

Section B/BC/BE

aurastat®	and	auramode ⁱ	® comi	natible	HRV	units
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HRV10 <i>Q Plus</i> ECO	TP480B
HRV10.25 Q Plus ECO	TP482B
HRV10M Q Plus ECO	TP481B
HRV10.25M Q Plus ECO	TP483B

Cold Climate HRV units

HRV10 Q Plus ECO	TP480BC
HRV10.25 Q Plus ECO	TP482BC
HRV10M Q Plus ECO	TP481BC
HRV10.25M Q Plus ECO	TP483BC
Enthalpy Equipped Cold Climate HRV units	
HRV10.25 Q Plus ECO Enthalpy	TP482BE

Heat Recovery Ventilation Units

Compatible with HMB units

TP440HMB

TP442HMB

TP441HMB

TP443HMB

TP518 auralite®

LED Status Indicator

Product Manual

Section HMB auralite® compatible HRV units HRV10 Q Plus ECO

HRV10.25 Q Plus ECO

HRV10.25M Q Plus ECO

HRV10M Q Plus ECO













Important Information

Important: read these instructions fully before the installation of this appliance

Warnings, Safety Information and Guidance

- 1. Installation of the appliance and accessories must be carried out by a qualified and suitable competent person and be carried out in clean, dry conditions where dust and humidity are at minimal levels.
- 2. This manual covers the installation of the Heat Recovery Ventilation (HRV) unit
- 3. All wiring must conform to current I.E.E. Wiring Regulations and all applicable standards and Building Regulations.
- 4. Inspect the appliance and electrical supply cord. If the supply cord is damaged, it must be replaced by the manufacturer, their service agent or similarly qualified persons in order to avoid a hazard.
- 5. The unit is supplied with a mains rated 3 core flexible cord (PVC sheathed, brown, blue and green/yellow 0.75mm²).
- 6. The appliance must be connected to a local double pole isolation switch with a contact separation of at least 3mm.
- 7. The appliance must be earthed.
- 8. HRV10 & 10M Q Plus suitable for 230V ~ 50/60Hz single phase with a fuse rating of 3A.
- 9. HRV10.25 & 10.25M Q Plus suitable for 230V \sim 50/60Hz single phase with a fuse rating of 5A.
- 10. auralite® & aurastat®, control & communication cable access is via the fitted cable gland(s) which are suitable for Ø3-6mm cable.
- 11. auralite® & aurastat® control & communication cable Unshielded 4 Core 18-24AWG Stranded, Tinned Copper.
- 12. Control & communication cables should not be placed within 50mm or on the same metal cable tray as any 230V~ lighting or power cables.
- 13. Ensure all cable glands are fully tightened.
- 14. The unit must be stored in a clean and dry environment. Do not install the 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,
- Ambient temperatures above 40°C or below -5°C,
- Humidity levels above 90% or is a wet environment.
- 15. The appliance is not suitable for installation to the exterior of the dwelling.
- 16. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. 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.
- 17. Ensure that external grilles are located away from any flue outlet, in accordance with relevant Building Regulations.
- 18. The unit must not be connected to a tumble dryer or a cooker hood.
- 19. Precautions must be taken to avoid the back-flow of gases into the room from an open flue appliance.
- 20. Ensure all ducting, condensate drain and associated pipe work is free from debris and blockages before switching on the unit



Explanation of symbols on the appliance.



Read instruction Manual.



Risk of Electric Shock.



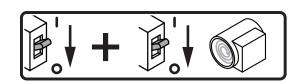
General hazard safety alert.



Disconnect the mains supply before removing this cover.



Wait until all machine components have completely stopped before touching them.



Disconnect the mains supply before removing this cover.

&

Before obtaining access to terminals or removing this cover, all supply circuits must be disconnected.

Titon Recommend:

- 1. A short piece of flexible ducting, approximately 200mm long is used to connect the unit to the ducting system.
- 2. Any flexible ducting used must be pulled taut.
- 3. A minimum distance of 200mm between the HRV unit and any sharp bends in duct work.
- 4. Ducting should be insulated where it passes through unheated areas and voids with the equivalent of at least 25 mm of a material having a thermal conductivity of ≤0.04 W/(m.K) to reduce the possibility of condensation forming. Where a duct extends externally above roof level the section above the roof should be insulated or a condensate trap should be fitted just below roof level.
- 5. Ducts within the building heated envelope between the external terminals and the unit's From Atmosphere and To Atmosphere ports should be insulated and wrapped additionally with a vapour barrier outside the insulation.
- 6. Where ducts pass through fire barriers, they must be appropriately fire stopped in accordance with the requirements of Building Regulations.
- 7. A ducting condensate drain must be fitted to vertical To Atmosphere duct work.
- 8. Ducting must be installed in such a way that resistance to airflow is minimised.
- 9. Ducting connected to the From Atmosphere & To Atmosphere ports, must be to/from the external air outside the building envelope.
- 10. Duct joints to the unit's duct ports must be fixed using a method that ensures a long term seal is achieved. If using a short piece of flexible ducting secure using a hose clamp, do not over tighten.
- 11. A minimum distance of 2m exists between the external supply and exhaust terminals.





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Product Information

The HRVs are Mechanical Ventilation with Heat Recovery (MVHR) units. They are designed for the energy efficient ventilation of dwellings. The units are designed for continuous ventilation, exhausting stale moist air from bathrooms, toilets, kitchen and utility rooms. As the stale air is extracted, the unit's heat exchanger transfers heat, which would have been wasted, to the fresh air being supplied to the bedrooms and living rooms.

Packaging Contents

- 1 x HRV unit.
- 1 x Mounting Bracket.
- 1 x Ø40 x 12mm Condensate Drain worm gear hose clamp.
- 4 x Port Cover 150mm to 125 adapters, supplied packed on Duct Ports.
- 1 x This Product Manual.
- EuP Documentation.

Any shortages or damage must be immediately reported to the supplier.



