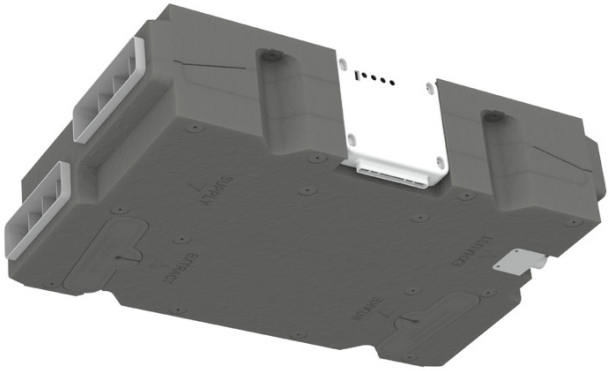
HRX-aQ Range

Mechanical Ventilation with Heat Recovery

Product Code: AQH200-B

Installation Instructions



1.0 SAFETY INFORMATION

- **DO NOT SWITCH OFF THE UNIT** – it is designed to run continuously. If the unit is switched off, indoor pollutants and moisture levels may increase which could endanger your health or damage your home. It is important to follow the advice in this manual and correctly maintain the system to ensure a healthy indoor environment.

- All wiring must be in accordance with prevailing national regulations, for example the current IEE Wiring Regulations BS7671. The electrical installation should be inspected and tested by a suitably qualified person after completion.

- The installer is responsible for the installation and electrical connection of this system on site. It is the responsibility of the installer to ensure that the equipment is safely and securely installed and left only when electrically and mechanically safe.

- When installing the appliance, care should be taken not to damage any hidden utilities.

- Ensure that the mains supply (Voltage and Frequency) complies with the rating label.

- Isolate from power supply before removing any covers. During installation / maintenance ensure all covers are fitted before switching on the mains supply.

- The appliance should be provided with a local double pole fused spur fitted with a 3 Amp fuse and a minimum contact separation of at least 3mm.

- This unit must be earthed.

- Ducting must be securely fixed with screws to the spigot to prevent access to live parts. Duct runs terminating close to the fan must be adequately protected by suitable guards.

- All regulations and requirements must be strictly followed to prevent hazards to life and property, both during and after installation and any subsequent servicing or maintenance.

- This appliance should not be used by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children.

- In dwellings where it is intended to install open-flue appliances and extract ventilation, the combustion appliance should be able to operate safely, whether or not the fans are running. A way of showing compliance with The Building Regulations in these circumstances would be to follow the installation guidance shown below, and to show by tests that combustion appliances operate safely, whether or not the fans are running.

  A. For gas appliances: where a room contains an open-flue appliance, the extract rate should not exceed 20l/s (72m^3/h).

  B. For oil appliances: where a room contains an open-flue appliance, the extract rate should be limited to 40l/s (144m^3/h) for an appliance with a pressure jet burner and 20l/s (72m^3/h) for an appliance with a vaporising burner.

  C. For solid fuel appliances: avoid installing extract ventilation in the same room. Further reference should be made to Approved Document J of The Building Regulations.

- Do not install this appliance in areas where the following may be present or occur:
  Excessive oil or a grease laden atmosphere.
  Corrosive or flammable gases, liquids or vapours.
  Be subject to direct water spray.
  Ambient temperatures higher than 50°C and lower than -25°C.
  Possible obstructions that may hinder access or removal of the unit.

- This appliance should not be directly connected to a tumble dryer or cooker hood.

- A supply of fresh replacement air must be drawn from the exterior of the property.

- The extracted air must be expelled to the exterior of the property.

- It is recommended that the two external terminals or grilles are set at least 2m apart.

- The supply and exhaust ceiling valves should be positioned at least 300mm from internal walls to allow airflow measuring equipment to fit correctly over the valves.

- Ducting should be insulated with Thermal duct insulation where it passes through unheated spaces and voids (e.g. loft spaces) to reduce the possibility of condensation forming and heat loss.

- A condensate drain should be installed from the appliance to an appropriate drain location. DOMUS Ventilation recommends the 297 condensate drain kit.

- The condensate drain and associated pipe work must be cleared of debris prior to commissioning and insulated where it passes through unheated spaces and voids.

1.1 Hazard Symbols

REFER TO INSTRUCTION MANUAL

Read and understand the installation and maintenance manual before installing, operating or maintaining this product.

1.2 Important Information

This manual contains important information on the safe and appropriate assembly, transport, commissioning, operation, maintenance, disassembly and simple troubleshooting of the product.

While the product has been manufactured according to the accepted rules of current technology, there is still a danger of personal injury or damage to equipment if the following general safety instructions and the warnings contained in these instructions are not complied with.

- **Read these instructions completely and thoroughly before working with the product.**
- **Keep these instructions in a location where they are accessible to all users at all times.**
- **Always include the operating instructions when you pass the product on to third parties.**

1.3 Personal Protective Equipment

The following minimum Personal Protective Equipment (PPE) is recommended when interacting with this product:

- **Protective Steel Toed Shoes -** when handling heavy objects.
- **Full Finger Gloves (Marigold PU800 or equivalent) -** when handling sheet metal components.
- **Semi Fingerless Gloves (Marigold PU3000 3DO or equivalent) -** when conducting light work on the unit requiring tactile dexterity.
- **Safety Glasses -** when conducting any cleaning/cutting operation or exchanging filters.
- **Reusable Half Mask Respirators -** when replacing filters which have been in contact with normal room or environmental air.

We would always recommend a site specific risk assessment by a competent person to determine if any additional PPE is required.

2.0 GENERAL DESCRIPTION

The **HRX-aQ** appliance is a key part of a whole house ventilation system specifically designed to improve indoor air quality in dwellings. The system is designed to provide measured amounts of filtered, fresh air to living areas while constantly removing polluted, stale air from bathing, cooking and washing areas at the same gentle rate. Any available heat in the outgoing stale air is recovered by a built-in heat exchanger and used to pre-warm the fresh supply air.

A manual boost switch is provided to increase the ventilation rate, e.g. when cooking or showering thereby maintaining a comfortable indoor environment.

