

Warnings & Safety Information

- Do not install this product in areas where the following may be present or occur:
 - Excessive oil or a grease laden atmosphere.
 - Corrosive or flammable gases, liquids or vapours.
 - Subject to direct water spray from hoses.
 - Ambient temperatures higher than 40°C and lower than -10°C.
 - Possible obstructions that may hinder access to or removal of the unit.
- All wiring must be in accordance with the current IEE wiring regulations BS7671, or appropriate standards of your country. Installation should be inspected and tested by a suitably qualified person after completion.
- Ensure the mains supply (voltage, frequency and phase) complies with the rating label.
- The unit should be provided with a switched local double pole fused spur fitted with a 3A fuse having a contact separation of at least 3mm.
- These units must be earthed.
- Precautions must be taken to avoid the back-flow of gases into the building from the open flue of gas or other fuel-burning appliances.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Young children should be supervised to ensure that they do not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Ensure that the unit is switched off from supply mains before removing the front cover and service.
- The installer is responsible for the installation and electrical connection of the unit on site. It is the responsibility of the installer to ensure that the equipment is safely and securely installed and left only when mechanically and electrically safe.
- All regulations and requirements must be strictly followed to prevent hazards to life and property, both during and after installation, and during any subsequent servicing and maintenance.
- The unit's condensate drain must be connected to the building's wastewater drainage system.
- Certain applications may require the installation of sound attenuation to achieve the sound levels required.
- The unit must not be connected directly to a tumble drier.
- The supply and exhaust valves must be fully opened prior to commissioning.
- The intake air must be drawn from the exterior of the property.
- The unit should be allowed to stabilise during commissioning for a minimum period of 5 minutes when changing between boost and normal speeds.
- Ensure that the unit's external grilles are a minimum of 1500mm apart. The exhaust grille should be located at least 600mm away from any flue outlet. The inlet grille should be located 2000mm away from any flue outlet.
- This product and associated duct installation should be carried out in accordance with the Domestic Ventilation Compliance Guide.
- The appliance is not suitable to be installed to the exterior of the dwelling

UK Building Regulations (Part F) Declaration of Conformance

The unit conforms to the 2010 Building Regulation (Part F - Means of Ventilation, F(1), F(2)) requirements for fixed systems for mechanical extract fans when installed in accordance with the instructions in this document and the Domestic Ventilation Compliance Guide.

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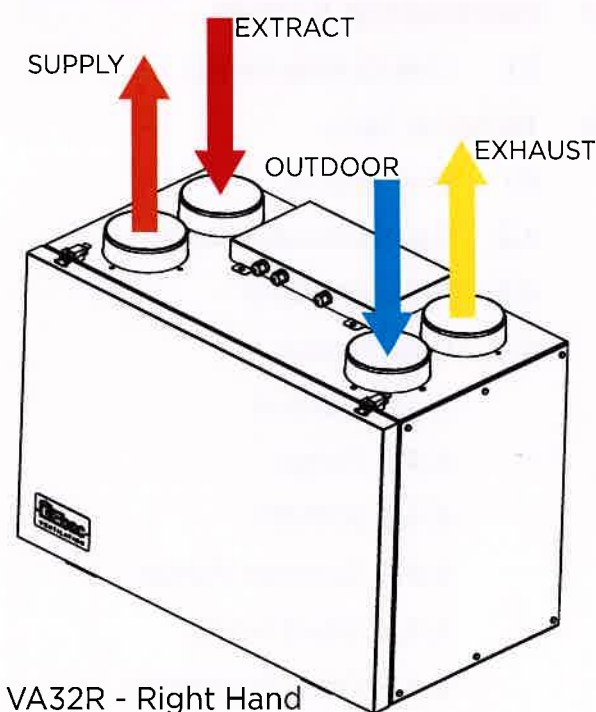
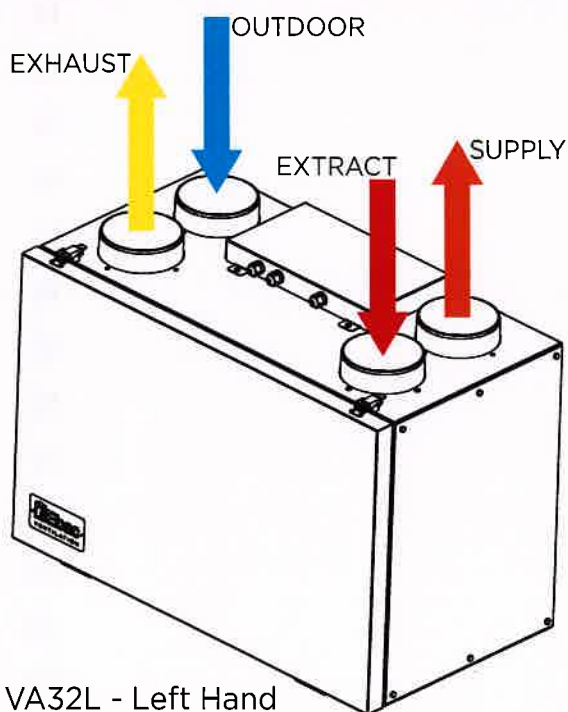
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1.0 Product Description

The product mentioned throughout this document is a **Mechanical Ventilation with Heat Recovery** unit. The unit is designed to continuously extract and supply fresh, filtered air to houses and similar dwellings. The unit conforms to the latest Building Regulations, Part F, 2010.

The unit is designed to extract stale humid air from locations such as kitchens, bathrooms and utility rooms. Simultaneously, fresh air is extracted from outside the dwelling and passed through a filter. Each air path is simultaneously passed through the intergrated heat exchanger, hence supply warm, fresh, filtered air to the dwelling, and exhausting cold, stale, humid air outside the dwelling.

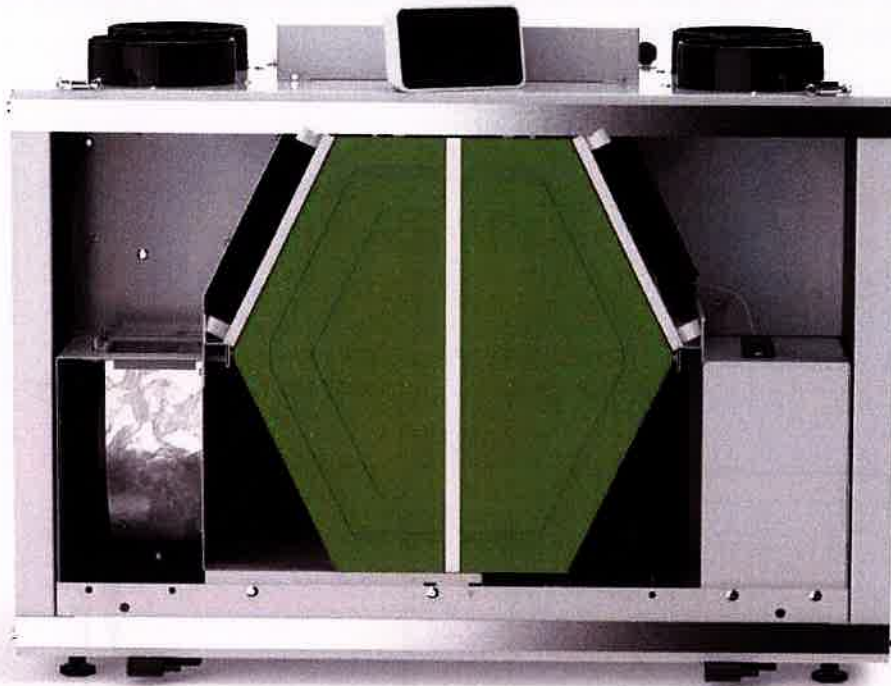
The unit has features such as a summer bypass which in optimal conditions will allow the extracted air from the dwelling to bypass the heat exchanger, thus in the summer months, cool, filtered air will be supplied to the dwelling.



Note: Handed variants are sold as separate units. For example, a right hand variant can not be converted to a left hand.

1.0 Product Description

1.1 Features



- 100% filtered summer bypass
- Wall mount or free standing
- G4 90% supply & extract air filter
- Condensate drain
- 32mm foam insulation
- Summer Purge

- Fan flow rate 243m³/h @ 100Pa
- EC forward curved fan
- Lift off hinged door
- Touchscreen controller
- SMART Mode
- Silent Hours

1.2 Box Contents

- MVHR unit
- Touchscreen Controller
- G4 90% supply air filter
- Warranty Card

- Wall mounting bracket
- User manual
- G4 90% extract air filter

2.0 Unit Installation

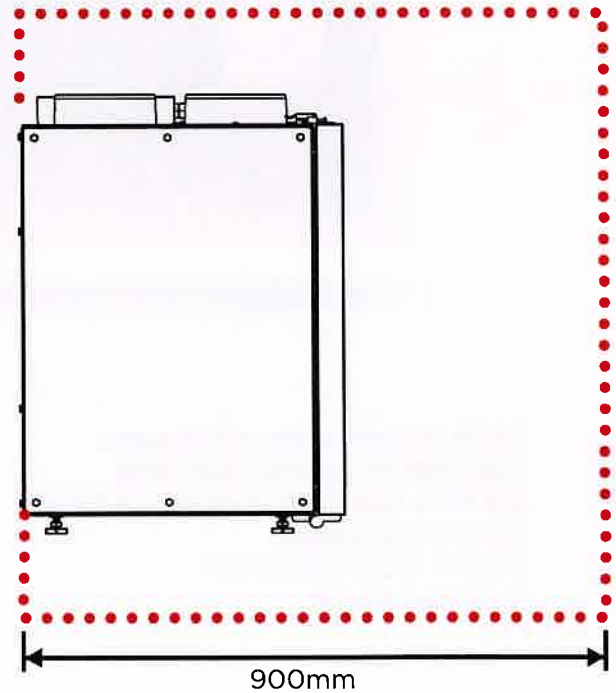
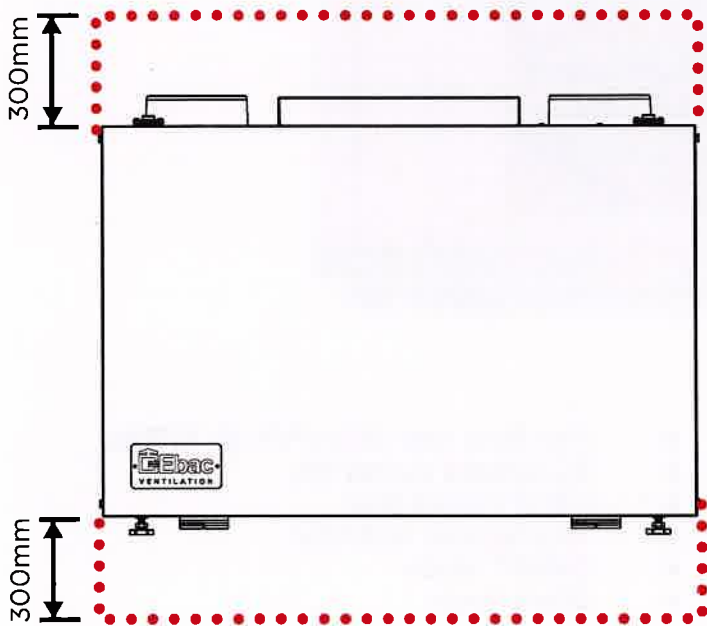
Before installation, we advise installers to fix all mains and touchscreen wiring along with any internal accessories prior to fixing the MVHR unit in position, leaving approximately 500mm tails to allow for internal wiring. See section 2.7.1 for wiring details

Installation should be carried out by a suitable qualified and competent person.

