

Custom Indoor ERU with DX Water Source Heat Pump & Enthalpy Wheel

MARKET: Commercial Building

XeteX designed an indoor ERU specifically for a 26-story renovated downtown high-rise accommodating condos and offices. To address the building's modernization needs, XeteX replaced the 1980s HVAC infrastructure with a packaged DX water source heat pump system, an enthalpy energy wheel, and high-efficiency filters. Given the constraints of limited renovation and mechanical space, the solution required a split-section unit design, allowing the ERU to be transported in sections and fully reassembled within the building. The result is an indoor custom ERU that delivers energy-efficient, year-round climate control and enhanced indoor air quality for both residents and office occupants.

Model:	AHR-2500-DX-HG-HP-FF
Dimensions:	126"H x 262"L x 104"W
Weight:	15,000 lbs
Supply CFM:	15,678 CFM
Energy Recovery:	Enthalpy Energy Wheel
Energy Effectiveness:	Winter: 70%/Summer: 68%
Heating Types / Heating Capacities:	DX Heating: 472 MBH Hot Gas Reheat: 259 MBH
Cooling Type/ Cooling Capacity:	DX Cooling: 44 Tons

CONSTRUCTION

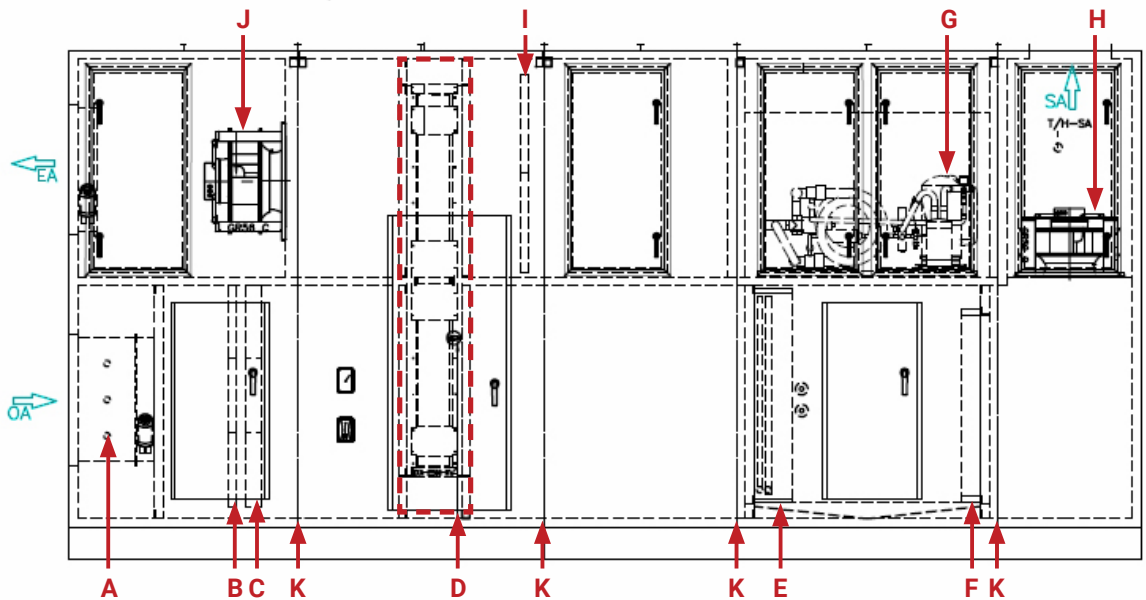
- Indoor **five-section split unit**
- 2" double wall **thermal break construction** with injected foam (R-value 14) insulation
- 18ga galvaneal outer casing with acrylic paint
- 20ga galvanized interior casing
- Welded 8" C-channel structural steel base frame with lifting lugs & acrylic paint
- 16ga galvanized floor with 2" injected foam (R-value 14) insulation
- 304 SS drain pan

FEATURES

- **An integral water source heat pump with multiple staged compressors and VFD lead**
- **Factory mounted controls**
- **Enthalpy energy wheel with low cross contaminating seal system, purge section and full season controls**
- **IP 65 rated unit LED lights and GFI**
- **Bipolar ionization**
- **OA Ebtron**
- **SA/EA ECM driven fans with PIEZO flow rings**

COMPONENTS

- A. OA airflow station**
- B. OA 2" MERV 8 filters**
- C. SA 4" MERV 13 filters**
- D. Enthalpy energy wheel**
- E. DX cooling coil with SS casing**
- F. Hot gas reheat coil with SS casing**
- G. WSHP section**
- H. SA premium three plenum fan array**
- I. RA 2" MERV 8 filters**
- J. EA premium two plenum fan array**
- K. Split sections**



Contact XeteX for your next Custom AHU!

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