

Vent-Axia FAN7453 MultiVent Continuous Extract Ventilation Installation Guide

Contents

- [1 FAN7453 MultiVent Continuous Extract Ventilation](#)
- [2 Product Information:](#)
- [3 Specifications:](#)
- [4 Product Usage Instructions:](#)
 - [4.1 Documents / Resources](#)

FAN7453 MultiVent Continuous Extract Ventilation

Product Information:

The MultiVent continuous extract ventilation is a versatile system designed for simultaneous ventilation of separate areas in the home and as a multipoint extraction system for commercial applications. It can be mounted on walls, ceilings, or lofts. The unit includes condensate drains for areas with high humidity content in the ambient air.

Product Code: FAN7453

Specifications:

- Duct Size: 125mm & 150mm
- Max. Fan Watts: 85W
- Max. Fan Pressure: 810Pa
- Free Air Fan Performance: 159l/s (572m³/hr)
- Performance at 200 Pa: 123l/s
- Minimum Specific Fan Power: 0.14W/l/s
- Sound dB(A): 52
- Class: B
- SEC Value: Average Warm -26.9, Cold -11.4
- Control Factor: 0.65
- Typology: Local Demand Control
- Max. Leakage Rates: Internal % External %
- Annual Electricity Consumption (kWh/a)
- Annual Heating Saved (kWh/a): Average Warm, Cold

Product Usage Instructions:

1. Read all instructions provided in the user manual before using the MultiVent continuous extract ventilation system.
2. Ensure that the unit is installed according to the installation guidelines provided in the user manual.
3. Make sure the electrical connections are properly installed and follow basic safety precautions to reduce the risk of fire, electrical shock, and personal injury.
4. Connect the ducts of appropriate size (125mm or 150mm) to the unit for ventilation.
5. Choose the mounting location for the unit – it can be wall-mounted, ceiling-mounted, or mounted in the loft.
6. If the ambient air has high humidity content, ensure that the condensate drains are properly connected.
7. The MultiVent continuous extract ventilation system is designed for simultaneous ventilation of separate areas. Plan the placement of the unit to effectively ventilate the desired areas.
8. Operate the system according to your ventilation needs, using the control settings provided.

Keep the user manual for future reference and follow recommended maintenance procedures to ensure correct function and safety of the MultiVent continuous extract ventilation system.

[View Fullscreen](#)

MultiVent Continuous Extract Ventilation

Description MultiVent 3 Room Extract Unit Only

Product Code FAN7453

Important Note FAN7453 is a the MultiVent 3 Room Extract Unit ONLY. Details in this Installation Instruction Manual give recommendations to how the centralised extract unit can be combined with other components to make it a complete system. See the comprehensive Manrose range of Duct and Grille items to complete the installation.

The MultiVent continuous extract ventilation is designed for the simultaneous ventilation of separate areas in the home and as a multipoint extraction system for a wide range of commercial applications. The units can be wall, ceiling or loft mounted. Where the ambient air has a high humidity content condensate drains are provided.

Thank you for purchasing this quality MultiVent continuous extract ventilation system. To ensure correct function and safety, please read all instructions before using the product and keep all instructions for future reference. When using electrical appliances, basic safety precautions should always be followed to reduce the risk of fire, electrical shock and personal injury.

SPECIFICATIONS

Duct (mm)

125mm & 150mm

Max. Fan Watts

(W)

85

Max. Fan Pressure

(Pa)

810

Free Air Fan Performance

(l/s)

(m³/hr)

159

572

Performance at 200 Pa (l/s)

123

Minimum Specific Fan Power (W/l/s)

0.14

Sound dB(A)

52

Class B

SEC Value

Average Warm

-26.9

-11.4

Cold -54.0

Control

Factor 0.65

Typology

Local Demand Control

Max. Leakage Rates

Annual Electricity Consumption

Internal % External %

(kWh/a)

Annual Heating Saved (kWh/a)

Average Warm

Cold

<5

<5

0.6

28.3

12.8

55.4

Compliance: AS/NZS60335-2.80:2016

TYPICAL EXTRACTION LOCATIONS – BATHROOMS, TOILETS, LAUNDRIES, KITCHENS

The unit uses a highly efficient backward curved centrifugal motor impeller set and is designed for continuous 24 hour use. Four settable speeds can be configured to change these speeds based on an integrated sensor or separate switch inputs (not supplied). The unit will run at a normal flow rate until the humidity sensor or external switch input trigger a speed change. In the case of the switched live and digital inputs, the units will perform a step change in speed to the appropriate level. In the case of the analog inputs and humidity sensor, the unit can be programme to give a proportional response to the change in conditions.