If the unit is wall mounted, the wall should have sufficient strength to support the unit. The unit may also be floor mounted.

Do not use this MVHR unit as a support for any other equipment.

2.1 Service Void

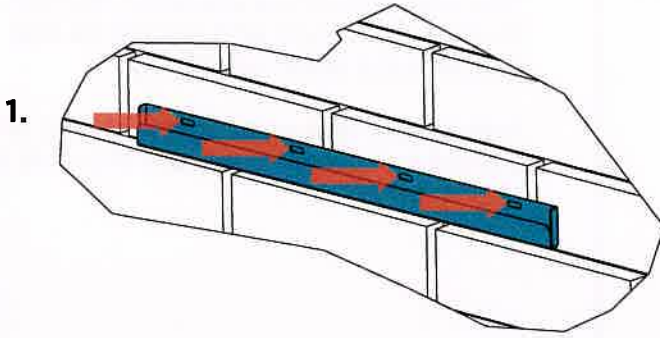


2.0

Unit Installation

2.2

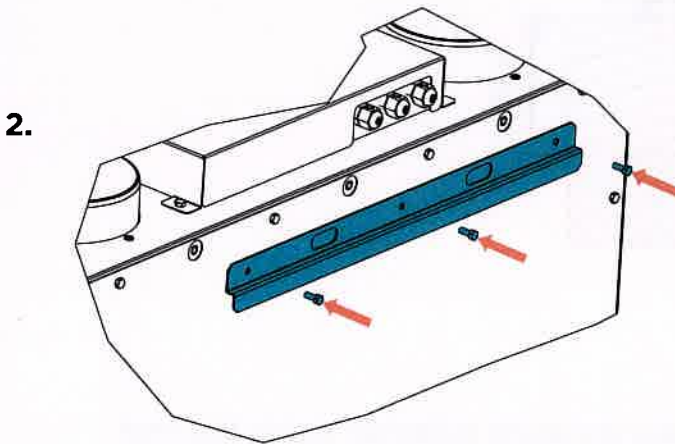
Wall Mounting



Dowels/ wall plugs for mounting are not included. Suitable dowells should be used for the chosen wall mounting surface

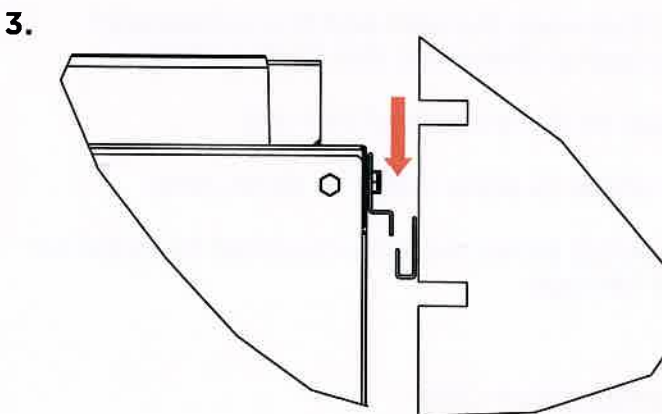
Consideration should also be given to the weight of the unit

Ensure the bracket is level. A card template is provided as part of the packaging to help locate mounting holes



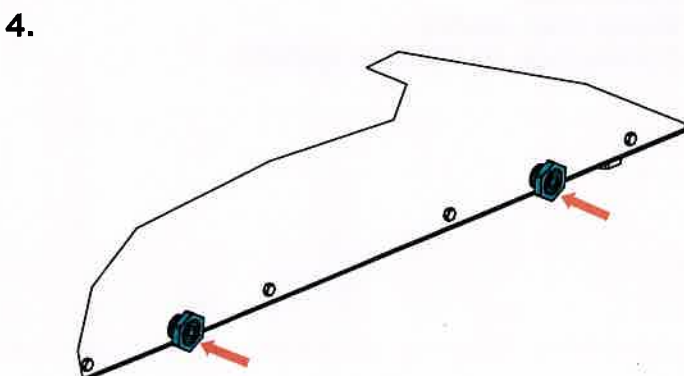
Secure the mounting bracket to the back of the unit with supplied M5 bolts

Ensure each bolt is adequately torqued



Carefully lift and hook the mounting bracket located on the back of the unit over the wall mount

Ensure the unit is level and is spaced from the bottom to ensure the unit does not lean forward

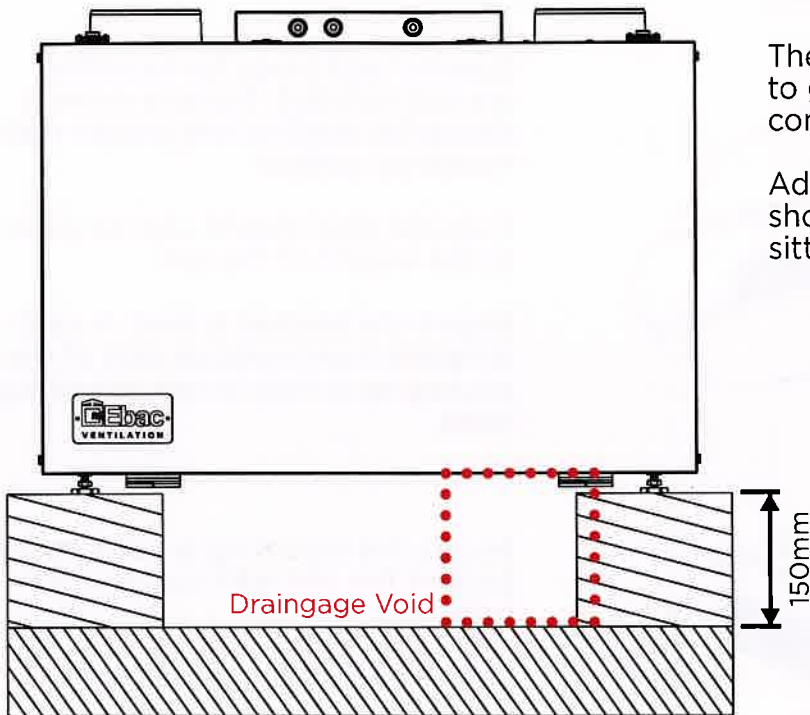


Remove 2x of the adjustable feet from the bottom of the unit and assemble to the back. Screw or unscrew the adjustable feet to adjust the angle of the unit on the wall.

Note: The unit should be adjusted to be perfectly vertical to ensure water drains away.

2.0 Unit Installation

2.3 Floor Mounting



The unit should be elevated 150mm to give clearance and access to the condensate drain assembly

Adjustable feet supplied with the unit should be tuned to ensure the unit is sitting level

2.4 Condensate Drainage

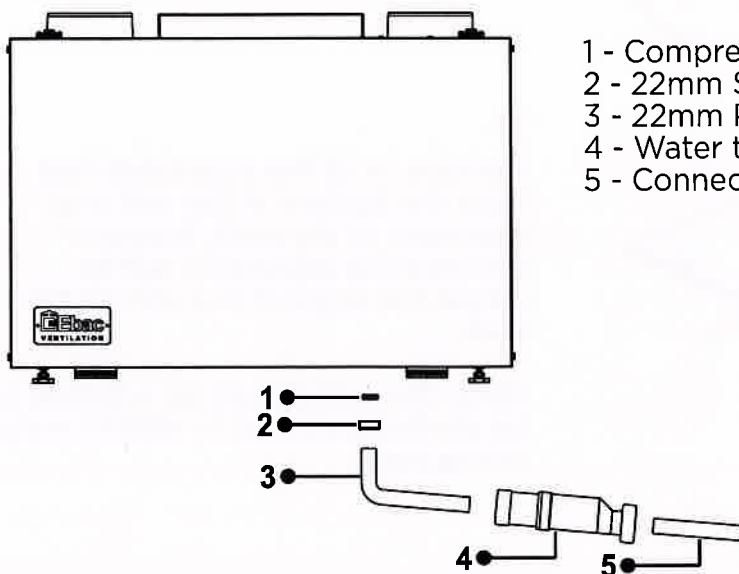
Condensate drainage is required to drain away moisture collected inside the heat exchanger

A waterless trap/ HepVo valve must be fitted between the unit and the subsequent waste system. A traditional U bend is not advised as these can dry up in warm/

The 22mm brass compression fitting is located on the bottom of the unit

Waste pipes must have a 3 degree minimum angle to allow water to drain away

In locations where freezing weather is likely, outlet pipes must be insulated to avoid ice build up and blockages which could result in damage



2.0 Unit Installation

2.5 Electrical Installation



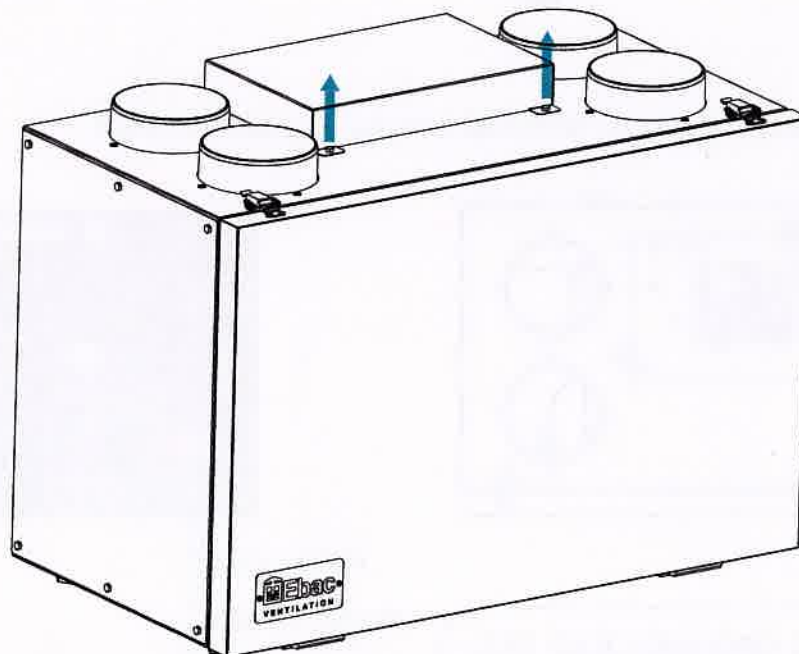
POWER OFF THE POWER SUPPLY PRIOR TO ANY OPERATIONS WITH THE UNIT. THE UNIT MUST BE CONNECTED TO POWER SUPPLY BY A QUALIFIED ELECTRICIAN. THE RATED ELECTRICAL PARAMETERS OF THE UNIT ARE GIVEN ON THE MANUFACTURER'S LABEL