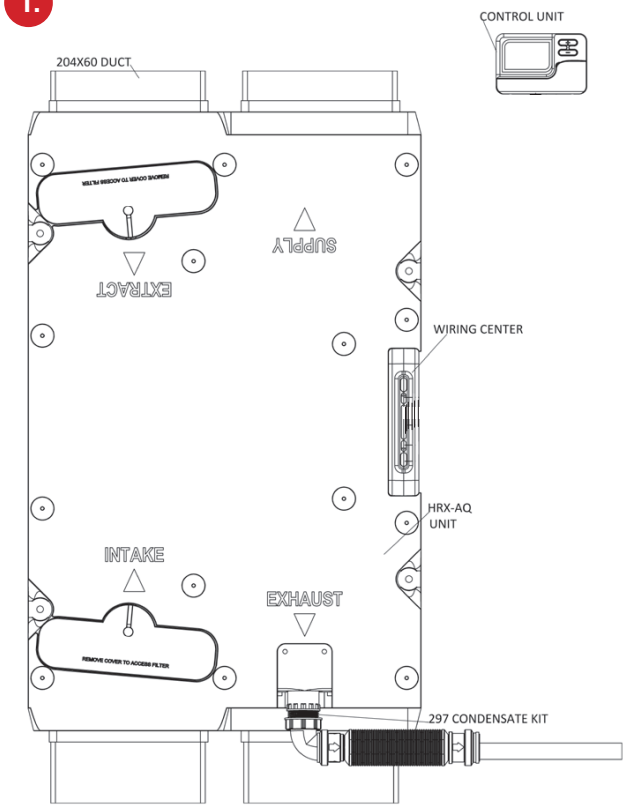
A programmable user interface is provided to thereby maintaining a comfortable indoor environment and includes the following features:

- Time and date functions
- Independent fan control adjustable at three levels; Low, Boost, Max
- Programmable filter check reminder
- Programmable 100% Thermal bypass
- Optional 3 minute delay-on boost switching
- Optional 5 to 30 minute delay-off boost switching
- Optional programmable frost protection
- Programmable humidity level boost switching
- Temperature controlled switching available for optional duct heater (supplied by others)
- Elapsed runtime meter

The boost facility can also be triggered from a lighting circuit; contacts to accommodate external sensors or switches are also available (Section 5.1).

The G3 filters in the appliance ensure that the fresh supply air is clean as it enters the home. Additionally, the stale extract air is filtered to protect the heat exchanger from unwanted contamination. These filters have to be cleaned regularly, depending on the levels of pollution. The filters should be replaced when they start to show visible signs of wear.

This product is listed in the NCM PCDB, (was SAP Appendix Q) therefore, part of the installation process requires that an installation checklist is completed and submitted to the Building Control Body (BCB). Blank checklists are available at https://www.ncm-pcdb.org.uk/sap/filelibrary/pdf/Check_Lists/Domestic_Ventilation_Compliance_Guide_2010_-_Checklist_(extract).pdf.

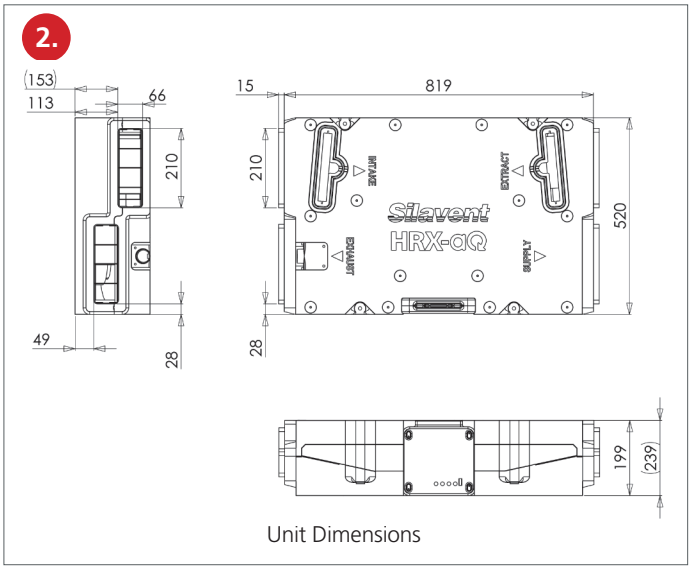


Unit Overview

2.1 Pack Includes

- Domus HRX-aQ appliance
- Ventilation user-control centre
- 4m length of 4 core signal cable (to connect AQH wiring centre and user-control)
- Installation and operating instructions manual
- Householders operating manual
- ErP label and data fiche

2.2 Physical Specification



Unit Dimensions

net weight 7.9kg
Rating: 230V 50Hz 59W (0.54A)

2.3 Main Features

2.3.1 Thermal Bypass

The HRX-aQ is fitted with a fully automatic 100% heat exchanger bypass mechanism. Time clock control and manual override are also available.

In automatic mode, the bypass will open when the indoor target temperature reaches a pre-set value. Using the interface, the trigger temperature can be set between +15°C and 25°C.

The interface contains an optional frost protection system. During periods of very cold weather, the fresh air supply fan will automatically reduce in speed to approximately 20% of its commissioned setting to reduce the load on your heating system and avoid possible freezing of the heat exchanger. During these periods, the extract fan will increase in speed to its commissioned boost speed to maintain an even air pressure. Using the interface, the trigger temperature can be set between -15°C and +5°C.

3.0 INSTALLATION

The following instructions are intended to help prevent hazards. Installation should only be carried out by a qualified electrician and competent persons in clean, dry conditions where dust and humidity are at minimum levels.

We advise installers to fix all mains, switch and sensor wiring (in accordance with the latest edition of the Wiring Regulations) prior to fixing the HRX-aQ unit in position.

3.1 Preparation

When accepting delivery of the appliance, inspect for transit damage. If in doubt, call our Customer Services team on 03443 715523.

The HRX-aQ appliance can be fitted directly to a concrete ceiling or suitable horizontal timber support.

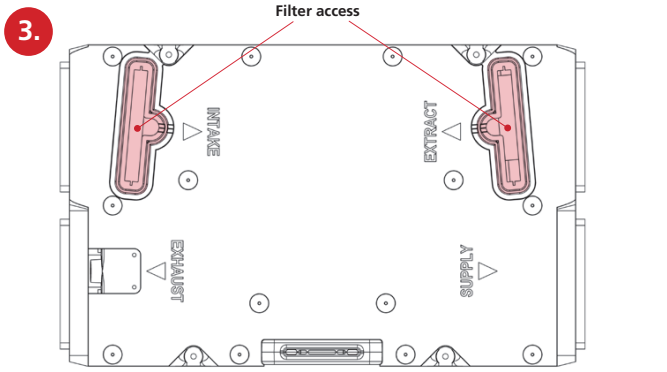
Appropriate screw fixings to suit the support medium will need to be supplied by the installer. The built-in mounts suit 4 x 4mm (No.8) pan head screws.