The extracted air is replaced through natural air flow through the gaps around doors and windows, trickle inlet slots, or best of all, the Manrose Puro Filtered Passive Vent Kit (DCT4565) with typhoon cowl that has an effective aerodynamic area of 3000mm² without the filter and 1400mm² with the filter fitted.

Puro Filtered Passive Vent Kit DCT4565 Effective Aerodynamic Area

with Filter without Filter

1400mm² 3000mm²

A

B

C

D

E

ØF

330

390

111

250

96

125

Supply

Max. Operating Temp

220-240V AC, 50Hz

40°C

IP Rating IPX2

Motor Housing

Impeller & Outer Rotor

Die Cast Aluminium

PBT Plastic

Weatherproof Cowl 150mm Stainless Steel

Ducting Aluminium Foil

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Page 1

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MultiVent Continuous Extract Ventilation

MULTIVENT CONTINUOUS EXTRACT VENTILATION SYSTEM INSTALLATION AND ELECTRICAL

CONNECTION MUST BE CARRIED OUT BY A REGISTERED ELECTRICIAN

CAUTION

- Do not install this product where excessive oil or a grease laden atmosphere is or may be, present
- Do not install this product where corrosive or flammable gases, liquids or vapours are, or may be, present
- Do not install this product where it may be subject to direct water spray from hoses
- Do not install this product where access to, or removal, of the unit may be obstructed
- Before use, please check that the supply voltage and that of the appliance are the same (see product rating label).
- All wiring and wiring connections must comply with all current national wiring rules and regulations including AS/NZS3000:2017, or latest edition thereof.
- Any changes or modifications made or attempted to this product, without the prior written approval of the manufacturer, will void any and all stated warranties.
- This MultiVent continuous extract ventilation system is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are capable of, and have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the MultiVent continuous extract ventilation system.
- In case of damage to the supply cord, switch off the device and do not tamper with it. Damaged supply cords must only be repaired or replaced exclusively by the manufacturer or by an appointed representative. Failure to comply with the above may endanger the safety of people and cause possible damage to the whole system.
- The unit must not be connected directly to a tumble drier.
- Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.
- The exhaust grille should be located at least 600mm away from any flue outlet.

BEFORE INSTALLING THE MULTIVENT CONTINUOUS EXTRACT VENTILATION SYSTEM, MAKE SURE YOU HAVE TURNED OFF THE MAIN ELECTRICITY SUPPLY. DO NOT TURN IT BACK ON UNTIL THE MULTIVENT CONTINUOUS EXTRACT VENTILATION SYSTEM IS FULLY INSTALLED AND READY TO USE.

ALL ELECTRICAL WORK MUST BE CARRIED OUT BY A REGISTERED ELECTRICIAN IN ACCORDANCE WITH THE LATEST WIRING RULES AS/NZS3000.

IMPORTANT

- This MultiVent continuous extract ventilation system is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials away from the unit and keep them away from the sides and rear.
- Do not use near or in the immediate vicinity of a bath or swimming pool or any wet areas.
- When installing fan through an external wall, an external wall grille must be fitted at all times.
- This appliance incorporates an earth connection for functional purposes only.
- To protect against electric shock, do not immerse cord or plug in water or any other liquids.
- Do not insert or allow foreign objects to enter any ventilation openings, as this may cause an electric shock, fire or damage to the fan.
- Do not put fingers or foreign objects into the grille while in operation.
- Any changes or modifications made or attempted to this product, without the prior written approval of the manufacturer, will void any and all stated warranties.
- To prevent overheating of this fan, keep the air inlets and outlets clean and free of anything that may cause blockage.

