



Village at Blue, Blue Mountain





Challenge

As the flagship property of the Blue Mountain Intrawest, “Village at Blue” required a 5 star approach for construction. The integration of the heating and cooling systems had to flow seamlessly through the resort, reflecting a level of environmental as well as economic efficiency that would add to the concept of “Village at Blue” being a world class resort. The potential energy consumption of the Aquatic Center and large spaces such as the banquet areas presented an opportunity for CGC to show true innovation, as initial project estimates came in above budget.

The Solution

The Mechanical Contractor Intrawest’s Consulting Engineer was introduced to the CGC Group Hybrid Heat Pump concept. With its wide variety of building uses it creates a wonderful opportunity to capture **FREEHEAT™**, a concept which makes use of “waste energy” in the form of useful energy. Utilizing the system, the banquet areas heated the rooms which in turn heated the pool, which condition the common areas at different times of the year. The Aqua Centre was then tied into the loop utilizing waste energy from humidity in pool area, further increasing efficiency. Considering the aesthetic requirements, non intrusive Varipak Make Up Air was installed in vertical and horizontal floor mounted units in the common areas. Through the use of the **FREEHEAT™** system and the CGC teams innovative approach to environmental and sustainable development, the project was completed within budget and maintained Blue Mountains Intrawest’s “Village at Blue” status as a world class facility in every respect.

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