Ensure that there is sufficient space for access to the wiring centre (cover removal), the condensation fittings and ductwork

Ensure that there is sufficient space below the appliance to access the filters and for carrying out any future maintenance on the appliance.

The HRX ceiling appliance must be connected to the duct work as shown below; duct connections can not be substituted.

When viewed from below, the filter access and duct configuration is as shown on the diagram below:



Duct Configurations

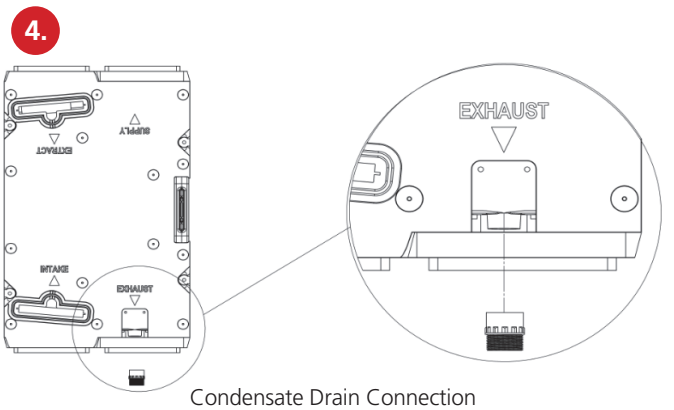
3.2 Fitting 297 Condensate Drain Kit

Using a small amount of solvent weld suitable for ABS pipe fittings (not supplied), attach the threaded socket to the selected condensate outlet spigot (Figure 4). **Important:** follow the health and safety and user instructions supplied with the solvent weld. This is particularly important when working in confined spaces.

When the threaded socket is secure, fit and hand-tighten the threaded elbow or alternatively the threaded straight adapter, making sure that the rubber seal washer is seated correctly. Gently push the waterless trap onto the elbow stem. **Important:** check that the arrows printed on the trap point **away** from the HRX-aQ appliance (in the direction of flow) and prior to fitting, ensure that the waterless trap operates correctly by running a trickle of water from a tap through the trap in the direction of the arrows.

Using the remainder of the kit items, complete the condensate drain-system to suit the dwelling layout. **Important:** the drain must incorporate a continuous fall to the nearest waste water network.

The condensate drain system should be adequately supported and suitably insulated if it passes through unheatedspaces and voids (e.g. loft spaces) to prevent freezing.



Condensate Drain Connection

3.3 Ducting Guidelines

Please refer to the design drawings for the proposed ducting layout.

Four 204x60mm sockets are provided for connecting the ducting. Ductwork should be securely connected to the sockets using **Domus Ventilation DDSEAL** acrylic sealant; failure to do this will cause unnecessary air leakage and impair performance. Ducting must be connected to all four sockets in accordance with the configuration (Figure 5).

Where ducting passes through **unheated** areas and voids (e.g. loft spaces) it must be insulated using **Domus Ventilation Thermal** duct insulation in order to comply with The Building Regulations. Additionally, both ducts connecting the HRX-aQ to outside **must** be insulated with an additional continuous vapour barrier to avoid condensation forming on the outside of the ducts.

Alternative proprietary duct insulation may be used provided it complies with the 2010 Domestic Ventilation Compliance Guide.

When passing through a fire-stopping wall or fire-compartment wall, **Domus Ventilation FireBrake** intumescent duct connectors should be used in order to maintain the integrity of firestopping walls in accordance with Approved Document B of the Building Regulations.

Alternative proprietary fire-stopping methods may be employed provided they comply with Approved Document B of The Building Regulations.

The fresh supply air must be drawn in from the exterior of the property. If drawn through a wall, a **Domus Ventilation 905** airbrick should be fitted. If drawn in through a pitched roof a **Domus Ventilation 4411/4411T** universal roof terminal should be fitted or a proprietary roof terminal designed for mechanical ventilation with a free area of at least 10,000mm^2.

The stale extract air must be expelled to the exterior of the property. If expelled through a wall, a **Domus Ventilation 905** airbrick should be fitted. If expelled through a pitched roof a **Domus Ventilation 4411/4411T** universal roof terminal should be fitted or a proprietary roof terminal designed for mechanical ventilation with a free area of at least 10,000mm^2.

It is an industry recommendation (TR35) that the fresh supply and stale exhaust external inlets and outlets should be fitted at least 2m apart to avoid recirculation of stale exhaust air.

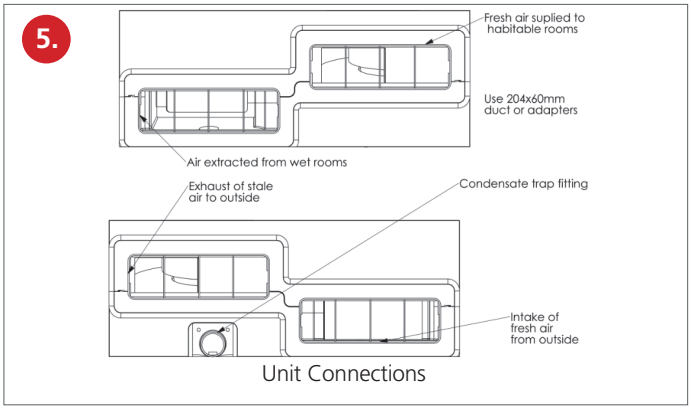
Further details regarding installation can be found in the 2010 Domestic Ventilation Compliance Guide.

3.3.1 Rigid Ducting

Install using the least number of fittings to minimise resistance to airflow. All duct runs should be as short and as straight as possible for maximum performance with adequate support.

3.3.2 Flexible Ducting

Ensure flexible ducting lengths are kept to a maximum of 300mm and ducting is pulled taut so that it is smooth and straight. Mechanically fix flexible ducts using **Domus Ventilation 125-5** hose clips and tape seal using **Domus Ventilation 50TP45** duct tape or any good quality proprietary duct tape for added air-tightness.



Unit Connections

4.0 ELECTRICAL

WARNING: This appliance must be earthed.
All wiring must be carried out by a qualified electrician and conform to the prevailing national regulations, for example the latest edition of BS7671: IEE Wiring Regulations.

