

AVENTUS Semi Custom Packaged DX DOAS for a Manufacturer

MARKET: Manufacturing

This Basis of Design AVENTUS by XeteX project showcases a semi-custom packaged DX DOAS for a manufacturer. The unit provides 30 tons packaged DX cooling, indirect gas heat, and hot gas reheat for year round climate control with a sensible crossflow plate heat exchanger for energy efficiency. High-efficiency filters throughout (OA/SA/RA) capture airborne particles for indoor air quality.

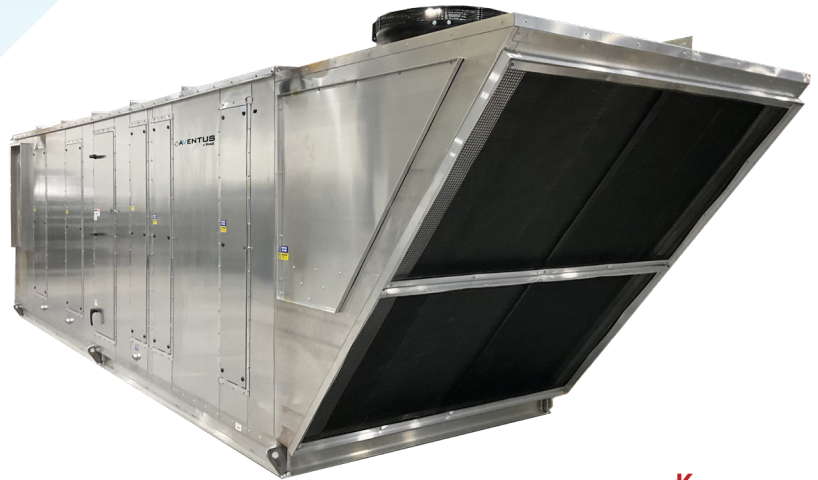
CONSTRUCTION

- Outdoor unit with thermal break construction
- 2" double wall casing with 2" injected foam (R-14) insulation
- 14ga (0.063) aluminum exterior casing
- 14ga (0.063) aluminum interior panel
- Welded 8" structural aluminum base with lifting lugs
- 14ga (0.063) aluminum floor with 2" injected foam (R-14) insulation

Model:	AVT-DD-60-60-RT-BP-PHE-DX-HG-HI-RC-AC
Base Dimensions:	103"H x 279"L x 92"W
Weight:	8,985 lbs
Supply CFM:	5,475 CFM
Cooling Type:	Packaged DX Cooling
Cooling Capacity:	30 Tons
Heating Types/Capacities:	Indirect Gas Heat: 200 MBH Hot Gas Reheat Coil: 149 MBH SCR Electric Preheater: 20 kW
Energy Recovery:	Aluminum Sensible Crossflow Plate HX
Energy Effectiveness:	Winter: 73% / Summer: 60%

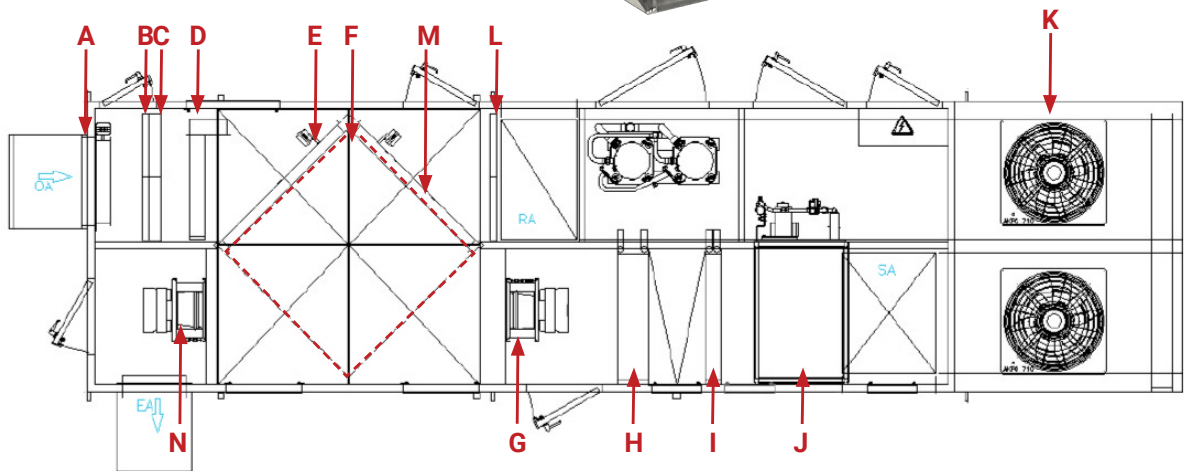
FEATURES

- **Modulating crossflow bypass damper with actuator**
- **Modulating recirculation damper**
- **SA/EA/condenser EC motors**
- **Field wired GFI service outlet**
- **304 Stainless Steel coil casings**
- **Double-sloped foam insulated 304 SS coil drain pan**
- **Compressor sound blanket**
- **Full unit controls with BACnet MS/TP and LCD display**



COMPONENTS

- A. OA 2" aluminum mesh
- B. SA 2" MERV 8 filters
- C. SA 4" MERV 13 filters
- D. Electric preheater
- E. Modulating bypass damper with actuator
- F. Aluminum sensible crossflow plate HX
- G. SA fan
- H. DX coil
- I. Hot gas reheat coil
- J. Indirect gas heat
- K. Condensing section
- L. RA 2" MERV 8 filters
- M. Recirculation/mixed air damper
- N. EA fan



Contact XeteX for your next AVENTUS Semi-Custom DOAS or ERV!

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