Check all inlets and outlets from time to time to ensure it is clear of any dirt or dust accumulation. DO NOT COVER.

- Do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
- This product contains recyclable materials. Do not dispose of this product as unsorted council waste. Please contact your local council for the nearest collection point.

Page 2

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MultiVent Continuous Extract Ventilation

INSTALLATION

Position the unit, taking into consideration the position of the rooms to be ventilated, the exhaust position and the electrical services. Ensure there is adequate access for installation and maintenance.

If the unit is sited in the heated void of the dwelling a condensate drain should not be necessary. When sited in a

roof cavity, consideration should be given to fitment of a condensate drain. Alternatively the unit and ducting can be externally insulated to minimize condensation within the units housing.

To reduce the system resistance in your duct system, and therefore lower the speed, power consumption and noise of the fan, follow these guidelines:

- Keep the length of duct runs to a minimum, particularly the exhaust duct run.
- When using the flexible ducting in the kit, make sure that it is fully extended and not crushed, sagging or torn.
- Try to minimize the use of diffusers/valves by having similar length duct runs to the inlets.
- The bend radius (measured to the inside of the bend), should be at least 1x the duct diameter.
- Avoid having any bends, filters or other obstructions within 250mm of the fan inlets and outlet.

Maximum length of flexible ducting

Duct Supports

Sleeve

Interior Grille Airflow
Sealant

Cavity

Exterior Grille
Airflow
Minimum radius = diameter of ducting

Peaks and troughs

Preferred flexible ducting route

Restrictions

Securely mount the unit through the mounting holes on the casing using appropriate fixings (not supplied) for the mounting substrate. Fixings to be capable of securing 4x the weight of the unit. Unit weight: 4.1kg. Anti-vibration mounts, acoustic mats or rubber bushes can also be used. Installation example shown below.

To maintain the IPx2 rating of the unit, the unit must not be mounted with the cover removal slots facing upwards (as indicated by the red arrows), or at an angle where they are visible from above. All other orientations are acceptable.

Main power connections

Low voltage connections

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Page 3
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MultiVent Continuous Extract Ventilation
INSTALLATION

As per the picture above try to position the MultiVent fan housing in a location central to all of the rooms that you are planning to extract from. Also remember that the unit could create noise and should be mounted away from

bedrooms. Mount the MultiVent using the 4 mounting points. Bear in mind that the exhaust (main extraction) is using 150mm aluminium foil ducting and a 150mm weather proof cowl. Each kit contains 3 x 6m lengths of 125mm aluminium foil ducting for the extraction points.

- Cut a 126mm (minimum) hole in the required locations in the kitchen (minimum 2m away from the stove top), bathroom and toilet.
- Disassemble the 125mm diffusers (DCT0186) and mount the 125mm spigots to the ceiling in each location using the four screws supplied.
- Fit the diffuser escutcheon by pushing it into the spigot.

- Extend the 125mm aluminium foil ducting and slide the spigot collar over the ducting by approximately 150mm.
- Slide the 125mm aluminium foil ducting over the spigot.
- Slide the spigot collar over the ducting pressing it firmly all the way down the spigot clamping the aluminium foil ducting in place on the spigot.

To prevent the spigot being pushed out, have another person pushing up from below. Complete the other two rooms following the same instructions.

Page 4

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MultiVent Continuous Extract Ventilation INSTALLATION

- Mount the 125mm duct joiner (DCT0037) to the exhaust port of the MultiVent.
- Fit the 150mm to 125mm reducer (DCT3239) to the 125mm duct joiner and tape both joints using the supplied duct tape.
- Fit the 150mm aluminium foil ducting (DCT0214) to the 150mm waterproof cowl with mesh (DCT3619) and tape it to the spigot.
- From outside of the building cut a 150mm (minimum) hole in the outside cladding of the home and push the 150mm ducting through the hole.
- Fit the waterproof cowl to the building exterior and then from the roof space pull the ducting taut and tape it off at the 150mm to 125mm reducer.
- Extend each length of the 125mm aluminium foil ducting pulling it taut and tape off the three extraction points to the MultiVent unit.
- Install electrical wiring as per page 3 of the instruction manual.

