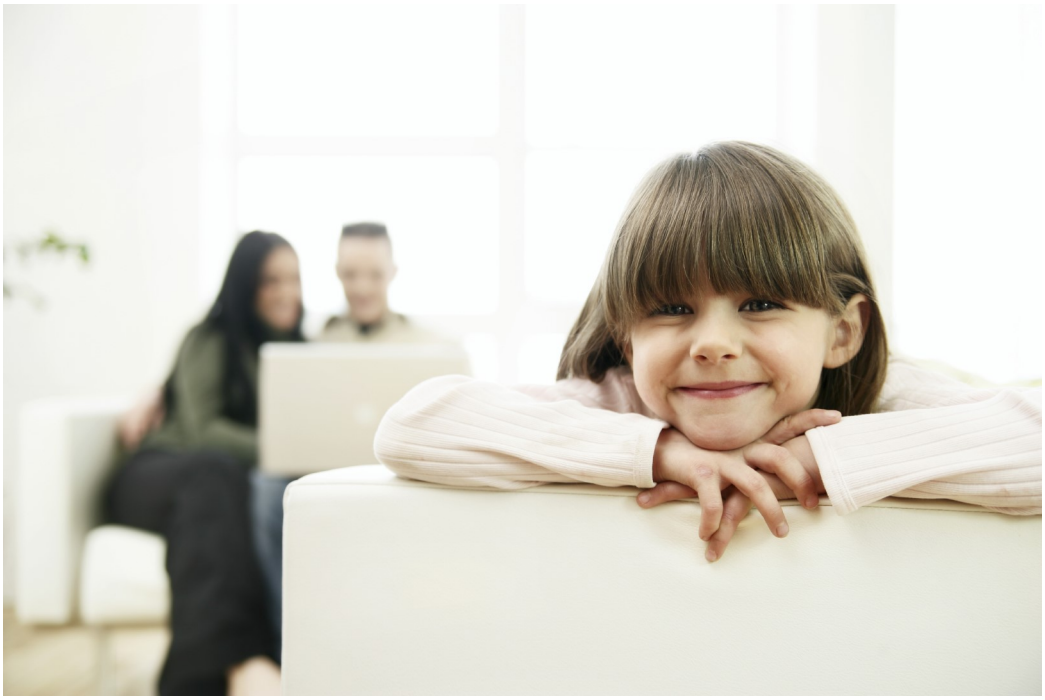
User Instruction Manual

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



"We Want You To Have The Best"

The team at SAYR thank you for choosing a SAYR Positive Pressure Ventilation System.

For new installs, Please ensure you read the FAQ's at the rear of this manual.

A SAYR system has been specifically designed for ease of use so no complex instructions are needed.

If your questions are not answered here then you may well find what you are looking for on our website: www.sayr.co.nz. Specifically in the FAQ section.

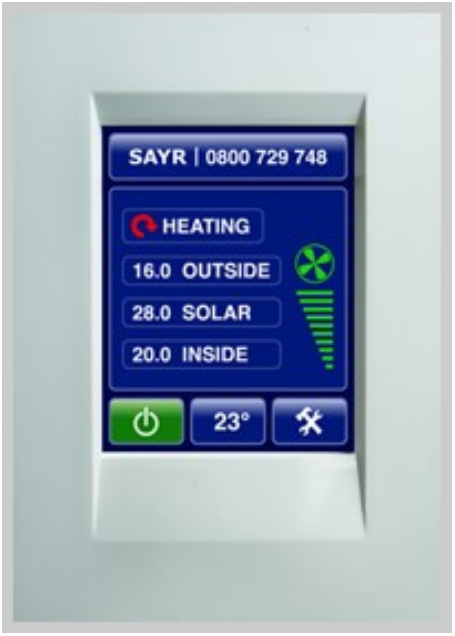
The basics, how the system works.

Your SAYR will deliver warmer drier fresher air into the home when needed and when it is available. In doing so flushing out impurities, dampness and pollutants.

SAYR is not a primary heating or cooling system however it will use the energy provided by mother nature to heat or cool your home when it is available using your roof like the giant solar panel it is.

Understanding the Touch Panel Controller

The full colour touch screen controller is the ‘brains’ behind the system.



Although small it is very powerful using the latest microchip technology.

Many years of development, testing and compliance have gone into making this system the best it can be.

When the screen is lightly touched, it will brighten up for ease of view, when not touched for 60 seconds it will revert back to backlight mode which can be adjusted for light sensitive situations, this is explained later.

