

# HERITAGE WOODS SECONDARY

VANCOUVER, BC, CANADA

EDUCATION

## ENERGY EFFICIENT SCHOOL

Opened on September 7th, 2004, the Heritage Woods Secondary School campus features two gymnasiums, a weight room, tennis courts, running track, and two full-sized fields (one natural grass and one artificial turf). The students of Heritage Woods have access to a wireless network, technologically-enhanced Business Education and Science labs, and a 340-seat theatre designed for professional caliber performances. Heritage Woods has a student population capacity of 1200, grades 9–12.

## PROJECT DETAILS

As a LEED registered building, Heritage Woods incorporates many innovative and unique features that reduce energy consumption. Over half of the heating required for the ventilation air is provided by three heat recovery ventilators (HRVs). In addition, the outdoor air supply ducts to all classrooms and assembly areas are fitted with motorized dampers. These areas also feature motion detectors that are employed to enable the HRV units.

Variable speed supply and return fans respond to changing occupancy. The gymnasiums and theatre use CO<sub>2</sub> sensors to monitor and alter ventilation via VAV boxes.



**PROJECT TYPE:**  
New Construction

**INSTALLATION TYPE:**  
HVAC

**TOTAL AREA:**  
11,000 m<sup>2</sup> (127,000 ft<sup>2</sup>)

**EQUIPMENT INSTALLED:**  
2 MACH2™  
10 MACH-Global™  
85 SMART-Sensors™

**NETWORK:**  
Wireless, Ethernet

**TOTAL SYSTEM POINTS:**  
1,075 points

**CONSULTANT:**  
Cobalt Engineering  
J.M. Bean and Associates

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