Resident User Guide - MVHR

Mechanical Ventilation Heat Recovery (MVHR)

Your home has a balanced ventilation system with heat recovery. At the heart of this system is a Titon HRV Q Plus Heat Recovery Unit. This system contributes to improved indoor air quality and increased comfort levels. For the ventilation unit to function efficiently it needs to be maintained and used correctly.

Where can it be used?
Suitable for new build; houses, flats or apartments, usually in dwellings that are classed as 'highly airtight dwellings' in Part F.

How does it work?
A mechanical ventilation heat recovery system (MVHR) works by combining **supply** and **extract** air. Moisture-laden **stale air is extracted from wet areas**, such as kitchens and bathrooms. The heat from the extract air is recovered by the heat exchanger in the MVHR unit and is recycled by warming up the **supply air** entering a dwelling.

DO NOT SWITCH OFF THE UNIT! The system is designed to run continuously, even when the property is not occupied. If the unit is switched off, indoor air quality will be impacted and moisture levels may increase putting your property at risk to damage.

Resident User Guide

Ventilation is vital

Indoor air quality deteriorates without controlled ventilation, and this is intensified now modern homes are built with increased airtightness. Chemicals, gases and moisture produced by everyday products and activities may lead to the build up of pollutants which could be harmful to the health of the occupants and may damage the building fabric.

Once homes are occupied it is the responsibility of the householder to use and maintain, the ventilation products following the guidance provided.

How the system works

The ventilation system extracts stale polluted air from rooms where most moisture is generated e.g. kitchens and bathrooms, and provides fresh air taken from outside by the HRV Q Plus which is then delivered to other rooms. This creates a flow of fresh, clean air throughout the dwelling.

Heat is reclaimed from the extracted air and used to preheat incoming fresh air by a “heat exchanger” which is built into the central ventilation unit.

Typical ceiling terminal/ valve

A MVHR cupboard installation

Healthy environment

The ventilation system functions continuously without wasting heat or energy unnecessarily.

The air travels from terminals built into the ceiling which are connected by hidden ducts to the unit. Do not disturb or adjust these ceiling terminals, they have been set to give the correct amount of ventilation for the property.

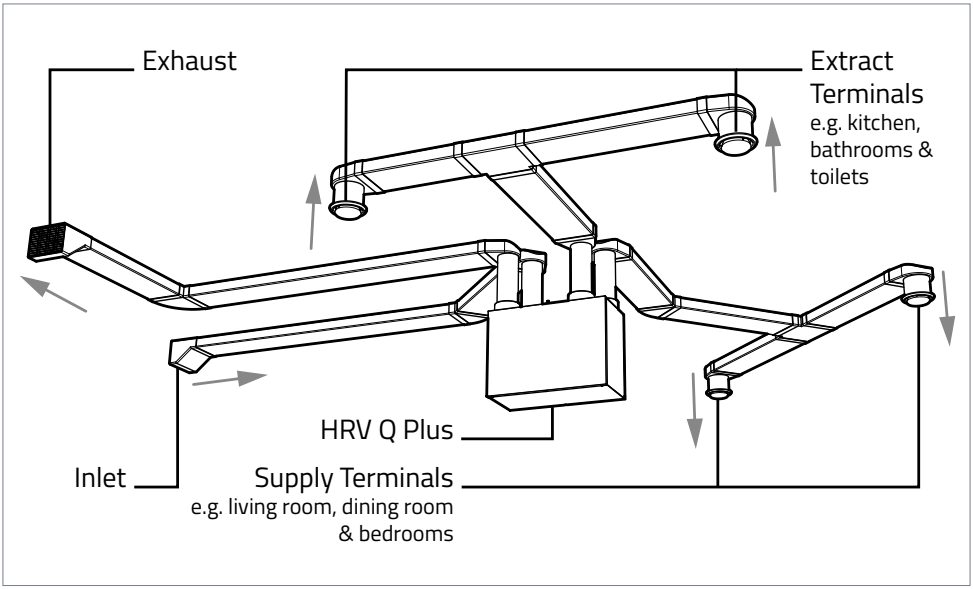
The central unit is usually installed in a roof space or cupboard although most of the system is hidden from view as it has been designed into the property construction.