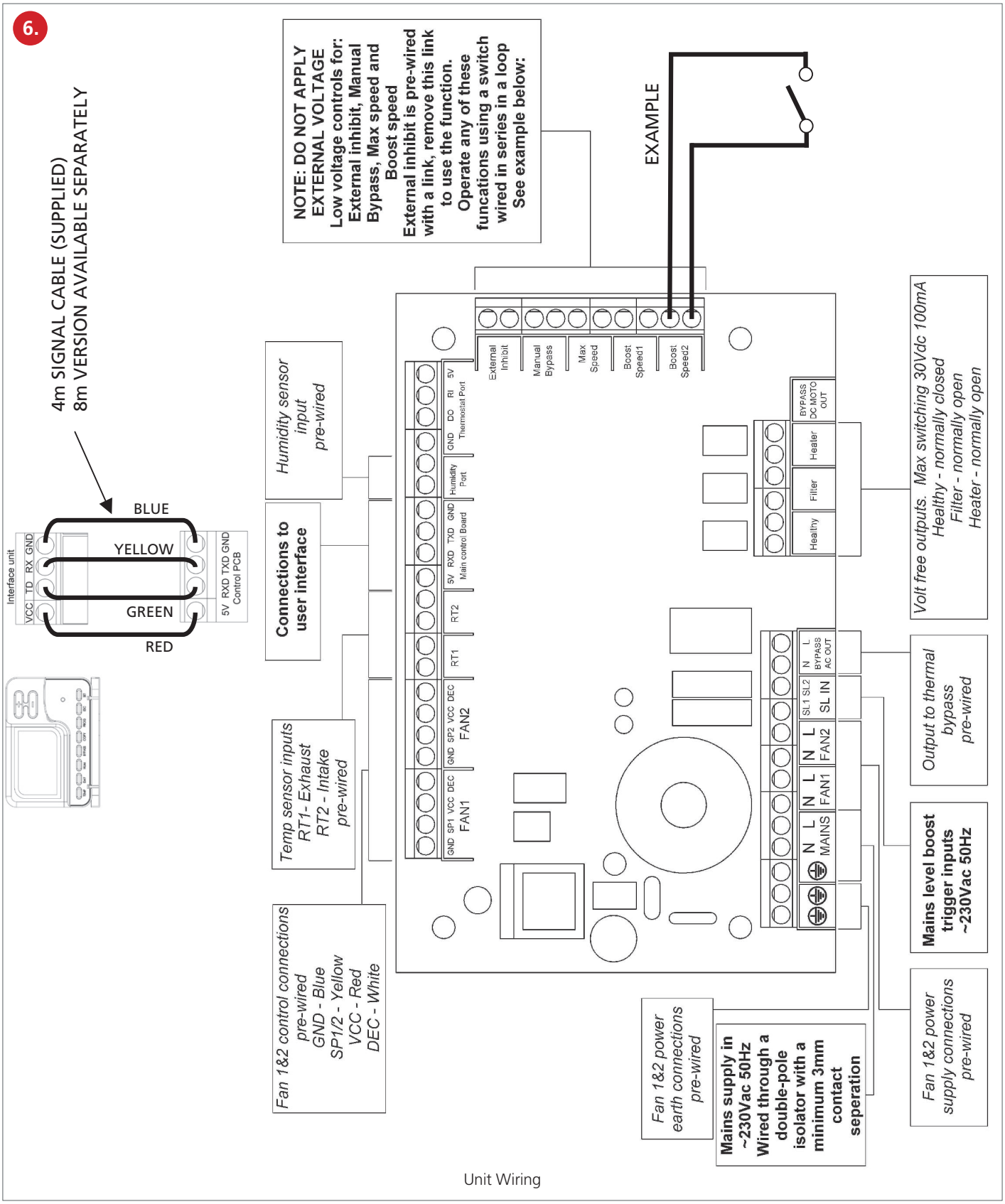
This appliance is suitable for 230V 50Hz single phase supply only, fused at 3 Amps. A double-pole switch having a minimum contact separation of 3mm must be used to provide isolation for the appliance.

External wiring (1.5mm^2 max.) and isolators to be supplied by others.

A 4m length of 4-core signal cable is supplied with the unit to connect the wiring centre to the user interface.

5.0 WIRING

5.1 Wiring Centre PCB Layout and Connections



Unit Wiring

6.0 COMMISSIONING

IMPORTANT: Ensure that the protective covers have been removed from the filters.

When the wiring connections have been checked, switch on the mains supply and check that the system is operating correctly (Section 7.0).

Airflow rates will need to be set at each room's air-valve in accordance with the 2010 Domestic Ventilation Compliance Guide to balance the system. Airflow measurements should be performed using a calibrated airflow measuring device. The most common method uses a vane anemometer, placed in a hood which completely covers the air-valve to measure the extract or supply airflow rate. The instrument should be calibrated annually by returning the instrument to a UKAS accredited calibration centre and be capable of achieving an accuracy of ±5%.

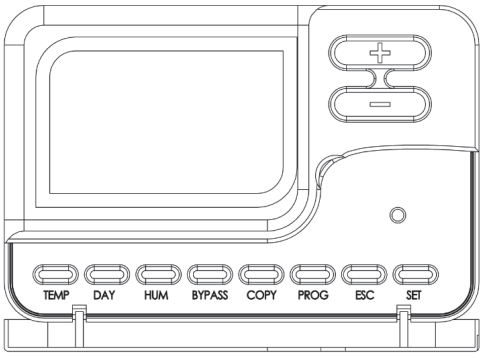
Each room airflow rate will need to be recorded on the Inspection Checklist and Airflow Measurement Test Sheet. A completed copy must accompany these instructions and be handed over to the dwelling's owner upon completion of the installation.

6.1 System Balancing

- Ensure that the pre-commissioning checks have been carried out and that frost protection is not engaged.
- Fully open **all** of the air-valves.
- Switch the system to **boost** using the user interface.
- Close all internal and external doors and windows.
- Measure the total air volume of the **extract** valves (wet rooms).
- Using the user interface control, adjust the 'boost' speed to achieve the total design extract boost rate.
- .Adjust individual wet room air-valves to achieve the individual room design extract rates.
- Switch the system to **low** using the user interface.
- Measure the total air volume of the **supply** valves (habitable rooms).
- Using the user interface control, adjust the 'low' speed to achieve the total design supply rate.
- Adjust individual habitable room air-valves to achieve the individual room design supply rates.
- Double check all of the valve flow rates and record the readings.
- Using the lock nuts fitted to the air-valves, lock in position.

