

Highlight of the Unit :

- Whisper Quiet- Ultra Quiet, efficient EC Blue fans
- Compact footprint
- Very economical
- Fits into any space-modular construction available
- Available in matching colors
- Light weight
- Customization available as option
- Piping package optional

Construction Details;

Base Frame - 12 gauge welded tubular steel frame.

Floor Casing - 16 gauge G-90 Galvanized steel Floor sheet
- 22 gauge G-90 Galvanized steel sub floor.

Outer Casing - 16 gauge G-90 Galvanized Steel exterior
-22 gauge G-90 Galvanized Steel Interior

All walls and roof will have 2-3 inches of fiber glass encapsulated to act as a sound barrier. Perforated panels include a vapor seal to protect the insulation. The rating of the insulation shall be in accordance to ASTM E84, NFPA 90A and UL 723 for Smoke and Fire ratings not to exceed a Flame spread of 25 and Smoke development of 50

Access Doors

16 gauge G90 galvanized double wall with 20 gauge solid liner and 2-3 lbs insulation. Fan section access doors are removable for a roll out fan assembly.



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Access doors have double layer bulb seal, low leak gasket with latches provided with lockable handles. Viewing windows are optional and can be provided on the fan section.

All galvanized section to be painted with Air Dried polyurethane 2-3 mils DFT.

Loading Components:

Supply Fan: Quiet fans manufactured by others; Direct Drive high performance Aluminum impeller or composite material. Controller provided for basic speed setting 0-10 V. Motor size 3, 200-480V, 50/60 Hz with thermal class THCL 155 built with integrated controller.

Cooling Coil- Cooling coil constructed with 5/8"X .025 copper tubes expanded into plate type aluminum fins are .0075. Casing is 304 stainless steel with box shaped channels. Stainless tube supports are provided on long coils. Coils are rated for 250psig operating pressure. Rated and certified under ARI-410 certification program. DX cooling coil optional.

Heating coil, Electric heat or steam is optional.

Mixing Air dampers- EB Air low leakage mixing dampers with galvanized construction can be provided as an option.

Filter and Filter rack: Filters are pre or secondary rated with MERV 13 Class 2 filters at air inlet. All filters are UL STD 900 and ASHRAE 52-76.



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Optional differential air measurement tap is provided to compare static pressure in front of the inlet ring with static pressure of the inlet ring at the narrowest point.

Electrical components and fittings;

Power requirement: 480/3/60 main power for each unit. Units to be connected with factory furnished NON Fused Disconnect Switch.

All Controls and actuators are furnished and installed by others.

Main power source disconnect switch is provided as 20 amps, 3 pole.

Compact fluorescent light in fans section, light and GFI receptacle on exterior of casing with branch circuit fuse and 480/115 lighting transformer, NEMA 1 electrical enclosure.

Variable Frequency Drive is factory furnished and installed. Mod Bus, Bac-net protocol is standard supplied per the specification. VFDs are 6 pulse types. Input tolerance of 50/60 Hz and acceptable voltage rating is 380-500v for standard installations.

Unit is customized to meet various components requirements.

The unit can ship in one piece or in modules as required under site conditions.