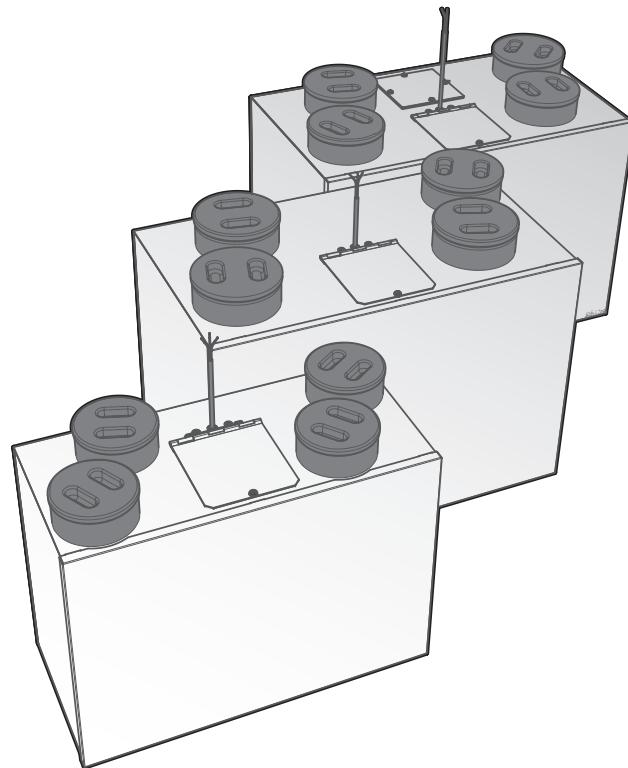


EN



HRV1 Q Plus

TP400A

HRV1.25 Q Plus

TP406A

HRV1.5 Q Plus

TP403A, TP403ABS

HRV1.75 Q Plus

TP404A, TP404ABS

HRV2 Q Plus

TP401A, TP401ABS

HRV2.75 Q Plus

TP405A, TP405ABS

HRV3 Q Plus

TP402A, TP402ABS

Heat Recovery Ventilation Units

Product Manual



 **Titon**[®]
ventilation systems

Warnings, Safety information and Guidance

Important Information

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

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. All wiring must conform to current I.E.E. Wiring Regulations and all applicable standards and Building Regulations.
3. 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.
4. The unit is supplied with a mains rated 3 core flexible cord (PVC sheathed, brown, blue and green/yellow 0.75mm²).
5. The appliance must be connected to a local double pole isolation switch with a contact separation of at least 3mm.
6. The appliance must be earthed.
7. HRV1.25 Q Plus, HRV1.75 Q Plus, & HRV2 Q Plus are suitable for 230V ~ 50/60Hz single phase with a fuse rating of 3A.
8. HRV3 Q Plus suitable for 230V ~ 50/60Hz single phase with a fuse rating of 5A.
9. auralite[®], control & communication cable access is via the fitted cable gland(s) which are suitable for Ø3- 6mm cable.
10. auralite[®], control & communication cable - Unshielded 4 Core 18-24AWG Stranded, Tinned Copper.

11. Control & communication cables should not be placed within 50mm or on the same metal cable tray as any 230V lighting or power cables.
12. Ensure all cable glands are fully tightened.
13. 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.
14. The appliance is not suitable for installation to the exterior of the dwelling.
15. 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.
16. Children should be supervised to ensure that they do not play with the appliance.
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.
19. The unit must not be connected to a cooker hood.
20. Precautions must be taken to avoid the back-flow of gases into the room from an open flue appliance.
21. Ensure all ducting, condensate drain and associated pipe work is free from debris and blockages before switching on the unit.

Warnings, Safety information and Guidance

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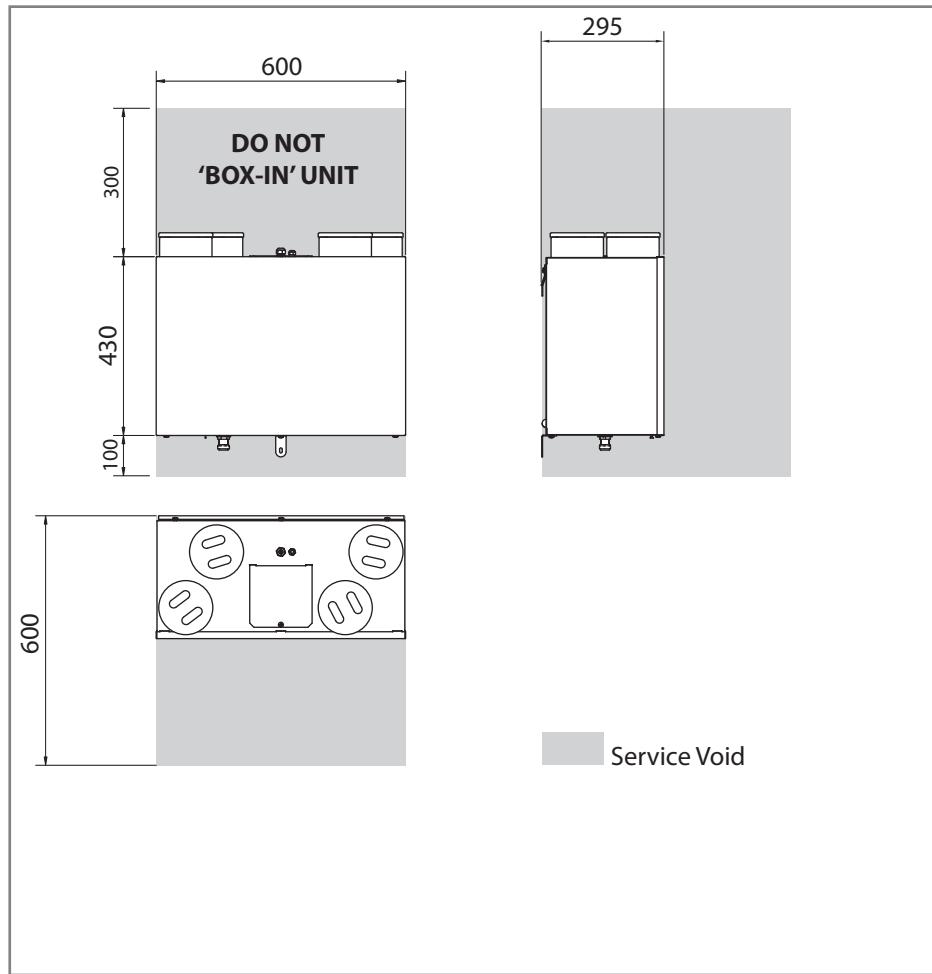
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Dimensions HRV1 & 1.25 Q Plus

