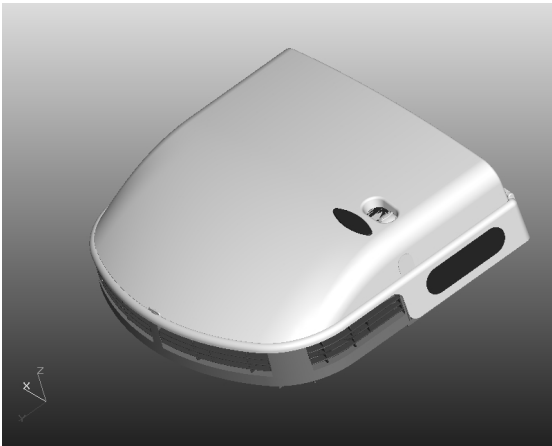


F92C ELECTROSTATIC AIR CLEANER

PRODUCT DATA



DESCRIPTION

The F92C Electrostatic Air Cleaners are wall, ceiling or floorstand-mounted devices designed to clean the air in commercial premises. Stale air is drawn into the cleaner and passed through the pre-filter and electrostatic cell, which remove airborne contaminants such as tobacco, cooking smoke, dust, pollen, bacteria and larger viruses. Odours are removed by the integral carbon filter.

Clean air is discharged from the unit into the room via three-way adjustable louvres. Return air is at the opposite side of the air cleaner.

The Air Cleaner features a solid-state power pack, which is self-regulating and maintains peak efficiency over a wide range of cell dirt loading conditions.

The electrostatic cell can be easily removed for cleaning using water and detergent.

FEATURES

- Models available in off-white or anthracite finish
- Attractive, modern styling harmonises with any décor
- Modular construction
- Hinged front casing
- Robust, injection moulded case
- Quiet running three speed fan (two normal speeds plus boost)
- Plug-in electrical connections
- Infra red remote or in-built manual control
- Optional safe extra low voltage hard wired remote control unit
- Status indication light
- Integral carbon filter
- Self regulating, solid state power pack
- High efficiency, commercial grade collecting cell provides excellent dirt holding capacity

SPECIFICATIONS

Supply voltage : 230V 50-60Hz
 Power : 140 W
 consumption
 Air flow capacity :
 & noise ratings

Model	Fan Speed	M ³ /h	dB(A)
F92C	1	250	50
	2	330	58
	3	500	68

PRR Values

Model	PRR 0	PRR 500
F92C	5,869	5,584

PRR figures are based on independent tests performed by BSRIA using protocol S22/99. Copies of which are available from BSRIA in Bracknell, England.

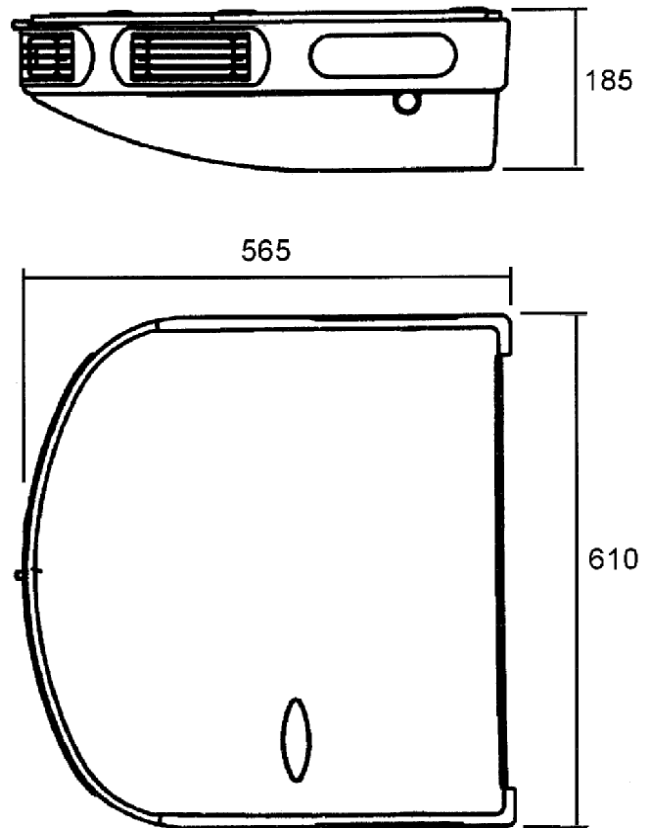
Temperature : Shipping and storage; -20°C to 50°C
 rating : Operating; 5 to 35°C
 Weights :

Model	Weight	Kg
F92C	Shipping Weight	16
	Installed Weight	13

Shipping Volume	0.15m ³
Width	730mm
Height	670mm
Depth	310mm

Approvals: Meets all relevant EU Directives

DIMENSIONS



All dimensions in millimetres

FUNDAMENTALS

Two-stage Precipitation

Honeywell F92C Electrostatic Air Cleaners employ two-stage electrostatic precipitation to remove contaminants from the air in offices and commercial premises.