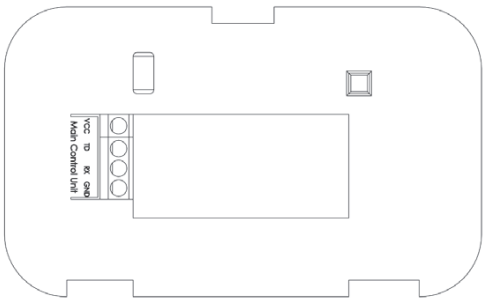
7.0 USER INTERFACE

7.



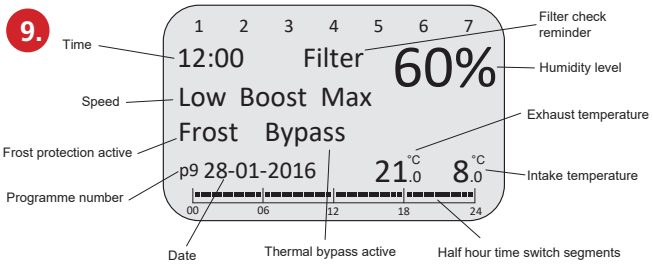
User Interface Front View

8.



User Interface Rear View

9.



User Interface Screen

7.1 Time and Date (Mandatory Action When Power First Applied To System)

- From the home screen, Press **"DAY"**, the hour text will flash.
- Use the **"+"** and **"-"** buttons to set the hour.
- Press **"DAY"**, the minute text will flash.
- Use the **"+"** and **"-"** buttons to set the minute.
- Press **"DAY"**, the day will flash.
- Use the **"+"** and **"-"** buttons to set the day.
- Press **"DAY"**, the month will flash.
- Use the **"+"** and **"-"** buttons to set the month.
- Press **"DAY"**, the year will flash.
- Use the **"+"** and **"-"** buttons to set the year.
- Press **"DAY"**, 12/24 will flash.
- Use the **"+"** and **"-"** buttons to set 12 or 24 hour clock format.
- Press **"DAY"** to confirm and return to home screen.

7.2 Pre-Commissioning

The following steps inhibit automatic functions that could affect the commissioning process and need to be carried out prior to commissioning:

- Set the time and date (Section 7.1).
- From the home screen, press **"PROG"**.
- Use the **"+"** and **"-"** buttons to set the programme number to 'P9' (Factory default is P9).
- Press **"SET"**.
- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds.

This action allows access to the 'Installer' programming level (opens at menu 1).

- Press **"COPY"** twice to move to 'Menu 3', 'Bypass tEnp'.
- Use the **"+"** or **"-"** button to set to 'off' (OF).

This action inhibits the automatic bypass operation.

- Press **"COPY"** four times to move to 'Menu 7', 'IhuN'.
- Use the **"+"** or **"-"** button to set to 'off' (OF).

This action inhibits the automatic humidity controlled boost operation.

- Press **"SET"** to return to the home menu.

7.3 Commissioning (See Also Section 6.0)

- Use the **"+"** or **"-"** button to set speed function to 'Boost'.
- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds to open the installer level.
- Press **"COPY"** once to move to 'Menu 2' 'Fan 1 Low'.
- Press **"PROG"** once to 'Fan 1 Boost' (Extract/Exhaust fan).
- Use the **"+"** or **"-"** button to set the desired speed (Factory default speed is 50%).

Note: The installer level access will time out after 1 minute of inactivity but will record any changes made to the settings.

- Press **"SET"** to **record** the settings and return to the home screen.
- Press **"ESC"** to **discard** the settings and return to the home screen.

10.

Fan 1 Commissioning Screen

Repeat the above steps for:

- Fan 2 Boost (Supply/Intake fan) (Factory default speed is 50%).
- Fan 1 Low (Extract/Exhaust fan) (Factory default speed is 20%).
- Fan 2 Low (Supply/Intake fan) (Factory default speed is 20%).

'Max' speed can be set to a maximum of 99% (Factory default 80%).
Note: Low speed cannot be set higher than Boost speed and Boost speed cannot be set higher than Max speed.

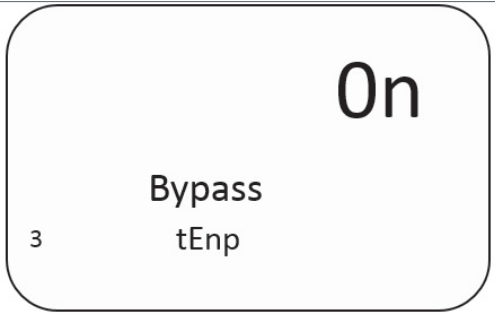
- Press **"SET"** to **record** or **"ESC"** to **discard** the settings and return to the home screen.

7.4 Automatic Heat Exchanger Bypass

7.4.1 Activation / Inactivation

- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds.
- Press **"COPY"** as required to move to 'Menu 3', 'Bypass tEnp'.
- Use the **"+"** or **"-"** button to set to 'on' or 'off' (OF) as required.
- Press **"SET"** to record or **"ESC"** to discard the settings and return to the home screen.

11.



HX Bypass Activation Screen

7.4.2 Setting Bypass Operating Temperature

- From the home screen, press **"TEMP"** as required to move to menu 'T3'.
- T3 is the target indoor temperature setting at which the heat exchanger bypass mechanism operates to allow the extract air to bypass the heat exchanger and is adjustable between +15°C and +25°C (Factory default 20°C).
- Use the **"+"** or **"-"** buttons to set the operating temperature in steps of 1°C.
- Press **"SET"** to record or **"ESC"** to discard the settings and return to the home screen.

12.

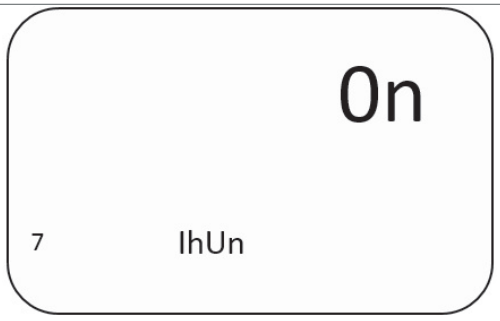
HX Bypass Temperature Screen

7.5 Automatic Humidity Controlled Boost

7.5.1 Activation / Inactivation

- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds.
- Press **"COPY"** as required to move to 'Menu 7', 'IhuN'.
- Use the **"+"** or **"-"** button to set to 'on' or 'off' (OF) as required.
- Press **"SET"** to record or **"ESC"** to discard the settings and return to the home screen.

