

# Instruction Manual

A detailed explanation of the functions and features of your new Ventis system



# ventis

The operating philosophy of Ventis is simple, “to introduce as much clean, dry and filtered air as possible into your home whilst contributing to your comfort”.

This means that in winter, whenever the roof cavity is warmed by the sun's energy, the heating symbol will come on and your Ventis will introduce this freely heated air and circulate it throughout your entire home.

On hot summer nights, the Ventis system will draw in the cool air to provide cooling and help you get a good night's sleep.

You can call us at any time on 1800 80 20 80 should you require help with your Ventis Home Ventilation system.

The Team at **ventis**

### Important Safety Instructions:






- This appliance is not intended for use by persons (including children with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they don't play with the appliance.
- DO NOT attempt to modify or repair the appliance yourself –there are no user serviceable parts. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

# Index

|                             |  |    |
|-----------------------------|--|----|
| Controller Main Screen      |  | 3  |
| Mode and Air Source Symbols |  | 4  |
| Introduction                |  | 5  |
| Modes                       | AUTO / FLUSH / OFF                             | 6  |
| Menus                       | Explained                                      | 9  |
| Modes                       | Modes Drying / Heating & Cooling / Ventilation | 11 |
|                             | (LO / MID / HI) 14                             | 14 |
| Air Sources                 |  | 15 |
| Accessories                 |  | 17 |
| Other Information           |  | 19 |
| Maintenance                 |  | 20 |



## Controller Button Functions:

-  Increase Set Point / Select Item Above
-  Decrease Set Point / Select item below
-  Exit Menu / Return to previous screen
-  Enter Menu / Increment Value
-  Scroll between operating modes  
OFF > AUTO > FLUSH > OFF

# Your controller main screen - what it all means

## Auto Whirly Status

Only displayed if fitted

## Filter Change Warning

## User Set Point

Adjustment form 14 C to 28 C  
Hidden when in FLUSH mode

## Operating Mode

OFF / AUTO / FLUSH / ERROR

## Animated fan

Visible when the  
System Fan is running

## Maximum Fan Speed

25 / 50 / 75 / 100

## Fan speed bar graph

## Source Temperature

Appears in multiple locations

## Air Source Display

Shows currently selected source,  
Colour indicates mode

## Room Temperature

## Relative Humidity

## Enabled Modes

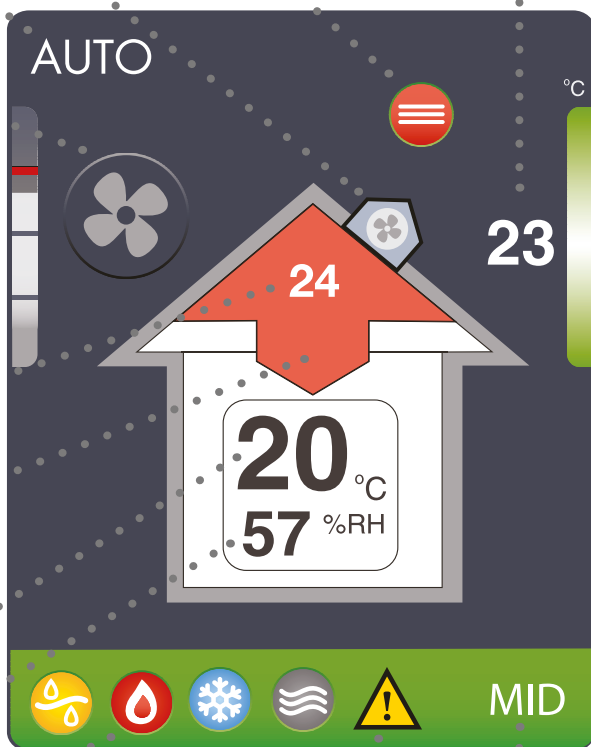
DRYING / HEATING / COOLING /  
VENTILATING

