



OPERATING INSTRUCTIONS

**HPV SERIES
HEAT PUMP
VENTILATION**

**HPW 300
DOMESTIC WATER
HEAT PUMP**

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HPV SERIES comfort technology - heating, cooling, ventilation & hot water with fresh air

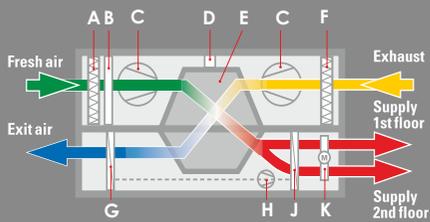
- ① HPV air handling unit with integrated heat exchanger and frequency-modulated air source heat pump
- ② HPW 300 domestic hot water heat pump with 300L tank and optional boost feature
- ③ fresh filtered air from the outside
- ④ exhaust air to the outside
- ⑤ sound attenuation/distribution system
- ⑥ ventilation room terminals
- ⑦ optional supply air ceiling heating terminals
- ⑧ wall-mounted supply air heating elements
- ⑨ full touch-screen displays for central operation and control
- ⑩ secondary zonal control or room thermostats
- ⑪ compact standalone unit for smaller energy-efficient and low-energy homes



ADDITIONAL SOLAR PANEL

To further reduce energy consumption, electricity generated by the solar panel can be used to operate the heat fans and the heat pumps. The additional of a storage battery can increase the availability of electricity you generate and make you less dependent on your electricity supplier.

airflow in the HPV master control unit:



- A pollen filter
- B preheating by heat pump
- C EC fan
- D summer bypass
- E counter-flow heat exchanger
- F filter
- G evaporator
- H compressor
- J condenser
- K power controller

COOLING FUNCTION IN THE SUMMER

Just by bringing in cooler outdoor air from the shade and expelling hot air from the home, the internal temperature can be reduced by several degrees. At high outdoor temperatures, you can use 'comfort cooling' to actively cool and dehumidify the air. This offers additional comfort especially on hot summer days.



OPERATING INSTRUCTIONS FOR THE CENTRAL TOUCHSCREEN DISPLAY OF THE HPV SERIES

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HPV SERIES - fresh air heating technology as a premium system

standalone units for smaller homes



HPV Series 1, 2 & 3



HPV Series S1

First of all, we would like to thank you for choosing the HPV Series heat pump ventilation unit. Please read this operating instruction carefully to ensure optimum operation of your system. It gives you an overview of the central touchscreen control panel functions, typically installed in the main living space, as well as the secondary thermostatic room controllers.

The following elements are built into the system:

- an EC supply air fan and an EC exhaust fan
- F7 pollen filter (fresh air) and a G4 filter (extract air)
- counter flow heat exchanger with automatic summer bypass
- frequency-modulated air source heat pump, which can be optionally switched to cooling
- automatic flow control valve built into the HPV Series 1, 2 & 3 models which varies the supply air flow rates to each zone according to each zone's fluctuating ventilation and heating requirement
- a 'bedroom' connection if required.



Specifying CO₂ and humidity sensors helps to achieve eco-design Class A+ rating. (optional)

A SUMMARY OF FUNCTIONS - CENTRAL TOUCHSCREEN CONTROL PANEL



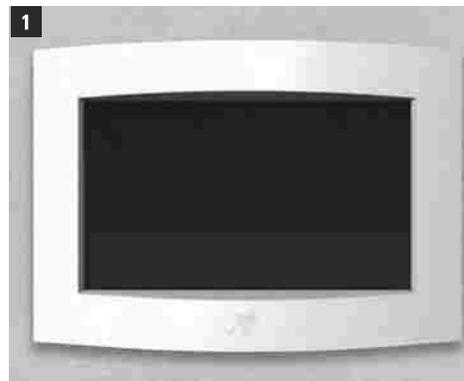
Homepage main menu with icons for selecting the system functions.

The capacitive full-touch display provides effective user control of your HPV Series fresh-air heating system.

FUNCTION OF THE HOMEPAGE ICONS:

-  operating mode
-  setting the target temperature in each room
-  time program
-  system & operating information
-  ventilation level
-  screen lock
-  HPW 300 domestic hot water heat pump interface
-  settings
-  return to homepage main menu
-  back to previous page
-  scroll up or down

B ACTIVATING THE DISPLAY



The display is in standby mode. Enable it by touching the screen surface. The display automatically returns to standby mode if no input is made within 60 seconds.