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Page 5

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MultiVent Continuous Extract Ventilation ELECTRICAL CONNECTIONS

1. To remove the cover, use a coin or similar; depress the retaining tabs via the slots in the side of the unit. 2. With the power off, connect a suitable mains power cable (preferably to an existing lighting circuit) to the screw terminal block (L, N, Earth)

connections. Use the cable clamps and clip provided to secure the lead. 3. Two mains voltage Live Switched (LS1 and LS2) connections are provided, and can be used to trigger a change in speed. Common inputs would be from a bathroom lighting circuit. When commissioning the unit, a delay on timer and an overrun timer can be selected and adjusted in the software using the buttons and screen. See Commissioning section on page 10 of this document for details. 4. The switched live output (230V AC) from any other switch or controller, (such as a simple latching pullcord or push button switch, humidistat or PIR detector) can be connected to the LS terminal instead of connecting to a lighting circuit.

L N E LS1 LS2 NS

1

2 3

6 5 4

Terminal 1L 2N 3

Description Live (220-240V AC) Neutral Protective Earth

Connection L3 (Brown) N (Blue) E (Green/Yellow)

Terminal Description 4 LS1 Live Switched 1, (220-240V AC), isolated 5 LS2 Live Switched 2 (220-240V AC), isolated 6 NS Neutral Switched, isolated

Connection L2 (Black) L1 (Grey) Link to N

NOTE: LS1, LS2 and NS terminals are electrically isolated. If the LS connections are used, a connection must be made with the NS terminal. This can be via a jumper or dedicated neutral connection.

Page 6

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MultiVent Continuous Extract Ventilation

LOW VOLTAGE CONNECTIONS

1. Important: Use 4-core, low voltage, twisted pair, telecoms type cable for accessories. Accessories are connected via the IO (Input Output) PCB; see the Low Voltage Connections diagram in the Main fitting and wiring guide.

Pos/Label Description Action

A

5V

5V Output, Max 250mA

RS485 communication to wired accessories. Data connection (B, C) if

B A+ Data C B- Data

available. The 5V and Ground connections are available on all units.

D GND Ground

E

COM

Digital input common

Go to Boost speed (Min.1V, max. 6V).

The 5V output from the RS485 connection can be

used as a power supply

F + Digital input 2

G

COM

Digital input common

Go to Low speed (Min.1V, max. 6V).

The 5V output from the RS485 connection can be

used as a power supply

H + Digital input 1

I

COM

Digital output common

Unpowered Boost indicator Switch
(switching 6V 50mA max)

J + Digital output 2

K

COM

Digital output common

Unpowered LED fault indicator switch
(switching 6V 50mA max)

L + Digital output 1

M + Analog input 2 0-10V analogue input

N GND Ground

Two user settable voltage thresholds with two user settable actions. The unit will run at normal when

O + Analog input 1 supplied voltage is between the two thresholds.

P GND Ground

2. RS485 Wired inputs

The RS485 terminals are used to connect compatible sensors and switches. The connection allows sensors be daisy chained to simplify wiring. The maximum length of cable run from the unit is limited to 250m. Once accessories are wired to the unit, they must be paired to the unit to function correctly.

Low Voltage Switch's Boost & Low Speed

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Page 7

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FEATURE DESCRIPTIONS

Comfort Mode

If Comfort mode is enabled the unit will behave as follows to all LS inputs

Trigger

Action

LS input active less than 5 minutes

No action (continue to run at Normal speed)

LS input active more than 5 minutes but less than 20 minutes

Once LS input is removed, fan will run at user selected speed for the length of time LS was present plus the set over-run time (if over run is enabled).

LS input active more the 20 minutes

Unit will Boost after 20mins. Once LS input is removed, fan will run at user selected speed for 20 minutes plus the set overrun time (if over run is enabled).

The above applies to all LS inputs. The times are not adjustable by the user.

Delay On A delay can be set so that the unit will not respond to an input until after the set delay has elapsed, applies to LS inputs only.