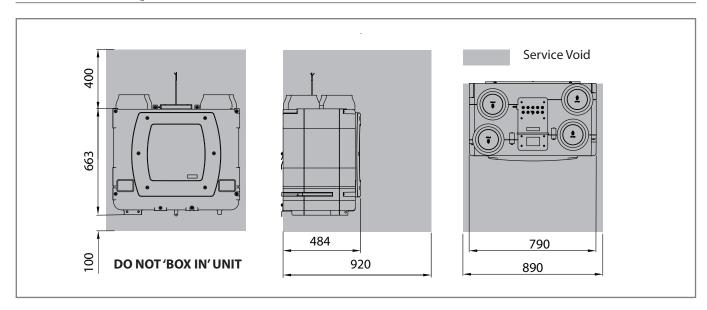




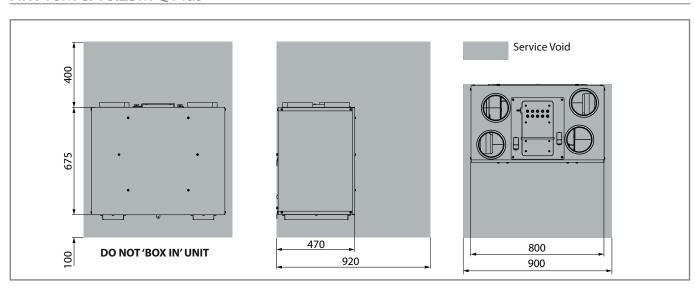


Dimensions

HRV10 & 10.25 Q Plus



HRV10M & 10.25M *Q Plus*







Installation

HRV10, 10M, 10.25 10.25M Q Plus

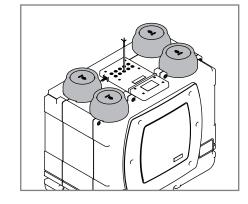
Read and observe the guidance & safety notices listed in Warnings, Safety Information and Guidance.

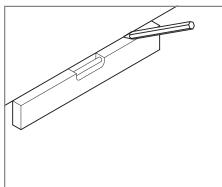
Do not remove the Port Covers until connecting ducting. Port Covers are fitted to prevent debris falling into the unit and causing blockages and damage:

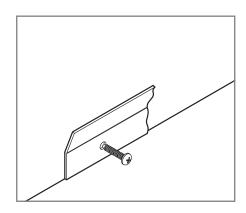
- The Titon HRVQ Plus is designed to be mounted on a wall or similar. The mounting surface must be sufficiently strong to support the unit.
- Consider the positioning of electrical services and the Condensate Drain when siting the unit.
- Ensure there is sufficient access around the HRV Q Plus for future maintenance.
- Do not 'box-in' the unit making access to the unit difficult for maintenance and repair.

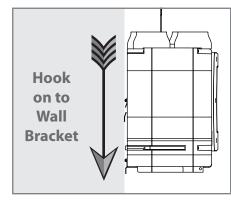
The Unit MUST be mounted plumb and level front to back and side to side.

- 1. Mark a horizontal line on the wall using a spirit level. This line will be approximately 330mm below the location of the top face of the unit when fitted (excluding duct ports).
- Use the Mounting Brackets as a template to mark the three fixing hole centres.
- 3. Drill holes for fixings, always use a fixing suited to the wall type.
- 4. Fix the Mounting Bracket to the wall ensuring the interlocking side is at the top, as shown. Mount the unit by locating the two Mounting Brackets together. Ensure a positive location is made between the two Mounting Brackets.
- 5. The Safety Bracket MUST be used. Rotate Safety Bracket into position. Drill hole for Safety Bracket, always use a fixing suited to the wall type. Packing to be used as required behind the Safety Bracket to ensure unit is level front to back.















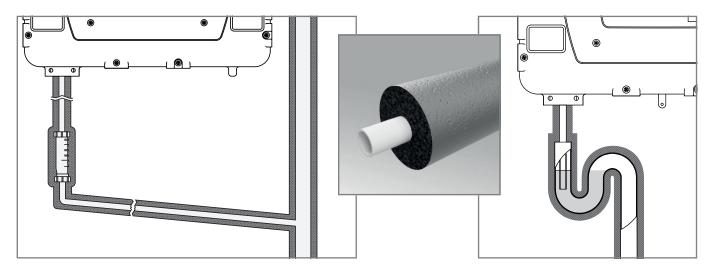


Condensate Drain

The unit's Condensation Drain Pipe must be fitted and connected to the dwelling's foul water drainage system in accordance with the relevant building regulations.

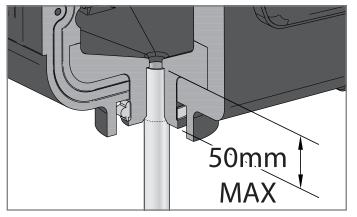
The Condensate Drain:

- Is attached via the Condensation Drain Socket on the base of the unit.
- Must incorporate a suitable trap, which must act as an air lock, ie must be sealed.
- Must be adequately secured along it's length.
- Must be insulated if any part of the pipe passes through a unheated void or a space which could fall below 10°C.
- Must be installed to have a minimum 5° fall from the unit.
- Titon recommend the use of a diaphragm type waste valve, in place of a conventional 'wet' trap which could dry out; Such as a 'Hepworth HepvO® Hygienic self sealing plastic waste valve' recommended as an alternative to traditional U-Traps (BRE certificate no. 042/97).



Fitting

- 1. HRVxxM Remove the left hand cover from the base of the unit, retain screws & washers.
- 2. **All units** Fit hose clamp around the Condensate Drain Socket, ensuring it is pushed over the lip and aligned with a screwdriver access hole to enable tightening of the hose clamp.
- 3. All units Insert 22mm O/D PVC pipe into Condensate Drain Socket up to the stop, no more than 50mm of pipe should be inserted into the Condensate Drain Socket.
- 4. Securely Hand tighten the hose clip. **Do not over tighten.**
- 5. HRVxxM Replace the cover on the base of the unit, ensure all screws and washers are reused.









Ducting Connections

Read and observe the Warnings, Safety Information and Guidance.

The HRV unit has a labels with the icons indicating which port is which.

It is very important that ducting is connected to the correct ports in line with the icons below.