## Error Display

An error condition  
has been detected

## Selected

Circulation Level  
LO / MID / HIGH



# Mode and Air Source Symbols

## MODE DISPLAYS



DRYING



HEATING



COOLING



VENTILATING



HEATING ACTIVE



HEATING ENABLED



HEATING DISABLED



FILTER CHANGE DUE

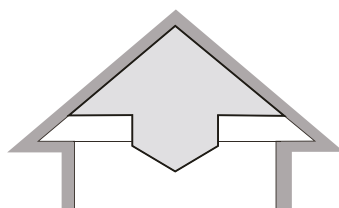


FILTER CHANGE OVERDUE

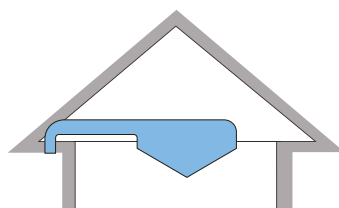


FAULT HAS OCCURRED

## AIR SOURCE DISPLAYS



CEILING



OUTSIDE

# Introduction

Your Ventis is smart enough to be fully functional whilst fully automatic. Most of the time it will be operating in the default factory settings in "Auto" mode.


The default settings you have been supplied are the ones we are confident are best for the environmental conditions in the region you have chosen to live, but we cannot accurately assess each and every personal preference.

To make any changes in the settings first wake up the control panel by pushing any button. The controller will light up to its brightest setting when it is activated.

**AUTO MODE** means the Ventis is **On** and will operate **Automatically**.

**FLUSH MODE** means the Ventis fan will run at maximum speed for up to two hours.






**OFF MODE** is a manual override setting and means the Ventis is off regardless of your setting and roof space temperature. The Ventis will remain Off until another mode is selected.

Each of these modes can be accessed by pressing the Main Power button  to toggle through each option.

The Ventis will scroll through AUTO - FLUSH - OFF.

# AUTO Mode

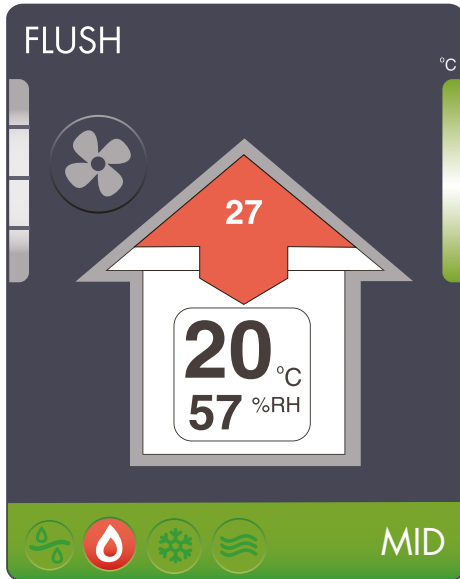







-  Increase Set Point
-  Decrease Set Point
-  To Source Humidity Display
-  To Main Menu
-  Change to Flush

AUTO indicates that the Fan will activate when a desirable air source (the most suited to achieving your desired temperature set point) is available.

The fan and fan speed bar graph will appear when the fan is on along with Heating/Cooling or Ventilating icons show the reason the fan is running. The source will be displayed.

# FLUSH Mode



-  Change to previous source
-  Change to next source
-  To Humidity Display
-  To Main Menu
-  Change to OFF Mode

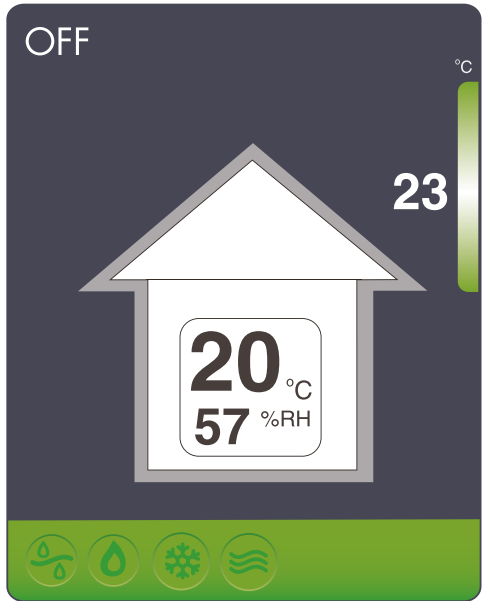
**FLUSH** will cause the fan to work at full speed for up to two hours. Great for flushing out odours or if there is excess moisture in the home (burnt toast, cooking smells, steam cleaning, etc).

The fan bar graph will appear at max speed. You can change the **FLUSH** mode air source as shown below.

The source will be displayed.  
The set Point is ignored and is hidden.