B1 status information



Once the display is activated, status information is automatically displayed with the following current values:

- operating mode (eg comfort)
- ventilation level (eg 3)
- temperature in the reference room (eg 20°C)

Touch the display again to go to the main menu (homepage).

NB:
The display headings for rooms and zones may not appear in this manual as they are on your display as it depends what descriptions were chosen at commissioning.

C OPERATING MODES



Touch this icon to access operating mode selection. You can choose between five operating modes:



The icon of the selected operating mode is highlighted in white.

C1 selecting operating modes

Stove Mode

In **Stove Mode**, the air source heat pump is in continuous operation regardless of the currently defined target temperature. Although the temperature of the reference room may be increased above target temperature, the effect will be **dis**???

This function gives you the option to enable the PTC terminal heating elements. (C2)

comfort mode

In this operating mode, the air volumes are controlled by the system depending on the measured values.

The control weighting takes place in the following order:

- temperature, CO₂
- relative humidity

This function gives you the option to enable or disable the PTC heated terminals and/or the cooling function (see C2)

ECO Winter

In the Winter the absolute humidity in the outside air is lower than in the summer. Therefore, it may be useful to reduce the ventilation rate in order to prevent the relative humidity from falling too low eg less than 30%.

A time program is available for this purpose. You can use this program to set the required ventilation rates according to your lifestyle and time frames.

However, note that humidity is also generated in the house from cooking, showering, plants etc.

INFO This function gives you the option to enable the ancillary heating elements, eg the PTC heated ceiling terminals or duct heaters, but does not permit active cooling. (Page 9,C2)

When running in **ECO Winter mode**, during the heating season, the room temperature can be 'set-back' to a lower target temperature (18°C) at night-time for optimal comfort and energy efficiency.

ECO Summer

This operating mode gives you the option to enable the heat pump for active cooling but does not permit heating.

With high outdoor temperatures, it may be useful to reduce the fan speed so you do not bring as much warm air into the property and conversely, at night when the air is colder outside, programming higher ventilation rates with simultaneous automatic use of the summer bypass ensures purging of heat that has built-up within the home and a comfort 'night cooling' effect. The effect cannot be compared to the active cooling function though.

INFO To program the operating times and airflow levels, go to the **Time Program** menu which can be found in the main menu under the icon:



Off

Touch the icon **Off** to switch the HPV system off. This will not affect the operation of the HPW 300 domestic hot water heat pump and water storage unit.

INFO If the room temperature falls below 15°C, the system switches on automatically until a room temperature of 18°C is reached, although the operating mode remains 'Off'. The display indicates 'Frost Protection Enabled'.

The heating of the building is not provided by the HPV Series when the system is switched off.

C2 enabling PTC heated terminals or in-line duct heaters



The heating elements are the ancillary terminal heaters and/or inline duct heaters. Heating elements can only be enabled in **Stove Mode**, **Comfort Mode** and **ECO Winter** operating modes.

This is an example of a PTC heated ceiling terminal.

The heating elements within the terminal can be activated to provide backup or enhanced heating and will be controlled via the HPV operating system.

Individual room thermostats monitor the room temperature accordingly and offer a +/-3° adjustment to the preset.



C3 ACTIVATING COOLING FUNCTION



You can only activate the **cooling function** to provide active cooling in **Comfort Mode** and **ECO Summer** operating modes. The effect is to also reduce the relative humidity level.

INFO When the cooling mode is switched on, the heat pumps will run resulting in a higher power consumption.

D SETTING ROOM OR ZONE TEMPERATURES



Touch the **Temperature** icon in the main menu to access the room selection menu. The reference rooms (the rooms with controllers in them) will be displayed.



Touch the **Living Room** icon for example, to set target temperature for that room



you can control the **target temperatures** in the other rooms also from here. Micro-adjustments of +/-3°C can be made at the thermostatic room controllers within the associated rooms (see page 23).

INFO A Total Home Environment service technician can adjust the names of the rooms to suit your requirements.



Touch the **Target** icon to set your required temperature using + or - icons.