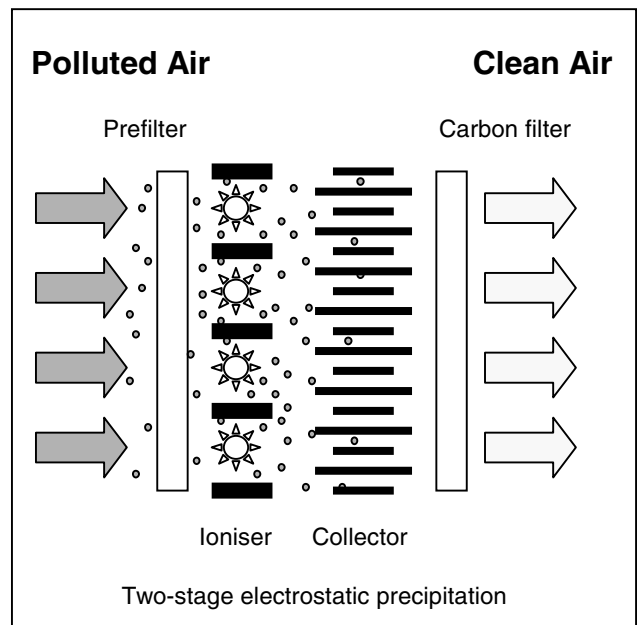
Polluted air is drawn into the air cleaner by a fan and passed through a pre-filter into the first electrostatic stage - the ionisation stage. A high voltage is applied to the stream of air, which charges the particles of contamination.

The air then passes into the collection stage of the cell where the particles are attracted to oppositely charged plates in much the same way as iron filings are attracted to a magnet.

The air, which has had the airborne particles removed, now passes through the carbon filter, where any unpleasant odours are removed

The cleaned air is then recirculated back into the room.

After a period of time the cell can be removed and the collected dirt washed off with water and detergent.



APPLICATION

The F92C range of electrostatic air cleaners is designed to be either wall or ceiling mounted in offices, bars, restaurants and other commercial and public buildings.

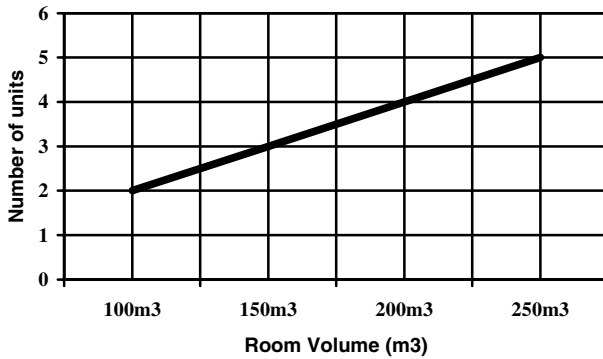
The desired air cleaning can be achieved using a combination of the products' flexible mounting options and its adjustable discharge louvres.

Sizing

Experience shows that when smoking is allowed, an average indoor space typically requires the room air to be circulated through the air cleaner 10 times an hour to maintain a comfortable environment. However, a quiet office might require just half that number.

The actual number of F92C Air Cleaners required for any particular application will depend on the size of the room, the average occupancy and the type of activity in the room.

The following graph shows how to establish the number of F92C Air Cleaners for typical applications. Sizing calculations at speed 3.



Sizing by room volume - 10 air changes per hour

Example:

A restaurant measures 6 x 6 metres with a ceiling height of 2.8 metres:

Find the volume of the room - $6 \times 6 \times 2.8 = 100$ cubic metres.

With reference to the graph above:

A room with a volume of 100 cubic metres, and a cleaning rate of 10 air changes per hour would require 1,000m³/h of cleaned air (100m³ x 10 Air changes / hr) in order to maintain a comfortable air quality.

This means that 2 F92C Air Cleaners at 500m³/h each would be required.

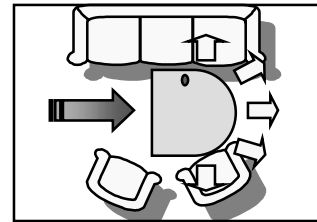
Location

The F92C should be mounted in the centre of the area to be cleaned.

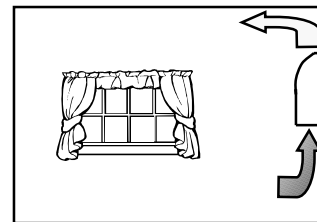
In larger rooms the area should be divided into sections and an F92C mounted at the centre of each section.

