

# VERSATEMP CASE HISTORY

## **The Killarney Plaza Hotel, Killarney**

**T**he opening in 2002 of the five star hotel, The Killarney Plaza, represented a culmination of an extensive and varied reconstruction project, including the installation of a Versatemp heat pump air conditioning system.

The Killarney Plaza, one of the hotels owned by the O'Donoghue Ring Group, is situated in the heart of Killarney on the former site of the Three Lakes Hotel, overlooking the National Park and the main street of the town.



The hotel was built to an extremely high standard specification and the 176 bedrooms designed to provide luxury features and levels of comfort. To achieve these desired conditions the award winning Versatemp Reverse Cycle Heat Pump system was installed.

With the building retaining some of the original concrete structure the Versatemp system was a viable solution when incorporated within the slab to slab heights associated with older style buildings.

The M & E Consulting Engineers, Martin Buckley and Associates, worked closely with Clivet in designing the two pipe water source reverse cycle heat pump system. The system comprises of a discreet two pipe water loop which is connected to each terminal heat pump unit mounted within the ceiling void of each bedroom lobby.

Each terminal heat pump unit offers cooling and heating on demand and either draws energy from the loop or rejects energy into the loop. Due to the water temperature maintained within the loop, the two pipe system running within the building does not require insulating and therefore reduces the space requirements of other chilled/hot water systems, allowing more access for other services.

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The Benefits: The Versatemp system has an inherent energy reclaim capability allowing simultaneous heating and cooling on demand. All buildings have hot and cold zones and by providing a system with inherent energy transfer capabilities, running costs are reduced to a minimum.



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