EXTRACT FROM DWELLING - This duct port is connected to the ducting that carries waste air from the 'Wet Rooms' to the HRV unit.



TO ATMOSPHERE - This duct port is connected to the ducting that carries the waste air to outdoors from the HRV unit.



SUPPLY TO DWELLING - This duct port is connected to the ducting that carries the fresh warmed air to the habitable rooms from the HRV unit.



FROM ATMOSPHERE - This duct port is connected to the ducting that carries fresh outdoor air to the HRV unit.

Wiring Connections Access

All wiring must conform to current I.E.E. Wiring Regulations and all applicable national standards and Building Regulations. Read and observe the Warnings, Safety Information and Guidance.

The electronics compartment is mounted on top of the unit. The compartment has two removable lids, front & rear. The front lid must always be removed before the rear lid; both lids are fixed by four screws. All wiring must be routed into the electronics compartment via the knock-outs and using cable glands or similar fitted to the rear lid.





Section TPxxxHMB Product Overview

Controls & Features

The auralite HRV *Q Plus* units are controllable by various volt free switches and sensors. The following describes the controls and features of the auralite HRV *Q Plus* units and how they are controlled. Ensure all controls are adequately labelled, indicating their function clearly.

Filter Covers

The units are fitted with removable filter covers on the front panel.

auralite®

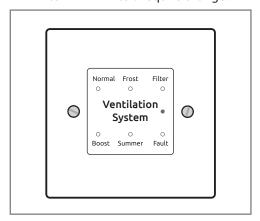
auralite® is available separately as an optional add-on. auralite® is a low voltage hard wired remote LED ventilation system status indicator, designed to fit a standard UK patress or recessed backbox. The indicator has six LEDs which display:-

Normal Solid light - Unit is running at Continuous Speed.

Flashing light - Unit is running at Setback Speed.

Frost Unit is in Automatic Frost Protection mode.

• Filter Filters require change.



auralite® Indicator Panel

Boost Solid light - Unit is running at Boost Speed.

Flashing light Boost Alert is active.

Summer Unit is in Summer bypass.

Fault Unit has a fault - Contact the installer.

Auto Setback Speed

Setback Speed is used to reduce ventilation rates. Setback Speed is automatically set at the mid point between minimum possible Continuous Speed and the selected Continuous Speed. The Setback Speed can be enabled by connection of a volt free one-way switch, or combined with the Boost Speed with the 3 position switch TP 508.

Continuous Speed

Continuous Speed is the normal continuous extract and supply air flow running speed of the units.

Boost Speed with Overrun Timer

Boost Speed increases the extract and supply air flow. Boost Speed is configured with Step-less independent fan controls and includes an Overrun Timer variable between 0 and 60 minutes. The Boost Speed can be triggered by any device which provides a volt free one-way switch, such as a PIR, thermostat, humidistat or a standard one-way switch. If the unit is left Boost (latching switch) for longer than 2 hours the Overrun Timer is disabled meaning the HRV will return to Continuous Speed as soon as the switch holding the unit in Boost is released.







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auralite® Boost Alert

Boost Alert is a timer designed to prevent the HRV being inadvertently left in Boost for long periods of time. Once the HRV is placed in Boost the timer is started and after 2 hours Boost Alert will be activated. This is indicated by the Boost LED on the auralite® Indicator Panel flashing. Once Boost Alert has been activated the Overrun Timer is disabled meaning the HRV will return to Continuous Speed as soon as the switch holding the unit in Boost is released.

Summer Bypass

Summer Bypass is designed to operate during hot periods where fresh air can be vented straight into the property without being preheated by the extracted stale air. Summer Bypass operation is automatically controlled. The Summer Bypass mechanism diverts the stale air being extracted from the dwelling around the heat cell so that its heat energy is not transferred to the fresh air being supplied to the property.

SUMMERboost®

An optional SUMMERboost® facility is available that allows both the supply and extract fans to run at full speed whenever the Summer Bypass is activated.

By default SUMMERboost® is disabled by a Link Wire, see Wiring Diagrams.

Removal of the link wire will enable SUMMERboost®.

When SUMMERboost® is trigged by Summer Bypass the increased fan speed can be prevented either Manually or Automatically.

Manual - This is by means of a volt-free switch wired directly into the controller PCB.

Automatic - This is by means of a dedicated wall mounted room thermostat. SUMMERboost® will only operate when the temperature has exceeded the thermostat setting. Should the room temperature fall below the thermostat setting, then SUMMERboost® will not operate.

Automatic Frost Protection

During very cold weather, Automatic Frost Protection will detect temperatures that could form ice inside the unit. It will reduce the supply ventilation rate to prevent ice build up within the heat cell. Automatic Frost Protection reduces the flow rate of cold air, thus allowing the warmer stale air to raise the temperature within the heat cell to such a level that prevents the formation of ice. As internal temperatures rise Automatic Frost Protection will increase the supply ventilation flow rate back to the commissioned settings.

Integrated Humidity Sensor

Units are fitted with an Integrated Humidity Sensor. This continuously monitors the relative humidity (RH) of the extracted air and triggers Boost Speed when the relative humidity rises over the set threshold. The Humidity Sensor's trigger point is variable from 55%RH to 85%RH and is configured using step-less independent potentiometer.







