



# Variotherm Modular

## The future of indoor thermal

Variotherm Modular Panels for surface heating and cooling of walls and ceiling is the most exciting innovation in building comfort since underfloor heating became popular. It's the same principle of radiant comfort but more convenient and more efficient as there is no consideration required for floor coverings, as well as being much faster to react.

The Variotherm Modular Panel systems are supplied in sheets of Termacell, a new green building product, made of gypsum and recycled newspaper. The panels are attached to the wall or ceiling and are stopped then painted just like gib board. The pipe work is connected back to a manifold and warm or chilled water is circulated through the panel delivering comfort to the body.

The heating advantage is higher comfort with greater efficiency. When the surfaces in a room are warm, they reflect the heat back to us and we feel warm. But the ability to cool occupants without noise or moving air is revolutionary. Cool walls or ceilings in summer feel so much better than freezing air. Radiant cooling thermal transfer is the future for better indoor thermal comfort to people.



- The best indoor thermal comfort possible.
- 18mm panels.
- Rapid response time.
- Ideal for new or existing builds
- Austrian made tested and guaranteed.
- Ideal for heating and cooling.
- Fire protection assessment for Module Panel (IBS Linz)



## Module panels

### ModuleWall

The Variotherm Modular Wall is an extremely energy efficient heating and cooling system. Pipes are spaced at 75mm which provides high output and works with low temperatures in heating, and high temperatures in cooling, saving energy compared to other systems. The ModuleWalls are attached as a drywall construction to metal or wooden support structures and the pipes are already integrated in the rear of the gypsum fibre boards. Light switches and power sockets can easily be planned for and simple pipe locating tools enables picture hanging between the pipes.

### ModuleCeiling

The same panel can be used on the ceiling for heating or cooling. Perforated Acoustic Module Panels are also available and cover 4 functions; a ceiling lining, an acoustic aid, heating and cooling (it's an all in one panel). The heating or cooling is gentle, almost unnoticeable, but the body feels the comfort and result is amazing. Central Heating New Zealand's engineers calculate the required surface area to heat and cool the building and can advise on practical installation issues.



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