13.

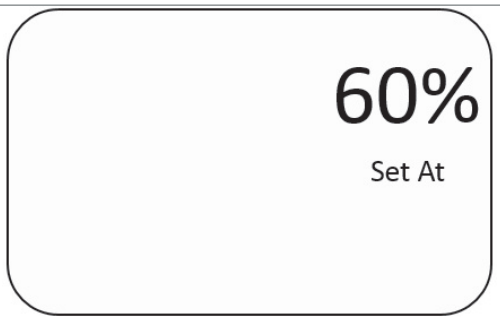


Humidity Boost Activation Screen

7.5.2 Setting Humidity Activated Boost Switching Level (%RH)

- From the home screen, press **"HUM"** to move to the humidity (% RH) activated boost setting (Factory default 60% RH – recommended).
- Use the **"+"** or **"-"** buttons to set the humidity switching level in steps of 1% RH (range 30- 85%RH).
- Press **"SET"** to **record** or **"ESC"** to **discard** the settings and return to the home screen.

14.



Humidity Boost Switching Level Screen

7.6 Filter Reminder

The word 'Filter' will appear on the home screen after the set time has elapsed. When this occurs, clean the filters (Section 8.0)

Note: The figure at the bottom of the screen indicates elapsed operating time in hours. When the numbers are not flashing, they indicate the elapsed time since the last filter reset. **If "DAY"** is pressed, the numbers will flash and indicate the total elapsed operating time in hours.

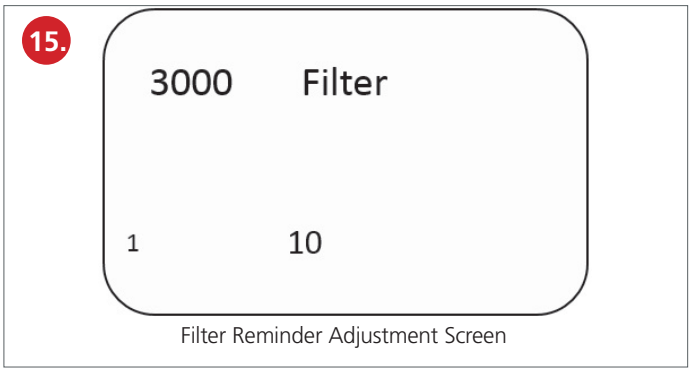
- To reset the filter elapsed time reminder following cleaning, press and hold **"SET"** for 5 seconds.

7.6.1 Adjustment and Inactivation

- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds
- Press **"COPY"** as required to move to 'Menu 1' 'Filter'
- Use the **"+"** or **"-"** buttons to change the time delay in steps of 50 hours as required or 'off'.

Note: The filter check reminder is factory set at the maximum of 3000 hours (approx. 4months - recommended). During adjustment, when this maximum has been reached, the 'off' option can be accessed.

- Press **"SET"** to **record** or **"ESC"** to **discard** the settings and return to the home screen.



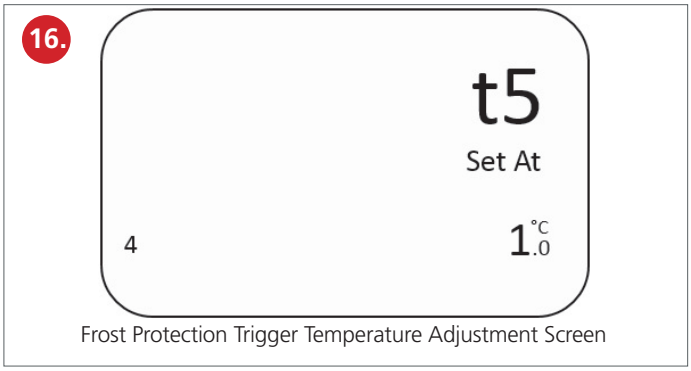
Filter Reminder Adjustment Screen

7.7 Frost Protection Trigger Temperature Adjustment

- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds.
- Press **"COPY"** as required to move to 'Menu 4', 'T5'.

Menu T5 sets the frost protection trigger temperature between -15°C and +5°C (Factory default +1°C).

- Use the **"+"** or **"-"** buttons to set the trigger temperature in steps of 1°C.
- Press **"SET"** to **record** or **"ESC"** to **discard** the settings and return to the home screen.



Frost Protection Trigger Temperature Adjustment Screen

7.8 Delay-On Timer Activation / Deactivation

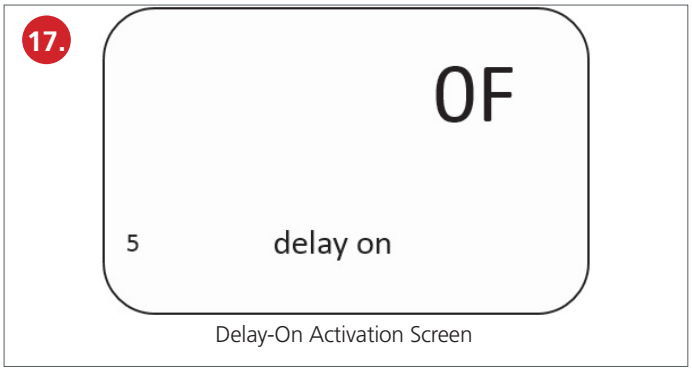
- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds.
- Press **"COPY"** once to move to 'Menu 5' 'Delay-on setting'.

The Delay-on setting provides a 3 minute delay before Boost speed is engaged.

- Use the **"+"** or **"-"** button to set to 'on' or 'off'.

Note: The Delay-on function will always be overridden by automatic humidity sensing.

- Press **"SET"** to record or **"ESC"** to discard the settings and return to the home screen.



