

Packaged DX for a School

This unit was built with a complete, on-board, packaged 410A refrigeration circuit including compressors, condensing section, DX coil, and Hot Gas Reheat. For winter heating, it also has an indirect gas-fired furnace. The components, plumbing, wiring, and controls for all these systems were installed at the factory. The unit was built for a school in Connecticut to provide year-round total air conditioning, and with the combination of energy recovery, 410A high-pressure refrigerant, and airfoil blowers it is one of the most energy efficient units available.

Performance Specification

Model:	XHS-30G-48-RT-BP- CD-HI-AC
Supply cfm:	4,490
Exhaust cfm:	4,280
Built:	July, 2008
Dimensions:	70" H, 228" L, 72" W
Weight:	8,000 lbs
Energy Recovered:	209 MBH (Winter) 48 MBH (Summer)
Design Conditions:	0 °F / 100% RH (Winter) 92 °F / 49% RH (Summer)



Unit Features

- An XLT Type H Aluminum Flat Plate Exchanger operates at 64% effectiveness under Winter Design Conditions and at 60% effectiveness in Summer.
- The Double Wall cabinet has an 18 gauge Painted Galvanealed Steel Exterior, 22 gauge Galvanized Interior, and 1½" thick Fiberglass Insulation. Frame is Welded Structural Steel.
- 16" Quiet Air Foil Plenum Blowers are belt driven by Premium Efficiency, NEMA Frame, ODP, motors (7.5 hp supply, 5 hp exhaust). The blowers are mounted on common frames and have 1" Seismic Spring isolators and Flexible Duct Connections.
- A packaged 410A DX circuit provides 286 MBH cooling and 70 MBH Hot-Gas Reheat.
- An Indirect Gas-Fired Furnace provides 400 MBH of winter heating capacity.
- Outside Air Shut-Off, Outside Air Face-and-Bypass, Recirculation, and Exhaust Air Backdraft Dampers and Actuators are included.
- Single Point Power Terminal Blocks, Main Disconnect, Protected Branch Circuits, and other electrical equipment are accessed in an Electrical Panel.