Most systems have a facility to boost the ventilation rate at times when more moisture is being generated, such as when bathing or more moisture or odour is being generated.

During cold weather the frost protection program will automatically vary the ventilation to ensure there is no build up of ice in the unit. During operation, you may notice small changes in airflow or noise levels. This is quite normal as the unit is designed to operate in this way.

894 The Crescent, Colchester Business Park, Colchester, Essex, CO4 9YQ
Tel: +44 (0) 1206 713800 Email: marketing@titon.co.uk Web: www.titon.com

Titon®



How to use the system

The system runs by itself for normal ventilation rates. Boost mode will increase the extract ventilation rate at times when moisture or pollutant levels are considered excessive. Sensors may be fitted in the dwelling which detect high levels of moisture or pollutants and boosts the system automatically.

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® - allows both the supply and extract fans to run at full speed whenever the Summer Bypass is activated. SUMMERboost® will only operate when the temperature has exceeded the thermostat setting, this will aim at combating overheating. Should the room temperature fall below the thermostat setting, then SUMMERboost® will not operate.

aura-t™ controller

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 changed at least once a year, if not more depending on external pollution (high amount of vehicle fumes etc)

894 The Crescent, Colchester Business Park, Colchester, Essex, CO4 9YQ
Tel: +44 (0) 1206 713800 Email: marketing@titon.co.uk Web: www.titon.com

aura-t™ Controller User Guide

Run Mode

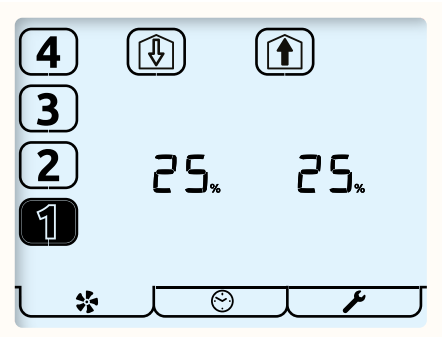
The aura-t™ controls the HRV unit's 4 programmable speed settings.

Speed 4 - SUMMERboost® - Very high ventilation

Speed 3 - Boost - Increased ventilation

Speed 2 - Continuous - Normal ventilation

Speed 1 - Setback - Reduced ventilation (export only)



This is the Run Mode screen; use the number buttons to select the required fan speeds. Speeds 1,3 & 4 are on a one hour timer, after the hour has elapsed the HRV will return to Speed 2.

The current running speed will be indicated by the corresponding number button being highlighted.

1

2

Press and Hold the [1] or [2] button to enable boost Inhibit, the Padlock icon will display to indicate Boost inhibit is active.

Pressing and Holding either the [1] or [2] button again will disable Boost Inhibit.

Supply

Extract

Press the supply or extract buttons to cycle between fan speed and temperature.

With fan speed selected the actual percentage speed of both fans is displayed.

Selecting temperature displays the temperature of the air being supplied from the atmosphere and extracted from the property.

894 The Crescent, Colchester Business Park, Colchester, Essex, CO4 9YQ
Tel: +44 (0) 1206 713800 Email: marketing@titon.co.uk Web: www.titon.com

Titon®

Status Icons

If the fan speed is being controlled by an external switch, or sensor this is indicated by an icon beneath the speed selection buttons being visible.

The icons are as follows:

	An external switch is active and is holding the HRV at the indicated speed. If this icon is flashing along with the Speed 3 button and the backlight a switch has held the HRV in Boost for more than 2 hours and Boost Alert is active.
	The speed the HRV is running at is being controlled by the internal humidity sensor.

Other Icons

Other status icon that may be visible on the screen are listed below:

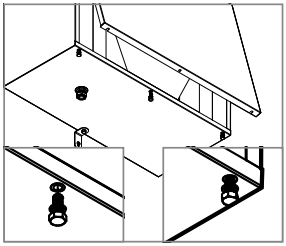
	The filters need changing or cleaning, refer to the Settings Menu for details of how to reset the timer.
	Frost Protection, if this icon is constantly lit the temperature outside is low and the speed of the HRV Supply Fan has been reduced to prevent damage to the Heat Cell. If the Frost icon and backlight are flashing the indoor temperature is low and both fans will have stopped. Tap any of the fan speed number buttons to restart the fans. If the temperature is still too cold, Frost Protection will be activated.
	Summer Bypass is in operation, air from outside is being supplied directly to the property without recovering heat from the Heat Cell. This is often accompanied by SUMMERboost®, both fans switch to Speed 4 to increase the rate fresh air is supplied to the property and stale hot air is extracted.
	Press & Hold the [4] button to cancel SUMMERboost®.
	The Boost Overrun timer is active and is holding the HRV at Speed 3; this follows an external Boost switch being deactivated.
	The padlock icon adjacent to the Speed 3 button indicates Boost Inhibit is active. The HRV will not respond to external Boost switches or the internal Humidity sensor; it is only possible to select speeds 1 or 2.
	The warning icon flashing at the bottom of the screen adjacent to the Fan icon indicates a fan or thermistor failure has been detected; contact the installer. The corresponding icon will be flashing at the top of the screen. If very high temperatures are detected inside the HRV, fan failure mode will be enabled to protect the HRV from damage.

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.



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

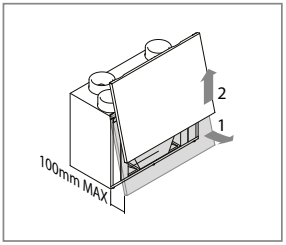
Cover replacement is the reverse of the above steps. Ensure it is securely located at the top before tightening screws.

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

Do not use water or any other fluids



Cleaning Exterior

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

Condensate Tray

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

HRV1, 1.25, 1.3 & 1.35 Q Plus Part No. XP40042/012

HRV1.6 & 1.65 Q Plus Part No. XP4010649/012

HRV 1.75, 2, 2.85 & 3 Q Plus Part No. XP40142/012

Filters

Filter Maintenance

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

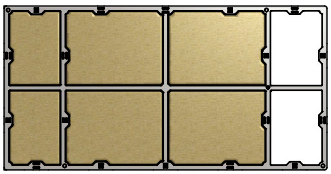
Titon HRV Q Plus Filters are available in two grades G3 and G4. Filter media should be replaced like for like.

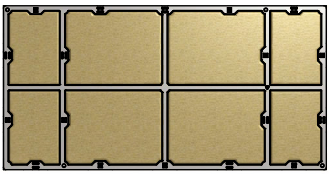
Filter Part numbers in table below. The Unit part number can be found on the serial number label fixed to the top and front of the unit.

Model	G3 Filter Set 2 framed filters"	G4 Filters Set 2 framed filters"	G4 Panel Filters Set	F7 Single Panel Filter	G4 & G7 Panel Filter Set
HRV1.25 Q Plus	XP40032	XP46022			
HRV1.3 Q Plus					
HRV1.35 Q Plus					
HRV1.6 Q Plus	XP2010671	XP2010897			
HRV1.65 Q Plus					
HRV4 Q Plus			XP2011629	XP2011630	XP2011754
HRV4.25 Q Plus					

How to Change Filters

1. Remove Front Cover or Filter Covers.
2. Slide out Filters.
3. Replace Filters by carefully sliding in the replacement filters. Ensure that filters are replaced in the same positions as they were removed. The positions of filters is mark on the units.
4. Replace the Front Cover or Filter Covers.





Titon: The indoor air quality experts

At Titon, we believe everyone deserves to breathe cleaner, healthier air. With decades of expertise in designing and manufacturing advanced ventilation solutions, we are passionate about creating systems that improve indoor air quality, enhance comfort, and contribute to healthier living and working environments.

From highly efficient MVHR systems ideal for airtight, energy-efficient homes to MEV solutions and extract fans suited to medium-density buildings or retrofit projects, Titon provides the versatility and performance you need for every development type.

Our commitment to quality and reliability is demonstrated through our ISO and SAP certifications, and we are dedicated to supplier excellence. Combining rigorous product testing with outstanding service ensures that our every solution exceeds expectations.

As a trusted end-to-end partner, we support your project from start to finish. Whether it's helping you select the right system, providing tailored design advice, coordinating on-site support, or offering maintenance and aftercare resources, we ensure your ventilation systems perform seamlessly at every stage.

Titon Hardware Ltd.
894 The Crescent
Colchester
C04 9YQ
United Kingdom

www.titon.com

Titon®