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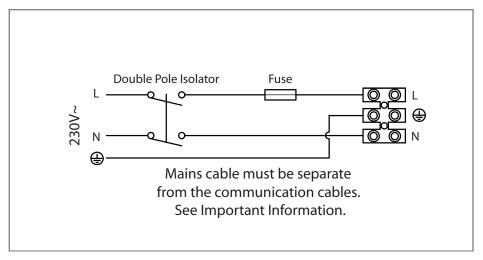




TPxxxHMB Units ONLY

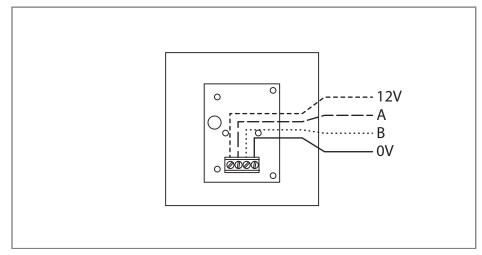
Wiring Diagrams

Supply

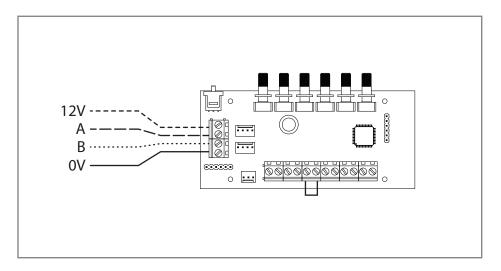


Supply wiring diagram 230V~ ref EE141

<u>auralite®</u>



auralite® connection at Indicator ref EE180



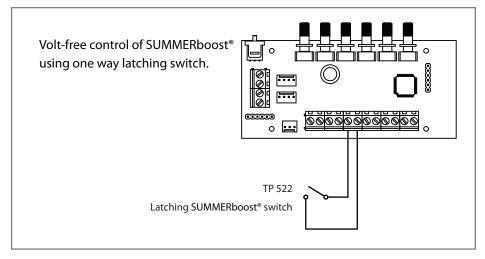
auralite® connection at Unit ref EE180



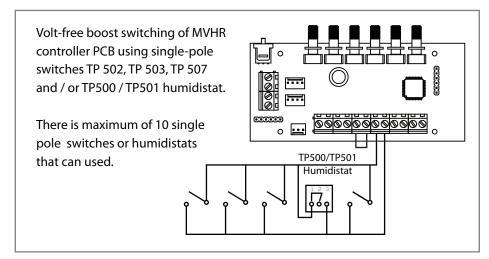


TPxxxHMB Units ONLY

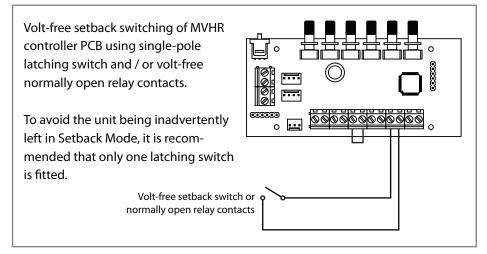
Switching & Controls



SUMMERboost® switch connection ref EE178



Boost switching and Humidistat connection ref EE173



Setback Mode switching and connection ref EE177

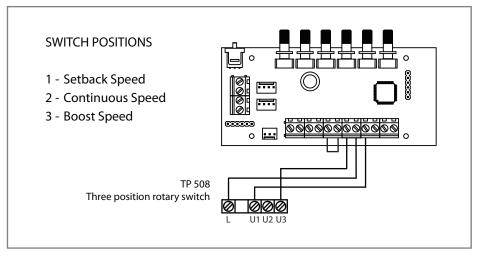




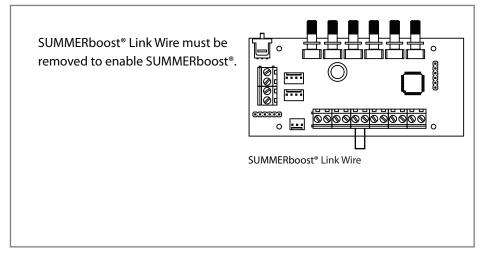




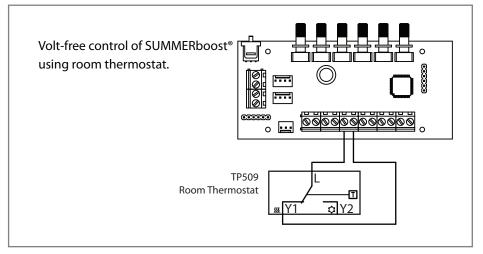
TPxxxHMB Units ONLY



Three Position Rotary Switch TP 508 switching and connection ref EE175



SUMMERboost® Link Wire



SUMMERboost® thermostat connection ref EE178









Commissioning Units TPxxxHMB

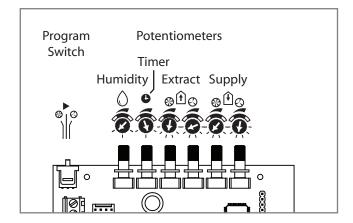
Controls

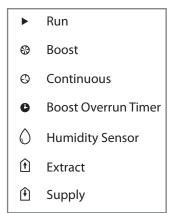
The fan speeds of the Titon HRV *Q Plus* will require adjustment to ensure the flow rates achieved provide adequate ventilation. The Titon HRV *Q Plus* has 2 standard fan speed settings Continuous Speed and Boost Speed.

The Continuous Speed and Boost Speed are programmed by placing the controller into Program Mode via the Program/Run Switch and changing the position of rotary potentiometers.

When applying power for the first time, the unit can take up to four minutes to start operating.

Prior to the first commission set Continuous Speed potentiometers to minimum and Boost Speed potentiometers to maximum or reset the controller.





Control Identification

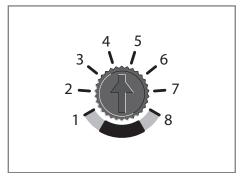
Control Parameters

- The Boost Speed cannot be set lower than the Continuous Speed.
- The Continuous Speed cannot be set higher than the Boost Speed.
- All switching inputs are disabled when the Program/Run Switch is in Continuous or Boost positions.
- Speed control potentiometers are disabled when the Program/Run switch is in centre Run position.

For the commissioning settings to be stored the unit needs to be powered up.

Continuous Supply & Extract Speeds:

- 1. Move Program/Run Switch to Continuous position.
- 2. Rotate supply fan Continuous Speed adjustment potentiometer to achieve required supply continuous air flow.
- 3. Rotate extract fan Continuous Speed adjustment potentiometer to achieve required extract continuous air flow.
- 4. Return Program/Run Switch to centre position to exit commissioning.



Commissioning Pot positions

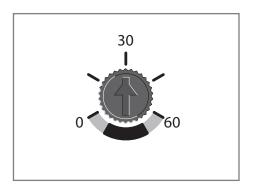
Boost Supply & Extract Speeds:

- 1. Move Program/ Run Switch to Boost position.
- 2. Rotate supply fan Boost Speed adjustment potentiometer to achieve required supply boost air flow.
- 3. Rotate extract fan Boost Speed adjustment potentiometer to achieve required extract boost air flow.
- 4. Return Program/Run Switch to centre position to exit commissioning.



