



Small Duct High Velocity Heating, Cooling and IAQ Systems

## Hi-Velocity Systems Case Study

# Military Support House - Edmonton, AB



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

#### Each Air Handler was fitted with:

- HWC Hot Water Coil
- WCM Chilled Water Cooling Module
- HEPS Air Purification System

#### Other Equipment Used:

- HRVs on each Air Handler
- Boilers
- Reverse-Cycle Chillers

[www.hi-velocity.com](http://www.hi-velocity.com)