

## Add Energy Recovery to Any HVAC System

This simple unit was built for an elementary school in Virginia. Consisting of just a flat plate heat exchanger, face-&-bypass damper and actuator, cabinet, and simple analog damper controls, it complements the primary heating and cooling equipment provided by others. This simple design makes it possible to add energy recovery to any new or existing HVAC system and allows the customer and engineer the flexibility to use other equipment from any desired manufacturer—and in this case, the pay off was big. The XeteX unit pre-warms the winter air from 10 °F to 47 °F, and in summer it pre-cools the air from 95 °F to 83 °F. This dramatically reduces the load on the primary heating and cooling equipment and results in savings for the building owner every month of the year.

### *Performance Specification*

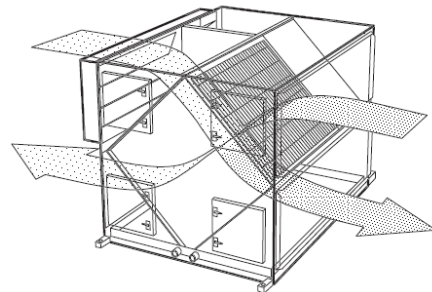
Model:	<b>XC-60-60-BP-FD</b>
Supply cfm:	12,175
Exhaust cfm:	10,750
Built:	February, 2009
Dimensions:	120" H, 96" L, 86" W
Weight:	4,500 lbs
Energy Recovered:	490 MBH (Winter) 156 MBH (Summer)
Design Conditions:	10 °F / 15% RH (Winter) 95 °F / 40% RH (Summer)



The completed XC Unit with Face-and-Bypass Damper visible through outdoor air opening



Exchanger, with bypass air channel on the left



### *Unit Features*

- An XLT Type H Aluminum Flat Plate Exchanger operates at 66% effectiveness under Summer Design Conditions and at 69% effectiveness in Winter.
- The Double Wall cabinet has an 18 gauge Galvanealed Steel Exterior, 22 gauge Galvanized Interior, and 2" thick Fiberglass Insulation. Frame is Welded Structural Steel.
- Frost control is accomplished by the provided Face-&-Bypass damper, actuators, temperature sensors, and analog controls.