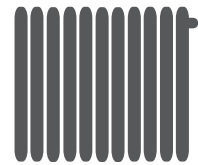




Radiators



Universal Ultimate Radiator
Left inset: Multicolonna Radiator



Universal Ultimate Radiator



Universal
Ultimate
Radiator

- A safe, stylish and healthy way to heat a home - no forced air draughts
- Ideally suited to New Zealand's changeable weather conditions
- Completely silent & quick to heat up, radiators are not too hot to touch
- DeLonghi Ultimate Universal radiators are designed to produce the greatest heat output from the most compact surface area
- Ideal for retrofitting in traditionally built, high heat loss homes



Central Heating
NEW ZEALAND

LIVE LIKE IT'S
SUMMER
ALL YEAR ROUND

Radiators



Central Heating New Zealand distributes the world renowned DeLonghi steel panel radiators. Different designs from modern to classic are available to suit any architectural style. DeLonghi radiators are low volume, high surface area, very responsive, very efficient and completely silent in operation.



Thermostatic Radiator Valve (TRV)

How do they work?

Hot water, at 60°C to 70°C from a boiler or heat pump, is pumped through the radiators which give off radiant heat and heat by natural convection. This system is used in millions of homes in the UK, Europe, North America and many other countries.

This combination of radiant and convective heat produces large amounts of heat from each radiator. Generally the radiators have a panel that the water flows through, and fins for convective heat on the back. For higher heat loads in older houses double panels are available that give off even more heat. As the radiators have a low water volume they quickly get up to working temperature heating resulting in fast heat up times. No fans are needed so there is no noise.

Heating System Design

The radiator size is measured by its heat output in kilowatts. (1 kilowatt is roughly equal to a 1 bar electric heater). The size is determined by calculating the heat loss of each room at the design stage. Larger rooms are likely to have more than one radiator for better heat distribution. Radiators vary in heat output from ¼ of a kilowatt to 5 kilowatts, depending on width, height and depth.

Radiators can be used in every room of the house including the bathroom where they can be used for warming towels, often doubling as towel rails. This is completely safe, as unlike electric heaters, it doesn't matter if the radiators get covered by towels as they will never get hotter than the hot water pumped through them.

A key factor in design is where to put the radiators. Sometimes they are put under windows to counter any cold down draught and because furniture is unlikely to be next to windows. Size is also a factor for which there is a large range of widths and heights to fit spaces available.

Control

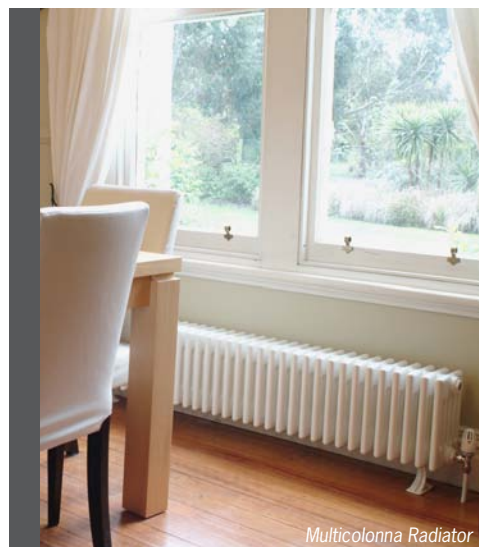
The temperature of individual rooms can be controlled using adjustable Thermostatic Radiator Valves (TRVs) that shut down the radiator when the room has reached the set temperature, even if the rest of the heating system is still going. These also mean that a room on the sunny side of the house will not be overheated even if rooms in the shade still need the heating on. Or, in little used rooms, such as guest rooms, the heating can be kept at a lower temperature, but can be heated very quickly if needed by turning up the TRV.

Aesthetics

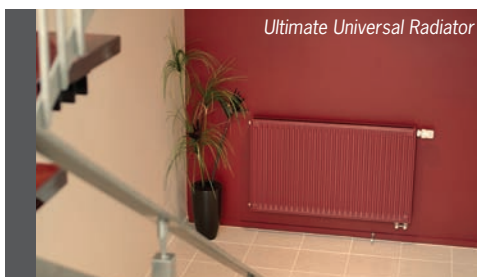
There are many different types of radiators, the most popular being the Ultimate Universal range. Two other styles available on order are the modern designed Linear, and for character homes there is a traditional column radiator style, the Multicolonna. Radiators can be painted to match the interior colour scheme. For new high performance homes, radiators can be designed in to the house for the best result.



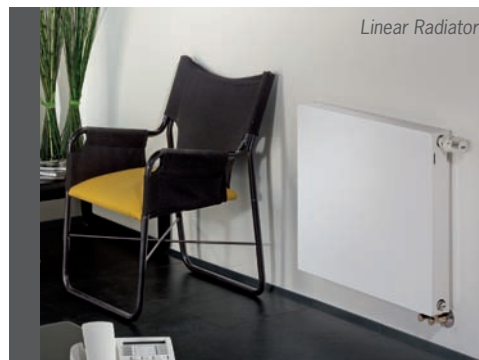
Radiators can fit easily and safely behind furniture



Multicolonna Radiator



Ultimate Universal Radiator



Linear Radiator

Systems supplied by:

The company named above is an approved supplier and/or installer of Central Heating New Zealand products.



Central Heating
NEW ZEALAND

11 Parkhouse Rd, Sockburn
PO Box 31-274, Christchurch.
Ph 03 357 1233. Fax 03 343 1236.
Email info@centralheating.co.nz
www.centralheating.co.nz