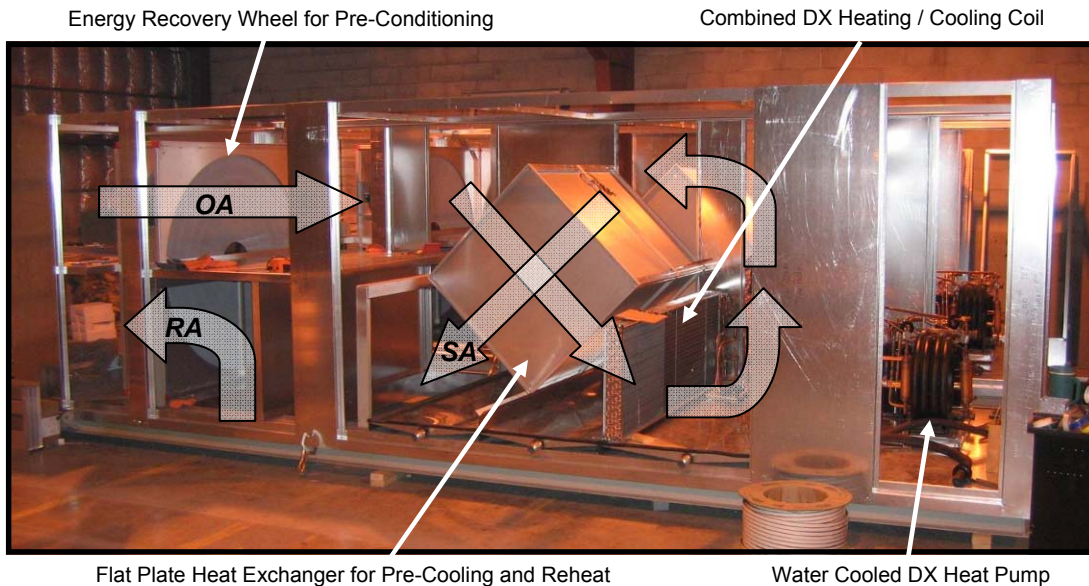


Ultra Efficient Total Air Conditioning in One Package

This unit, built for an Elementary School in Michigan, is the ultimate in year-round efficiency. Under summer conditions, it uses a highly efficient AIRotor® hygroscopic heat wheel to recover energy from the exhaust airstream and pre-cool and dehumidify warm outdoor air. The flat plate exchanger then further cools the supply air before the on-board heat pump and DX coil provide final cooling. The flat plate exchanger is then used for reheat. In the winter, the heat wheel preheats the air before the same heat pump and coil complete the required heating. This unit will provide total year-round air conditioning at the lowest possible operating cost.

Performance Specification

Model:	DXH-1750-40-54-RT-
Supply cfm:	7,200
Exhaust cfm:	5,760
Built:	January 2006
Dimensions:	84" H, 288" L, 84" W
Weight:	8,500 lbs
Energy Recovered:	409 MBH (Winter) 391 MBH (Summer)
Design Conditions:	0 °F / 67% RH (Winter) 90 °F / 45% RH (Summer)



Energy Recovery Wheel for Pre-Conditioning

Combined DX Heating / Cooling Coil

Flat Plate Heat Exchanger for Pre-Cooling and Reheat

Water Cooled DX Heat Pump

Unit Features

- Heavy Duty Case has Double Wall Construction with 18 gauge Galvanized Exterior, 22 gauge Galvanized Interior, and 2" Insulation; Welded Structural Steel Base and Frame; Welded Galvanized Drain Pan; and Sloped Roof with Capped Seams.
- Supply Air Blower is a 20" BI Airfoil Plenum, belt driven by a 15 hp motor. Exhaust Air Blower is a 15" FC DWDI, belt driven by a 7.5 hp motor. Motors are NEMA Frame, TEFC, Premium Efficiency-type with Adjustable Drives. Mounts are adjustable and spring isolated.
- Water Cooled DX Heat Pump operates at 45 Gallons of Water Per Minute. Combination Heating and Cooling Coil provides 218 MBH cooling (14 Tons) and 134 MBH heating.
- Dampers: Outside Air Shut-Off, Exhaust Air Shut-Off, and Outside Air Face-and-Bypass
- Single Point Power electrical panel includes Main Disconnect, Fused Branch Circuits with Breakers, Motor Starters with Overloads, Damper Actuators, and a BACnet DDC providing automated Frost Control (Wheel: Rotation Speed Modulation, Flat Plate Exchanger: Face-and-Bypass), Warm Weather Economizer, and Summer Recovery Changeover.