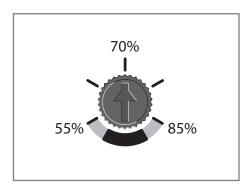


Boost Overrun



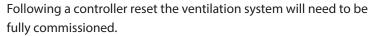
Boost Overrun Timer is variable between 0 and 60 minutes. Rotate potentiometer to change overrun time. This can be done at any time.

Humidity Sensor



The Humidity Sensor's trigger point is variable from 55%RH to 85%RH. Rotate potentiometer to change trigger point. Humidity Sensor adjustment can be done at any time without the need to move the Program / Run Header Link.

Controller Reset



The procedure to reset the Titon HRV *Q Plus* controller is a simple three step operation. The unit will need to be powered up during the reset procedure.

- 1. Rotate the Supply and Extract Continuous Speed potentiometers fully anti-clockwise.
- Rotate Supply and Extract Boost Speed potentiometers fully clockwise move the Run/Program Switch from the Run
 position to the Continuous position, from the Continuous position to the Boost position and back to the Run position.
 To ensure that the reset switch movements are registered by the controller wait two seconds between each switch
 movement. Controller reset is now complete.

Hardware Reset

Certain conditions (repeated supply interruptions etc.) can activate the automatic motor protection mode. Whereby the fan motors are prevented from operating. This requires a hardware reset to return

the unit to normal operating mode, to achieve this power to the unit should be switched off for 5 minutes, restoring the power after this time will reset the hardware of both the motor and PCB. Commissioning settings are not affected during a hardware reset.



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Section TPxxxB/BC/BE Product Overview

Control & Features

The TPxxx B and BE units are programmable with the aurastat® or auramode® controllers.

Enthalpy humidity-recovery

Units with the E suffix use an enthalpy heat recovery core that recovers some of the humidity as well as heat.

Boost Overrun Timer

A programmable timer that controls the time the HRV remains at Boost Speed after all boost switches have been released.

Boost Delay Timer

A programmable timer which can be used to delay the HRV running at Boost Speed after a boost switch has been activated.

Boost Inhibit

A programmed time period that prevents the HRV switching into Boost Speed or SUMMERboost*.

Internal Humidity Sensor

The HRV has a relative humidity (RH) sensor. The RH sensor can be programmed to switch the HRV into Boost Speed.

Filter Change Alert

The unit can display a filter warning via a connected controller

4 x Fan Speeds

The units have 4 programmable speed settings. All speeds allow independent speed setting of both supply and extract ventilation rates

Summer Mode

Summer Mode operates by slowing or stopping the supply fan. This reduces the supply of From Atmosphere air to the dwelling. Summer Mode is triggered automatically or via a Volt Free input. Summer Mode must not be enabled or installed in dwellings where open flue combustion appliances are used.

SUMMERboost®

SUMMERboost® allows both the supply and extract fans to run at full speed whenever the Summer Bypass is activated. By default SUMMERboost® is enabled.

Summer By Pass

Summer Bypass is designed to operate during hot periods where fresh air can be vented straight into the property without being preheated by the extracted stale air. Summer Bypass operation is automatically controlled. The Summer Bypass mechanism diverts the stale air being extracted from the dwelling around the heat cell so that its heat energy is not transferred to the fresh air being supplied to the dwelling.

Duct Heater Control

To maintain ventilation flow rates where prolonged periods of very low temperatures occur, the facility for the control of an electrically powered Duct Heater is provided, MAX 1800W. The Duct Heater is placed in-line between the outside supply vent and the From Atmosphere terminal on the HRV. In these applications, the heater is used to pre-warm the outside fresh air supply before it enters the HRV.

2 x Proportional Sensor Inputs

Enables connection of environmental sensors to the HRV which can be used to proportionally control HRV fan speeds.

3 x Volt Free Inputs

Enables the connection of single pole momentary switches, latching switches or normally open relay contacts to the HRV. These can be used to switch between fan speeds or control SUMMERboost® and Summer Mode.

2 x Live Switch Inputs

These inputs are used to switch the HRV to Boost Speed via a switched live input.

Frost Protection Program

During very cold weather, the Frost Protection Program will detect temperatures that could cause ice to form inside the unit. It will reduce or stop the supply ventilation rate, thus allowing the warmer stale air to raise the temperature within the unit cell to such a level that prevents the formation of ice. As temperatures rise the Frost Protection Program will increase the supply ventilation flow rate back to the commissioned settings.

Multiple Internal Temperature Sensors

The unit measures From Atmosphere and To Atmosphere air temperatures in real-time. Additionally the temperature of the heat cell is monitored.



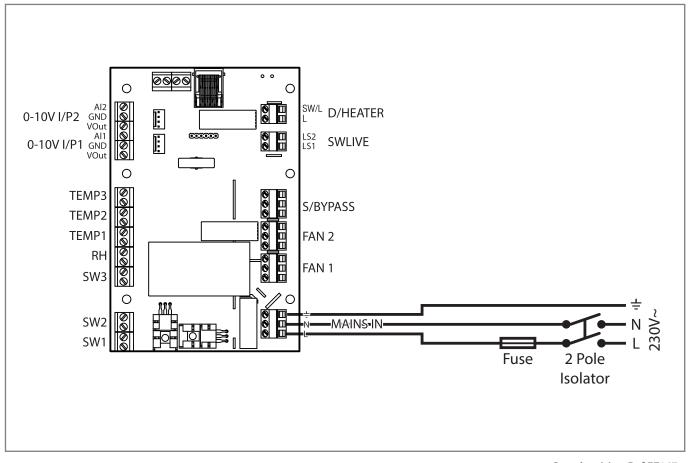


Supply Air Comfort Control

The Cold Climate units TPxxx BC & BE have additional fan speed control. If the supply to dwelling air temperature falls below 10°C the unit will limit the maximum speed to 45%. Additionally, if the supply to dwelling air temperature falls below 6°C the unit will stop both fans.