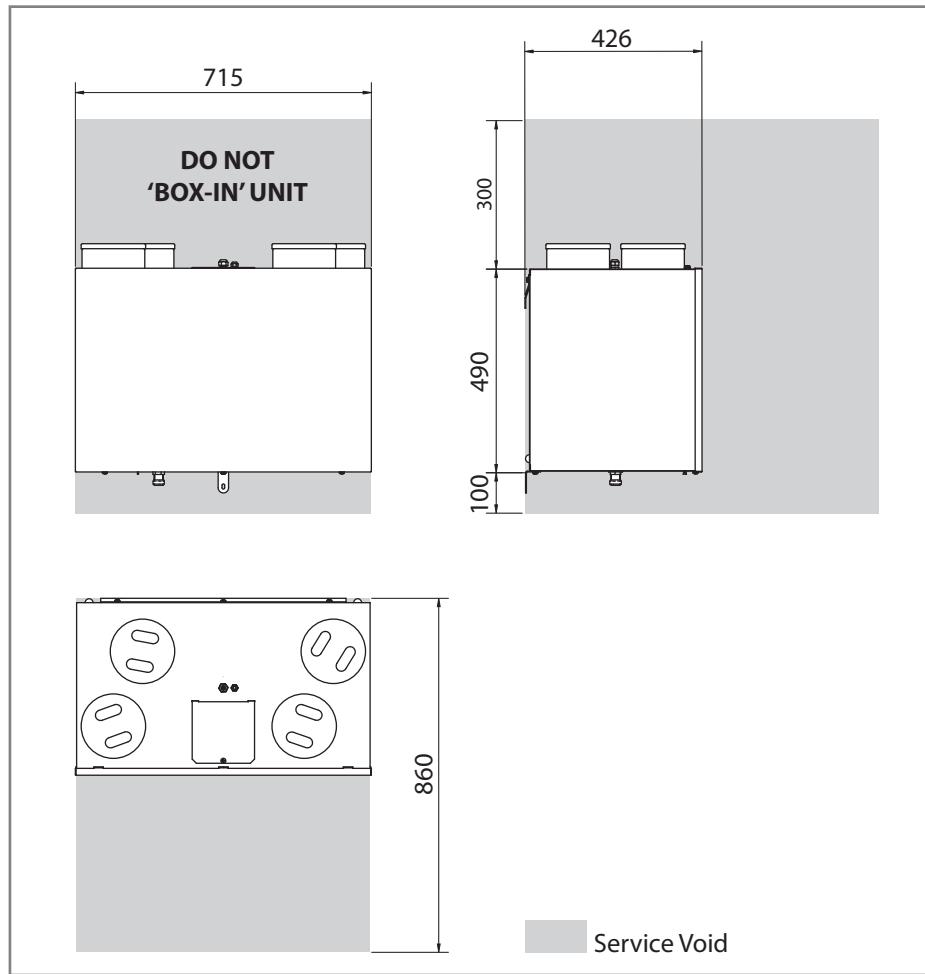
This diagram details the overall size of the unit and the additional space required around the unit to allow for commissioning and future servicing and maintenance.



All dimensions in millimetres

Dimensions HRV1.5, 1.75, 2, 2.75 & 3 Q Plus

This diagram details the overall sizes of the units and the additional space required around the units to allow for commissioning and future servicing and maintenance.



All dimensions in millimetres

Product Features

The table below lists the models covered by this Product Manual. To find out what features your Titon HRV Q Plus has refer to the part number. The part number can be found on the serial number label fixed to the top and front of the unit.