Adjustment can be made by lightly touching the buttons and variations to this screen will come available, again, with no activity for 60 seconds the screen will revert back to the main screen.

Any adjustments are automatically stored after a 15 second period, there are no accept buttons or the like necessary.

If the front cover needs to be removed for what ever reason, care must be taken with the sensitive temperature probe which is on the bottom left (your left) of the controller. Please do not move this probe from the channel.

Should the system ever be powered off, all the settings are remembered and when powered back up will revert to the settings as when powered off. Nothing else is needed to be done.

What are the symbols on the controller

Indicates the climate mode: Filter. Cooling. Heating.

Indicates the temperature outside.

Indicates the temperature inside the ceiling cavity

'Solar Energy'

Indicates the actual temperature inside the home

The fan symbol and bars indicate the speed of the fan.
A full bar or green line indicates full speed.
Graduated green lines and clear lines indicate a slower speed.

The green button is on/off. When the system is 'on' the button is green. switched off the button will change to red. The fans will be off however the system is still powered up and the touch panel is still illuminated.

The system will auto back on after 8 hours.

The hammer and spanner button is for servicing and adjustments.

Using Your SAYR

IMPORTANT TO NOTE

CONTROLLER SHOWS SYSTEM AS ‘OFF’

Your SAYR system has been specifically designed to automatically care for the climate conditions inside your home.

There may be times in winter, during the early hours of the morning when the system will be showing as ‘off’ This is a feature which turns the system off when the temperature in the roof cavity reaches a predetermined temperature which is not beneficial to the home. This is normal.
When a more acceptable temperature is reached in the cavity, the system will automatically turn back on.

The same will apply in summer, during very hot days when the ceiling temperature reaches 35deg or above, the system will automatically reduce speed and turn off. It will turn back on when the temperature in the roof drops again later in the afternoon or evening.

Using Your SAYR

Temperature setting

The controller has been factory set and the installers have adjusted the unit unique to your home. You do not have to do anything else.

The desired or target temperature is shown in the middle of the 3 buttons along the bottom of the controller. This is the temperature which the system will constantly strive to achieve whether that be by heating or cooling.

This temperature is adjustable by simply using the touch screen control panel.

Lightly touch the glass screen with your finger over the temperature button, immediately you will hear a single beep and the boxes on either side will change to an up and down arrow. By touching these arrows you can adjust this temperature setting up or down.

When finished, touch the temperature button again and it will beep and revert back to the main screen.

Now, the unit will strive to reach the temperature you have selected.

If the temperature in the roof is warmer that inside the house and the desired temperature setting is higher than the temperature inside the house, you will see a red arrow beside the word ‘heating’. This indicates your solar panel is warming the inside of your home. The fan indicator will indicate the fan is on and the fan speed will be dependant on the temperature variables between all three solar, inside and target temps .

Using Your SAYR

Settings Button

Min Fan Speed.

The settings button is the hammer and spanner button on the bottom right of the controller.

Touch this button once and an audible beep will be heard. The middle button will change to ‘min fan speed’. The buttons either side will change to up and down arrows.

The min fan speed is the ventilation mode speed and represents a % of the fan speed. The default setting is 15 although it would not be uncommon for the installers to recommend a setting of 10 or 20 dependant on the size and other factors of your home.

It is strongly recommended that you leave this setting on which the installers set it to otherwise discussed with a salesperson or technician.
Do not be tempted to put this setting up too high in the belief that more is better, filtration mode is exactly that, too much can unduly affect the climate in the home.

This may be reduced in summer by 5%, any more should be discussed with a technician. It is important that this is restored to its original winter setting.

To close out of this screen, touch and hold the middle button for three seconds until a beep is heard or simply leave it and it will revert to the main screen automatically after 60 seconds.

Using Your SAYR

Settings Button

Backlight Level

The settings button is the hammer and spanner button on the bottom right of the controller.

Touch this button once and an audible beep will be heard. The middle button will change to ‘min fan speed’. Touch the middle button once more and the backlight level screen will appear with up and down arrows on either side.

There are 4 settings for the backlight level, HIGH, which is the default setting and is used in 95% of installs.

Using the down arrow will change this level to medium, low and off.

When in the off status, the screen will turn off and appear off when in backlight mode, the screen is still ‘live’ and will come back on by simply touching the screen. It will stay on until it gets 60 seconds of inactivity and then reverts back to its chosen setting.

To close out of this screen, touch and hold the middle button for three seconds until a beep is heard or simply leave it and it will revert to the main screen automatically after 60 seconds.