ANY TAMPERING WITH THE INTERNAL CONNECTIONS IS PROHIBITED AND WILL VOID THE WARRANTY

THIS UNIT MUST BE CORRECTLY EARTHED

1. Remove 2x access cover screws to reveal terminal blocks mounted on PCB



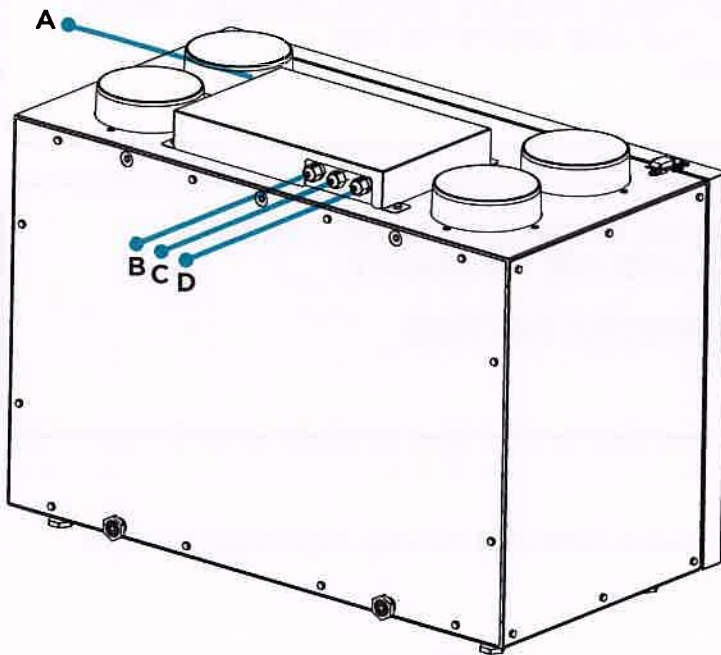
Note: There is no mains cable supplied with the unit as the distance the unit is installed from the mains supply will vary in each application. Appropriate mains wiring must be sourced by the installer

Recommended Cable:
3 Core - 3x 0.75mm²

2.0 Unit Installation

2.5 Electrical Installation

2. Route wiring through cable glands and into the control box.

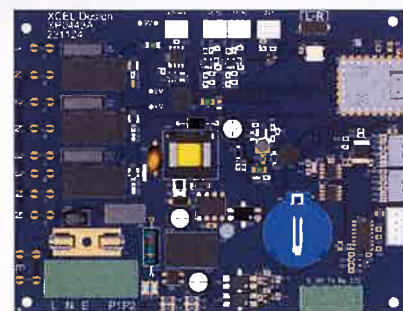
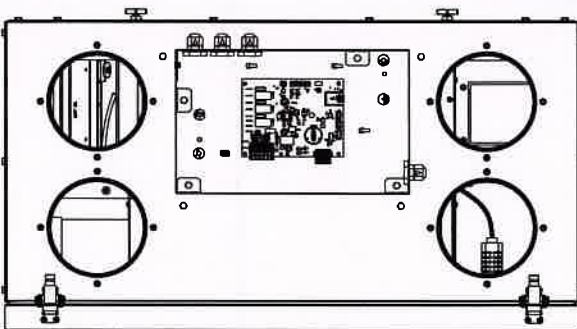


CABLE GLANDS MUST BE TORQUED TO 2.5NM TO ENSURE CABLE IS ADEQUATELY SECURED



- A.** Touchscreen Controller
- B.** Port Allocation 1
- C.** Port Allocation 2
- D.** Mains Supply (L,N,E)

3. Connect mains supply to terminal blocks located on PCB



- Mains - Live
- Mains - Neutral
- Mains - Earth

ENSURE THE GROUND LEAD TAIL IS A MINIMUM OF 25MM LONGER THAN CONDUCTORS SO THAT CONDUCTOR WIRES BECOME TAUT BEFORE GROUND

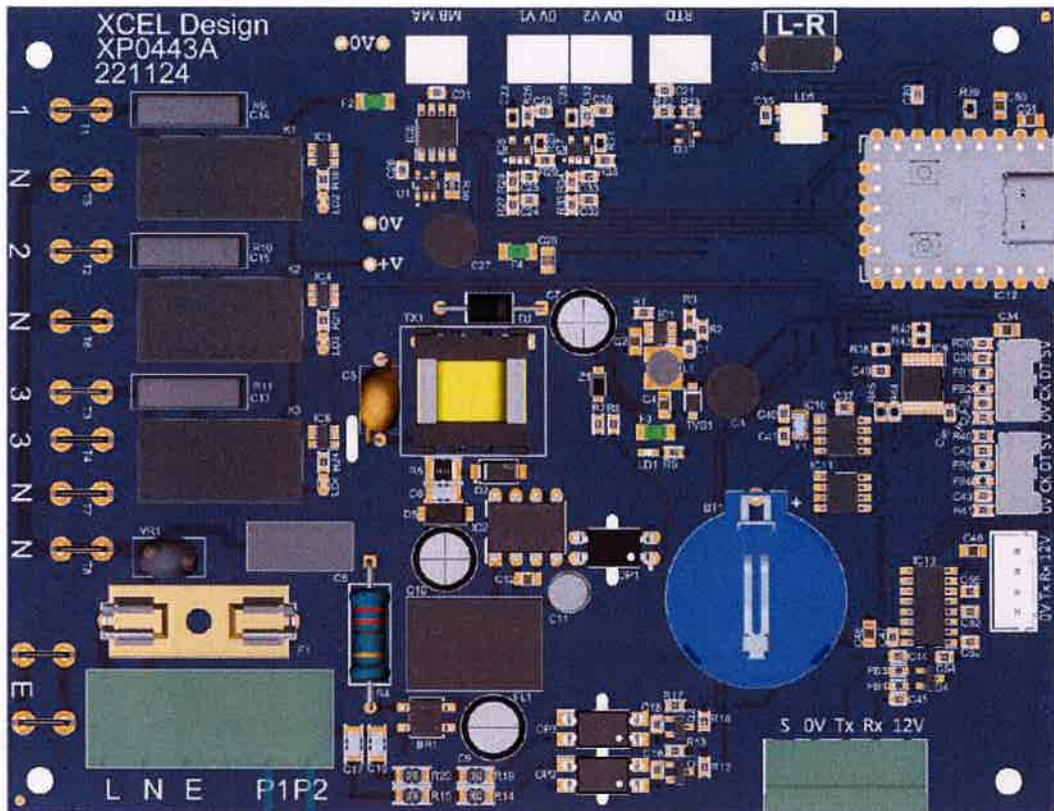
4. Replace access cover and secure with 4x screws. Wiring should be neatly routed and secured to reduce risk of trapping/ snagging.

2.0 Unit Installation

2.6 Port Allocation

The unit can be switched to a pre-determined mode automatically from a 240V signal. The unit has two 240V inputs to customize the unit.

Example: The unit can be set to switch to boost mode when the light switch to a bathroom is pressed.



Port 1
220-240 V AC 50Hz Input

Port 2
220-240 V AC 50Hz Input

See image 3 in section “3.1 Unit Comissioning” to see the setup screen for allocating each port to selected operating mode.

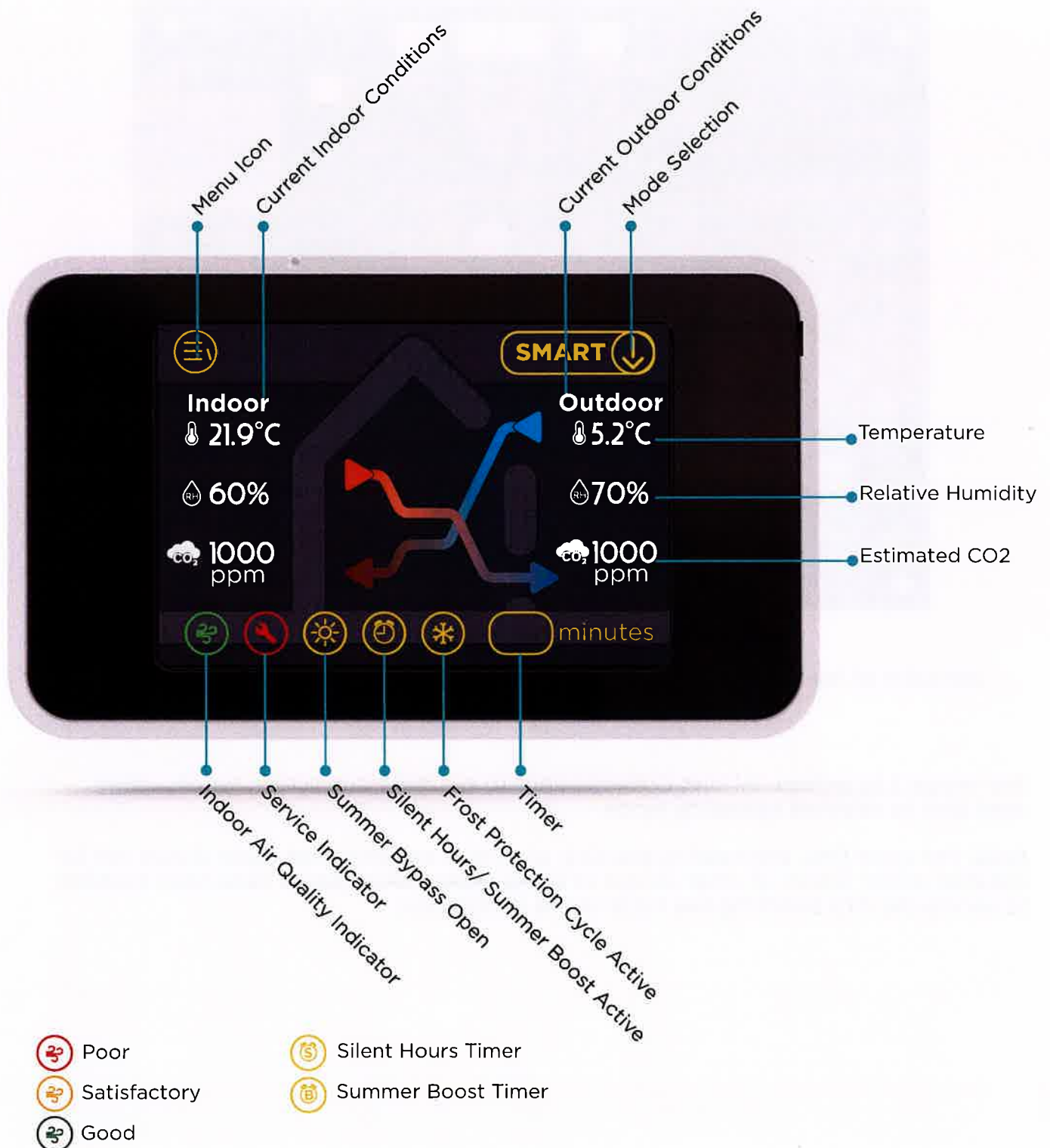
Note: For good EMC engineering practice, any 240V switching live cable should not be installed within 50mm of other sensor or signal cable. Cable glands have been supplied to secure the 240 switching live cable to the control box.

2.0 Unit Installation

2.7 Unit Interface Touchscreen

Included with the unit is a touchscreen controller. All control user interactions are to be carried out through this device. The controller also gives live user feedback showing Indoor Air Quality (IAQ) readouts such as humidity, temperature and eCO2.