Model	HRV1 Q Plus	HRV1.25 Q Plus	HRV1.5 Q Plus	HRV1.75 Q Plus	HRV2 Q Plus	HRV2.75 Q Plus	HRV3 Q Plus					
Part Number	TP400A	TP406A	TP403A	TP403ABS	TP404A	TP404ABS	TP401A	TP401ABS	TP405A	TP405ABS	TP402A	TP402ABS
Filter Covers	•											
Setback Speed	•	•	•	•	•	•	•	•	•	•		
Continuous Speed	•	•	•	•	•	•	•	•	•	•		
Boost Speed with Overrun Timer	•	•	•	•	•	•	•	•	•	•		
SUMMERboost®			•	•	•	•	•	•	•	•		
Summer Bypass			•	•	•	•	•	•	•	•		
Duct Heater Connection			•	•	•	•	•	•	•	•		
Summer Mode	•	•	•	•	•	•	•	•	•	•		
Constant Volume Fans						•				•		
Ø100 & 125mm Ducting	•	•										
Ø125 & 150mm Ducting			•	•	•	•	•	•	•	•		
Independent adjustment of Fans	•	•	•	•	•	•	•	•	•	•		
Step-less fan Speed Setting	•	•	•	•	•	•	•	•	•	•		
Automatic Frost Protection	•	•	•	•	•	•	•	•	•	•		

GB Patent Nos. GB2469254, GB2470331, GB2470528, GB2470684, & GB2471406

GB Patent Application No. GB2491516,

EP Patent Application No. EP2242959



Controls & Features

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

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.

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.

SUMMERboost® ABS models only

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 triggered 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.

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.

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.

Duct Heater

To maintain ventilation flow rates where prolonged periods of very low temperatures occur, the facility for the control of a Duct Heater is provided, MAX 1000W. This is achieved using an electrically powered Duct Heater placed in-line between the outside supply vent and the From Atmosphere terminal on the HRV *Q Plus*. In these applications, the heater is used to pre-warm the outside fresh air supply before it enters the HRV *Q Plus*. During Duct Heater operation fan speeds are not changed. However if the temperatures fall below a predetermined level Automatic Frost Protection will engage to protect the heat cell.

Filter Covers

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

Constant Volume Fans

These automatically adjust their speed depending upon the system resistance, thus ensuring that the required airflow is always maintained.

Summer Mode (A models only)

In properties where it is desirable to reduce the supply of warm fresh air during hot weather the optional Summer Mode operation is available.

Summer Mode operates by stopping the supply fan. Summer Mode can be triggered 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. In this configuration Summer Mode will only operate when the temperature within the room has exceeded the dedicated thermostat setting. When Summer Mode is selected the supply fan will remain off even if the HRV10 is placed into Boost.

Summer Mode must not be installed in dwellings where open flue combustion appliances are used.

Packaging Contents

Inspect the unit when taking delivery. Check the unit for damage and that all accessories have been supplied. Each HRV Q Plus unit is supplied with:

- Mounting Bracket x 2
- Safety Bracket x 1
- 15mm Condensate Drain Olive & Nut x 1
- M6x10mm Pan head screws x 4
- M6 washers x 4
- Transport Bungs x 4, supplied packed in *Duct Ports*
- Product Manual x 1
- User Guide x 1

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

Installation

Fixing

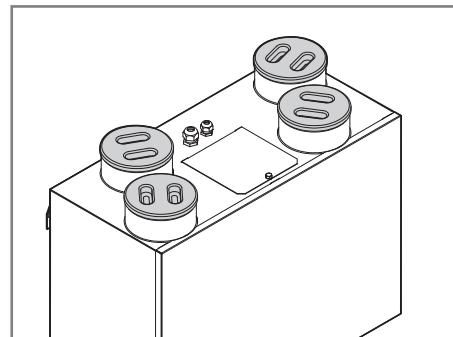
Titon recommend the use of guidance given in the Domestic Ventilation Compliance Guide 2010 Edition ISBN-978 1 85946 378 9 and Approved Document Part F 2010 ISBN-978 1 85946 370 3 for all installations in the United Kingdom.



The above documents can be downloaded free from www.planningportal.gov.uk.

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

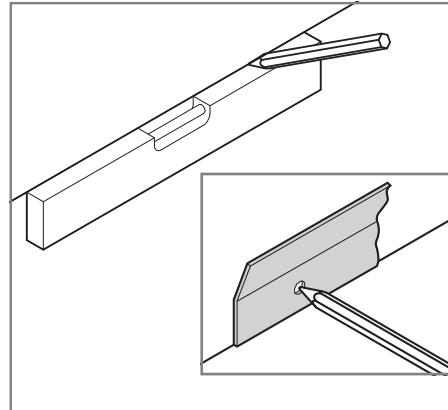
- The Titon HRV *Q Plus* is designed to be mounted on a wall or similar. The mounting surface must be sufficiently strong to support the unit
- Consider the positioning of electrical services and the Condensate Drain when siting the unit
- Ensure there is sufficient access around the HRV *Q Plus* for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



