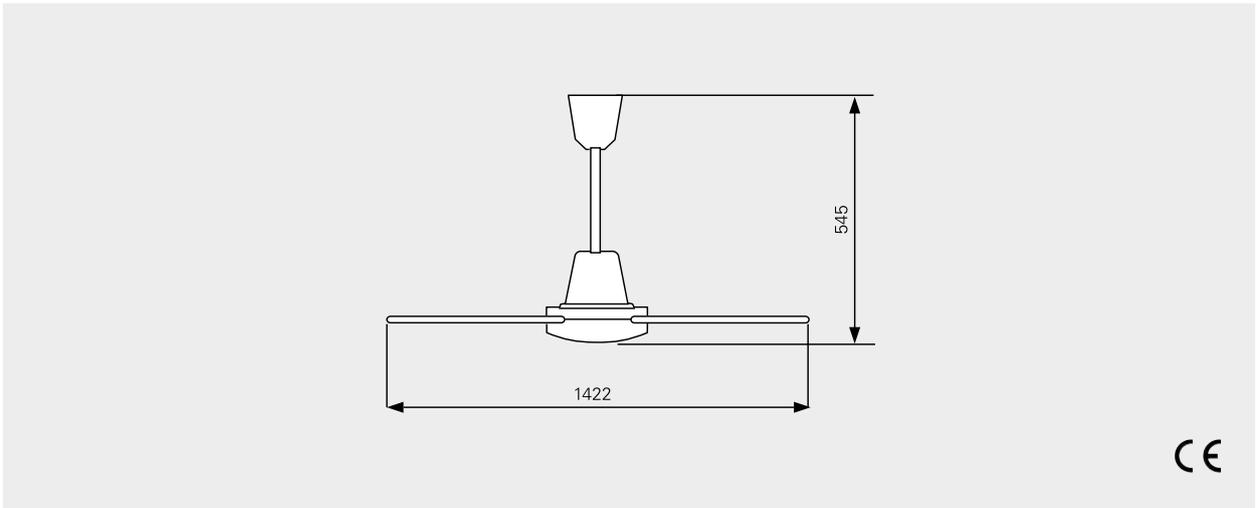
Technical specifications

Industrial ceiling fan ICF (IP20 / IP55)

| Type | Output [W] | Airflow [m³/h] | Voltage [V] | Amperage [A] | Height x Ø [mm] | Weight [kg] |
|-------|------------|----------------|-------------|--------------|-----------------|-------------|
| ICF20 | 70 | 13500 | 230V~ | 0.33 | 545x1422 | 6.2 |
| ICF55 | 70 | 13500 | 230V~ | 0.33 | 545x1422 | 6.2 |

Protection class ICF20: IP20.
 Protection class ICF55: IP55.
 Approved by IMQ.

Dimensions



Mounting and connection

The fans are positioned systematically in the room at equal distances between themselves as detailed in the table below. This is to give the best temperature distribution. To adapt the fan to suit each specific room it should be controlled with a fan speed regulator.



| Recommended distance between fans | | | | | |
|-----------------------------------|---|---|---|----|----|
| Ceiling height [m] | 4 | 6 | 8 | 10 | 12 |
| Distance a [m] | 5 | 7 | 8 | 9 | 10 |

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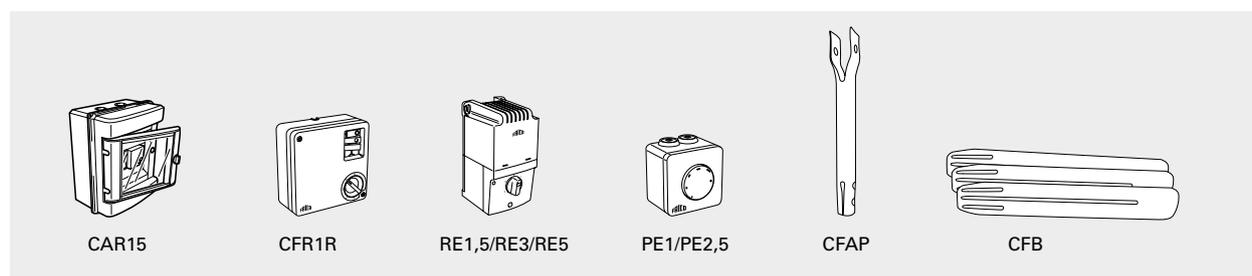
Control options

The fan speed on ceiling fans should be controlled to obtain optimal heat equalization and prevent draughts.

The fan can be reversed for summer operation. CAR15 and CFR1R have this function, with other control options a change-over switch is needed. This switch is connected in a series after the control and a 4x1.5 mm² cable must be used.

- CAR15, automatic fan speed control, reversible
- CFR1R, 5-step control, reversible
- RE1,5 / RE3 / RE5, 5-step control
- PE1 / PE2,5 , variable fan speed control

Accessories



CAR15, automatic fan speed control
Automatic fan speed control, through external sensor, in accordance with variations in the temperature between the ceiling and the floor. Built-in switch for reversed rotation. Max. breaking current: 6,3 A. IP31.