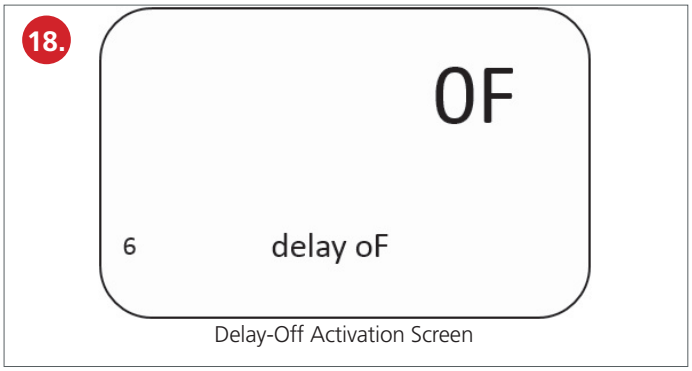
Delay-On Activation Screen

7.9 Delay-Off Timer Activation / Deactivation

- From the home screen, press and hold **"SET"** and **"COPY"** simultaneously for 3 seconds.
- Press **"COPY"** once to move to 'Menu 6' 'Delay-off setting'.

The Delay-off setting provides an adjustable run-on timer when Boost speed is engaged – adjustable between 5 and 30 minutes or 'off'.

- Use the **"+"** or **"-"** button to set the desired run-on time in 1 minute steps (Factory default is off).
- Press **"SET"** to record or **"ESC"** to discard the settings and return to the home screen.



Delay-Off Activation Screen

7.10 Optional Duct-Heater Operating Temperature (°C)

- From the home screen, press **"TEMP"** as required to move to menu 'T4'.

T4 is the outdoor temperature setting at which an optional intake air duct-heater switch can be activated and is adjustable between +5°C and +12°C (Factory default 10°C).

- Use the **"+"** or **"-"** buttons to set the activation temperature in steps of 1°C.
- Press **"SET"** to record or **"ESC"** to discard the settings and return to the home screen.

19.

Optional Duct Heater Operating Temperature Screen

7.11 Programming

- From the home screen, press **"PROG"** (The programme number will flash in the bottom left hand corner; P1 to P9).
- Use the **"+"** and **"-"** buttons to view the selected programme number (Factory default is P9).

The pre-programmed Thermal bypass programmes are shown in the diagram (See Section XX).

Note: Each square has a time value of 30 minutes. Black squares indicate a time period where the unit is in automatic bypass mode i.e. the unit will monitor the temperatures and open or close the bypass accordingly. White squares (blank spaces) indicate a time block where the heat exchanger bypass will be permanently set to operate and divert air around the heat exchanger regardless of the measured and set temperatures.

Each of the programmes can be edited to create bespoke programmes as follows:

- From the home screen, press **"PROG"**.
- Use the **"+"** and **"-"** buttons to select the programme number (Factory default is P9).
- Press **"PROG"**. The programme number will stop flashing and the first block on the timeline at the bottom of the screen will begin to flash.
- Select the day to be edited by pressing **"DAY"** until the correct day is displayed along the top of the screen (1 – Monday, 2 – Tuesday etc.).
- To add a 30 minute temperature controlled bypass block (a black square) to the timeline, ensure that the word **"BYPASS"** is displayed on the screen by pressing **"BYPASS"**.
- Press the **"+"** and **"-"** buttons to move along the timeline at the bottom of the screen; a block will be added to each position.
- To remove a block, remove the word **"BYPASS"** from the screen by pressing **"BYPASS"** and press the **"+"** and **"-"** buttons to move along the timeline at the bottom of the screen; a block will be removed from each position.
- Daily 'timeline patterns' can be copied to another day or multiple days to avoid programming each day individually.
- From the home screen, press **"COPY"**.
- Select the day to copy by pressing **"PROG"** (the day number will be displayed) and then the day to copy-to by pressing the **"+"** and **"-"** buttons (the day number will flash). When the two correct days have been selected, press **"COPY"** and the timeline pattern will copy across.
- Press **"SET"** to record.

7.12 Default Interface Factory Settings

- P1
- t3 - 20°C
- t4 - 10°C
- Humidity – 60%
- Filter – 3000 hours
- Fan 1 – Low 20%
- Fan 1 – Boost 50%
- Fan 1 – Max 80%
- Fan 2 – Low 20%
- Fan 2 – Boost 50%
- Fan 2 – Max 80%
- Bypass temp – off
- T5
- Delay-on – off
- Delay-off – off
- Hum - on

8.0 MAINTENANCE

The appliance G3/EU3 filters should be cleaned on a regular basis, the exact frequency will be determined by individual living conditions, but we recommend inspection every 3,000 hours (4 months) with replacement every 27,000 hours (three years).

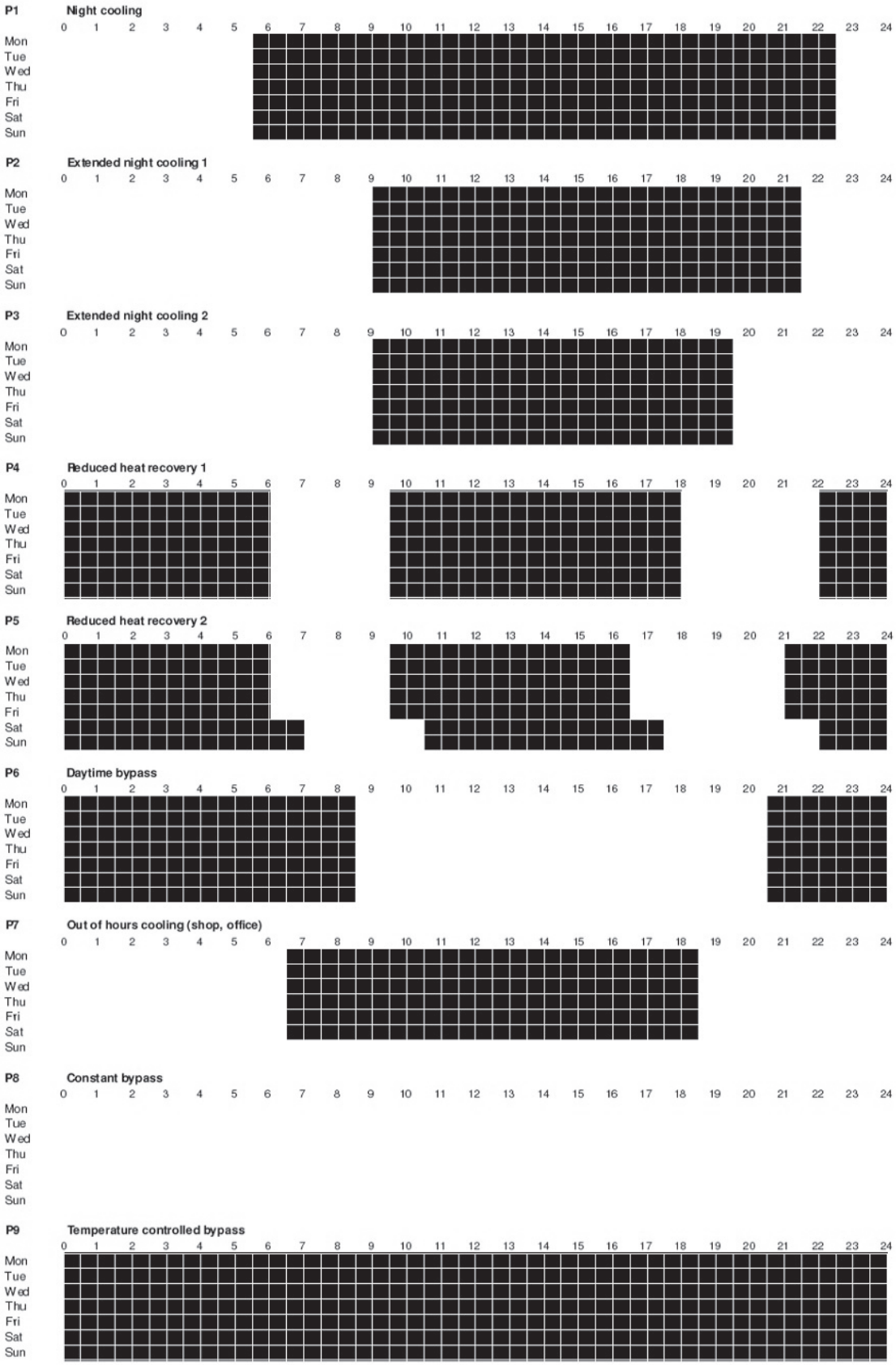
Before cleaning the filters, turn off the appliance at the isolator switch.