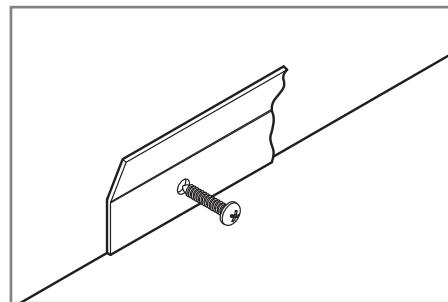
Transport Bungs highlighted

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

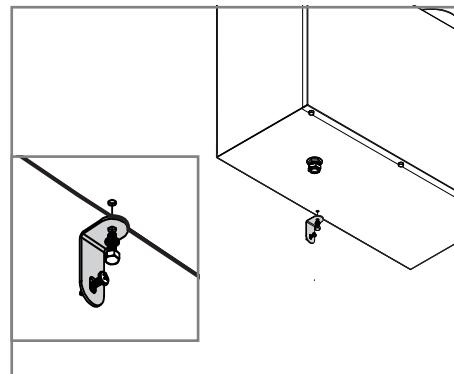
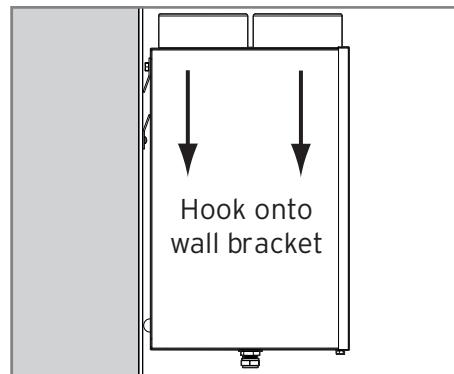
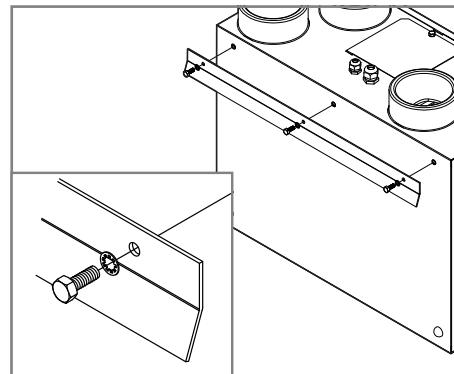
1. Mark a horizontal line on the wall using a spirit level. This line will be approximately 95mm below the location of the top face of the unit when fitted (excluding duct ports)
2. Use one of the Mounting Brackets as a template to mark the three fixing hole centres
3. Drill holes for fixings, always use a fixing suited to the wall type
4. Fix one Mounting Bracket to the wall ensuring the interlocking side is at the top, as shown



Mounting Bracket highlighted



5. Fix the remaining Mounting Bracket to the unit using the M6 screws and washers provided, ensuring the interlock side is at the bottom. Do not overtighten
6. Mount the unit by locating the two Mounting Brackets together. Ensure a positive location is made between the two Mounting Bracket
7. The Safety Bracket MUST be fitted. Fix the lower Safety Bracket as shown using the remaining M6 screw, washer and suitable wall fixing. Packing to be used as required behind the Safety Bracket to ensure unit is level



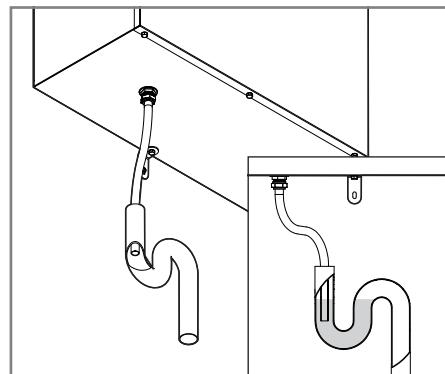
Safety Bracket highlighted

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 *Condensation Drain Pipe*:

- Is attach via a 15mm compression fitting (drain pipe shown un-insulated for clarity), on the base of the unit
- Must incorporate a suitable trap, which must act as an air lock
- Must be adequately secured and be insulated with the equivalent of at least 25mm of insulating material with a thermal conductivity of 0.04 W/(mK) if any part of the pipe passes through an unheated void
- Should be installed to have a minimum 5° fall from the unit
- Titon recommend the use of diaphragm type waste valve in place of a conventional 'wet' trap which could dry out. Such as, BRE certificate no. 042/97 'Hepworth Hepv0 Hygienic self sealing plastic waste valve' recommended as an alternative to traditional U-Traps



Ducting Connections

Titon recommend the use of guidance given in the Domestic Ventilation Compliance Guide 2010 Edition ISBN-978 1 85946 378 9 and Approved Document Part F 2010 ISBN-978 1 85946 370 3 for all installations in the United Kingdom.



The above documents can be downloaded free from www.planningportal.gov.uk.

Once the unit has been installed and the ducting is ready to connect to the unit, remove the Transport Bungs from the Duct Ports.

Titon recommend that:

1. Ø125mm ducting is used to connect the HRV1 & 1.25 *Q Plus*.
2. Ø150mm ducting is used to connect the HRV1.5, 1.75, 2, 2.75 & 3 *Q Plus*.
3. A short piece of flexible ducting, approximately 200mm long is used to connect the unit to the ducting system.
4. Any flexible ducting used must be pulled taught.
5. A minimum distance of 200mm between the HRV *Q Plus* unit and any sharp bends in duct work.
6. 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 $\leq 0.04 \text{ W}/(\text{m.K})$ 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.
7. 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.
8. Where ducts pass through fire barriers, they must be appropriately fire stopped in accordance with the requirements of Part B of the Building Regulations (for England & Wales).