Confirm your entry by touching the **OK** icon.

D1 SELECTING THE ROOM



Touch the icon to access the submenu of the associated room or zone.

INFO At least two rooms will be listed, one for each of the two 'zones'. However rooms enhanced with additional PTC heating terminals or inline duct heaters, will also be listed.



Touch the **Target** icon to set your required temperature in the respective room using + or -.

You can also enable or disable the **heat elements** (PTC terminals or inline duct heaters) and activate the **Keylock** for the **heat elements** within the associated rooms. Confirm your entry by touching the **OK** icon.

E TIME AND PROGRAMMER SETTINGS



Touch the icons to access the **Set Time**, **Set Date**, **24/7 Programmer** and **Night Setback** (night temperature reduction) menus.



Set Time



Touch the **Set Time** icon to access the configuration menu for time and day.

Touch the icon you want to adjust. Select the required value using + or -.

E TIME AND PROGRAMMER SETTINGS Contd.

Set Date



Touch the **Set Date** icon to access the configuration menu for date and year.

Touch the icon you want to adjust. Select the required value using + or - icons and confirm your entry with **OK**.

25/7 Programmer



Touch the **24/7 Programmer** icon to access the configuration menu of your customised time program. This allows you to define varying ventilation levels for different times of the day. For example, you may want to set **Level 1** (background ventilation) for periods of the day when the house is unoccupied and **Level 2** as a default for when the house is occupied.



Touch the **On/Off** icon to activate or deactivate the **Set Time** program. The active icon is displayed in white.



Select the desired day by touching the respective button.

INFO You may want higher ventilation levels at the times of the day when you will be bathing and cooking as is evidenced above with the ventilation at level 3 during wake-up and breakfast time.



Then touch the value you want to adjust. Select it using + or - icons and confirm your entry with **OK**.

INFO With the programmer switched to off, the default ventilation level will be as set under the ventilation submenu (see page 16, G Setting the Ventilation Level)

The HPV Series operating system will override the default settings from time to time - for example when heating or cooling is called for.

E1 COPY DAY PROGRAM



Touch the icon (in our example **Monday**) and scroll down using the arrow until the **copy** icon (**Copy Monday** in our example) appears.



Confirm **Copy** with **OK**. The copied values will be copied to the clipboard. The clipboard content will therefore be applied to the next day you select.

E TIME AND PROGRAMMER SETTINGS Contd.

Night Setback

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In the **ECO Winter** operating mode, you have the option to set a night-time reduction of the room target temperature.

INFO As a general guide, 18°C is considered the optimal bedroom temperature for sleeping. The setback will reduce running costs.

23



Touch the **ON** or **OFF** icons to activate or deactivate the set night time reduction. The active icon is displayed in white.

24



Then touch the value you want to adjust. Select it using **+** or **-** icons and confirm your entry with **OK**.

INFO Remember, you will need to program the night setback on two different days to cover one night. For example, program 22.30 - 23.59 on a Monday and from 00.00 - 07.00 on a Tuesday.

F SYSTEM INFORMATION



Touch the **Info** icon to access current system information.

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System Info

Touch the **System Info** icon to access current system overview. The following information is displayed here:

- controller software version
- display software version
- device ID
- device IP
- network status
- ventilation level
- room temperature
- filter runtime
- appliance operating hours

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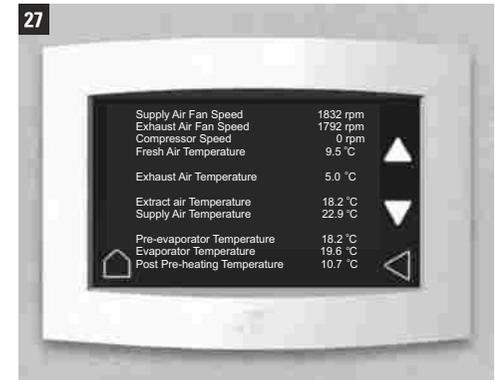


Measured Values

Touch the **Measured Values** icon to access an overview of current operating outputs. The following readings are displayed:

- Magnetic Valve status
- Bypass Status
- 4 Way Valve Status
- Compressor Relay
- Ventilation Relay
- Slider Position
- Exp Valve Pre-heating Position
- Exp Valve Cooling Position
- Exp Valve Heating Position
- Zone 1 temperatures
- Supply Air Fan Speed
- Exhaust Air Fan Speed
- Compressor Speed
- Fresh Air Temperature
- Exhaust air Temperature
- Extract Air Temperature
- Supply Air Temperature
- Pre-evaporator Temperature
- Evaporator Temperature
- Post Pre-heating Temperature
- Condenser Temperature
- Refrigerant Temperature after Evaporator
- Compressor Temperature
- Refrigerant Temperature after Condenser
- Pressure at Evaporator
- Pressure Differential (Defrosting)
- Refrigerant Temp. Diff. Evaporator
- Refrigerant Temp. Diff. Condenser

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F SYSTEM INFORMATION Contd.

CO₂/RH Sensors

Touch the **CO₂/RH Sensors** icon to display the currently measured values for humidity or CO₂ at the sensor locations, if installed.



The following reading are displayed for each sensor:

- current CO₂ level in parts per million
- current relative humidity as a percentage

Error Logs

To access the error menu touch the **Error Logs** icon.



Diagnostics

Touch the **Diagnostics** icon to access an advanced list of current operating values.

This information is not of general interest, but may assist a Total Home Environment technician should diagnostics be required for maintenance purposes.



G SETTING THE VENTILATION LEVEL



In the **ECO Winter / ECO Winter** operating modes, you can select the ventilation level by touching the appropriate icon.



Ventilation level 1: Background ventilation to protect against humidity and off-gassing
 Ventilation level 2: nominal ventilation (standard)
 Ventilation level 3: increased ventilation (heating)
 Ventilation level 4: intensive ventilation (cooling)

INFO In cooling mode the ventilation level automatically increases up to level 4.

Depending upon the internal control requirements, the actual ventilation levels may be different. The **Operating Mode** is also indicated in this case. If for example, intensive ventilation is enabled, you can select a ventilation level, but it will be activated only after intensive ventilation has stopped.

In **Comfort Mode** the system automatically adjusts the ventilation level according to the values of the available sensors.

H HOT WATER SETTINGS



Touch the **Hot Water** icon to access the settings submenu of the HPW 300 air to water heat pump and water storage.

Water Temperature

Press the **Water Temperature** icon to display current water temperature and the set target value in °C, monitored at the midpoint level of the water storage tank.



Press the **Target** icon to highlight and then press **+** or **-** icons to increase or decrease the target temperature. Confirm with **OK**.

Immersion backup / boost

Press the **Immersion backup / boost** icon to activate or deactivate the electric backup heating element.



INFO Your HPW 300 is fitted with an electric immersion heater as a backup (or to boost heating capacity to reduce reheating times). The standard 1.5kW immersion will half the reheat time.

Note, that using this function will result in higher power consumption

H HOT WATER SETTINGS Contd.

Immersion Operating Temperature

Press the **Immersion Operating Temperature** icon to set the maximum water temperature to which the electric immersion will heat the hot water storage, measured at the mid-point level of the storage tank.



Press the **Target** icon to set your required temperature using + or - icons. Confirm with **OK**.

Operation

Touch the **Operation** icon to select the required operating mode for your HPW 300 heat pump and water storage.



You can choose between:

- **ON** (system operates automatically)
- **OFF** (the system is switched off; this does not affect the ventilation system.)

Error Log

Press the **Error Log** to access a list of saved errors message, specifically for the HPW 300.

I SCREEN LOCK



When you clean the display, you should activate the **Display Lock**, to prevent unintended setting adjustments.

Once you press the icon, the display will be protected for 60 seconds.

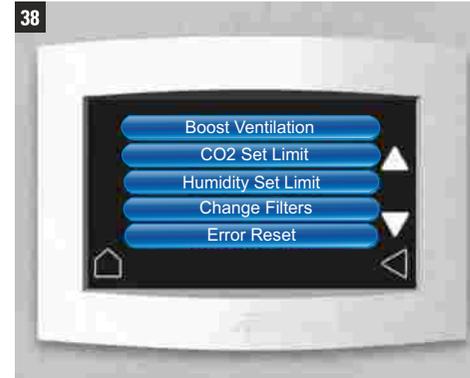


J SETTINGS



Press the **Settings** icon to access the configuration menu.