The controller must be connected to the unit for operation

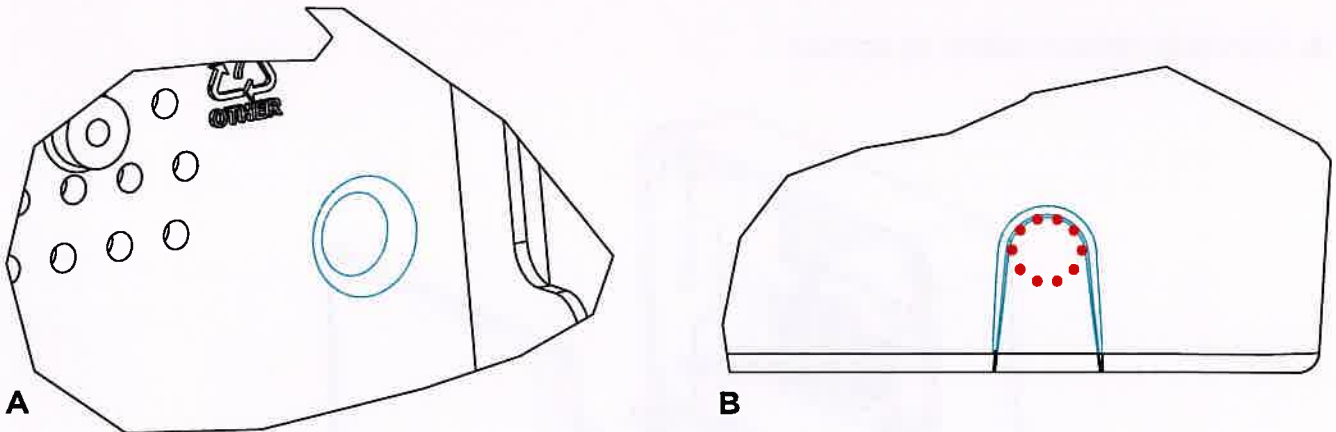


2.0 Unit Installation

2.7.1 Touchscreen Installation

Description	Purpose	Quantity
Pozi Screwdriver	Secure PCB and screen inside of backbox	1
Drill	Secure backbox to wall. Optional drill hole in bottom of box	1
6mm Drill Bit	Secure backbox to wall. Optional drill hole in bottom of box	1
4 Core Cable (Minimum 0.3mm ² , screened)	Connect MVHR unit to touchscreen	Dependant on instalation. Distance of routing between unit and touchscreen install point
Wall Plugs	Secure touchscreen to wall	2
Screws	Secure touchscreen to wall	2

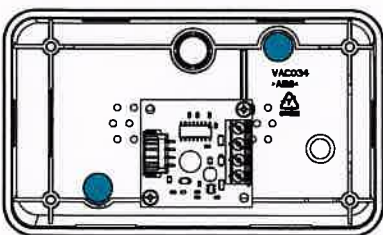
1. Route communication cable between unit and touchscreen



There are two cable entry points into the backbox of the touchscreen. If there is access for cable to be routed into the back of the box, this is preferred. There is a hole as shown in "A" for the cable to feed into the controller.

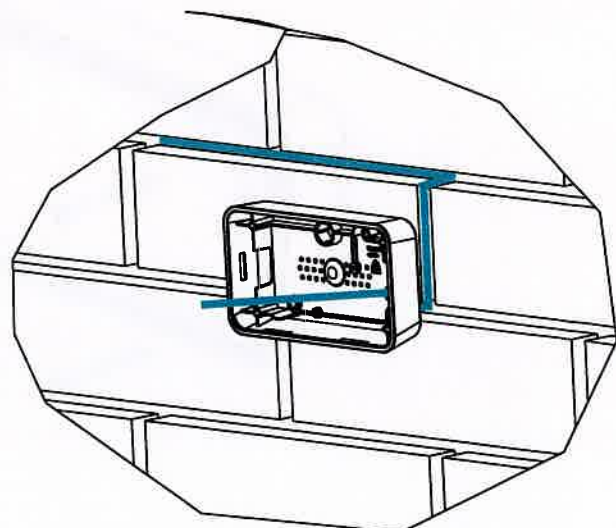
If the cable has to be routed from under the controller, see image "B". Use the feature as a guide to drill a hole. Ensure the hole diameter is large enough to feed the communication cable through.

2. Secure touchscreen backbox to wall



Drill or push out plastic to show 2x mounting holes. Ensure communication cables is routed inside of box before mounting to wall

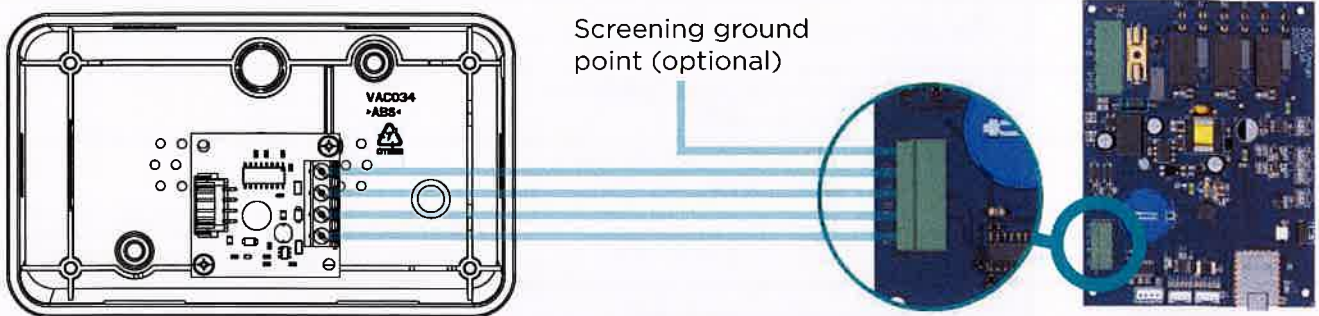
Note: Mounting screws and wall plugs not included



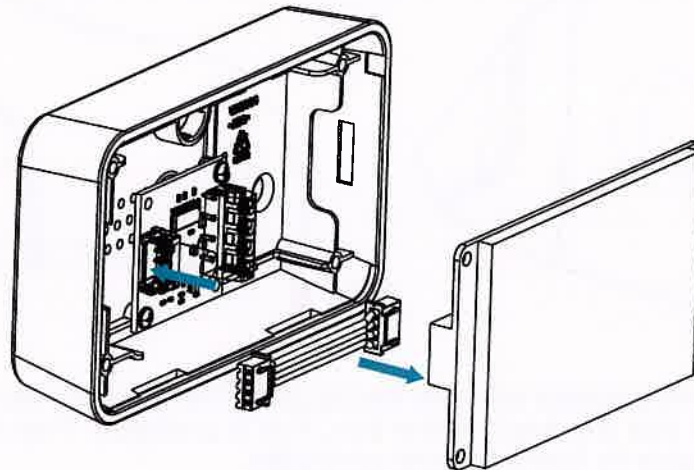
2.0

Unit Installation

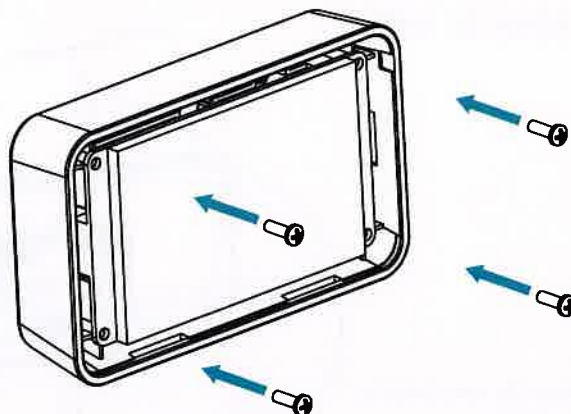
3. Connect communication cable to PCB



4. Connect ribbon cable to screen



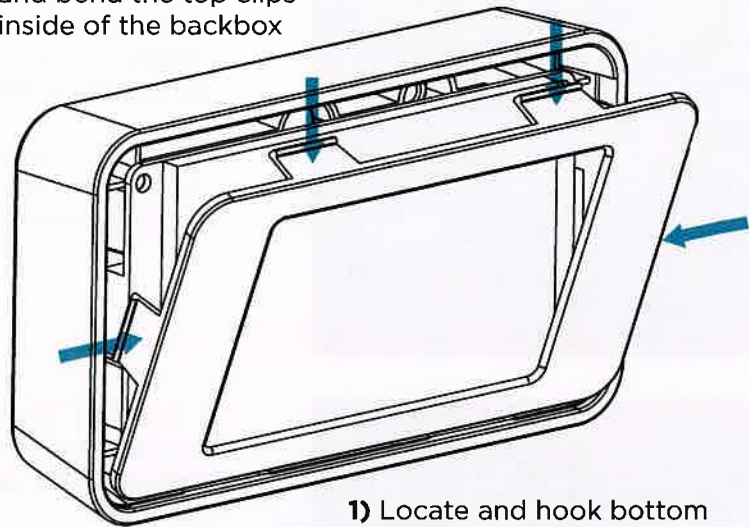
5. Secure screen to backbox with the provided screws



6. Assemble front cover to the backbox

3) Rotate screen back and bend the top clips inside of the backbox

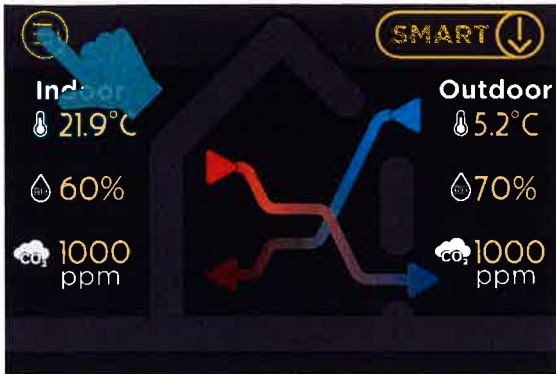
2) Rotate screen back and bend the side clips inside of the backbox



1) Locate and hook bottom lugs into the backbox

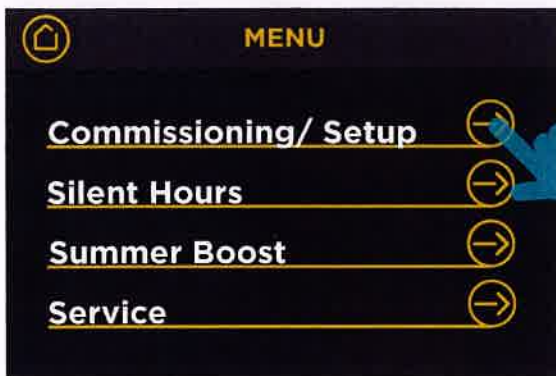
3.0 Commissioning & Setup

3.1 Unit Commissioning



1. Once the unit and satellite screen are fully installed, the unit can be powered up. Tap the “Menu” icon located in the top left corner to navigate to the Menu page

Note: The screen goes into a standby mode after 2 minutes. To awaken the screen, tap the touchscreen



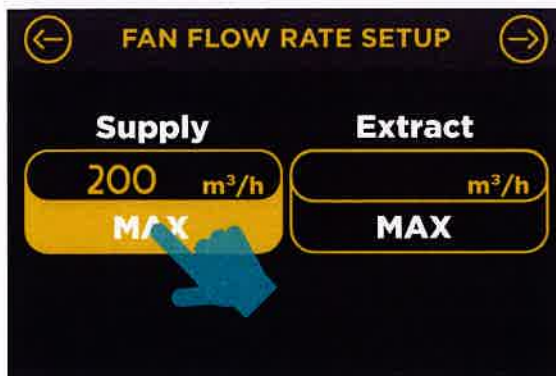
2. Tap the “Comissioning/ Setup” icon. A password prompt will appear. See below passcode for access