9. A ducting condensate drain must be fitted to vertical To Atmosphere duct work.
10. Ducting must be installed in such a way that resistance to airflow is minimised.
11. Ducting connected to the From Atmosphere & To Atmosphere ports, must be to the external air outside the building envelope.
12. All ducting joints including those to the HRV *Q Plus* unit's Duct Ports must be permanently sealed with tape and/or an appropriate non-hardening sealant and/or Jubilee clips or similar. Do not distort ducting or Duct Ports by over tightening clips.
13. A minimum distance of 2m exists between the external supply and exhaust terminals.

The HRV unit has a label on the top 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.



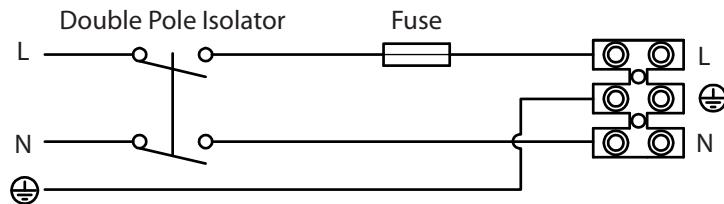
FROM ATMOSPHERE - This duct port is connected to the ducting that carries fresh outdoor air to the HRV unit.

Wiring Connections Access

Access to the connections for Boost and other volt free control functions is via the hinged cover on the top of the unit, at the front. All units.

Access to the connections for the duct heater is via the cover fixed by four screws on top of the unit, at the rear of ABS units.

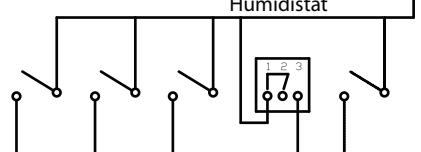
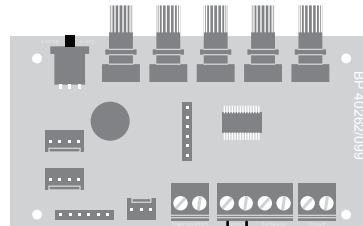
Wiring Diagrams



Supply wiring diagram 230V~50Hz ref EE 141

Volt-free boost switching of MVHR controller PCB using single-pole switches TP 502, TP 503, TP 507 and / or TP500 / TP501 humidistat.

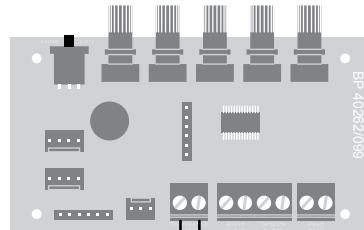
There is no limit to the number of single pole switches or humidistats that can be used.



Wiring Diagrams

Volt-free activation of Summer Mode using one way latching switch.

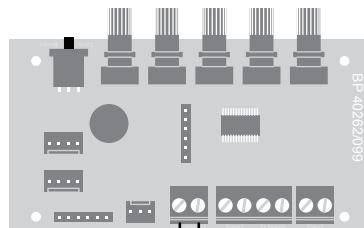
**Not to be installed
on ABS models.**



Summer Mode switch connection ref EE 144

Volt-free activation of Summer Mode using room thermostat.

**Not to be installed
on ABS models.**

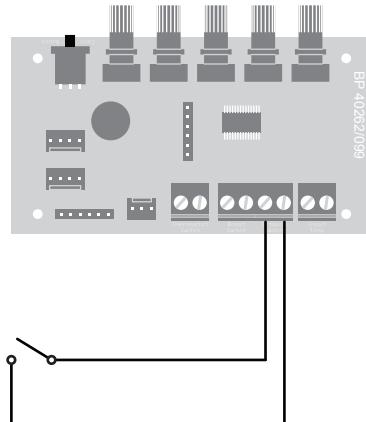


Summer Mode thermostat connection ref EE 144

Wiring Diagrams

Volt-free setback switching of MVHR controller PCB using single-pole latching switch and / or volt-free normally open relay contacts.

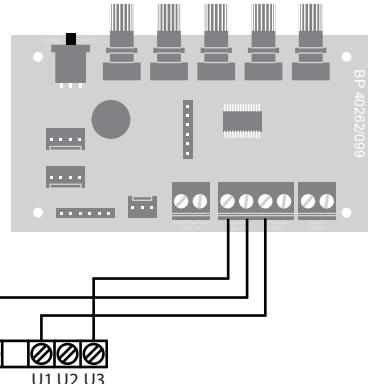
To avoid the unit being inadvertently left in Setback Mode, it is recommended that only one latching switch is fitted.



Setback Mode switching and connection ref EE 143

SWITCH POSITIONS

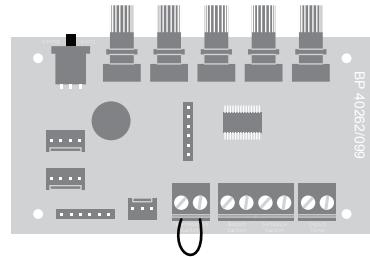
- 1 - Setback Speed
- 2 - Continuous Speed
- 3 - Boost Speed



Three Position Rotary Switch TP 508 switching and connection ref EE 147

Wiring Diagrams

SUMMERboost® link wire must be removed to enable SUMMERboost®.



