

Quick Guide – Fresh Forward Installation

Components

1. Fresh Forward Fan cartridge
2. Fresh Forward dormant cartridge
3. Flat grill
4. Curved Grill
5. External power supply or built-in power supply
6. 12 Volt extension cable

General

The Fresh Forward is an automatically controlled room to room ventilator with dynamic flow from 12m³/hour to 50m³/hour based on CO₂ and Rh levels. It is wifi connected and runs from a 12 volt power supply.

Minimum wall thickness is 12cm and there is no specific maximum wall thickness as the fan cartridge and dormant cartridge can be separated to suit the thicker wall.



fig 1- Core hole trough the wall



fig 2- Fan cartridge



fig 3 - External power supply (left)
Build-in power supply (right)



Fig 4 - fan cartridge (from stale air side)



fig 5 – installed dormant cartridge



fig 6 - flat grill fitted on dormant side

Installation

Core drill a hole through the wall with diameter 130mm to 150mm. Insert the Fan cartridge into the hole from the room that the stale air needs to be drawn to. This is usually a bathroom or corridor. Secure with 4 screws.

Insert the dormant cartridge from the other side of the wall and secure with 4 screws.

Connecting the power supply

Option 1: for the external power adapter, connect the plug (two-pole, no ground) to the wall socket. The power cable with the barrel plug connects to the barrel connector located on the green board mounted on the Forward.



Electrical tension

A licensed electrician must connect the electricity. Fresh-r is not responsible for incorrect connection. Risk of electric shock or electrocution. Switch off the mains voltage in the meter cupboard before preparing the connection.

Option 2: the built-in power supply can be mounted into a countersunk electrical switch box with the 12V cable being either surface mounted or concealed within the wall. The electrical connection is polarity sensitive with the positive being connected to the center and the negative being the outer metal connector of the barrel jack plug.

If the polarity is reversed then the Fresh Forward will not function. There is polarity protection to avoid damage but the unit should not be left connected for longer than a few minutes with reversed polarity.

Start-up

When the Fresh Forward is powered up it will initially start with the fans running at high speed. After a minute or so the fans will reduce to the operating speed appropriate for the level of CO₂ in the room.