## OFF Mode



Increase Set Point



Decrease Set Point



To Humidity Display



To Main Menu



Change to AUTO Mode

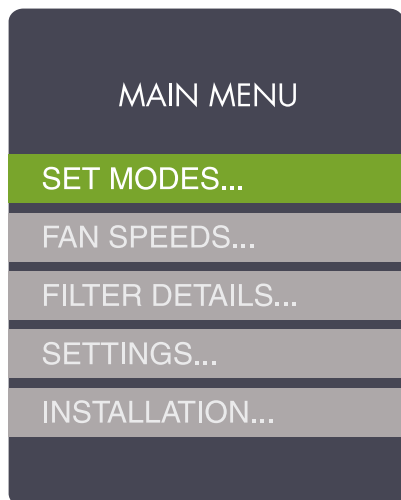
**OFF** indicates the Fan, Auto Whirly and Dampers are disabled.


Room temperature and Humidity continue to be displayed.

The set Point is displayed and may be changed.

# Menus





## Main Menu



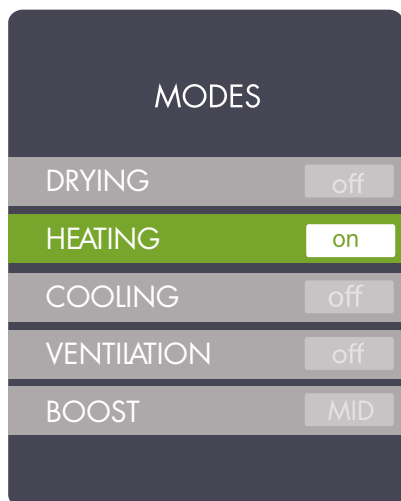
The Main Menu is used to gain access to various sub-menus. To get to the main menu simply press the  button from any main mode screen.

- Set modes
- Fan Speeds
- Filter Details
- Settings
- Installation

The highlighted menu will be selected when the right arrow is pressed. Three dots, known as an ellipsis (...), indicate a sub-menu is available on this line. Please see all sub-menus explained on the following pages





-  Select item above
-  Select item below
-  Exit to Main Screen
-  Enter selected menu

## Set Modes Menu



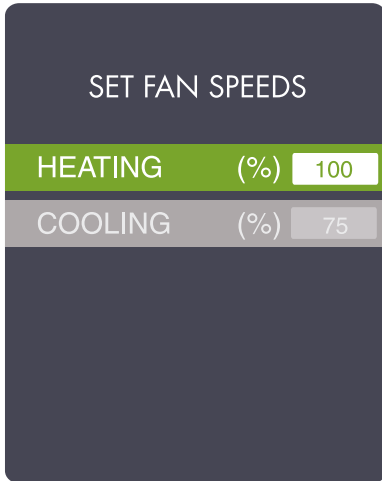
The Mode Menu is used to enable or disable Drying, Heating, Cooling and Ventilation Modes.

- Drying
- Heating
- Cooling
- Ventilation
- Boost

-  Select item above
-  Select item below
-  Exit to Main Menu
-  Change selected value

\*See page 14 for circulation levels explained.

## Fan Speeds Menu



The Fan Speed Menu is used to set the maximum available fan speeds in the Heating and Cooling Modes.

- Drying
- Heating

Available Maximum Fan Speeds are: 25%, 50%, 75% and 100%. By pressing the Right Arrow will change the selected item

Ventis Recommend 100% fan speed unless otherwise advised by any Ventis service technician.



Select item above



Select item below

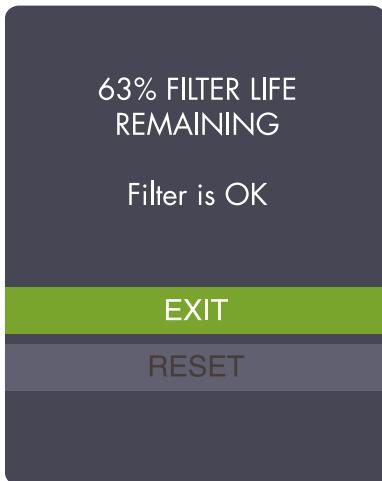


Exit to Main Menu



Change selected value



## Filter Details Menu



The filter life remaining is displayed as a percentage from 100% down to 0%.

Your screen will now show % filter life remaining.

|         |                       |
|---------|-----------------------|
| 100-20  | Filter                |
| OK 19-1 | Filter Change Due     |
| 0       | Filter Change Overdue |

The Filter Reset Menu is enabled by pressing  the and  buttons simultaneously. Once highlighted the filter life can be reset.