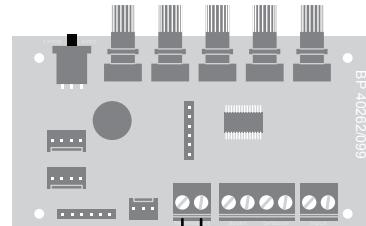
SUMMERboost® link wire

SUMMERboost® link wire

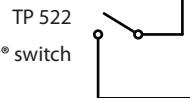
Wiring Diagrams

Volt-free disable of SUMMERboost® using one way latching switch.

ABS models only.



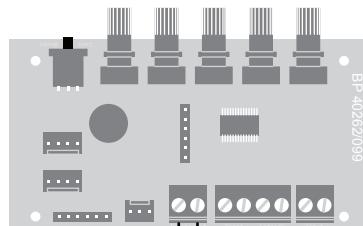
TP 522
Latching SUMMERboost® switch



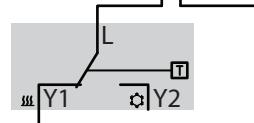
SUMMERboost® switch connection ref EE 150

Volt-free disable of SUMMERboost® using room thermostat.

ABS models only.



TP509
Room Thermostat



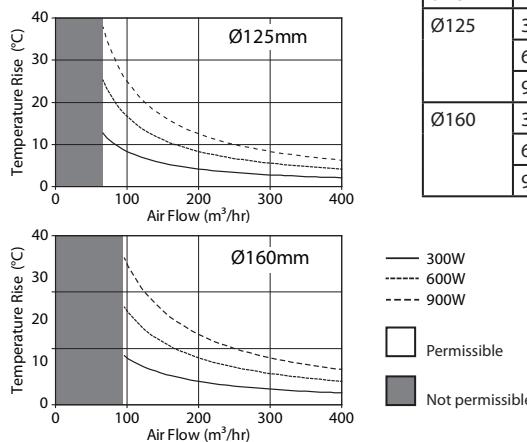
SUMMERboost® thermostat connection ref EE 150

Duct Heater

Using the factory fitted PCB it is possible to control an external mains operated duct heater to pre-warm the incoming fresh air supply. During periods of cold weather, this reduces the possibility of ice build-up within the unit by raising the temperature of the incoming supply air. However there will be a significant increase in electrical energy use.



Duct Heater

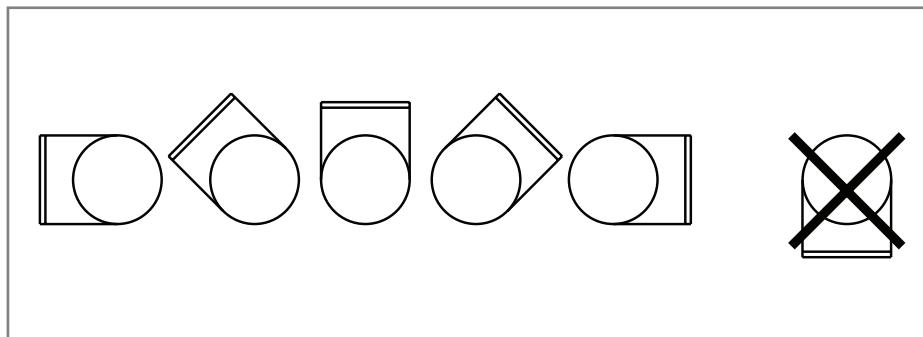


Size mm	Watts	Part No.
Ø125	300	DH 125 300
	600	DH 125 600
	900	DH 125 900
Ø160	300	DH 160 300
	600	DH 160 600
	900	DH 160 900

Duct Heater Operational Ranges

Fitting

1. The heater is designed for insertion into standard spiral steel ducting and is fixed to the ducting with screws
2. The air must flow through the heater in the direction of the arrow (located on the side of the heater close to the connection box)
3. The heater can be fitted in either horizontal or vertical ducting. The electrical connection cabinet can be freely placed facing upwards or sideways to a maximum angle of 90°. Fitting with the box facing downwards is NOT allowed
4. The access opening in the heater must be equipped with a fixed mesh or an

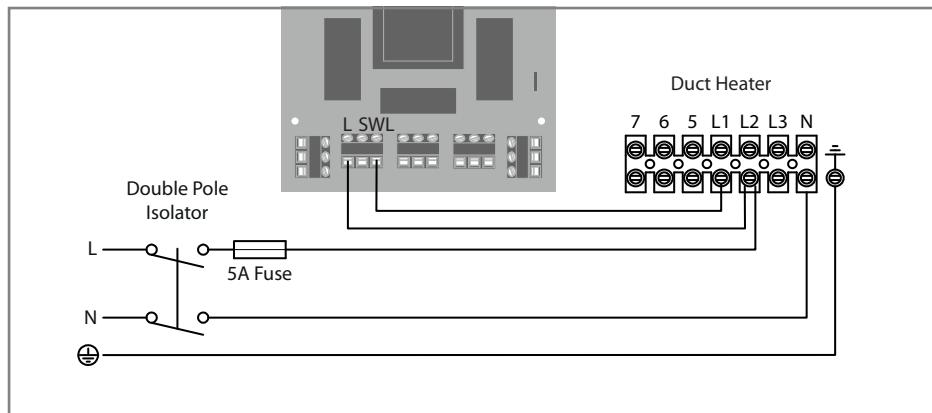


Duct Heater fitting orientation

intake air device which makes it impossible to touch the element inside

5. A warning sign must be attached close to the air outlet, stating that the air outlet must not be covered
6. The distance from (to) the heater to (from) a duct bend, valve, filter, etc should correspond to at least twice the duct diameter, otherwise there is a risk that the airflow through the heater is uneven which can cause activation of the overheating cut-out
7. The heaters may be insulated in accordance with valid regulations for ventilation ducting. However, the insulation material must be incombustible. The cover of the heater must be free from insulation so that the type plate is visible and the cover can be removed
8. The parts of the ventilation system where heaters are installed must be kept accessible to allow replacement and service

