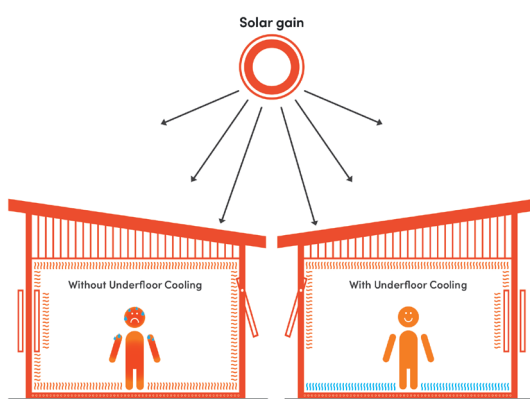


# All you need to know about cooling

We need heating around 200 days of the year but during the warmer summer months, a little cooling is needed to take the edge off those days. Central Heating New Zealand has been at the forefront of warmth and comfort for the past 18 years. For the past 4 years, we have been developing cooling locally based on a concept from Europe and are now confident of the effectiveness in Kiwi homes. It is not air conditioning, but a more comfortable cooling sensory relief – more comfortable to the human body than cooling the air.



The rise in popularity of inslab heated floors in New Zealand over recent years has led Central Heating to explore the suitability of cooling slabs to provide

cooling relief comfort for the warmer months. Using the same Air-to-Water heat pump for warming the floor slab in winter, we can now confidently put it in a reverse cycle chilling mode, and it cools the floor slab down. This cooler floor slab absorbs heat from the structure of the home that is gathered throughout the day. The radiant temperature of a home is the average of the surfaces of the walls, floor, and ceiling and we can bring the radiant temperature down by cooling the surfaces. There is little change in the air temperature but the feeling to the body is relief from the heat.

## Top benefits to cooling:

### **Best of both worlds**

Heating and cooling from one system - providing superior heating and comfortable cooling

### **Silent**

Water moving through the underfloor heating/cooling pipes are completely silent, meaning more enjoyable for relaxing, socialising, and just living without the intrusion of noise or fluttering newspaper from blown air.

### Healthy

The even temperature of a home with central heating and cooling is better for your respiratory system and the gentle radiant temperatures do not blow dust or allergies around the home; keeping you, your family, and pets healthy year-round.

### Efficient and Effective

Cooling is the most efficient and effective over larger surface areas. The radiant temperature of a home is the average of the surfaces of the walls, floor, and ceiling and we can bring the radiant temperature down by cooling the surfaces. Having doors and windows open has a reduced effect on the running costs of the underfloor cooling system, this factor increases the suitability for the kiwi summer lifestyle. Note: much higher flow temperatures are used in the slab than in a fan coil system which significantly increases the system efficiency.

### Programmable

Central Heating New Zealand has specifically designed the new intuitive Smart One Controller for New Zealand radiant heating and cooling systems. This easy to use touch screen interface works much like your smartphone so you can set your desired comfort temperature to suit your lifestyle at a swipe of a finger. For those on the go, you can switch your heating on or off via the Smart365 App or enable the geolocation feature, and your heating will turn on/off when you arrive or leave home. It will also switch to eco-friendly temperature levels overnight. Simply program the wall-mounted controller for heating/cooling times and temperatures, and the system reacts to your exact comfort requirements. With the self-learning ability, the Smart One controller builds the best schedule to provide exceptional comfort for you and your home. [Learn more here.](#)

### Future proof

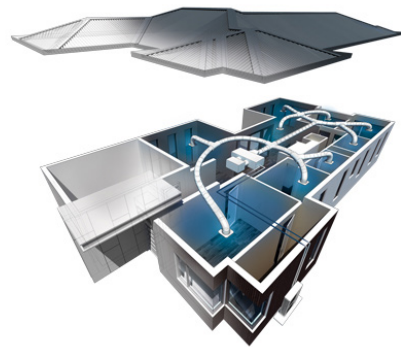
The ability to change the system between heating and cooling provides a home with comfort and one worth investing in.

### Warranties

We value quality. We believe that the products we import to New Zealand and install into your homes are the definition of quality to ensure the gentle, enveloping radiant heating or cooling in every room of your home. The companies we partner with proudly stand by their quality, innovation, reliability, energy-efficiency and overall durability of their products and each product offers warranties to protect you and your system.

At Central Heating New Zealand, we understand that everyone lives differently during summer and winter – so we have a solution to suit all central heating systems.

## Other cooling systems options



### Hydronic Fan Coils

Ducted central heating and cooling systems are designs for all-year home comfort, creating a constant temperature throughout every space of your home. Delivery heated or cooled air circulated via a network of ducts in your ceiling or floor cavity. Rinnai ducted Central Heating Systems discreetly delivers powerful home heating and cooling without impeding on your interior design aesthetic.



## High Wall Heat Pump

No matter the weather, Rinnai has a heat pump solution for every kiwi home. The Q Series heat pumps has been designed using the latest inverter technology to quietly and efficiently deliver warmth to your home. The Q series also delivers powerful and consistent cooling for hot and humid summer months...making it ideal year-round comfort for your home.

## Common misconceptions

### **If you cool your slab down, condensation on your slab will appear**

Central Heating New Zealand has specifically designed the new intuitive Smart One Controller for New Zealand radiant heating and cooling systems. As a room thermostat, it works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat minimum setting, and switching off when the set temperature has been reached. With the added feature of a floor probe, you get the complete accurate underfloor temperature and humidity control. When the humidity is too high in a floor slab, condensation can appear but with the humidity control and sensor on the Smart One Controller, users have confidence that humidity will not get high enough for condensation to appear.

### **Switching your system to cooling will affect your domestic hot water**

Our high-quality Chofu Air-to-Water heat pumps can be put into a reverse chilling mode to cool the floor slab down. Whilst in chilling mode the air-to-water heat pump recognises when it requires heat for domestic hot water production – having the heat pump in the chilling mode does not affect this at all.

### **You cannot open windows or doors when the cooling mode is on**

Having doors and windows open has a reduced effect on the running costs of the underfloor cooling system, this factor increases the suitability for the kiwi summer lifestyle.