Password: 5213



3. Tap each box and input the required information

Note: See section “2.6 Port Allocation” for further information in regards to what these functions are. If these are not installed, the box should remain blank



4. See “Figure 1” and “Figure 2” for reference on how to setup the unit to measure these values.

Inputting these measurements allows the unit to correlate the fan speed with flow rate. This is required for SMART mode

Also inputting these measurements allows the unit to run optimally for the installation which is likely to be bespoke. It will accomodate duct length and resistances, filter variation and leakages

Figure 1

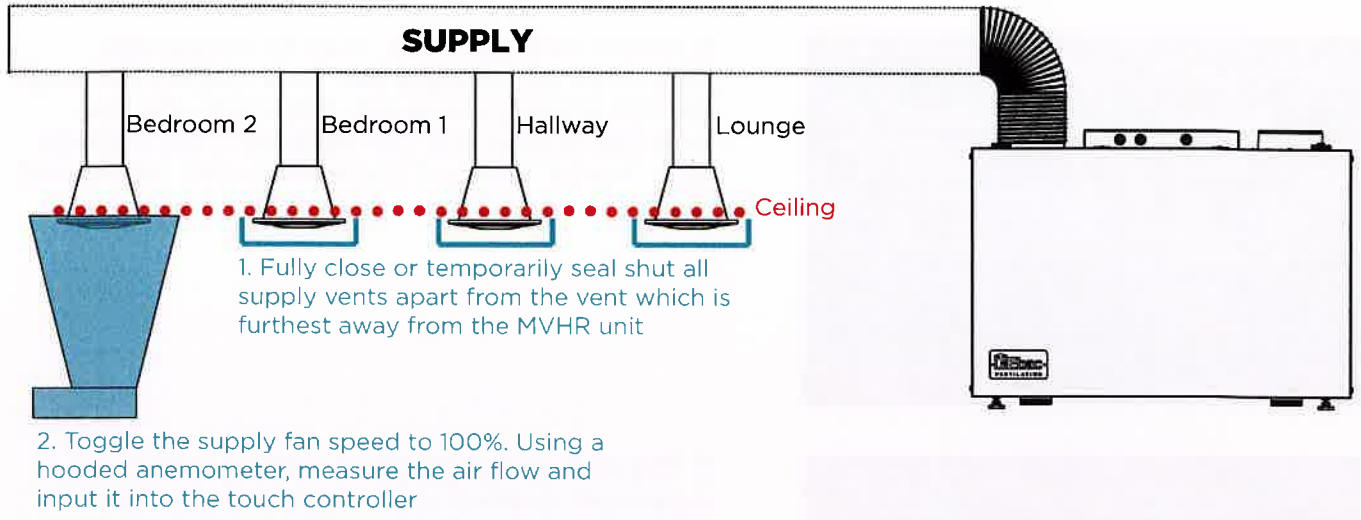
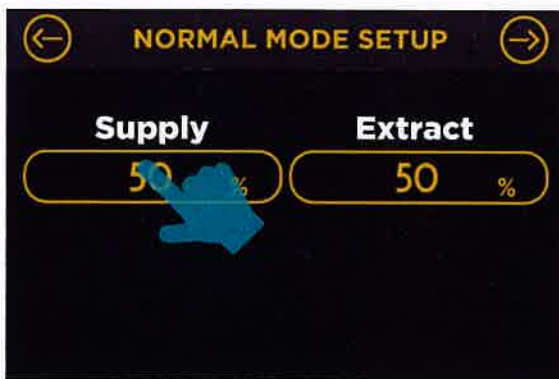
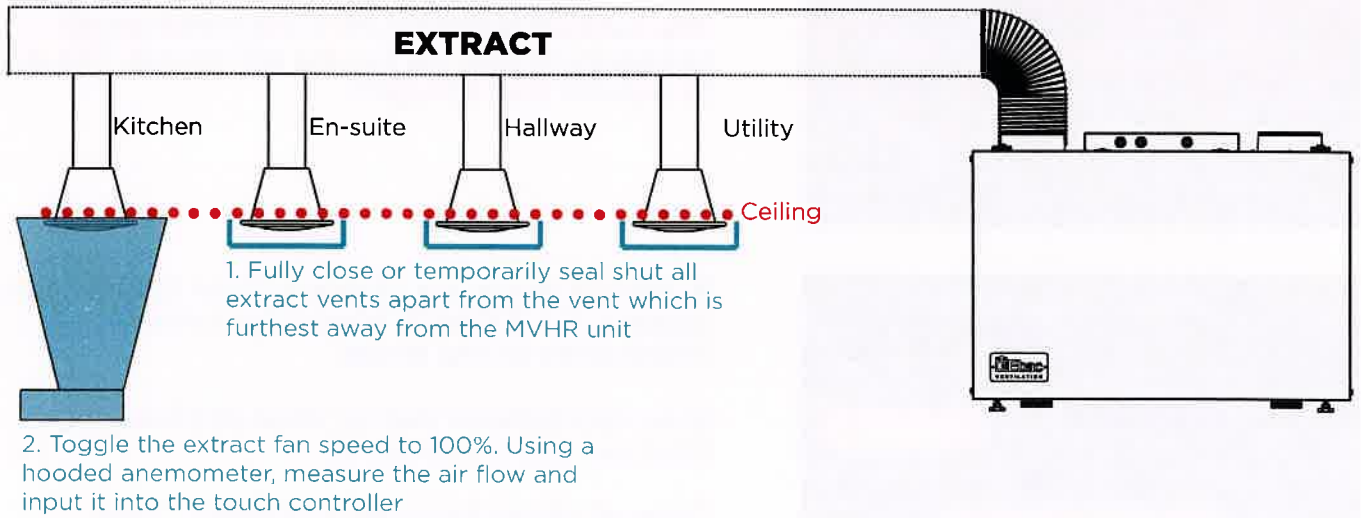


Figure 2



5. The unit defaults to “Normal” mode. The ceiling outlets should be modified inline with the fan speed at this part of the setup.

Note: Required flow rates per outlet should be tuned inside of this mode

BOOST MODE SETUP

Supply	Extract
80 %	80 %
Indoor Temp (°C)	26
Relative Humidity (%)	70
CO2 (ppm)	1200

SUMMER BYPASS SETUP

Indoor Temp (°C)	22
Outdoor Temp (°C)	15

SMART MODE SETUP

Water Removal (L/Day) ↑ 2 ↓

Reset

Save Setup

6. Boost mode is to be used to encourage maximum air changes per hour (ACH), although the fan speed can be set. Setpoints are also included so the unit can automatically change into “Purge” mode if these setpoints are passed

7. The indoor temperature setting is the maximum desired room temperature. This should be set to 3° above the central heating temperature

The outdoor temperature is the minimum air temperature that the bypass will permit. This is to prevent cold draughts

8. SMART mode is a unique feature to Ebac. See section “4.4.3 SMART Mode” for further information on the mode.

Ebac recommend that for most applications, 2 litres per day is adequate.

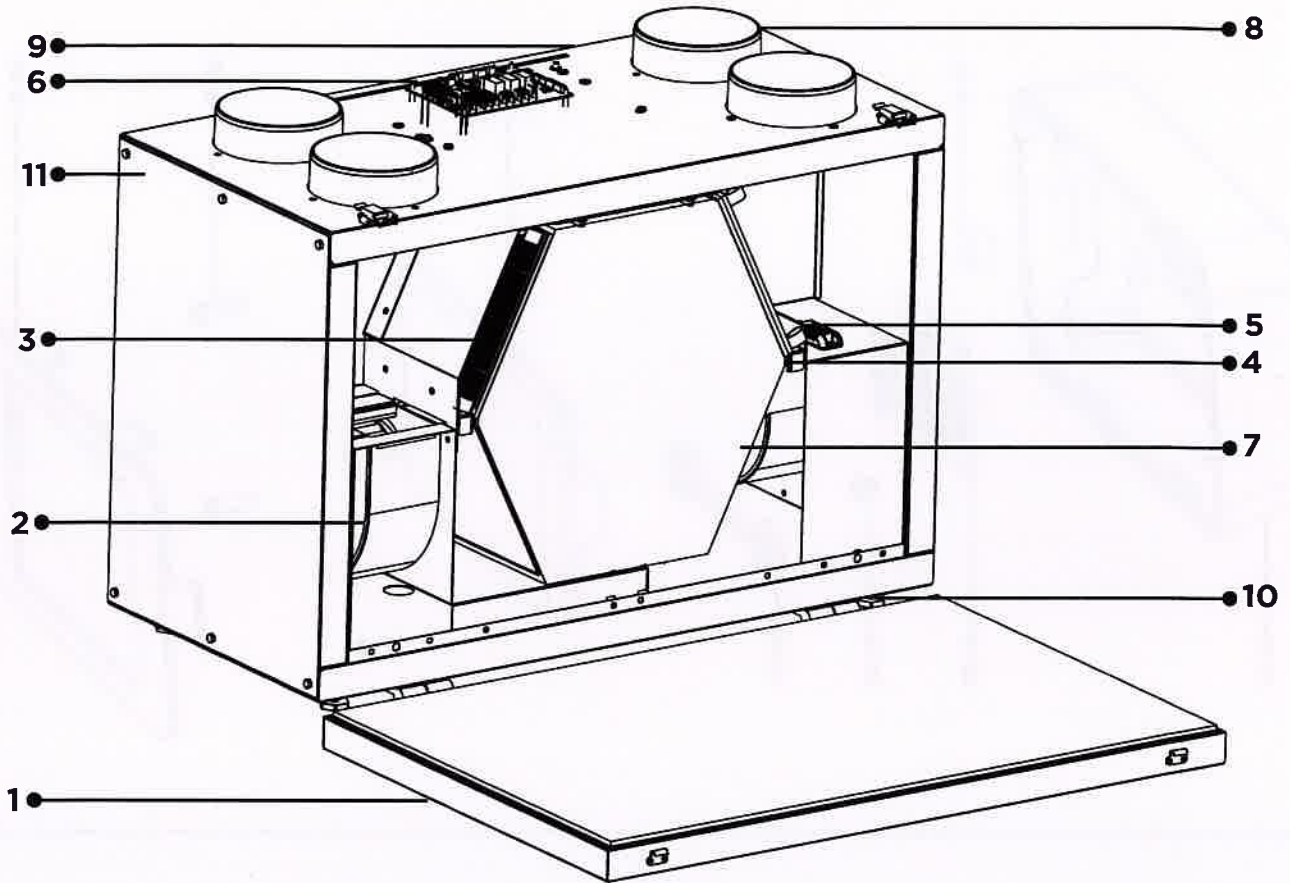
Once all values have been inputted, “Save Setup”.