9. The distance from the heater's metal casing to any wood or other combustible material must NOT be less than 30 mm
10. The maximum ambient temperature allowed is 40°C
11. The air flow through the heater must have a speed of at least 1.5 m/s
12. The maximum output temperature allowed is 40°C



Duct Heater CV 12-09-1M Connection Wiring Diagram ref EE 148

Connection to Mains

1. All wiring must conform to current I.E.E. Wiring Regulations and all applicable national standards and Building Regulations
2. The installation MUST be carried out by a suitably qualified competent person.
3. The duct heaters are designed to operate on single phase alternating current. See the wiring diagram for the particular heater and the electrical data on the rating plate placed on the cover of the duct heater
4. The duct heater must be connected to the mains supply with a fixed installed round cable. The heater must be equipped with a cable grommet or cable fitting designed for the cable, which ensures that the electrical protection class of the heater is retained. The standard design is IP43
5. It must not be possible to switch on the power to the element unless the *HRV Q Plus* is operating

6. An all phase breaker or a double pole switch with a contact gap of at least 3mm must be included in the fixed installation
7. The duct heater is equipped with two overheating cut-outs (one with manual reset) designed to prevent overheating when the airflow is too low or in the event of a fault in the system
8. A drawing must be attached inside the fuse box or on the wall of the service room. The drawing shows the rating of the duct heaters and their location in the building, together with information about the measures to be taken in the event that the overheat protection cutout(s) is activated

Maintenance

No maintenance is required except a periodic functional test.

Overheating

When the overheating cut-out with manual reset has been activated, the following should be observed:

1. The heater must not be interfered with in any way, such as removal of the cover, except by an authorised electrical fitter
2. Turn off the mains power
3. Investigate carefully the reason for activation of the cut-out
4. When the fault has been eliminated, the cut-out can be reset

The heater has a built in manual reset thermal protection with the reset button placed on the lid.

Commissioning

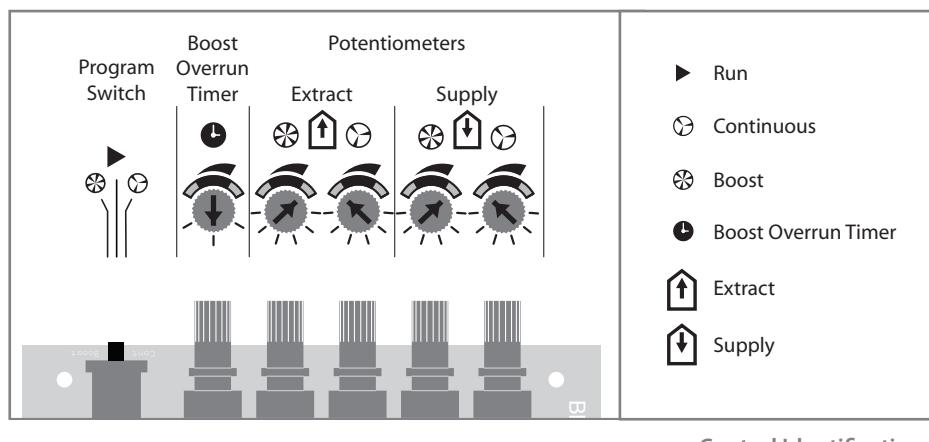
Controls

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.



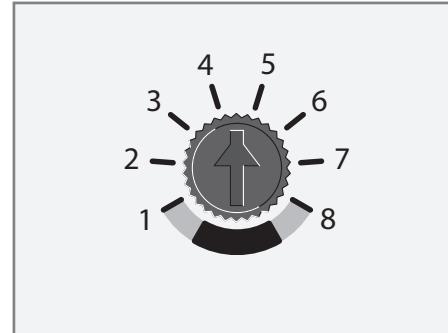
Control Parameters

- 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



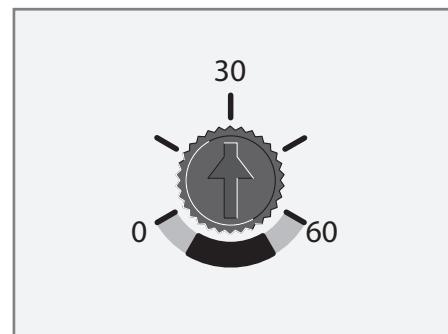
Commissioning Pot positions

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.



Controller Reset

Following a controller reset the ventilation system will need to be fully commissioned.

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
2. 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. Where by 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.

