Quiet-Vent Comfort Cooler CC-1701

- What is the Quiet-Vent Comfort Cooler -

Overheating is becoming a common issue with new or refurbished properties.

The Quiet-Vent Comfort Cooler is an air tempering device used in conjunction with a MVHR unit and is designed to help short term comfort cooling by providing a cool air supply to the MVHR unit resulting in comfortable supply air during sudden spikes in warm outdoor temperature.

An example of this would be if the outdoor air is 28° and the indoor temp is 30° and the Comfort Cooler will reduce the air at the MVHR unit to approx. 21° and over time may lower the indoor air temperature.

There are two main types of Overheating

- Short term overheating is when a property becomes uncomfortably warm during sudden spikes in outdoor temperature.
- Prolonged overheating is when a property becomes uncomfortable over a prolonged period of time and could be caused by solar gain through large glazing panels, thermal mass, inadequate shading and incorrect thermal modelling when the house was designed and can prove very hard to cool down even during cold weather conditions.

The Quiet-Vent Comfort Cooler has been designed to help with short term overheating and not prolonged overheating.

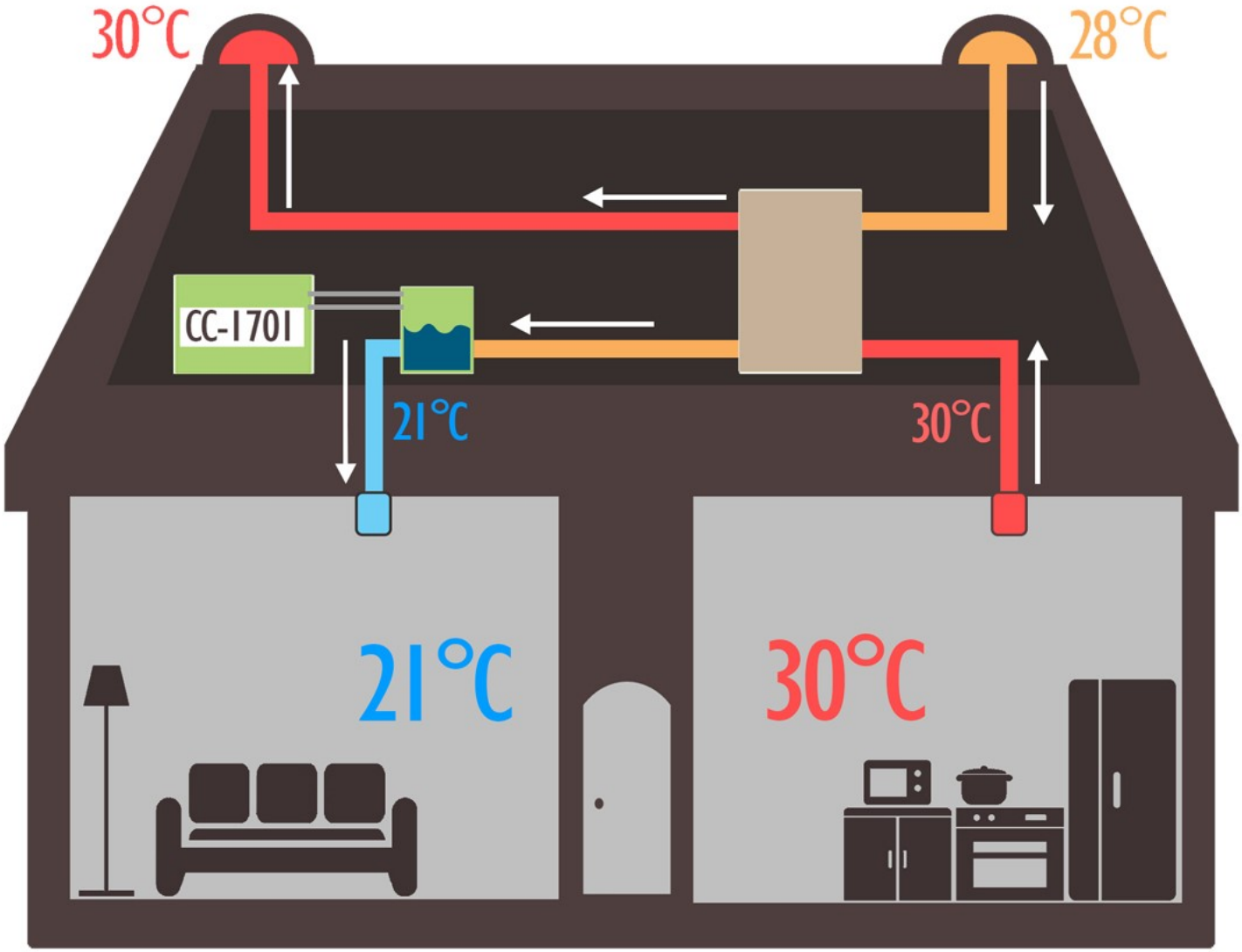
- How it Works? -

The QV Comfort Cooler is an easy to install system that will cool the air being supplied to your home ventilation system.