Overrun Timer The unit can be set to run for a defined period after the input is removed, applies to LS inputs only.

Humidity Rapid rise* Rapid Rise humidity response functions to detect rapid rises in humidity when the ambient %RH is under the threshold setting. If a rapid rise is detected the fan will boost until the humidity lowers again.

Humidity Ambient response* When ambient response is enabled the threshold set point is modified based on the ambient temperature. This helps to prevent nuisance boosting of the unit as temperatures changes during the day.

Humidity Threshold* The unit will boost when the RH is above the threshold set point.

Analogue inputs Both analogue inputs have adjustable low and high trigger voltages within the 0-10V range. The response to being above or below either of the threshold voltages is user settable. Note: The display doesn't show a decimal point, for example at threshold voltage of 5.2V, is displayed as "52" on the unit.

Digital Inputs The unit can be set to change speed (selectable), based on whether the digital inputs are above or below the threshold voltage. See the table of Low Voltage Connections for details.

Display Lock To protect the settings on the MultiVent unit a pin code can be enabled via the main menu. Once the lock function has been enabled the Pin code can be set. The 3-digit pin is A to F, 0 to 9, and the default is LoC.

Page 8

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MultiVent Continuous Extract Ventilation

UNIT ADJUSTMENT

1. Commissioning and configuration on all products is supported by the 3 digit user interface and associated push buttons.
2. When powered on, the unit will display the firmware revision number, after a few seconds the unit will display the first option in the menu structure (see below).
3. The display will enter standby mode after 30 seconds, press the Mode button to turn the display back on.
4. Changes to the settings can be made via the + and - buttons, the Mode button will accept changes and move onto the next menu option.
5. When setting the speeds, there is an internal logic: Low<Normal<Boost<Purge. I.e., Boost is always higher than Normal.
6. The actions for each of the Live Switched (LS), inputs are selectable. The setting for delays and over run timers are applicable to all inputs.
7. To restore factory settings, Press and hold "Mode" button for 10 seconds.

USER CONFIGURABLE PARAMETERS

Display Text L10 n35 b70 P100 LS1 LS2 LS3 c-n d-n d10 o-n o10 r-y A-n h70 C2b C2P A1LA A1HA A1tL A1tH A2LA A2HA A2tL A2tH D1 D2 unl PIn dt30 rot hu tu CO2 end

Function Low Speed Normal Speed Boost Speed Purge Speed Live Switch 1 Live Switch 2 Live Switch 1 & 2 Comfort Mode Delay On Delay On Time Overrun Overrun Time Humidity – Rapid Rise Humidity – Ambient Response Humidity – Ambient Response Threshold CO2 – Boost Threshold CO2 – Purge Threshold Analogue 1 – Low Action Analogue 1 – High Action Analogue 1 – Low Threshold Analogue 1 – High Threshold Analogue 2 – Low Action Analogue 2 – High Action Analogue 2 – Low Threshold Analogue 2 – High Threshold Digital input 1 – Action Digital input 2 – Action Unlock Code Display Pin Display Time Rotate Display Humidity Temperature CO2 End

Selections 1 to 97% motor speed 2 to 98% motor speed 3 to 99% motor speed 4 to 100% motor speed Low, boost or purge speed Low, boost or purge speed Low, boost or purge speed Comfort mode – Yes or No Delay on – Yes or No Delay to boost duration – 1 to 60 minutes Overrun – Yes or No Overrun duration – 1 to 60 minutes Rapid Rise Rapid rise – Yes or No Ambient response – Yes or No Ambient response threshold – 40 to 80% RH Boost threshold 650 – 4950 PPM Purge threshold 700 – 5000 PPM Low, normal, boost or purge speed Low, normal, boost or purge speed Low threshold – 1 – 99 High threshold – 1 – 99 Low, normal, boost or purge speed Low, normal, boost or purge speed Low threshold – 1 – 99 High threshold – 1 – 99 Low, boost or purge speed Low, boost or purge speed Turn the menu lock OFF/ON 3 characters A to 9 Adjust display illumination period Invert the display Show the current internal humidity Show the current internal temperature Show the current CO2 level End of menu (loop to start)