The F92C offers great flexibility as it can be mounted on either the ceiling or the wall. In wall mounted applications it can either be mounted horizontally or vertically, with the discharge either upward or downwards. NB, when discharging downwards, care should be taken to avoid creating draughts.

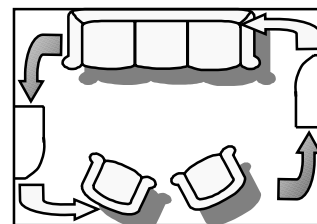
When wall mounting an air cleaner to remove tobacco smoke, remember that smoke will rise. Therefore it is sensible to site the air cleaner as high on a wall as possible.



Plan view of a single ceiling mounted F92C Air Cleaner

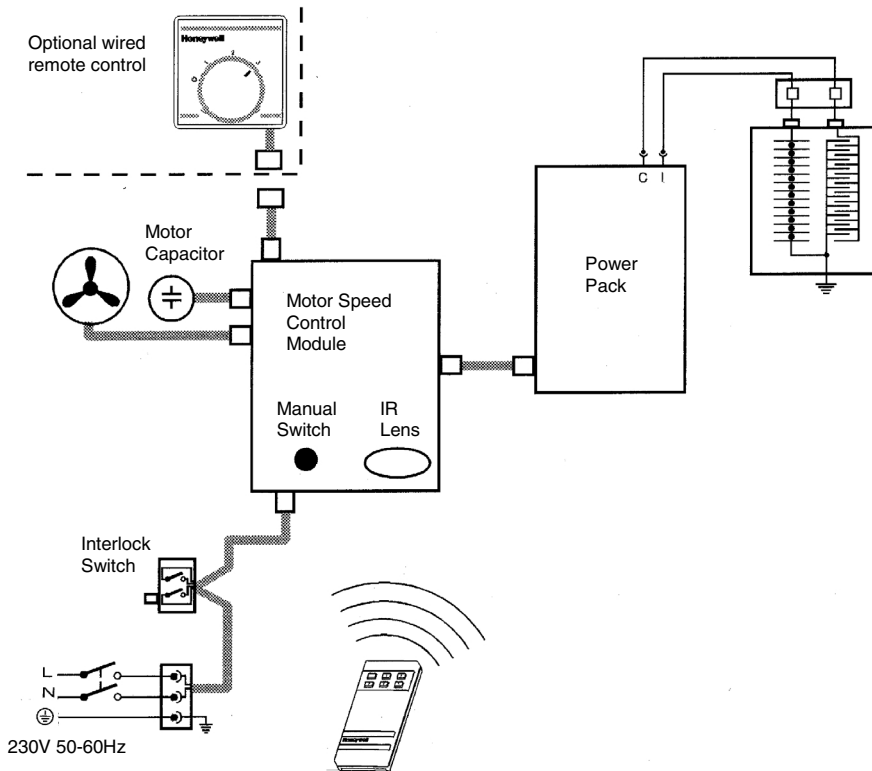


Side view of single wall mounted F92C Air Cleaner



Plan view of two F92C Air Cleaners wall mounted horizontally

INTERNAL SCHEMATICS

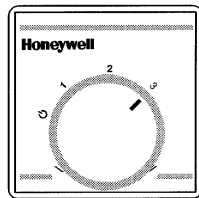


F92C OPTIONS

Wired Remote Control

Application

The Wired Remote Control can be installed in a convenient place as an alternative to infra Red remote control. NB: Not suitable for use with floorstand mounted models



Specification

- Electrical rating : 3-wire, safe extra low voltage (SELV)
- Switches : Standby, 1, 2, 3
- Housing : White plastic
- Mounting : Surface or wall box
- Dimensions : 83 x 83 x 40

Floorstand

Application

The F92C floorstand makes the air cleaner portable and increases the number of applications where it will be effective. A range of dedicated, manually controlled air cleaners, complete with flying leads and plugs is also available

F92C ORDERING SPECIFICATION

Model	Colour	Control		Flying Lead	
		IR	MAN	UK	EU
F92C3001	Off-White	-	✓	-	-
F92C3019	Anthracite	-	✓	-	-
F92C3027	Off-White	✓	-	-	-
F92C3035	Anthracite	✓	-	-	-
F92C3043	Off-White	-	✓	✓	-
F92C3050	Anthracite	-	✓	✓	-
F92C3068	Off-White	-	✓	-	✓
F92C3076	Anthracite	-	✓	-	✓

OPTIONS ORDERING SPECIFICATION

Model	Description
R42009567-001	Wired Remote Control
F42009918-001	Floorstand for F92C

Honeywell