4.0

Technical Data

4.1

Unit Spares



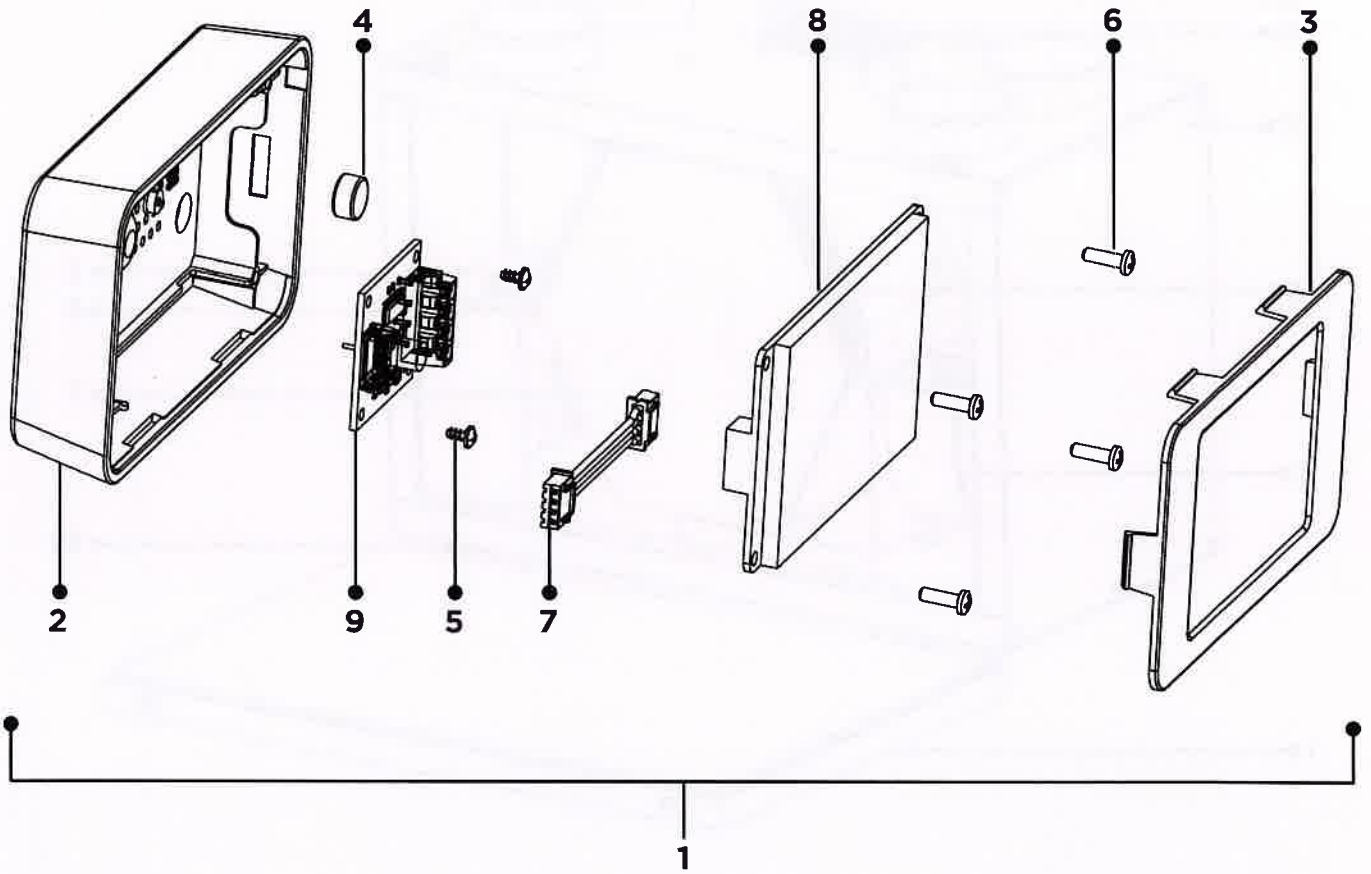
No.	Description	Part No.
1	Front Cover Assembly	VAA010
2	EC 120MM FORWARD CURVED FAN	VAC101
3	G4 Filter	VAC107
4	VAC148	Brushseal
5	Sensor Assembly	VAA019
6	Control + Power PCB	VAC120
7	Heat Exchanger 325mm	VAC120
8	125mm Spigot	VAC106
9	Wall Bracket Assembly	VAA007
10	Lift off Hinge	VAC134
11	Summer Bypass Assembly	VAA001

4.0

Technical Data

4.2

Touchscreen Spares



No.	Description	Part No.
1	Touchscreen Controller	VAA021
2	Screen Back Box	VAC034
3	Screen Front	VAC033
4	Magnet	BYC463
5	Screen Mounting Screws	BIC501-01
6	PCB Mounting Screws	VAC137
7	PCB to Screen Ribbon Cable	VAA100
8	3.5" Touchscreen	VAC108
9	Control PCB	VAC128

4.0

Technical Data

4.3

Product Fiche

Name:		Ebac Ltd		
Model ID (StockRef.)		VA32 - (RWH-GB), (LWH-GB)		
Climate Zone	SEC Value (kWh/m ² /a)	Energy Class (SEC)	The annual electricity consumption (AEC) (kWh)	The annual heating saved (AHS in kWh)
Average	-41.99	A	1.93	46.15
Cold	-80.74	A+	7.3	90.28
Warm	-17.16	E	1.48	20.87
Label Required? (Yes/No = Out of scope)		Yes		
Declared as: RVU or NRVU/UVU or BVU		RVU/BVU		
Speed Drive		Variable Speed		
Type HRS (Recuperative, Regenerative, None)		Recuperative		
Thermal Efficiency: [(%), NA (if none)]		86.2		
Max. Flow Rate (m ³ /h)		242		
Max. Power Input (W): (@Max. Flow Rate)		108		
LWA: (Sound Power Level (dB))		39		
Ref. Flow Rate (m ³ /s)		169		
Ref. Pressure Diff (Pa)		50		
SPI [W/(m ³ /h)]		0.26		
Control Factor; CTRL		0.65		
Control Typology		Local Demand Control		
Declared: -Max Internal & External Leakage Rates (%) for BVUs or carry over (for regenerative heat exchangers only), -&Ext. Leakage Rates (%) for Ducted UVUs;		<14% Internal, < 7% External		
Mixing Rate of Non-Ducted BVUs not intended to be equipped with one duct connection on either supply or extract air side;		N/A		
Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit		www.ebac.com		
For UVUs (Instructions Install Regulated Supply/ Extract Grilles Facade)		N/A		
Internet Address (for Dissassembly Instructions)		N/A		
Sensitivity p. Variation@=20/-20 Pa: for Non-Ducted VUs)		N/A		
Air Tightness-ID/OD-(m ³ /h) (for Non-Ducted VUs)		N/A		

4.4

User Modes

The unit has 3 primary control modes. Each mode has been designed to give optimal air flow for any given time. The main difference between each mode is the fan speed.

4.0 Technical Data

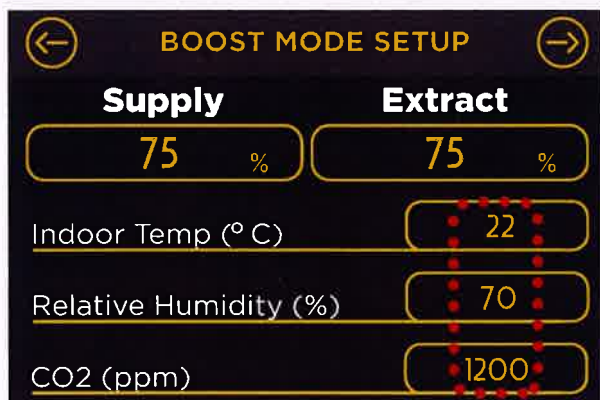
4.4.1 Normal

The unit will default to Normal mode. The unit should be commissioned to comply with the flow rates stipulated in Part F of Building Regulations. Fan speed is setup inside of the commissioning mode

4.4.2 Boost

Boost mode should be used to obtain as many Air Changes per Hour (ACH) as possible, this is done with an increased fan speed. The fan speed can be set inside of the commissioning menu.

If Boost mode is manually selected, the user is given the option of selecting a timer of between 0-90 minutes. After the inputted time, the unit will default back to previous mode the unit was running in prior to boost been selected.



When setting up Boost mode inside of the commissioning menu, sensor set points can also be inputted which will allow the unit to automatically switch to Boost mode. If the setpoints are triggered hence "Boost" mode is automatically activated, it will remain in "Boost" mode for 90 minutes until the values have dropped below the limits. If after 90 minutes the values are still over the limits, the unit will default back to Normal mode. The limits cannot trigger another "Boost" cycle until 6 hours has lapsed

4.4.3 SMART

Ebac have over 50 years experience in designing and manufacturing dehumidifiers which primarily deal with humidity and condensation. SMART mode has been designed to deal with humidity in the most energy efficient way possible.

All MVHR systems have crude control systems which use defined sensor set points which turn the unit on or off dependant on whether the set point has been reached. It is likely that in certain conditions the unit will never reach those setpoints, resulting in the unit over ventilating. Ebac understand that in most instances, the removal of 1-2 litres from a dwelling cures condensation and dampness.

Ebac's SMART Control continuously monitors both the internal and external conditions. Live monitoring and logging allows the unit to determine exactly how much moisture is been exhausted. The fan speed changes automatically to only ventilate what is required.

In the Summer months, it is possible that the moisture content in the outdoor air is higher than that inside the dwelling. If the unit detects this, it will run at a reduced speed as it is probable that humidity is not an issue in these months of the year.

4.0 Technical Data

4.4.4 Summer Boost

Summer Boost is a timer designed for warm summer evenings. The design intent for this mode is to encourage as many Air Changes per Hour (ACH) as possible, hence exhausting warm air and replacing it with cooler air from outside the dwelling to make it more comfortable.

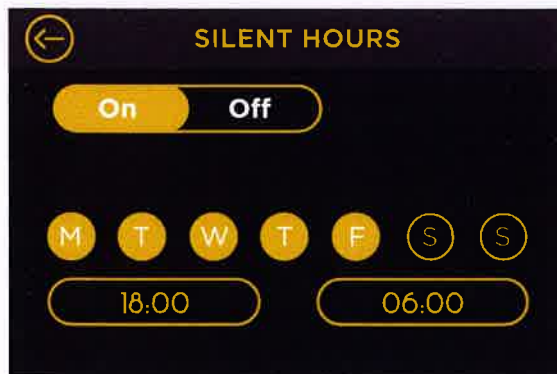


Example: The unit will switch to Purge mode, Monday-Friday between the hours of 18:00- 20:00

4.4.5 Silent Hours

Silent Hours allows the user to set a timer for the unit to run at a reduced fan speed of 20%. The design intent for this mode is to allow the user to set the unit to a low fan speed mode during sensitive hours, for example during the night when the user is trying to sleep.