Wiring Diagrams

Supply

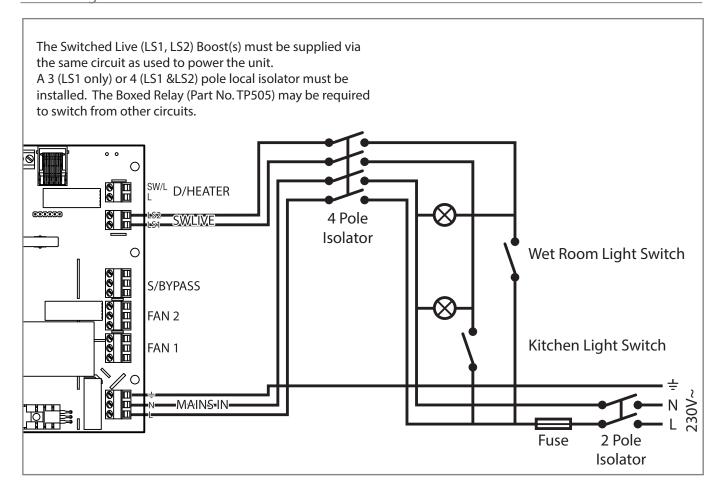


Supply wiring Ref EE167





Switching & Controls

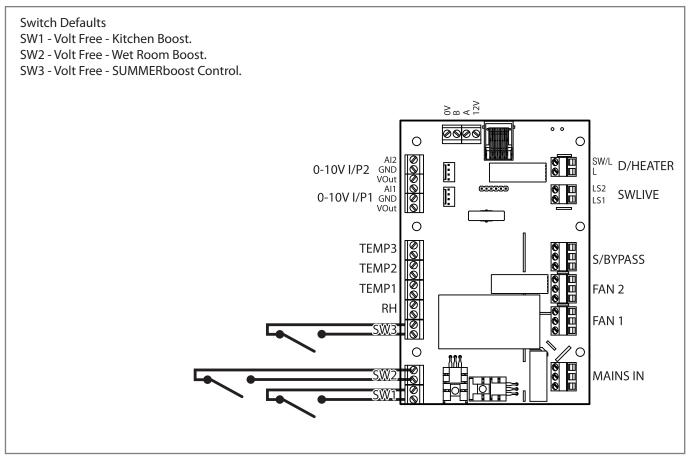




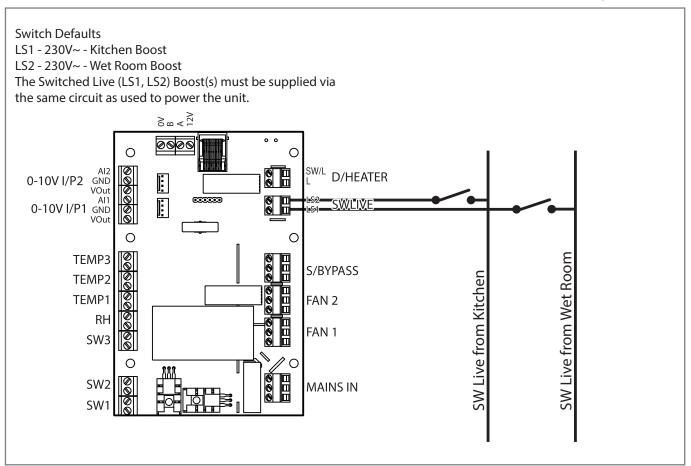








Volt Free switch inputs Ref EE163



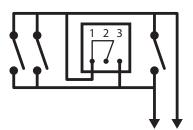






External Sensors

Any of these switch arrangements can be used in switch inputs SW1 to SW3 depending on their configuration and the type of MVHR.

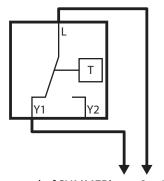


Volt-free boost switching of MVHR using single-pole switches TP502, TP503, TP507 and / or TP500/TP501 Humidistat.

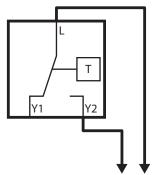
There is a maximum of 10 single pole switches or Humidistats that can be used.



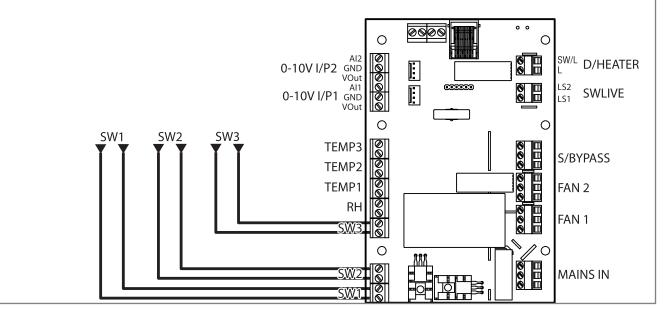
TP506 Latching Summer Mode switch / TP522 Latching SUMMERboost® switch.



Volt-free control of SUMMERboost® using room thermostat. TP509 Room Thermostat



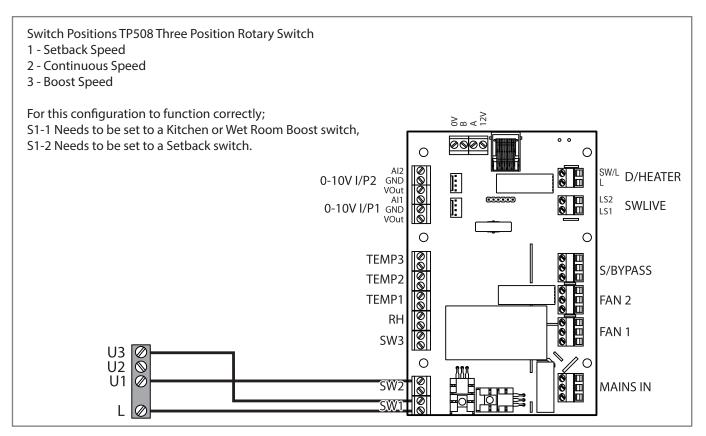
Volt-free activation of Summer Mode using room thermostat. TP509 Room Thermostat