Exit to Main Menu

\*See also page 19 for filter change requirements

# Settings Menu

The Settings Menu is used to set various user preferences:

DSP BRIGHT

low

Display Brightness is the illumination used when the display is inactive.

DSP DELAY (s)

30

Display Delay is the time (in seconds) before the display becomes inactive.





AUTO WHIRLY

Auto Whirly (if applicable) enables or disables the Auto Whirly fan.

HUMIDITY SPT

50

Set point is the room relative humidity above which drying is enabled.

-  Select item above
-  Select item below
-  Exit to Main Menu
-  Change selected value

\*See drying mode page 12 for suggested set point

# Installation Menu

The Installation Menu allows the User to observe details about unit operation:

FAULT CODE

0





Fault Code Fault Code is any previously cleared error code, normally 0.

PRODUCT

C

Product It displays the installed product configuration ie: CO = Ceiling/Outside

C = Ceiling O = Outside  
T = Transfer F = Floor

-  Select item above
-  Select item below
-  Exit to Main Menu
-  Change selected

CONFIGURE...

Configure [no longer showing on V2.43 and above]

LIVE TEST...

Live Test Live test runs through an automatic test of all attached components of the system, this is usually only run upon installation and when accessories are added.

The firm-ware version number is displayed at the bottom of the screen

## Modes - Drying / Heating & Cooling / Ventilation / Boost

DRYING (Available in version 2.31, 2.32, 2.33 & 2.40)

DRYING

on

Enable Drying when your room is too damp.

The Humidity Set point must be set to the desired level. When Drying is enabled and the Room Humidity is higher than the Humidity Set point, drying mode will inhibit operation of the fan to prevent incoming air increasing the room moisture level.

The following Humidity Set points may be used as a guide:

40%: Very dry, this is for condensation problems in cold climates.

50%: Dry, this is for condensation problems in temperate climates.

60%: Low level drying, will reduce moisture to normal levels.

70%: This would only be considered a drying level in tropical regions.

### IMPORTANT:

Depending on the moisture in your room, your environment and the Humidity Set point you have chosen, Drying Mode may significantly reduce the Heating and Cooling benefits of the Ventis system. It should only be used when condensation or moisture is a problem.

### To set the humidity Set Point:

If your home does not have excess moisture problems then the Humidity Set point may be left at 50% and the Drying Mode turned off.

If you wish to reduce the moisture level in your home turn Drying Mode on.

Now take note of the room Relative Humidity (%RH) between noon and 6pm on any given day, then adjust the Humidity Set point to around 10% lower or nearest available value.

---

## HEATING & COOLING

HEATING

on

Enable Heating during the winter months to allow your Ventis system to heat your home. This mode enables your Ventis to draw warmer air (when available) from the installed sources whenever the room is colder than the Temperature Set point. Heating mode may be overridden by Drying mode.

COOLING

on

Enable Cooling during the summer months to allow your Ventis system to cool your home. This mode enables your Ventis to draw cooler air (when available) from the installed sources whenever the room is hotter than the Temperature Set point. Cooling mode may be overridden by Drying mode.

## VENTILATION

VENTILATION

on

Enable Ventilating mode if your room is very stuffy, stale or damp. This mode allows your Ventis to draw in fresh air on a continuous basis with the fan speed automatically varying depending on the temperature set point, room and source air temperatures and humidities. This mode may be overridden by Drying mode.

Ventilating mode could make your room slightly hotter or colder, as fresh air may be drawn in at low speed that shifts the room temperature away from the desired set point.

### **IMPORTANT:**

Extended use of Ventilating mode (particularly with Hi Boost) could increase your energy bills by competing with other heating or cooling systems in your home.

## BOOST

BOOST

MID

Set the Boost level to increase the activity of your Ventis system.