Using Your SAYR

Max Vent

MAXvent is a very useful and beneficial feature.

By touching and holding the middle temp button with your finger for 3 seconds, the MAXvent function will be enabled. This overrides the automated setting and switches the fan on full speed. This is very handy for expelling unwanted fumes, smells and generally ‘maxing’ the filtration process.

When chosen, the word ‘MAXvent’ will appear above the 3 buttons on the bottom of the screen. The fan speed bar will indicate the fans are on full and this event will continue for approximately 1 hour and then revert to automated mode. You can choose MAXvent at anytime.

It can also be useful to ‘purge’ the ceiling space of excess hot air in summer however be sure to leave outside doors or windows open during the purging process to prevent the inside of the home from becoming too hot.

Kiddie Lock

The screen can be locked by touching and holding the on/off button for three seconds, a beep will sound and ‘locked’ will appear on screen.
To turn off kiddie lock is the same procedure.

Using Your SAYR

Smoke Detector

Your SAYR system has come fully equipped with an integrated smoke detector to detect smoke particles in the roof cavity and in the system exclusively for your safety and well being

If the system detects sufficient smoke particles it will immediately and automatically switch off.

The word “SMOKE” will display on the control panel.

The system will remain off until such time the smoke clears and will automatically turn back on to its previous settings.

If for what ever reason you do not want this function activated, then contact your local supplier and they will explain how to disable this feature.

If the system is manually put through a “full system restore”, the smoke detector will need to be manually set to ‘on’. The factory default is set to ‘off’.

IMPORTANT

The SAYR smoke detector is not designed to be a smoke ‘alarm’ and is not to be used as a substitute for a fully functional smoke alarm system.
It is designed as a detector for the sole purpose of shutting down the ventilation system should smoke be detected in the ceiling cavity.

Using Your SAYR

Filter Change Reminder

The system is equipped with a filter change reminder function.

Once the system has been installed for 750 days a red letter ‘F’ will appear in a red triangle above the fan speed indicator.

This alerts you to the fact that you should start thinking of changing the filter or filters in your system, they are not due for replacement at that point this is merely a reminder.

50 days after the red F appears, if the system has not been reset or the filters changed the red F will then flash. It is at this point that you should change or have arranged for the filters to be changed.

Should a further 50 days pass by and the filters haven't been changed, the controller will emit a soft beep to alert you to this.
This beep can be turned off by touching and holding the red ‘F’ for 3 seconds, the beep will recommence after one week.

Once the filters have been changed, the filter reminder function can be reset.

To change filters DIY, see the instruction at the end of this manual.

Filter light reset.

Control Version 1.

On the top left of the panel ‘touch’ the word SAYR.

Then: Touch the settings button, bottom right, 3 times.

Scroll through different menus by touching the middle button on the bottom of the screen.

When reaching the ‘Filter’ screen, there will be up and down arrows on either side of a number, the number will be anything between 650 and 999. Using the down arrow, reduce this number in blocks of 50 until ‘0’ is reached.

Then hold the middle button for 3 seconds, you will hear a beep. This returns you to the main screen. The filter alarm has been reset.

Important: Do not change any other settings in the settings menu. These have been set by the installers and any changes may adversely affect the performance of the system.

Control Version 2 on next page.

*How do I know if I have version 1 or version 2.

When the filter alert is visible – red F in a red triangle:

Version 1 will not have the reset function in the settings screen then follow control version 1 instruction.

Version 2 will have the reset function in the settings screen then follow control version 2 instruction.

Filter light reset

Control Version 2.

The bottom right side of the controller, touch the settings button (hammer and spanner). Touch the middle lower button twice and the ‘reset filter alert’ screen will appear. It will ask “reset filter alert”, it will say ‘NO’. Using the right side arrow button change the no to ‘YES’, then touch ‘YES’. The screen will then revert to the main screen and the filter alert will have been reset.

*How do I know if I have version 1 or version 2.
When the filter alert is visible – red F in a red triangle:
Version 1 will not have the reset function in the settings screen then follow control version 1 instruction.
Version 2 will have the reset function in the settings screen then follow control version 2 instruction.

FAQ's for new Installations

Q - We have just had a new SAYR installed and our windows still fog up with mist?

The system will be going through a conditioning process of drying your home. Every home is different. Some will respond to the ventilation effect immediately while others may take a while, days or weeks. As time passes by your home will be improving every day and the system will be doing exactly as it should, first it has to reduce the moisture level in your home.

