

# Commercial Heating Solutions: Hydronic Underfloor Heating and Radiators

In commercial buildings, maintaining a comfortable and productive environment for employees and visitors is crucial. When it comes to heating solutions, two options stand out: hydronic underfloor heating and radiators. Both systems offer unique advantages for commercial settings, combining efficiency, comfort, and space optimization.

In this blog, we will explore the components of hydronic underfloor and radiator heating systems that make them ideal choices for commercial buildings.

## Hydronic Underfloor Heating: A Silent Comfort Booster

Hydronic underfloor heating is an increasingly popular choice for commercial spaces due to its exceptional comfort, efficiency, and space optimization. By distributing warm water through pipework enclosed in the building slab, underfloor heating operates silently and invisibly whilst providing a comfortable environment.

### PE-RT/Composite Pipes:



High-grade polyethylene of raised temperature resistance (PE-RT) or composite (PE-RT/AL/PE-RT) pipes from Multitubo are used to create the network through which warm water flows. These BRANZ approved pipes are durable, flexible, and resistant to corrosion, ensuring long-lasting performance.

### Manifolds:



Manifolds act as the central distribution point for the closed loop system of water, controlling and balancing the flow to each zone or area of the building. High-quality manifolds with individual flow meters from FAR allow precise control and optimization of heating performance. Further control of loops can be established by adding FAR actuators to the manifold and interfacing these with the building management system or zone thermostats.

### High-Efficiency Heat Sources:



To heat the water used in the underfloor heating system, high-efficiency heat sources are employed. These heat sources can operate at lower temperatures, maximizing energy efficiency and reducing operating costs. Central Heating New Zealand's partnership with Chofu Heat Pumps, Baxi Gas Boilers and Firebird Diesel Boilers will allow our engineering team to find the best solution for your building.

### Radiators: Flexible and Responsive Heating Solutions

Radiators have long been a reliable choice for commercial heating needs, offering versatility and rapid heat dispersion. They provide rapid heat output, ensuring quick warming of commercial spaces. Radiators have the benefit of easy installation in both new and existing buildings. Additionally, radiators can be individually controlled, allowing tailored temperatures in different areas of the building, providing targeted warmth and energy-efficient heating.

#### Radiator Options:



Central Heating New Zealand stocks high quality European DeLonghi and Korado radiator ranges that

come in a range of sizes and designs, ensuring they fit seamlessly into various spaces without obstructing the room layout or interior design.

#### Thermostatic Radiator Valves (TRVs):



Danfoss TRVs provide individual control over the temperature in each room, allowing building managers to create customised heating zones and reduce energy wastage. Tamperproof TRVs are available for fixing temperatures in public spaces.

In commercial buildings, providing an efficient and comfortable heating solution is vital for the well-being and productivity of occupants. By choosing hydronic underfloor heating and/or radiators for your commercial building, you can create a welcoming and cozy environment for employees, visitors, and customers alike, even during the coldest months.

Central Heating New Zealand's Commercial team can work with you at any stage of your building program to design a solution with the highest quality products to ensure a successful integration heating system that will stand the test of time.

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