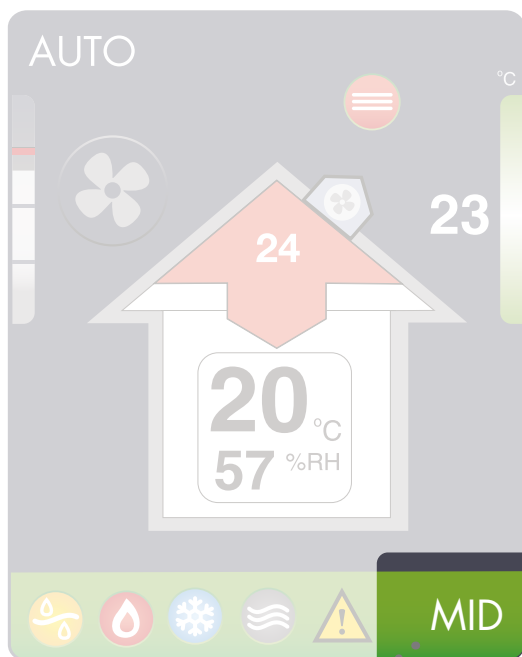
**LO:** This mode is a lower airflow setting, and creates the benefit of low energy usage.

**MID:** This is the normal Ventis mode, suitable for the majority of homes.

**HI:** Use this boost level if you are experiencing very damp conditions.

\*See also page 14 for more detailed explanation of the circulation (BOOST) modes

## Circulation Levels



Selected MID

Circulation Level

LO(ECO) / MID / HIGH

### LO/ECO/C1 Mode

In this mode, the Ventis will only operate when the roof space is at least 2 degrees more desirable than your home but taking your house temperature towards your Set Point (SP).

\*LO, ECO or 1 depends on which software version you have.

### MID/C2 (Normal Ventis Mode)

In this mode, the Ventis will only operate when the roof is at least 1 degree more desirable than your home but taking your house temperature towards your Set Point. It takes a further 2 degrees for the fan to ramp up to 100% operating speed.


### HIGH/C3

In this mode, the Ventis will only operate when the roof is at least 1 degree more desirable than your home but taking your house temperature towards your Set Point. It takes a further 1 degree for the fan to ramp up to 100% operating speed.

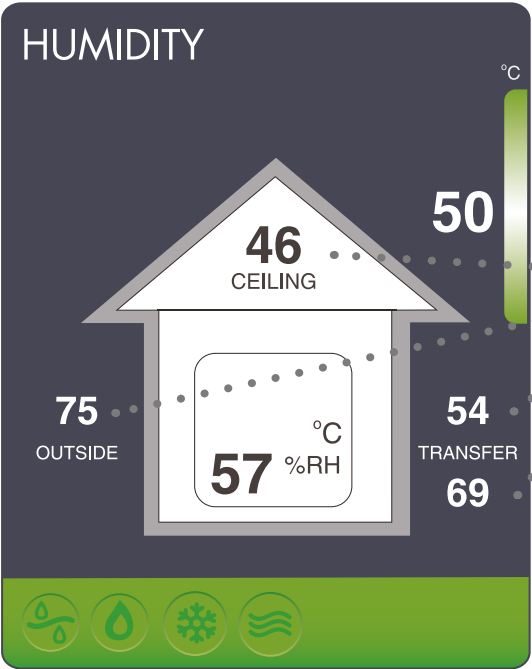
\*Circulation HIGH is desirable for homes suffering from Condensation and severe Mould growth. Once the home has dried out and the mould source has been remedied then it is advised to set your Circulation level to LO to maintain the best results and contribute to your homes Heating and Cooling requirements.

To adjust your circulation level, visit the Modes Menu via the Main Menu screen.





# Air Source Displays

You can easily see the temperature and relative humidity of your available air sources through the Source Humidity Display. From any main mode screen press the  button to reach Humidity Display.

## HUMIDITY Display

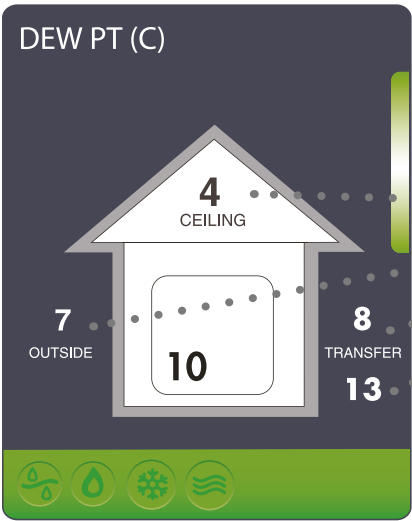


The Source Humidity Display shows the relative humidity measured at each available air source. The room relative humidity and Humidity Set Point are also displayed. All values are in % Relative Humidity

- Ceiling
  - Outside
  - Transfer
  - Floor
-  Back to Main Screen
-  Back to Main Screen
-  To DEW PT display
-  Back to Main Screen