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The following menu items are displayed:

- **boost ventilation**
- **CO₂ set limit**
- **humidity set limit**
- **change filters**
- **error reset.**



Press the down arrow to scroll to the other icons including:

- **Reset Error Memory**
- **Restart**
- **Language**
- **SW Update**
- **Installer Menu.**

Touch the up arrow to return to the beginning of the menu.

Boost Ventilation

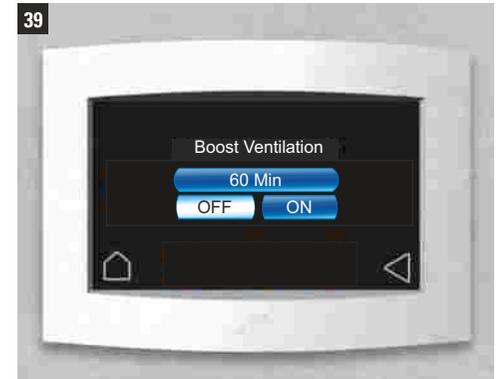
Use this icon to temporarily boost the ventilation to maximum (Level 4) for a prescribed amount of time.

This may be useful for example when frying food, or when hosting a party. You can set the time as usual using the + and - icons up to a maximum of 120 minutes. Once you have selected the duration, confirm with the **OK** icon.

INFO

During a Boost Ventilation cycle, it is not possible to select the ventilation levels in ECO Winter or ECO Summer operating modes.

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CO₂ Set Limit

Press the **CO₂ Set Limit** icon to set the threshold level (in parts per million) above which the ventilation will automatically increase to purge the contaminated air.

40



The ventilation rate will return to the default setting once the CO₂ level has fallen back to the selected limit.

INFO

The harmful effect on animals and humans is due not only to the displacement of oxygen in the air. According to DIN EN 13779, indoor air quality is classified depending on carbon dioxide concentration. For values below 800 ppm, the air quality is considered to be good. Values above 1,000ppm are considered actionable and could cause fatigue, lack of concentration, dizziness, headache and shortness of breath.

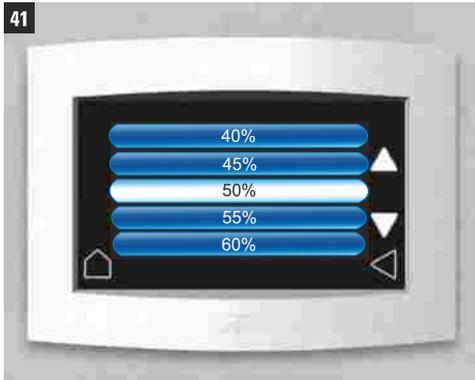
J SETTINGS Contd.

Humidity Set Limit

Press the **Humidity Set Limit** icon to set the threshold value of relative humidity, after which ventilation will automatically increase to purge the internal environment of unwanted moisture.

Once the measured relative humidity value falls back below the set limit then the ventilation rate will return to the default level.

41



Error Reset

Press the **Error Reset** icon to acknowledge the recorded errors and the **OK** icon to clear the current error message.

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Reset Error Memory

Press the **Reset Error Memory** icon and then the **OK** icon to clear the error log.

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Change Filters

Press the **Change Filters** icon to perform filter replacement at any time.

Press the **OK** icon to proceed. The system will power down and prompt you to change the filters within the HPV Series appliance (see page 22).

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Restart

Very occasionally it may be necessary to restart the system. You can do so by pressing the **Restart** icon.

Once you have confirmed by pressing **OK**, the system will automatically restart into the last set operating mode. As it does so, the panel will report: 'Initialisation...'

45



Language

Press the **Language** icon to select the menu language.

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SW Update

The operating firmware will be updated from time to time. Updates can be installed by inserting a 254MB micro USB card into the slot at the bottom edge of the control panel.

Consult a Total Home Environment technician on 0345 260 0123, option 2, for further details.

Installer Menu

Press the **Installer Menu** icon to access the basic settings of the system. This section is password-protected and should only be accessed for commissioning purposes by a Total Home Environment service engineer.

INFO The 'Adjustment' and 'Save factory settings' menu items are reserved for service technicians at Total Home Environment. These menu items are password-protected.

