

## WHA PASSIVE HOUSE

**Location:** Whistler, BC

**Client:** Whistler Housing Authority

**Mechanical Engineer:** Pinchin Ltd.

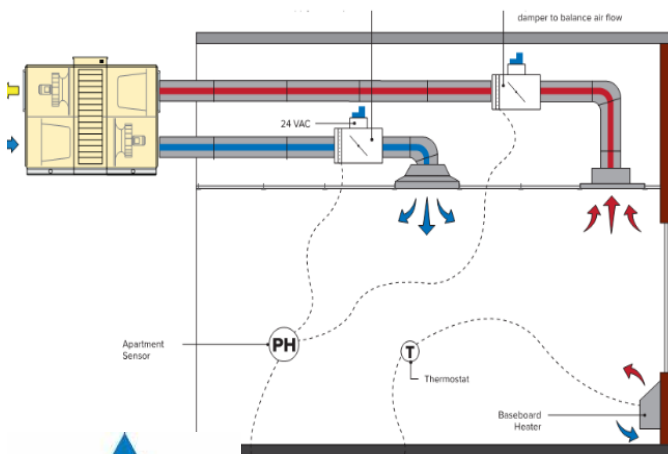
**1020 Legacy Way – Whistler, BC** is collaborating with Integra Architecture on an employee housing project committed to environmentally sensitive practices.

The low-rise apartment project is set to meet Passive House standard exceeding the Resort Municipality of Whistler's sustainability requirements for wood frame. The development consists of 20 rental apartment units to be operated by the Whistler Housing Authority.



**HVAC Systems** is proud to be part of this project which was project. A key part of HVAC System's design was the use of Passive House Certified ERV (Sensible and Latent Recovery) Units – [Swegon GOLD Series](#). Single unit in conjunction with post heating and cooling provides the buildings challenging air filtration, and energy targets.

WHA also wanted individual suite control which we were able to provide our [Swegon REACT Dampers](#). The airflow control system – REACT was able to provide each suite with normal mode, boost mode, night setback mode, and economizer mode.



Another challenge for the project was to utilize the district energy. [Colmac Waterheat](#) heat pump water heaters were able to capture this to produce the building's domestic hot water without fossil fuels. These modular CxW units can be arranged in banks to meet any capacity requirement. Their PLC interconnectivity allows multiple units to act as a single machine. All CxW models will fit through a standard 36" door, making them ideal for retrofits and high-rise applications. They are also stackable, doubling the capacity of footprint.