To remove the two filters, pull out the two caps from the front of the appliance and gently slide out the filters in their carrier frames.

Lightly vacuum the filters to remove surface debris and then gently wash through in warm soapy water. Ensure that the filters are completely dry before refitting. **Important:** do not dry on a radiator or use excessive heat as this will distort the carrier frames.

9.0 THERMAL BYPASS PROGRAMMES

20.



Thermal Bypass Programmes

10.0 FAULT FINDING

Caution - the electrical supply to the unit and from any external triggers into the unit must be isolated before removing covers to electrical connections.

Fault	Checks & Possible Solutions
Nothing displayed on the controller LCD screen.	• Check there is power connected to the unit. Presence of an orange light visible from outside the white wiring centre box will indicate this. • Check the electrical connections between VCC (on controller) and 5V (on PCB). • Check the electrical connections between GND (on controller) and GND (on PCB).
'Unconnect' displayed on the controller LCD screen.	• Check the electrical connections between TD (on controller) and RXD (on PCB. • Check the electrical connections between RX (on controller) and TXD (on PCB).
'Fail' displayed on the controller LCD screen.	• If relevant, check with the building management services team if the external inhibit function has been activated. • If connected, check the smoke detector isn't activating the external inhibit function. • If no external inhibit control is connected, check there is a link wire present between the two terminals of the external inhibit connection on the main PCB. • Check the electrical connections of the aforementioned link wire between the two terminals of the external inhibit on the main PCB.
'Fail (fan 1)' displayed on the controller LCD screen.	• Check the electrical connections for fan 1 on the main PCB. There are four connections at the top of the board for control and three at the bottom of the board for power. • By removing the exhaust duct connection, check there is nothing obstructing fan 1.
'Fail (fan 2)' displayed on the controller LCD screen.	• Check the electrical connections for fan 2 on the main PCB. There are four connections at the top of the board for control and three at the bottom of the board for power. • By removing the supply duct connection, check there is nothing obstructing fan 2.
Little or no air is extracting or supplying through the room valves.	• Check that the filters have been removed from the pre-commissioning protective covers. • Check that the filters are not blocked. • Check that the system has been commissioned correctly. • By removing the exhaust and supply duct connections check there is nothing obstructing the fans.
The unit is excessively noisy.	• Check that the system has been commissioned correctly. • By removing the exhaust and supply duct connections check there is nothing obstructing the fans

If the fault/faults cannot be resolved using the table above, contact the Domus Ventilation Customer Service Team.

Technical or commercial considerations may, from time to time, make it necessary to alter the design, performance and dimensions of equipment and the right is reserved to make such changes without prior notice.

11.0 WARRANTY

The 2 year warranty starts from the day of delivery and includes first year parts and labour, remaining year parts only. This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled, or not installed, commissioned and maintained in accordance with the details contained in this manual and general good practice.

11.1 Extended Warranty

In addition to this two year warranty Domus also offers extended warranty protection for this product for consumers based in the UK subject to additional terms and conditions. You can find out more about this extended warranty cover and purchase by contacting Domus using one of the above methods.

12.0 END-OF-LIFE AND RECYCLING

Where possible components which can be largely recycled when the product reaches its end-of-life have been used:

- Fans, motors, controls, actuators, cabling and other electrical components can be segregated into WEEE recycling streams.
- Sheet metal parts, aluminium extrusion, heating/cooling coils and other metallic items can be segregated and fully recycled.
- EPP, plastic ducting, nylon corner pieces, plastic heat exchangers, packaging material and other plastic components can be segregated into mixed plastic and widely recycled.
- Cardboard packaging, wood, and other paper components can be largely recycled or fully processed in energy from waste centres.
- Filter Disposal: Cardboard framed filters should be fully processed in energy from waste centres, contact your local civic amenity site / household waste recycling centre regarding metal / wire framed filters.
- Remaining Items can be further segregated and processed in accordance with the zero waste hierarchy. Please call After Sales Support for further information on items not listed above.

Ensure that this product is made safe from any electrical / water / refrigerant supplies before dismantling commences. This work should only be undertaken by a qualified person in accordance with local authority regulations and guidelines, taking into account all site based risks.

13.0 AFTER SALES AND REPLACEMENT PARTS

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.

If ordering spares please quote the serial number of the unit together with the part number, if the part number is not known please give a full description of the part required. The serial number will be found on the identification plate attached to the unit casing.

vent.technical@domusventilation.co.uk

Installer Contact Details:

Company Name:

Contact:

Tel:

Email:

Domus Ventilation

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