# Dew Point Display

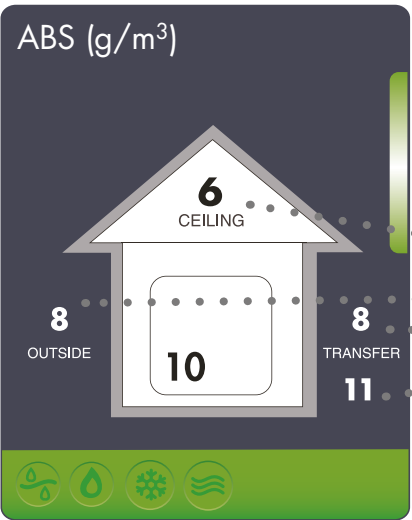


The Source Dew Point Display shows the calculated dew point temperature for each available air source. The calculated room dew point is also displayed. All values are in Celsius.

- Ceiling
- Outside
- Transfer
- Floor

- Back to Main Screen
- Back to Main Screen
- To ABS Display
- To HUMIDITY Display

# Source Absolute Humidity Display

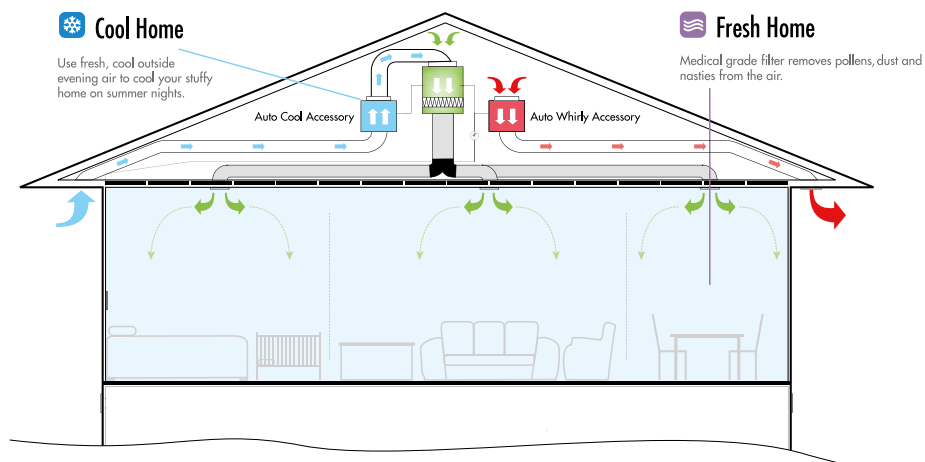


The Source Absolute Humidity Display shows the calculated water content of each available air source. The calculated room water content is also displayed. All values are in grams of H<sub>2</sub>O per cubic metre. (g/m<sup>3</sup>)

- Ceiling
- Outside
- Transfer
- Floor

- Back to Main Screen
- Back to Main Screen
- Back to Main Screen
- To DEW PT Display

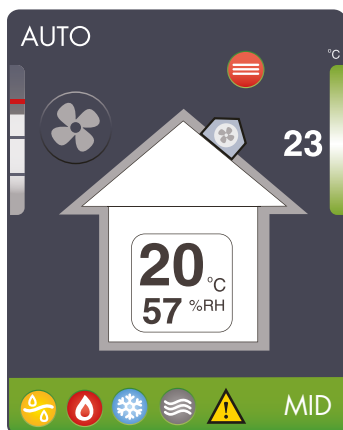
# Optional Accessories



## Auto Whirly

The Auto Whirly is an optional accessory and can be added to your Ventis at any time. The Auto Whirly is designed to extract the hot air from your roof space on a hot summers day and draw in the cool air from outside when the sun goes down to accelerate the cooling capabilities of the Ventis at night.

When an Auto Whirly is fitted, it is activated and wired up to your controller by the Ventis Install team, so there is nothing on the control panel that you need to worry about to get it operational. It is fully automatic and will only operate when the roof cavity is too warm to provide any cooling benefit.



Your Auto Whirly is working when you see the small fan icon on the right of the roof image.

