

Custom RTU with Sound Absorbing Design, CW/HW & Enthalpy Wheel

MARKET: Community Center

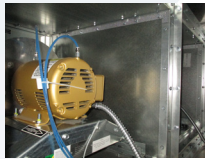
This XeteX project highlights one of four custom air handlers for a 52,000-square-foot community center featuring a unique sound-absorbing design. With the integration of energy recovery enthalpy wheels and hot water and chilled water coils, this HVAC system provides year-round climate control and enhanced indoor air quality with ultra-quiet operation.

CONSTRUCTION

- Outdoor unit
- 4" double wall casing with mineral wool (R-value 4.0/in) insulation; 0.063 aluminum exterior casing with XeteX acrylic paint; 0.063 aluminum interior casing
- Welded 8" structural steel base frame with welded lifting lugs
- 0.080 aluminum floor with polyiso foam (R-value 6.0/in) insulation

OTHER FEATURES

- Housed plenum array for SA and EA fans with integral 2" sound-absorbing insulation
- Perforated liners in SA and RA fan compartments for additional sound attenuation
- Five-foot SA and RA Sound Attenuators
- OA monitor flow station
- Quality filtration throughout



Housed plenum fan array with sound absorbing insulation

Model:	AHR-1800-RT-BP-CW-HW-FF-RC
Dimensions:	104"H x 98"W x 496"L
Weight:	21,000 LBS
Supply CFM:	17,500 CFM
Energy Recovery:	Enthalpy Wheel
Energy Effectiveness:	75% Winter / 74% Summer
Cooling Type:	Chilled Water Coil
Cooling Capacity:	429 MBH
Heating Type:	Hot Water Coil
Heating Capacity:	351 MBH

COMPONENTS

- A. OA 2" MERV 8 filters
- B. Enthalpy wheel
- C. Recirculation damper
- D. VFDs
- E. OA bypass damper
- F. SA 4" MERV 13 filters
- G. Hot water coil
- H. Chilled water coil

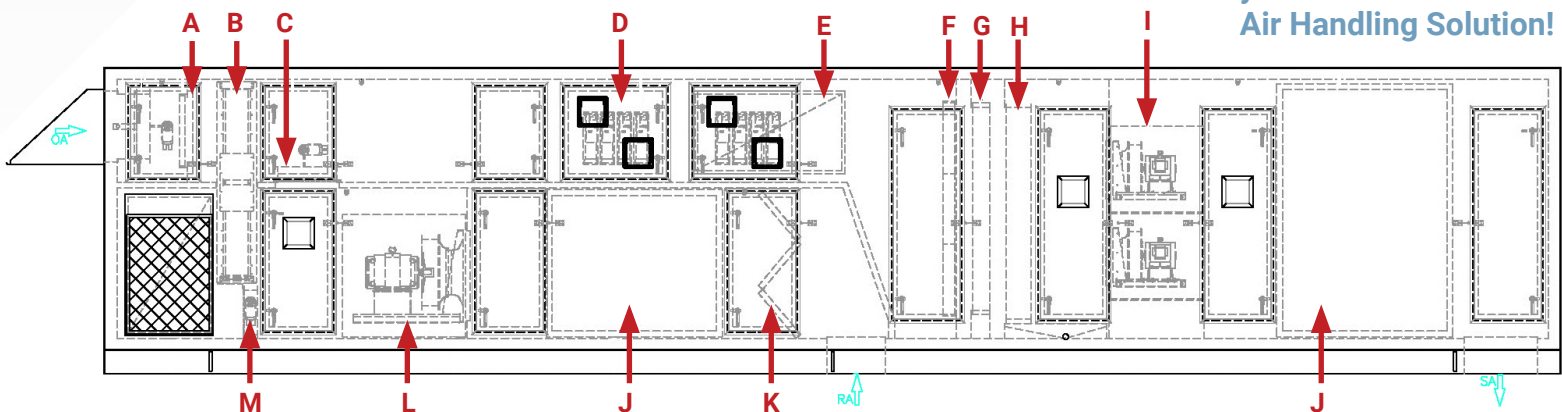
- I. SA six fan array utilizing house plenum type fans with PEIZO flow rings
- J. Sound attenuators (2)
- K. RA 2" MERV 8 filters
- L. EA two fan array utilizing house plenum type fans with PEIZO flow rings
- M. EA bypass damper with PEIZO flow rings



Sound attenuator



Contact XeteX for your next Custom Air Handling Solution!



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