Silent Hours takes priority over all other modes and timers with the exception of Frost Protection



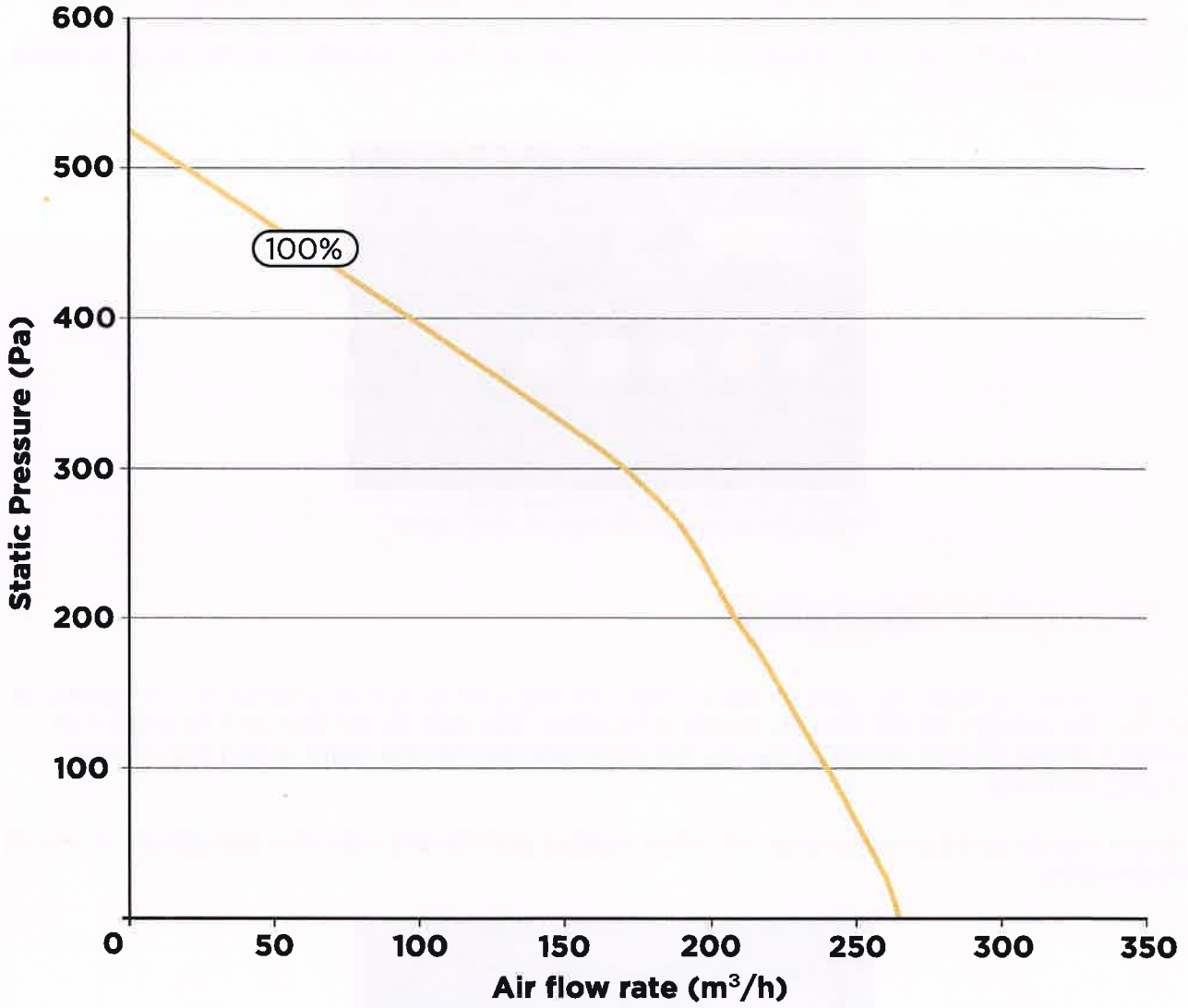
Example: The unit will run in silent hours, Monday-Friday between the hours of 18:00- 06:00

4.4.6 Frost Protection

During very cold weather, the Frost Protection program may automatically intervene to stop the formation of any ice inside the heat exchanger which could cause damage. The program will alter the fan speeds to draw warmer extract air over the heat exchanger to thaw out any ice build up.

4.0 Technical Data

4.5 Fan Curve



4.6 Acoustics

Ventilation Flow Rate (m³/h)	Static Pressure (Pa)	Supply Duct dB(A)	Extract Duct dB(A)	Exhaust Duct dB(A)	Outside Duct dB(A)	Case Radiated dB(A)
167	50	62.2	51.4	62.3	51.1	39.1

4.0

Technical Data

4.7

Default Settings

SETUP (←) (→)

Time (hh:mm)

Date (dd.mm.yy)

Port Allocation (SW1) **Purge** (↓)

Port Allocation (SW2) **Purge** (↓)

SILENT HOURS (←) (→)

On Off

Maximum Mode **SMART** (↓)

(M) (T) (W) (T) (F) (S) (S)

FAN FLOW RATE SETUP (←) (→)

Supply	Extract
<input type="text" value="200"/> m ³ /h	<input type="text" value="200"/> m ³ /h
MAX	MAX

SUMMER BOOST (←) (→)

On Off

Mode **Purge** (↓)

(M) (T) (W) (T) (F) (S) (S)

NORMAL MODE SETUP (←) (→)

Supply	Extract
<input type="text" value="50"/> %	<input type="text" value="50"/> %

SUMMER BYPASS SETUP (←) (→)

Indoor Temp (°C)

Outdoor Temp (°C)

BOOST MODE SETUP (←) (→)

Supply	Extract
<input type="text" value="85"/> %	<input type="text" value="85"/> %
Indoor Temp (°C) <input type="text" value="26"/>	
Relative Humidity (%) <input type="text" value="70"/>	
CO2 (ppm) <input type="text" value="1200"/>	

SMART MODE SETUP (←) (→)

Water Removal (L/Day) (↑) (↓)

Reset

Save Setup

5.0 Troubleshooting



IF UNIDENTIFIED NOISES OR ODOURS SHOULD ARISE AND IN CASE OF DEFORMATION OF ELEMENTS, VIBRATION, TERMINATION OF AIR SUPPLY/ EXTRACTION OR REDUCED SYSTEM PERFORMANCE, IMMEDIATELY DISCONNECT THE UNIT FROM POWER SUPPLY AND CONTACT THE SELLER FOR THE VENTILATION SYSTEM DIAGNOSTICS. DIAGNOSTICS MUST BE CARRIED OUT BY QUALIFIED SPECIALISTS

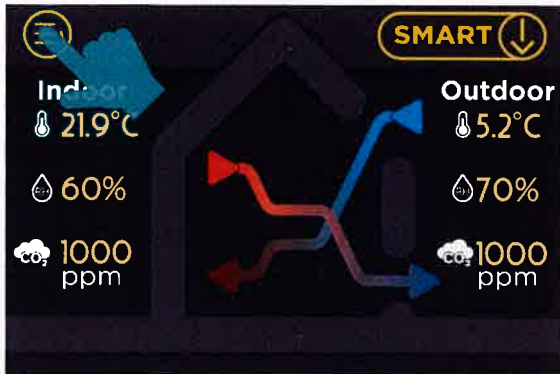
5.1 General Troubleshooting

Problem	Possible Reasons	Troubleshooting
The fan(s) does not start when the unit is on	No power supply	Ensure the power supply line is connected correctly otherwise troubleshoot the connection error
	The fan speeds are set to 0 % in the chosen mode	Change the fan speed inside of the commissioning menu
Low air flow	Low fan speed set	Set higher speed
	The filters and/or the and/or heat exchanger has a blockage	Clean or replace the filters, clean the fans and the heat exchanger
	Ventilation system elements (air ducts, diffusers, louver shutters, grilles) are blocked, damaged or clean	Clean or replace the ventilation system elements, such as air ducts, diffusers, louver shutters, grilles
Cold supply air	The extract filter is soiled	Clean or replace the filter/s
Noise, vibration	No anti-vibration connectors on the air duct pipe flanges	Install anti-vibration mounts/ connectors
	The fan or casing screws are loose	Tighten any loose screws
Water leakage	The drainage system is soiled, damaged or installed incorrectly	Clean the drain line. Check the drain line slope angle. Make sure the U-trap is filled with water and the drain pipes are frost protected

5.2 Error Codes

Description	Trigger	Secondary
Sensor 1 Fault	If supply sensor is activated and signal value is 0	Shut power to the unit
Sensor 2 Fault	If exhaust sensor is activated and signal value is 0	Shut power to the unit
No Communication	Communication lost between screen and unit	Show error message
Damper Fault	If minimum current value is not seen during operation	Show error message
High Temperature	If either temperature changes by more than 20°C within 20 seconds	Shut power to the unit
Change Filter	Service countdown timer has lapsed. Review user manual.	Show error message
Filter Service	Service countdown timer has lapsed. Review user manual.	Show error message
Service	Service countdown timer has lapsed. Review user manual.	Show error message

Periodically the unit requires maintenance to ensure the system is performing to the designed intent and to a level that provides adequate ventilation. The unit has been designed in a way that allows for easy maintenance



1. Tap the “Menu” icon located in the top left corner to navigate to the Menu page



When the red spanner icon appears, this shows that a service is required.



2. Tap the “Service” icon.



3. The service timers are visible inside of the “Service” menu.

Once the required service has been completed. The service timer needs to be reset.

To clear the error message, tap the fault message to reset

6.0

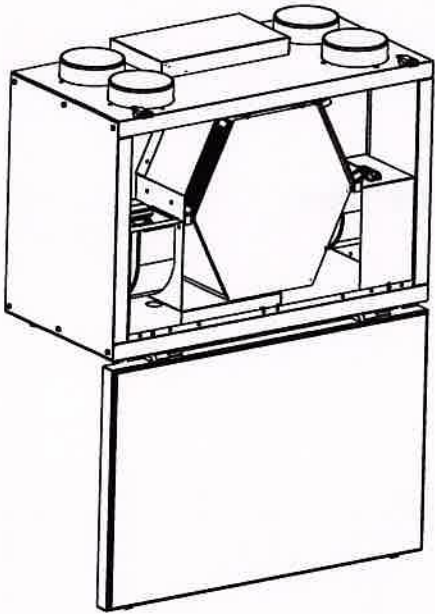
Maintenance

6.1

Filter Service

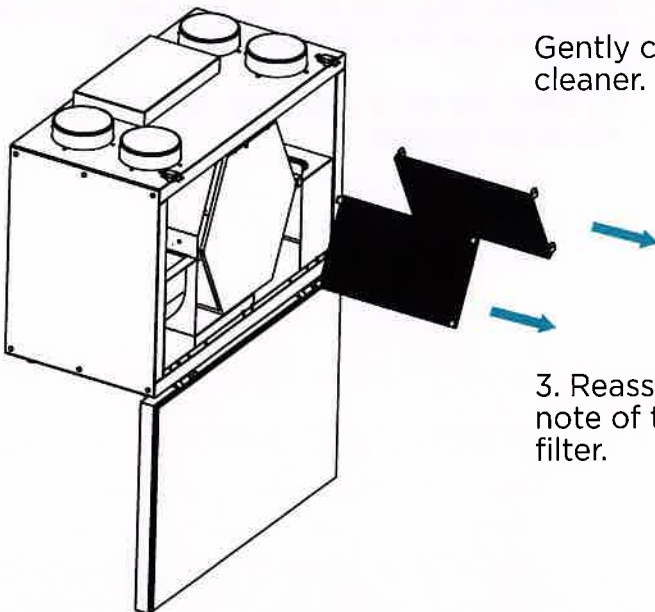


POWER OFF THE POWER SUPPLY PRIOR TO OPENING OR REMOVING THE FRONT PANEL FOR SERVICE/ MAINTENANCE



1. Unclasp the retaining clips and hinge the front panel down.

Note: The front panel is secured to the unit using lift off hinges. If access is limited, slide the front panel to the right and it will lift away. Store away during the service.