Maintenance

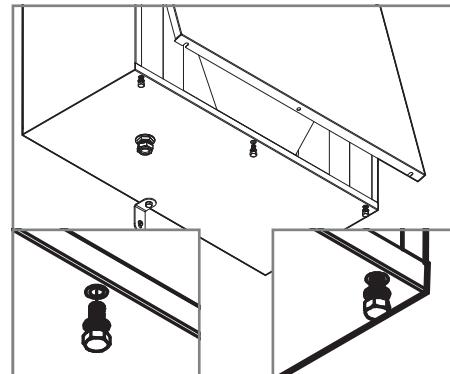
Routine Maintenance

All ventilation units require periodic maintenance. Routine maintenance, apart from filter changes, must only be carried out by a suitably qualified and competent person. The air filters should be checked regularly, the frequency of replacement will vary depending on the environmental conditions.

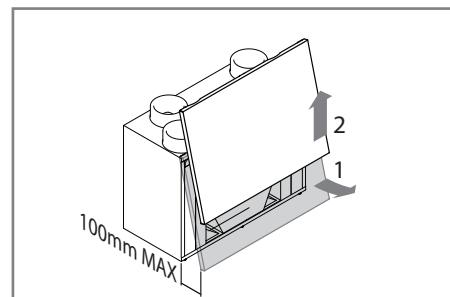
WARNING: The unit uses a 230V ~ supply and contains rotating mechanical parts. ISOLATE the unit from mains power supply and allow sufficient time for all moving parts to stop before undergoing any Servicing or Maintenance. The unit may be supplied with multiple live supply if a Duct Heater is fitted.

Front Cover Removal

1. ISOLATE the unit from mains power supply and allow sufficient time for all moving parts to stop
2. Loosen the two corner screws located on the bottom front of the unit
3. Completely remove the centre screw
4. Completely remove the Front Cover by pulling it away from the unit at the bottom and lifting



Cover replacement is the reverse of the above steps. Ensure it is securely located at the top before tightening screws.



Cleaning Interior

For best results:

1. Slide out Filter Frames fitted either side of heat exchanger
2. Carefully remove any dust from face of heat exchanger, interior of the unit and the Bypass(if fitted) using a vacuum cleaner
3. Do not use water or any other fluids

Cleaning Exterior

For best results use a clean cloth and warm water with a mild detergent solution.

Do not use solvents or abrasive cleaners.

Condensate Tray

If the Condensate Tray is split a replacement must be ordered and fitted.

HRV1 & 1.25 Q Plus Part No. XP40042/012

HRV1.5, 1.75, 2, 2.75 & 3 Q Plus

No. XP40142/012



Filter Replacement

Filters should be replaced at least annually, or more regularly dependent on environmental conditions. Replacement Filters are available from Titon. Titon HRV *Q Plus* Filters are available in two grades G3 and G4. Filter media should be replaced like for like. Filter may be supplied with either metal or plastic frames both are fully compatible with the units.

Filter Part numbers in table below. The Unit part number can be found on the serial number label fixed to the top and front of the unit.

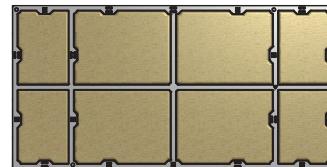
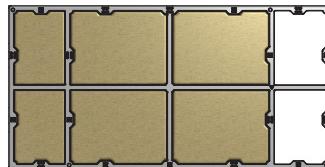
G3 Filters - Both faces white.

G4 Filters - One face white, one face blue.

Model	Part Number	G3 Filter Set 2 framed filters	G4 Filters Set 2 framed filters
HRV1 <i>Q Plus</i>	TP400A	XP40032/099	XP46022/099
HRV1.25 <i>Q Plus</i>	TP406A		
HRV1.5 <i>Q Plus</i>	TP403A		
HRV1.75 <i>Q Plus</i>	TP404A		
HRV2 <i>Q Plus</i>	TP401A	XP40132/099	XP46122/099
HRV2.75 <i>Q Plus</i>	TP405A		
HRV3 <i>Q Plus</i>	TP402A		
HRV1.5 <i>Q Plus</i>	TP403ABS		
HRV1.75 <i>Q Plus</i>	TP404ABS		
HRV2 <i>Q Plus</i>	TP401ABS	XP40133/099	XP46123/099
HRV2.75 <i>Q Plus</i>	TP405ABS		
HRV3 <i>Q Plus</i>	TP402ABS		

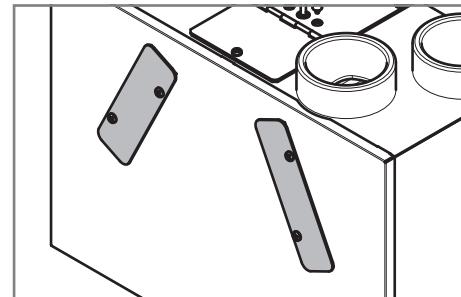
How to Change Filters

1. Remove Front Cover or Filter Covers.
2. Slide out Filters. ABS models use unequal Filters. Make a note of which side of the unit the filter with the shorter filter media is. The positions of filters is marked on the units.



Shorter filter media (ABS units)

3. Filters can be cleaned by carefully using a vacuum cleaner, Filters should be



replaced at least annually

4. Replace Filters by carefully sliding in the replacement/cleaned filters. Ensure that filters are replaced in the same positions as they were removed.
5. Replace the Front Cover or Filter Covers.

Service Record

Installed by



In the event of any queries please contact the system installer. Ensure this booklet is passed to the householder once installation and 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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