K CHANGING/CLEANING HPV SERIES FILTERS

Each system has one exhaust air filter and one supply air filter. The filters are housed within cassettes which can be accessed from behind two covers at the front of the HPV Series unit.

Both filters need to be checked and cleaned approximately every six to nine months, depending upon house location. They need to be replaced every two years to maintain optimum performance.

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Although the system will continue to operate, if the filters are not checked, a warning is displayed, prompting you to do so.

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INFO On the exhaust side, there is usually a G4 filter. On the supply side, there is normally an F7 pollen filter.

An odour filter can additionally be installed on request to neutralize odours from the outside air (it will be positioned directly upstream of the heat exchanger). You can order the filters by contacting info@totalhomeshop.co.uk or on our website at www.totalhomeshop.co.uk



The protective covers at the front of the unit can be released and pulled out by turning them a quarter turn to the left.



Pull the filter cassettes outwards. Replace or clean the filters by gently vacuuming them. When inserting G4 filters, ensure that the arrow points inwards. Having changed the filter, push the cassettes back

in and lock the covers by turning them a quarter turn to the right.



Confirm filter cleaned/replaced using the OK icon.

INFO Please note that failure to maintain the filters correctly may cause air flow to drop and consequently inadequate ventilation within your home as well as causing extra wear and tear to your HPV Series unit.

L HEAT ELEMENTS - HEATED PTC TERMINALS

53



These room controllers communicate with the main touchscreen display via an integrated data bus.

You can use these room controllers to micro-adjust by +/-3°C the default target temperature for the room.

There will also be one of these panels controlling supply 'Zone 2' of your house. Usually upstairs as opposed to downstairs 'Zone 1' where the main touchscreen display will be.

INFO This is the controller for one of the PTC heated ceiling or wall terminals that are referred to in the Heat Elements section of the main control panel instructions. It could also refer to an in-line duct heater. Either of these will only be in 'supply air' rooms like bedrooms, living rooms and dining rooms etc (not wet rooms like kitchens and bathrooms).

The room controllers instruct these 'top-up' heaters (this is heat in addition to what the heat pump inside the HPV Series is providing) when to turn on and increase the temperature of the room.

There will also be one of these panels controlling supply 'Zone 2' of your house. Usually this is upstairs as opposed to downstairs 'Zone 1' where the main touchscreen display will be.

1 Micro-adjustment to raise room temperature in increments of 1°C above the default room target temperature (default set via main touchscreen controller).

2 Micro-adjustment to reduce room temperature in increments of 1 °C below the default room target.

3 Display the selected target value using the LED bar.

4 Display current room temperature using 3 LED colours:

GREEN = temperature corresponds to the set value

RED = temperature too low; heating request

BLUE = temperature two high; cooling request (only provided by HPV Series unit)

5 Power button to enable the PTC heated elements:

LED is **illuminated RED** = ENABLED

LED **flashes RED** = CURRENTLY IN OPERATION

FAQ'S

HOW OFTEN SHOULD I CHANGE THE FILTERS?

Each system has one exhaust air filter and one supply air filter. The filters are housed within cassettes which can be accessed from behind two covers at the front of the HPV Series unit.

Both filters need to be checked and cleaned approximately every six to nine months, depending upon house location. They need to be replaced every two years to maintain optimum performance. The more urban or close to arable farming you are, the more they will need to be checked.

The main control panel will notify you when the filters need to be checked. It will also guide you step by step through the process.

WHICH FILTERS CAN BE USED?

On the exhaust side, there is usually a G4 filter. On the supply side, there is normally an F7 pollen filter.

An odour filter can additionally be installed on request to neutralize odours from the outside air (it will be positioned directly upstream of the heat exchanger). You can order the filters by contacting info@totalhomeshop.co.uk or on our website at www.totalhomeshop.co.uk

WHAT OTHER MAINTENANCE IS REQUIRED?

At the very least check that leaves and snow do not block up the exhaust and fresh air ducts to atmosphere. These will be in a wall, roof or soffit board, the exact location of which can be found on your design drawings. Ensure that the ventilation terminals are kept free of dust and cobwebs with regular gentle vacuuming.