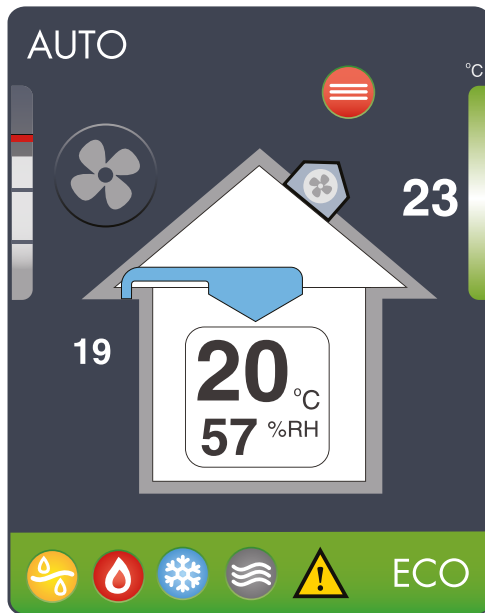
You will see it in operation through the warm summer months when it helps cool your home by purging unwanted heat from your roofspace. You will not see it operating at all through the winter when we want to save the warm air and provide that to help with your heating requirements.

# Auto Cooler

The Auto Cooler is an optional accessory and can be added to your Ventis at any time.

The Ventis Auto Cooler has temperature and humidity sensors that operate dampers to choose the best source of air for either cooling or warming your home.

Typically, in summer the Auto Cooler will choose the outside source (eave or roof vent) for cooling your home at night when the sun goes down. During winter, the dampers will switch to the roof to harvest the warm air inside the roof space.



# Other information

## Working with existing heating/cooling systems

If the house has additional heating and cooling systems it is important that the Ventis System is set between 2°C and 4°C higher than the Ventis set point. This will enable Ventis to work more than your artificial Heat and or Cooling system, which you can manually Heat and Cool at any time. High circulation levels are likely to increase supplementary heating and cooling costs as external air is drawn into the home. Set your desired temperature from the main AUTO Mode screen by pressing the up and down arrows on the right side of the controller panel.

## Winter and Summer Operation

In winter: Cooling should be disabled  
In summer: Heating should be disabled.

This will prevent the Ventis System competing with other air heaters or coolers. Control Heating and Cooling modes from the Modes Menu.

A step by step instruction video is available on our web site [www.ventis.com.au](http://www.ventis.com.au) on how to change the setting from Winter to Summer

## Filter Change Requirement

Filters need replacing approximately every 12 months. The system will let you know when it's time for a filter change. You can change the filter yourself or get a helpful Ventis technician in to do it for you. A DIY filter change instructional pdf will be available for download from the website - [www.ventis.com.au](http://www.ventis.com.au). We do however advise that every alternate year a service technician does come out and change your filter and check your system.

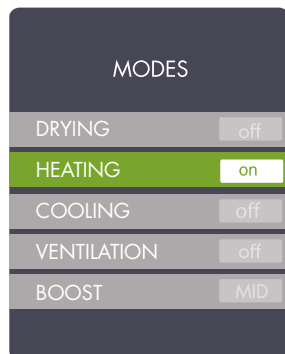
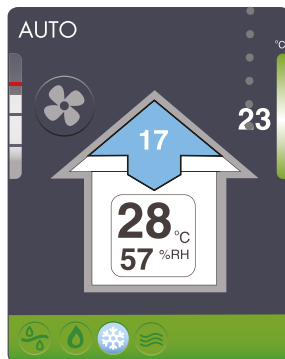


Filter Change Due



Filter Change Overdue

The desired set temperature



# Maintenance

Only a suitably qualified and competent person may carry out maintenance after the electrical supply has been isolated.

Call Ventis on **1800 20 80 20** to organise for your friendly service technician to visit should maintenance or service be required.



## Startup Display

Sign-on screen:  
Displays software name

Customer Firmware Version Number  
Times out after 5 seconds. Planet  
Innovation Copyright Fault Screen

## Fault Display

The Fault Display appears if a persistent error occurs. Users should note the Fault Number when reporting errors for service. The **TITLE** and Fault Description may assist the user is self-diagnosing and rectifying the problem. Pressing any key will exit the error screen, if possible. Some errors cannot be manually reset. Please contact our customer service for support.

Call **1800 80 20 80**  
or email **support@ventis.com.au**



# Maintenance Continued

## Controller Reset

The GUI (wall controller) may be reset by pressing and hold the power button for 5 seconds until the GUI beeps and the sin-on screen is displayed

## SD Card

The SD card must be fitted for normal operation.

SD card contains graphics images for display, Installation default options, Installed configuration data, user preferences, filter life information, error titles & descriptions & version information.