Default 10% 35% 70% 100% Low Boost Purge No No 10m No 10m Yes No 70% 950 2000 Low Boost 15 75 Low

Boost 15 75 Low Boost
LoC 30 s rot % °C PPM

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Page 9
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MultiVent Continuous Extract Ventilation COMMISSIONING TYPICAL 3 ROOM SYSTEM

In the following step we will provide an example of how to wire and control an MultiVent system hardwired to a Bathroom, Kitchen and Toilet. The MultiVent will utilize Humidity Rapid Rise in its response and the 2 larger rooms (Bathroom and Kitchen) will also provide a PURGE speed function if these 2 rooms are switched on together. Before commencing please ensure that all power is OFF and ensure that it is electrically safe before starting. Wire the 230VAC connections as per the diagram below. Wire mains connections from a suitable source (lighting circuit) or add a new dedicated circuit from an RCD protected 10A MCB with the cable to L (live – BROWN), N (neutral – BLUE) and E (protective earth GREEN/YELLOW). Wire a 230V connection from a switch located in the Bathroom that could be either a dedicated FAN switch (or a connection from a LIGHT switch) and connect the L (BROWN) wire back to LS1. Do the same from a switch located in the Kitchen and connect the L (BROWN) wire back to LS2. Hardwire a NEUTRAL LINK (BLUE or BLACK) from the N (neutral – BLUE) mains connection to the connection labelled NS (neutral switched).

L

N

E LS1 LS2 NS

L

N

NEUTRAL LINK
From Bathroom
From NS Kitchen

Page 10
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MultiVent Continuous Extract Ventilation

For the toilet the MultiVent will use its Extra Low Voltage connections for control. Using a short piece of wire connect a 0.5mm (or similar sized wire) from the GND terminal at the RS485 connection to the COM terminal adjacent to DIN 2 (digital input 2) + connector. Using a twin red TPS cable connect one RED core to the + connector at DIN 2 and connect the other RED core to the 5V terminal at the RS485 connection. Run the other end of the cable to the toilet FAN switch and connect the 2 red cores to the C (common) and the normally open (usually labelled 1) connections at this switch. See diagram below.

RED

RED

TOILET

Using instructions from the section “UNIT ADJUSTMENT” make the following changes:

LS1 change from Low to BOOST D2 change from Purge to BOOST

With this completed the MultiVent once switched ON will operate in NORMAL speed (35%) when the bathroom FAN switch is turned on the MultiVent will operate at BOOST (70%) speed clearing away steam and humidity if the kitchen FAN switch is turned on the MultiVent will operate at BOOST (70%) if both bathroom and kitchen FAN switches are turned on together the MultiVent will operate at PURGE (100%) speed helping to clear away steam and cooking odours. The toilet FAN switch will also turn the MultiVent on to BOOST (70%). Please note that only having the 2 larger rooms (bathroom and kitchen) switched on will activate PURGE (100%) speed.

FOR COMPLIANCE WITH G4/AS1 CLAUSE 1.5

These applications are to be installed and maintained to the requirements of AS/NZS 3666.1 and AS/NZS 3666.2.

FAULT CODES

If the MultiVent unit detects a fault it will display an error message on the HMI display.

Fault Code Description

F01

Control fault Unit failed startup check

F02

Motor Fault No RPM

F03

Humidity/Temp sensor Fault No value

F04

Temp or Humidity sensor connected via RF/RS485 is offline/Lost


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assembly. Only the full scroll assembly is replaceable. 2. To remove the scroll assembly, isolate the power, then use a coin or similar to depress the cover retention clips and remove the cover. 3. Disconnect and remove the power supply and signal leads. 4. Remove the scroll assembly by unscrewing the two screws and unclipping the clips in the opposite two corners and lift the scroll assembly out of the housing. 5. The fan has sealed for life bearings, which do not require lubrication. Expected service life is at least 45,000 hours continuous running. 6. Upon reassembly, check all fixings are tight and secure.

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Documents / Resources

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