In some cases on particularly cold mornings you may still get condensation build up on some windows however for the most times this will have been drastically reduced or there will be none at all.

Q - We can hear the system at night time in summer.

During the evening in summer when it is hotter in the house than in the ceiling, the fan system will increase in speed, this does help cool the bedrooms and make them less muggy making sleep a little easier.
You will hear this just as you would a heat pump or the like. It is a matter of hearing a new sound or an unfamiliar sound in the dead of night, you do pay attention to it, it is common. After 1 or 2 weeks you will not notice this as much or not at all. In the autumn and winter and spring, the opposite happens.

The SAYR system is known for its quietness compared to other systems.

Q - Our home appears more damp since the system has been installed.

In some cases, the home can be so damp that by installing a system, this damp is drawn out of the structure and furniture and is mobilised into the air. Before the system can flush all of this out of the dwelling, on cold nights this damp will condensate on surfaces making the home appear worse than what it was. Be rest assured that this will pass very quickly and also that this is the moisture that was in the 'bones' of the house and contents which is being drawn out.

Q - Why cant we leave it on full if we want?

If you leave the system on full and are not home when outside climatic conditions change, you could undo the 'good' the system has achieved and instead make your home worse. Using MAXvent for 1 hour will change the air in your home three times in that hour, that is enough for 99% of reasons.
Believe it or not, it does know best. Just let the system do what it has been developed to do.

Q - There are dark rings developed around the diffusers

The rings are dust which is clinging to the surface by static electricity, it is simply cleaned off using a clean soft brush or duster. Do not use water or any cleaning agents.

Q - What happens when its very hot or cold in the roof

The minimum and maximum settings do not allow the system to pump too much air into the house influencing the temperature. In extreme cases the system will auto 'off' and 'on' ensuring the temperature inside is not affected.

Filter Change for DIY (Do It Yourself)

You can save considerable cost in doing your own filter change. It is not a difficult process or time consuming, any person with a little practical ability and physically capable can do it. The environment may be cramped and dark. Changing the filter(s) may require you to get into awkward and strange positions due to workspace and roof structures. This should take under 1 hour per filter.

The filter kit will come with instructions and heat resistant tape.
You will need a sharp craft or box knife and torch.

Step 1 - Turn off the unit by either unplugging the unit from the socket in the ceiling (in earlier models) or switching off the unit by the isolating switch in the ceiling cavity near the unit.

Step 2 - Using the box knife, slide the blade between the filter box and lid and cut the tape along all 4 sides ensuring the tape is cut at each of the 4 corners. Then carefully remove the bottom section away from the top section.

Step 3 - Using the box knife, slide the blade between the filter and the side of the filter box. This is an air seal which prevents flow by. Cut the tape along all 4 sides again ensuring the corners are cut. Remove the filter from the box by pulling gently out. The filter will be a tight fit however manipulating the filter will get it out. Do not try to pull it out using brute force, this may damage the unit or effect the mounting of the unit in the ceiling.

Filter Change for DIY (Do It Yourself) cont.

Step 4 - With the new filter, make sure the airflow arrow is pointing in the direction of the airflow , this usually will be away from the motor. Push the filter into the filter box taking particular not the filter is not square and may need rotating 90 degrees, again this will be a tight fit however with careful manipulation it will fit. Keep the filter level with the bottom of the filter box, do not push it up any higher.

Step 5 - One the filter is in position in the filter box, using the tape provided, place tape over the bottom edge of the filter and wrap this over the edge of the filter box and firmly press the tape down on all surfaces.
This completes the air flow by seal.

Step 6 - Replace the bottom part of the filter box back onto the main body of the box housing the filter then using the tape provided place a strap of tape over the corner of the box and overlap the join. Repeat on the opposite corner. Wrap tape around this joint at least 2 times ensuring the tape is soundly in place.

The filter change is complete, turn the system back on. The control panel will automatically revert to the same settings as when the power was switched off. The filter reset will need to be reset manually, this does not happen automatically.

Use ONLY tape recommended or supplied by SAYR. Non *recommended duct tape will not stand up to the extreme heat variables in the ceiling cavity, as low as -5c and as high as 65c degrees. Non heat resistant tape will loose its adhesion qualities and may come apart.

SAYR can be contacted Toll Free 0800 729 748

Email: info@sayr.co.nz

Or visit our website: www.sayr.co.nz

More FAQ can be found on our website

Join our facebook page at

http://www.facebook.com/SayrHomeVentilation

Print Feb 2017