The QV Comfort Cooler is suitable to be installed with any make or model of home ventilation system and is supplied in two parts, the Comfort Cooler unit and a Cooling Coil:

- The QV Comfort Cooler is positioned near your ventilation unit supplying chilled water to the Cooling Coil.
- A Cooling Coil is installed on the main air supply ducting, chilling the air being supplied to your home.

- **1.7kW cooling capacity**
- **Easy to install plug and play installation**
- **No external device required**
- **Filtered fresh supply air not recycled stale air**
- **Automated control**
- **Complete with install kit**



- Achieve the Best Performance from the Q/V Comfort Cooler -

- If possible, zone the system and only supply the cooler air to the most important rooms (ie bedrooms)
- Have all supply ductwork using the cooler insulated to help prevent thermal gain from the building
- Operate the cooler during the day and off at night
- Specify the unit and ducting so it can achieve a higher air change per hour of approx. 1 ACH
- Run the unit at a higher speed to extract excess heat
- Only take intake air from the north facing orientation
- Do not intake air from attic
- Ensure the intake/exhaust terminations are separated by a minimum of 2m and terminate to the external façade

- Design out Prolonged Overheating -

The Quiet-Vent Comfort Cooler can help to temper the incoming supply air, however if the gains exceed the cooling capacity of the unit then the property will still overheat, and you should consider to combat prolonged overheating by:

- Try to avoid too much south-facing glazing
- Limit the size of windows and use reflective coatings
- If required design in solar shading through overhangs
- Insulate all hot water pipes and tanks to reduce thermal mass
- Use A+ rated electrical appliances
- Use higher efficiency lighting that emit lower heat levels such as LED
- Provide openable windows for purge ventilation
- Use an electric openable roof light or purge fans if having vaulted rooms
- Use purge fans if there is not sufficient enough air opening windows

- F.A.Q.s -

How is it controlled?

The QV 1701 Comfort Cooler has a handheld or wall mounted wireless thermostat allowing you to control the unit.

Both the unit cooling temperature and the air temperature can be adjusted if required.

Can it be used with any MVHR Unit?

The QV Comfort Cooler is a standalone unit suitable for installation to any make or model of home ventilation system using 125mm to 200mm diameter ductwork.

Is it easy to install & maintain?

Installation has been designed to be easily performed by any competent person.
Simply install the Cooling Coil to the air supply ducting, connect the water pipes to the cooling unit, install the pre-wired duct sensor, fill with water and switch on. The unit can also be ducted to outside the dwelling if required.

The unit has been designed for minimal owner maintenance and only requires annual filter cleaning and inspection. If there is ever a fault, the units portable dimensions mean you can simply disconnect the unit and send it back for repair.

Difference between a QV Comfort Cooler & Air Conditioning?

A QV Comfort Cooler cannot be compared to air conditioning since air conditioning recirculates the stale air, whilst the QV Comfort Cooler delivers fresh, filtered, chilled air from outside, via the home ventilation system.

The QV Comfort Cooler does not require a specialist to install or maintain. Whereas air conditioning systems require both a large internal and external unit with interconnecting pipes, carrying refrigerant that require specialist contractors to install and maintain.

How well does it perform?

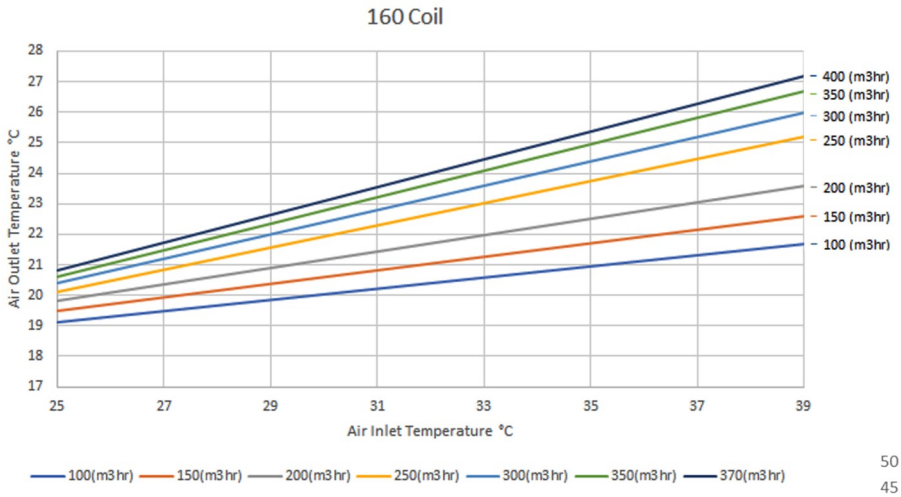
The QV Comfort Cooler has been designed to be an affordable and easy to install solution to combat overheating using your home ventilation system with a cooling performance of 1.7Kw reducing the air to a comfortable temperature.