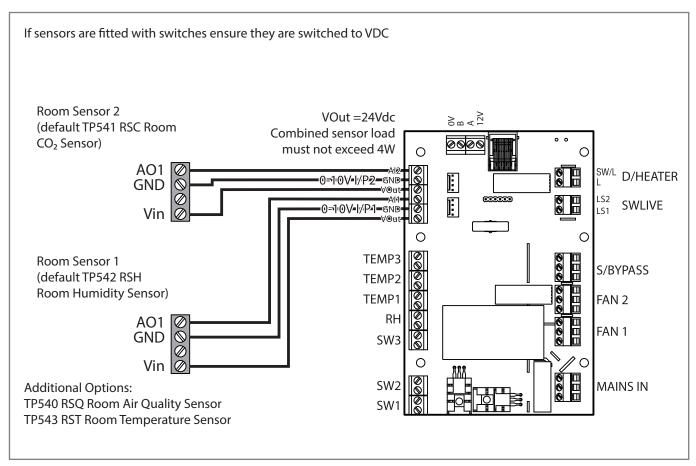
Connections Ref EE165







3-Way rotary switch Ref EE162



lacktriangle

0-10V Sensor connections Ref EE161



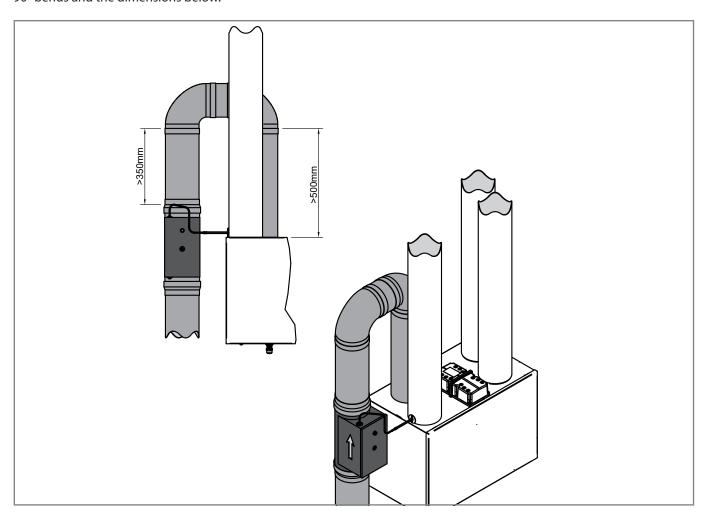


Duct Heater

If a Duct Heater is required it must be fitted to the From Atmosphere ducting.

Ducting Layout

To ensure From Atmosphere air is thoroughly mixed with air heated by the duct heater; ducting must be fitted using two 90° bends and the dimensions below.

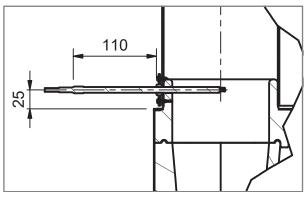


Duct heater to be installed in accordance with the manufacturers instructions

Sensor Installation

The TJ-K10K sensor is positioned in the To Atmosphere (Stale air Out) duct.

- 1. An Ø 8.0 mm hole is drilled through the duct and the EPP of the HRV unit in the position shown on the diagram.
- 2. The sensor is secured to the ducting with two Ø3.0mm self-tapping screws (must be suitable for the ducting material), using the two holes in the flange on the sensor.
- 3. Apply a suitable sealant around the outside diameter of the flange to seal around the duct.
- 4. The sensor position may need adjustment to ensure that the temperature of the airflow at the centre of the duct is measured. See diagram for positioning dimensions.



Location of Probe





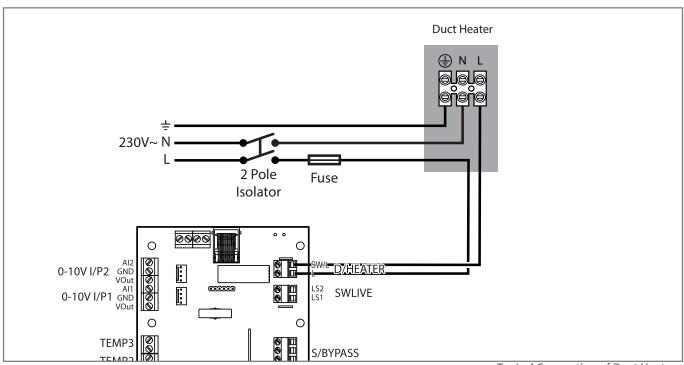


Duct Heater Set Point

With the TJK10K sensor positioned as shown, the duct heater set point must be set to 6° C using the potentiometer on the front electrical cover of the duct heater.

Wiring

Installer to ensure correct rated Fuse is fitted and used.







Commissioning Units TPxxxB/BC/BE

HRV Controller Options

Once installation of the ducting and HRV is complete the ventilation system will need to be commissioned and setup using a compatible Titon display interface unit

The Titon display interface units are:

aurastat V* aurastat VT * auramode aura - t

The HRVs are delivered with default factory settings these are detailed below. The information in the table supersedes any default settings detailed in any other Product Manual.

Configurable Item		B models	BC & BE models
SPEED 1 Setback	Supply	18 %	25 %
	Extract	18 %	25 %
SPEED 2 Continous	Supply	40 %	40 %
	Extract	40 %	40 %
SPEED 3 Boost	Supply	70 %	70 %
	Extract	70 %	70 %
SPEED 4	Supply	100 %	100 %
SUMMERboost®	Extract	100 %	100 %
Boost Overrun	Kitchen	15 mins	15 mins
	Wet Room	15 mins	15 mins
Boost Delay Timer	Kitchen	0 mins	0 mins
	Wet Room	0 mins	0 mins
Boost Inhibit On/Off		Off	Off
Boost Inhibit Times	Start	23:00	23:00
	End	05:00	05:00
Filter Change Interval		12 months	12 months
Boost Overrun Timer	Kitchen	15 mins	15 mins
	Wet Room	15 mins	15 mins
Boost Delay Timer		0 mins	0 mins
Boost Alert On/Off		On	On
Boost Alert Timer		2 hours	2 hours
Summer Mode Enable/Disable		Disable	Disable
Summer Mode	Extract	22 °C	22 °C
	Supply	18 ℃	18 ℃
	Supply Fan Speed	0 %	0 %
Summer By Pass Enable/Disable		Enable	Enable
Summer By Pass	Extract	25 °C	25 ℃
	Supply	18 °C	18 ℃
		I	





^{*} aurastat V and aurastat VT are not recomended for use with TPxxx BC/BE models.