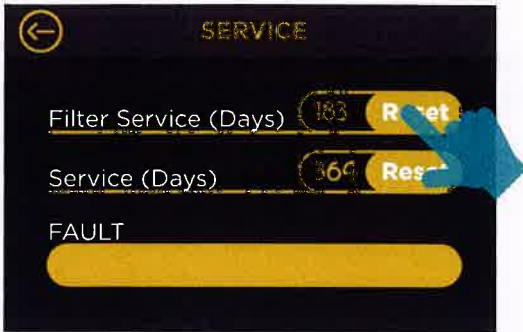
2. Remove both the supply and extract filter by gently pulling on the tabs of each filter.

Gently clean by tapping or using a vacuum cleaner.

3. Reassemble the filters back into the unit. Take note of the air flow direction printed on each filter.

6.0

Maintenance



11. Apply mains power to the unit

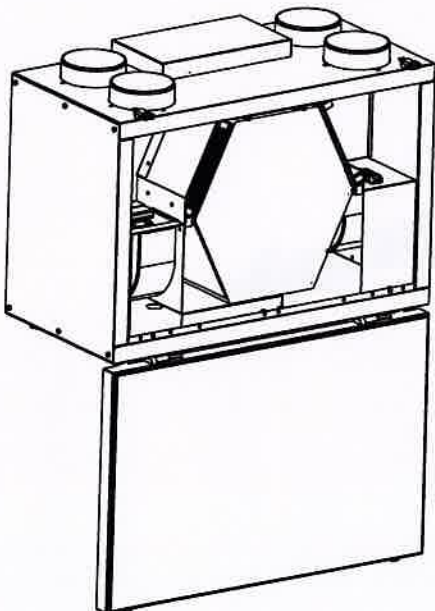
12. Inside of the “Service” screen, press “Reset” icon to restart the service timer.

6.2

Full Service

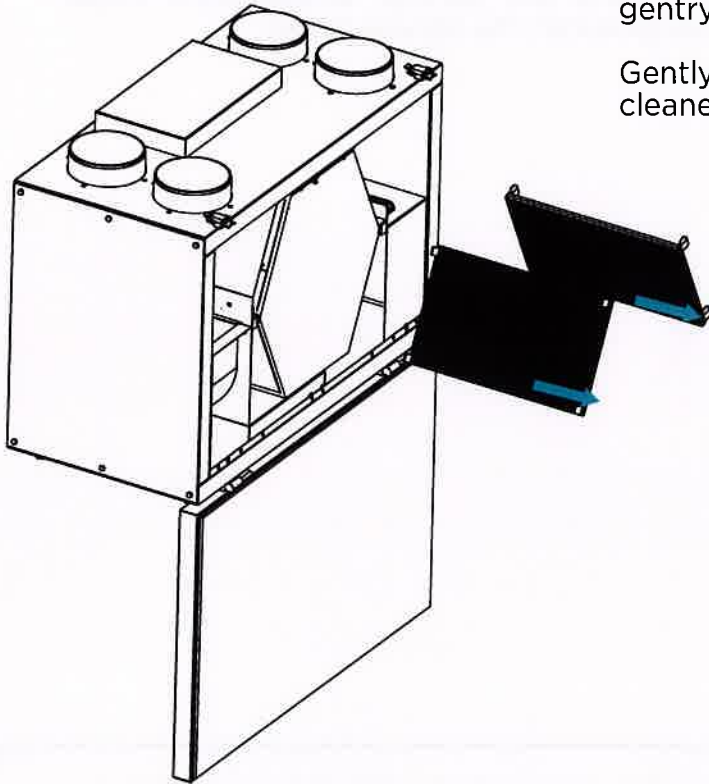


POWER OFF THE POWER SUPPLY PRIOR TO OPENING OR REMOVING THE FRONT PANEL FOR SERVICE/ MAINTENANCE



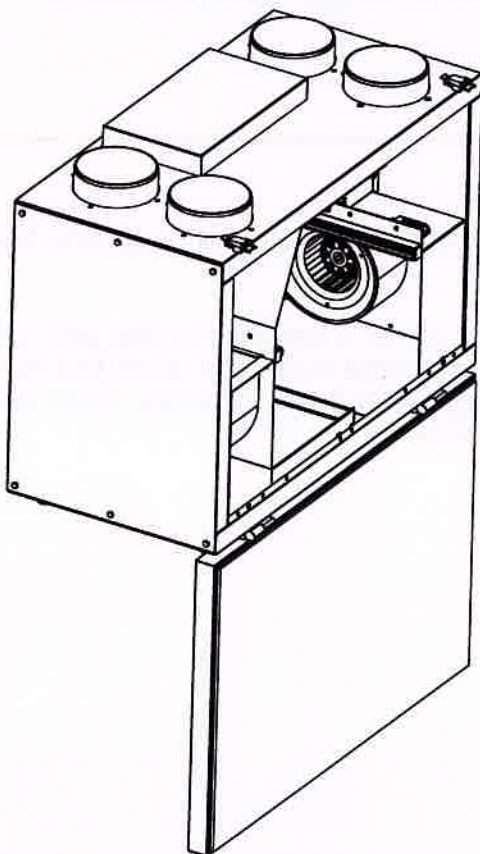
1. Unclasp the retaining clips and hinge the front panel down.

Note: The front panel is secured to the unit using lift off hinges. If access is limited, slide the front panel to the right and it will lift away. Store away during the service.



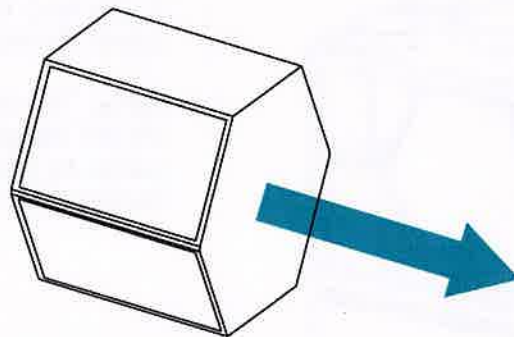
2. Remove both the supply and extract filter by gently pulling on the tabs of each filter.

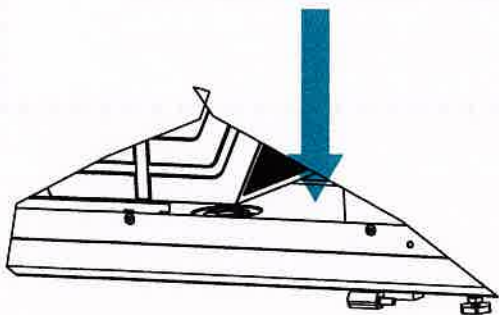
Gently clean by tapping or using a vacuum cleaner.



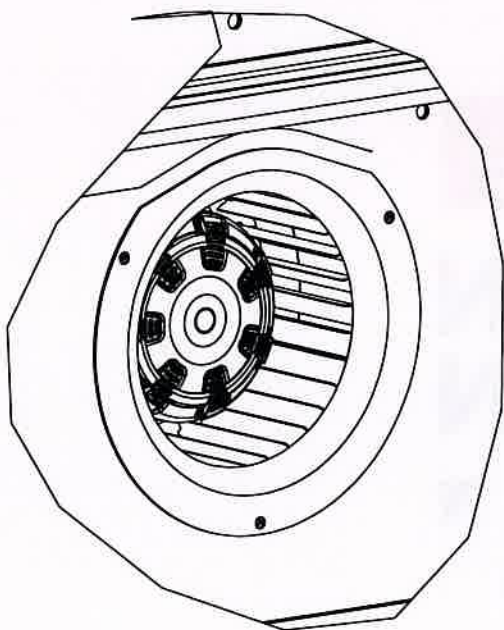
3. Remove the heat exchanger by gently pulling on the PP band.

4. Clean the heat exchanger using a mixture of warm water and a mild detergent.





5. Pour water into the drain pan ensuring that there are no obstructions and the water drains away



5. Inspect the fan motors for any debris or build up of dust on the impellor blades which could cause imbalances. Vacuum or clean if necessary

6. Inspect the inside of the unit and remove any debris or dust by cleaning or using a vacuum cleaner

7. Inspect all unit fixings and wall fastenings to ensure they are sufficiently tight and re-tighten if necessary

8. Inspect heat exchanger gasket and seals to ensure they are not crushed or have peeled away

8. Replace the heat exchanger ensuring it has been inserted in the correct orientation, the same as removal. Also ensure the heat exchanger seals are located correctly giving a good seal between the unit and heat exchanger

9. Insert new replacement filters ensuring the air flow direction printed is orientated towards the heat exchanger

10. Re-attach and close the removable front panel

11. Apply mains power to the unit


12. Inside of the "Service" screen, press "Reset" icon to restart the service timer.








This product should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice





 **ENERGY**


Ebac Ltd VA32RWH-GB


A⁺  


A 


B 


C 



D 

E 

F 

G 

39
dB 

242 m³/h
 

2016 1254/2014

ErP Product Data Fiche (EU1253/2014 & EU1254/2014)

Name:		Ebac Ltd		
Model ID (StockRef.)		VA32 - (RWH-GB), (LWH-GB)		
Climate Zone	SEC Value (kWh/m ² /a)	Energy Class (SEC)	The annual electricity consumption (AEC) (kWh)	The annual heating saved (AHS in kWh)
Average	-41.99	A	1.93	46.15
Cold	-80.74	A+	7.3	90.28
Warm	-17.16	E	1.48	20.87
Label Required? (Yes/No = Out of scope)		Yes		
Declared as: RVU or NRVU/UVU or BVU		RVU/BVU		
Speed Drive		Variable Speed		
Type HRS (Recuperative, Regenerative, None)		Recuperative		
Thermal Efficiency: [(%), NA (if none)]		86.2		
Max. Flow Rate (m ³ /h)		242		
Max. Power Input (W): (@Max. Flow Rate)		108		
LWA: (Sound Power Level (dB))		39		
Ref. Flow Rate (m ³ /s)		169		
Ref. Pressure Diff (Pa)		50		
SPI [W/(m ³ /h)]		0.26		
Control Factor; CTRL		0.65		
Control Typology		Local Demand Control		
Declared: -Max Internal & External Leakage Rates (%) for BVUs or carry over (for regenerative heat exchangers only), -&Ext. Leakage Rates (%) for Ducted UVUs;		<14% Internal, < 7% External		
Mixing Rate of Non-Ducted BVUs not intended to be equipped with one duct connection on either supply or extract air side;		N/A		
Position and description of visual filter warning for RVUs intended for use with filters, including text pointing out the importance of regular filter changes for performance and energy efficiency of the unit		www.ebac.com		
For UVUs (Instructions Install Regulated Supply/ Extract Grilles Facade)		N/A		
Internet Address (for Disassembly Instructions)		N/A		
Sensitivity p. Variation@=20/-20 Pa: for Non-Ducted VUs)		N/A		
Air Tightness-ID/OD-(m ³ /h) (for Non-Ducted VUs)		N/A		