CFR1R, 5-step control
5-step control. Built-in switch for reversed rotation. Max. breaking current: 0,4 A. IPX0.

RE1,5 / RE3 / RE5, 5-step control
5-step control. Max. breaking current: 1,5 / 3 / 5 A. IP54.

PE1/PE2,5, variable fan speed control
Single-phase manual thyristor for variable speed adjustment of the fan and on/off regulation. External mounting (IP54) or recessed mounting (IP44). Max. breaking current: 1 / 2,5 A.

CFAP200, short downrod
Gives the fan a total height of 395 mm.

CFAP750, long downrod
Gives the fan a total height of 945 mm.

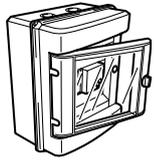
CFB900, fan blades
Gives the fan a diameter of 914 mm.
Complete set of 3 fan blades.

CFB1200, fan blades
Gives the fan a diameter of 1218 mm.
Complete set of 3 fan blades.

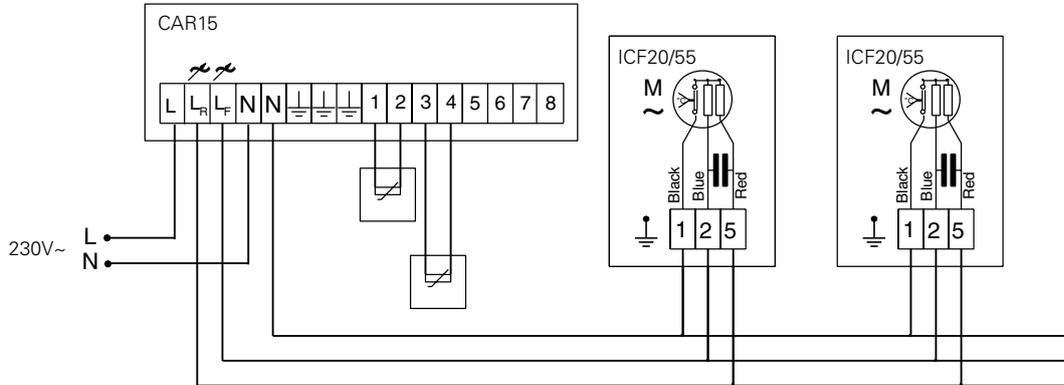
| Type | Description | HxWxD [mm] |
|----------------|--|-------------|
| CAR15 | Automatic fan speed control, max. breaking current: 6,3 A | 210x210x100 |
| CFR1R | 5-step control, max. breaking current: 0,4 A | 120x120x60 |
| PE1 | Variable fan speed control, external mounting (IP54) or recessed mounting (IP44), max. breaking current: 1 A | 82x82x65 |
| PE2,5 | Variable fan speed control, external mounting (IP54) or recessed mounting (IP44), max. breaking current: 2,5 A | 82x82x65 |
| RE1,5 | 5-step control, max. breaking current: 1,5 A | 200x105x105 |
| RE3 | 5-step control, max. breaking current: 3 A | 200x105x105 |
| RE5 | 5-step control, max. breaking current: 5 A | 200x105x105 |
| CFAP200 | Short downrod, total height 395 mm | |
| CFAP750 | Long downrod, total height 945 mm | |
| CFB900 | Fan blades, fan diameter 914 mm | |
| CFB1200 | Fan blades, fan diameter 1218 mm | |

Wiring diagrams

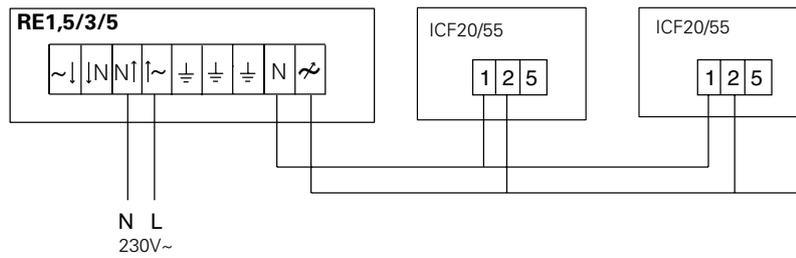
Wiring for fan speed control



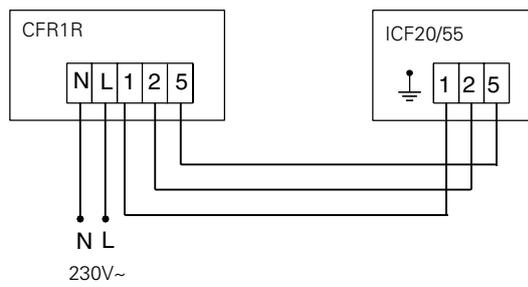
CAR15,
automatic
fan speed control



RE1,5/RE3/RE5,
5-step control



CFR1R,
5-step control



PE,
variable fan speed control