Configurable Item	B models	BC & BE models
SUMMERboost®	Enable	Enable
Duct Heater Enable/ Disable	Disable	Enabled
Duct Heater	Frost	Frost
Hyst	1 °C	1 ℃
Duct Heater threshold	4 °C	4 °C
Room Sensor 1		
Set point Low	0060	0060
Set point High	0070	0070
Room Sensor 2		
Set point Low	0800	0800
Set point High	1400	1400
Internal Humidity Boost	Off	On
%RH Boost Set point	70 %	70 %
%RH Boost Overrun timer	15 mins	15 mins
%RH Boost Hysterisis	1 %	1 %
Frost set point	2 °C	2 ℃
Frost Protection Mode	Off	Off
Room Sensor 1 Enable/Disable	Disable	Disable
Room Sensor Type	%RH	%RH
Sensor Min Point 0V	0020	0020
Sensor Max Point 10V	0090	0090
Room Sensor 2 Enable/Disable	Disable	Disable
Room Sensor Type	CO ₂	CO ₂
Sensor Min Point 0V	 0450	0450
Sensor Max Ponit 10V	1850	1850
Switch Input 1	 Kitchen	Kitchen
Switch Input 2	Wet Room	Wet Room
Switch Input 3	SUMMERboost®	SUMMERboost®
Live Switch 1 (LS1)	Kitchen	Kitchen
Live Switch 2 (LS2)	Wet Room	Wet Room

If the BC or BE models are factory reset via the aurastat V or aurastst VT user non configurable settings and default settings (above) will revert to the B model values; The unit will require reprogramming by the manufacturer to the correct BC & BE settings to maintain correct function as Cold Climate units.







Maintenance

Routine Maintenance

All ventilation units require periodic maintenance. Routine maintenance, apart from filter changes, must only be carried out by a suitably qualified and competent person.

WARNING: The unit uses a 230V ~ supply and contains rotating mechanical parts. ISOLATE the unit from mains power supply and allow sufficient time for all moving parts to stop before undergoing any Servicing or Maintenance. The unit may be supplied with multiple live supply if a Duct Heater is fitted or uses switched live for Boost Speed control.

HRV10 & 10.25 Q Plus Front Cover Removal

- 1. ISOLATE the unit from mains power supply and allow sufficient time for all moving parts to stop.
- 2. Loosen the six screws located in the front of the Cover.
- 3. Completely remove the Front Cover by pulling it away from the unit.

Front Cover replacement is the reverse of the above steps. Ensure that the large washers are re-used.

Note the two centre screws are shorter than the four corner screws. When refitting Front Cover do not overtighten screws.

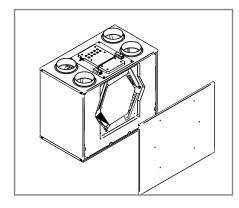




HRV10M &10.25M Q Plus Front Cover Removal

- 1. ISOLATE the unit from mains power supply and allow sufficient time for all moving parts to stop.
- 2. Loosen the six screws located in the front of the Cover.
- 3. Completely remove the Front Cover by pulling it away from the unit.
- 4. Front Cover replacement is the reverse of the above steps. Ensure that the star washers are re-used.

Note the two centre screws are shorter than the four corner screws. When refitting Front Cover do not overtighten screws.



Cleaning Interior

For best results:

- 5. Slide out Filters fitted either side of heat exchanger.
- 6. Carefully remove any dust from face of heat exchanger, interior of the unit and the Bypass using a vacuum cleaner.
- 7. Do not use abrasive cleaners, water, solvents or any other fluids.

Cleaning Exterior

For best results use a clean damp cloth. Do not use abrasive cleaners, solvents or any other fluids.









Filter Replacement

Filters should be replaced at least annually, or more regularly dependent on environmental conditions. The aurastat® will indicate filter change required in line with the Filter Change Interval setting. Replacement Filters are available from Titon Direct. www.titondirect.co.uk

G4 Filters Set XP44023/099

To Replace Filters.

- 1. Remove Front Cover, see previous page .
- 2. Slide out Filters fitted either side of heat exchanger as shown.
- 3. Replace Filters by carefully sliding the replacement Filters either side of the heat exchanger.
- 4. Ensure arrows printed on the ends of the Filters point towards the heat exchanger. Units use unequal length Filters. When replacing Filters ensure the short filter is fitted to the right hand side of the heat exchanger, see illustration.
- 5. Replace the front cover. When refitting Front Cover do not overtighten screws.
- 6. The aurastat® Filter Change Alert will require resetting after the filters have been changed, see SETUP2 menu in the aurastat® HRV Controller Product Manual.

auralite® Filter Notification Reset

Ensure the HRV is powered up. To clear the auralite® filter notification press & hold the reset switch with a ball point pen or similar object for 10 seconds. The switch is located behind the small hole in the front of the auralite®. All lights will momentarily be illuminated indicating a successful reset.







Service Record

Serviced By	Company	Date	Notes







Serviced By	Company	Date	Notes

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In the event of any queries please contact the system installer.

Ensure this booklet is passed to the householder once installation & commissioning of the ventilation system is complete. This Product Manual must be kept in the Home Information Pack and used as a service record.

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Important environmental information about this product.

This symbol on this unit or the package, indicates that disposal of this unit after its lifecycle could harm the environment. Do not dispose the unit as unsorted municipal waste; it should be disposed by a specialized company for recycling. This unit should be returned to your distributor or to a local recycling service. Respect the local environmental rules. If any doubt contact your local authorities about waste disposal rules.



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