

Hi-Velocity Systems™

Small Duct High Velocity Heating, Cooling and IAQ Systems

Hi-Velocity Systems Case Study



Valour PLACE | MILITARY FAMILY SUPPORT HOUSE
hope away from home

When a temporary residential home and rehabilitation center for injured Canadian service men and women announced it needed help, Energy Saving Products Ltd. jumped at the opportunity to contribute and be a part of this special and critically needed facility.

Requirements:

It was determined that the Valour Place facility would require full environmental control. ESP began designing a Hi-Velocity System with fully zoned operation that allowed each of the 12 rooms to maintain independent climate control. The state-of-the-art Pressure Sensing Board (PSB) that now comes standard on Hi-Velocity Systems would be used. The PSB regulates supply airflow based on the static pressure in the duct and allows for full modulation of the blower fan to maintain a constant air velocity in rooms at all times.

Hi-Velocity Equipment Used:

4 Hi-Velocity HE-Z-70 Air Handlers

Each fitted with:

- WCM-70 Cooling Modules
- HE PS Air Purification Systems

3 Hi-Velocity HE-Z-100 Air Handlers

Each fitted with:

- WCM-100 Cooling Modules
- HE PS Air Purification Systems

The HE-Z-70 Air Handlers are zone controlled to manage 3 zones each, giving each occupant independent climate control in their rooms. The HE-Z-100 air handlers serve the common areas of the facility.

Other equipment used include HRV's on each Air Handler, Boilers, and Reverse-Cycle Chillers.



Case-Study-Valour-Place-110113

www.hi-velocity.com

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