Should you need to take out the SD card (not recommended) please ensure the to turn the power off before removing or inserting.

## Steam Up

A 'Steam Up' occurs when warmer wet air is introduced into a cold room.

As the thermal mass of a room is dominated by the solid surfaces in the room, the air will initially cold to near the existing room temperature. If the air cools below its dewpoint, condensation will occur on cold surfaces, such as glass & plaster board.

The Ventis has steam up prevention enabled in **AUTO** mode operating. This can be overridden by using the **FLUSH** mode at the users discretion.

# Guarantee

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For any warranty claims please contact



Ventis Pty Ltd  
PO Box 6072  
Frenchs Forest





1800 80 20 80

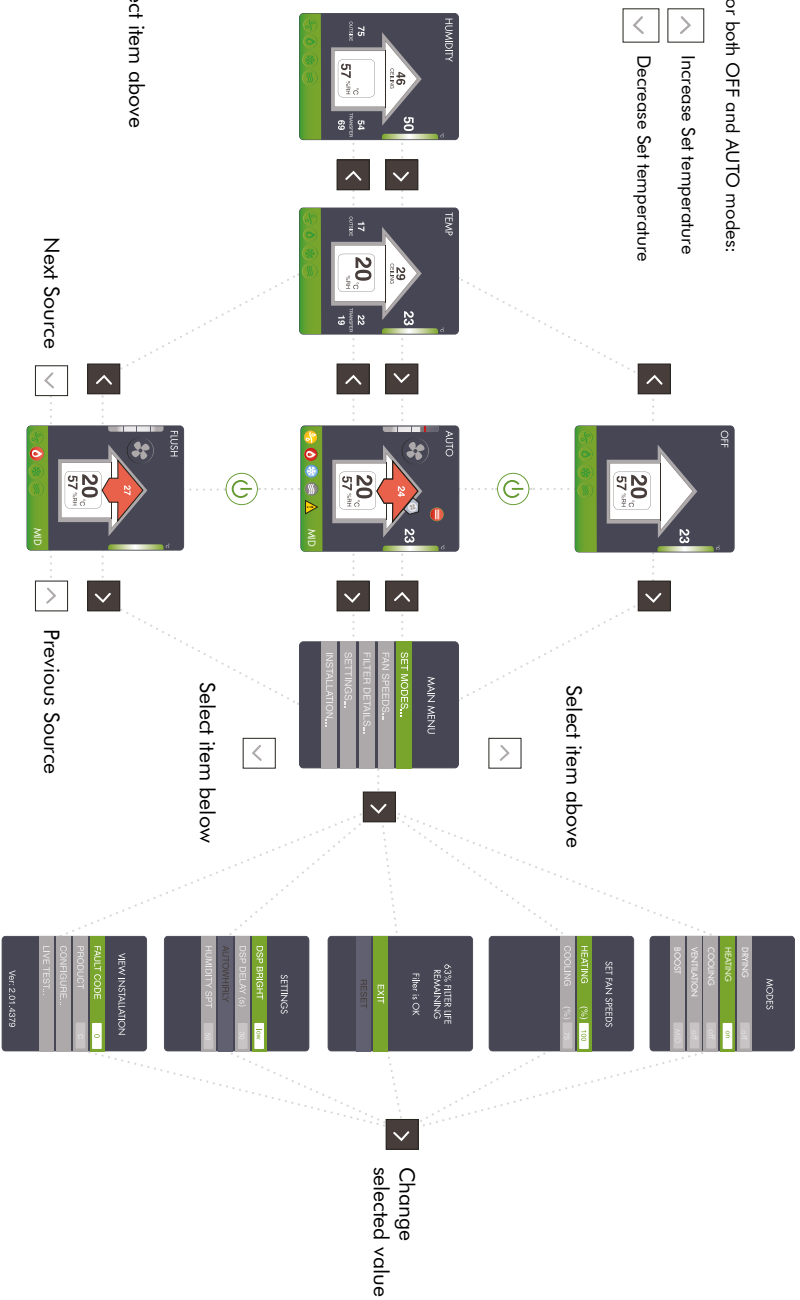


info@ventis.com.au

# Screen Navigation

For both OFF and AUTO modes:

-  Increase Set temperature
-  Decrease Set temperature



# ventis

HOME VENTILATION

July 2020

1800 80 20 80  
[www.ventis.com.au](http://www.ventis.com.au)