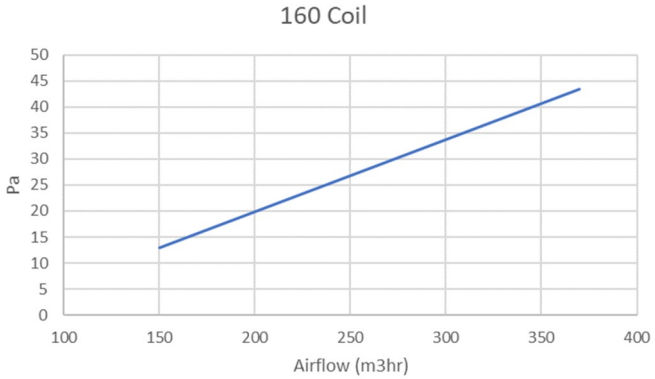
The high performing QV Comfort Cooler lowers the average air temperature by approximately 10° on warm days providing a comfortable and healthy temperature in most homes. It is also possible to use the unit to dedicate areas or add additional units to increase performance.

- Performance -

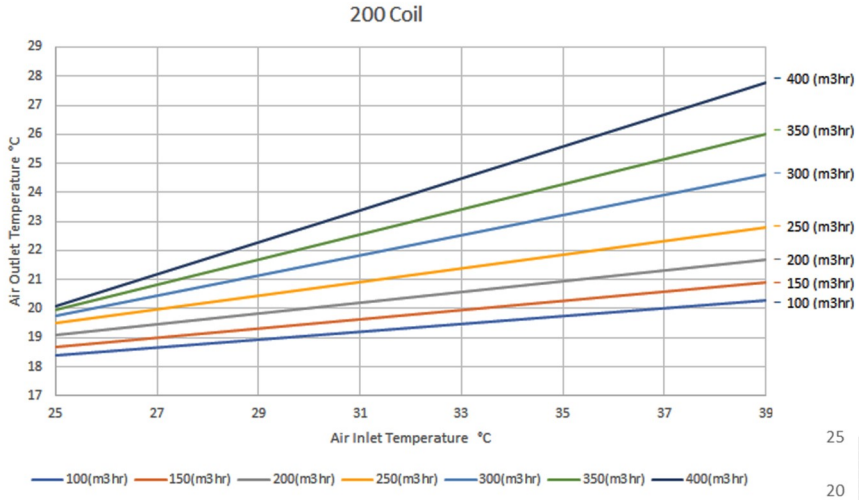
The QV Comfort Cooler is available with 2 types of Cooling Coil to suit your ventilation system.

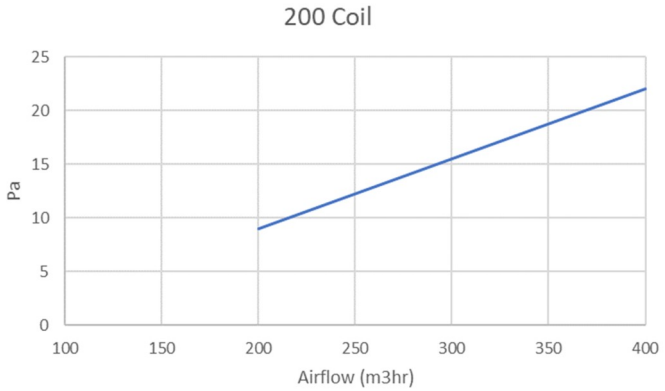
- 160 coil suitable for 100 to 160mm ducting -





- 200 coil suitable for 125 to 200mm ducting -





- Controller -

This wireless thermostat is intended for use with the Quiet-Vent Comfort Cooler offering automatic control.

It consists of 2 components:

- A remote-control unit with integrated temperature sensor
- A signal receiver at the unit

It will automatically turn on or off your Comfort Cooler as required.

Features include:

- On/off with + / - for temperature
- LED indicator
- Switch status
- Current temp
- Target temp
- Battery status