

# Hi-Velocity Systems™

Small Duct High Velocity Heating, Cooling and IAQ Systems

## Hi-Velocity Systems Case Study

### Apple Computer Store - Bush Sales Ltd.

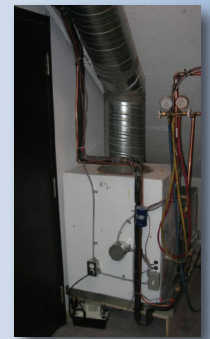


This Apple computer store is set in historic Yaletown Vancouver B.C. The district is full of old warehouse buildings with low ceilings and large cross beams. Renovations were needed for the building but the goal was to limit and structural changes to the building.

The Hi-Velocity System uses a 8" - 10" main plenum's and 2" inch flexible ducts that branch off the main plenum. In the picture to the right drilled outlets were used instead of using 2" flexible ducts. This allowed for a quick installation of the plenum on the ceiling with no structural changes. When the higher-pressure air leaves the vent of the plenum, it expands rapidly and causes a lower air pressure around the vent. This causes the room air to be drawn toward the airstream that is leaving the vent. This creates a Venturi Effect and thoroughly and continually mixes the room air, eliminating the possibility of hot and cold spots from developing in the room.



The building owner decided to go with Hi-Velocity equipment so that the ceiling height could be maintained and no structural changes would be needed to the building. Energy Saving Products Ltd. Hi-Velocity System was the ideal choice, the round plenum runs on the ceilings with drilled outlets were easily installed. Using drilled outlets in the plenum was cost effective, and allowed for a fast setup time.



A total of seven tons of cooling is conditioning this building. In this application two Hi-Velocity units installed in the vertical position (up-flow) were used, a HV-70 and a HV-100. They were easily placed in out of the way places, as the Hi-velocity System does not need to be centrally located.



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