We recommend that annual maintenance is carried out either by you or for total peace of mind, by a Total Home Environment service engineer. Call us to arrange an appointment. We can even offer a maintenance contract to customers, should this be more convenient, eg for multiple installations.

WHAT IS THERE TO CONSIDER IF I WANT A WOOD BURNING STOVE?

If you intend to install a woodburning stove within your home, it must be airtight. ie have a direct and separate air supply from outside, so that it doesn't take away air that has been heated and which the HPV system would benefit recovering heat from.

For safety reasons, your HPV Series system is generally set with and maintains slightly positive pressure.

Generally, extract terminals will not be located in close proximity to the stove.

Fireplaces are not recommended within an airtight home as the chimney breaches the thermal envelope of the home.

WHICH OPERATING MODE SHOULD I SELECT FOR THE HPV SERIES?

We recommend using the 'Comfort Mode' setting. In this mode, the system can heat or cool as required (if the cooling function is enabled). The ventilation rate within the house will be automatically adjusted as required when installed with the optional CO₂/humidity sensor. See picture 4 on page 8 for a list of operating modes.

HOW DO I MAKE THE MOST OUT OF MY SYSTEM?

Your HPV Series system has been designed, built and adjusted to suit your house and your lifestyle. We recommend that you:

- set the temperature uniformly (no reduction of temperature, or only a small reduction at night)
- avoid unnecessary loss of energy through opening windows in cold weather
- use the circulating pump of the HPW 300 air to water heat pump and storage unit (if fitted) only when it is really necessary
- activate the cooling function only if you really wish to use it and set it to achieve cooling only in particularly unpleasant heat.

HOW DO I KEEP MY HOUSE COOL IN THE SUMMER?

It is essential that the window surfaces are adequately shadowed from direct sunlight and this should have already been part of your house design.

At night the cooling function is supported by the automatic summer bypass. The cooler outside air is fed into the house without heat being recovered from the exhaust air.

If you wish to see if you can lower the temperature in the house more organically, rather than using active cooling you may wish to trial the following:

- increasing the airflow in the early morning (8am - 10am) to level 4 when the temperature outside is cooler than in the house
- reduce the ventilation level during the day (10am-6pm) to level 1 when you don't want too much warm air coming into the house
- increase the ventilation in the evening (6pm-12am) to level 4 when the temperature outside is likely to be cooler than in the house
- increase the ventilation at night (12am-8am) to level 2 when the temperature outside is very likely to be lower than in the house.

WHAT DOES THE BEDROOM COOL AIR DO?

The bedroom cool air is an optional separate air supply channel that comes off the HPV Series unit before the heat pump circuit. It can be used to co-supply air to say a Master Bedroom.

The bedroom will benefit from supply air in the heating mode and a damper will optionally or automatically use the 'bedroom cooler air supply' to supply cooler air, as the air will only be preheated by the heat exchanger, not the heat pump. This will ensure that this room will have cooler temperatures than the other supply rooms in that zone during the heating season.

You can set this up manually (if installed) and there is an automatic control available as an option. You will see on your 3D CAD design whether this option has been specified for you.

WHICH VENTILATION LEVEL IS RIGHT AND WHEN?

In the operating mode **Comfort Mode**, the system selects the right ventilation level on its own, by reference to the CO₂ and relative humidity sensors.

Otherwise in **ECO Summer** and **ECO Winter** modes there are four ventilation levels:

- Level 1 - background ventilation to protect against humidity (useful as well in an unoccupied house)
- Level 2 - nominal ventilation (standard)
- Level 3 - increased ventilation (heating)
- Level 4 - intensive ventilation (cooling)

Level 4 is used when in temporary **Boost Ventilation** mode when you are for instance frying food or hosting a party.

CAN I SWITCH THE SYSTEM OFF IN THE SUMMER?

Yes. However, we recommend switching it off only for an hour. Please ensure that there is an air exchange via windows and doors to the outside if the HPV Series unit is switched off. This is necessary to ensure humidity levels, odours etc can be nominally controlled.

WHAT HAPPENS TO THE HPW 300 AIR TO WATER HEAT PUMP AND STORAGE UNIT IF THE HPV SERIES UNIT IS SWITCHED OFF?

The HPW 300 works completely independently of the HPV Series unit and there will be no consequence to the performance or operation of the HPW 300.