

MODELS - RAVS / RARM / RARS / RAVM / RAVL / RAVE

RAV Series fan coils have many standard and optional features which are unique to the industry

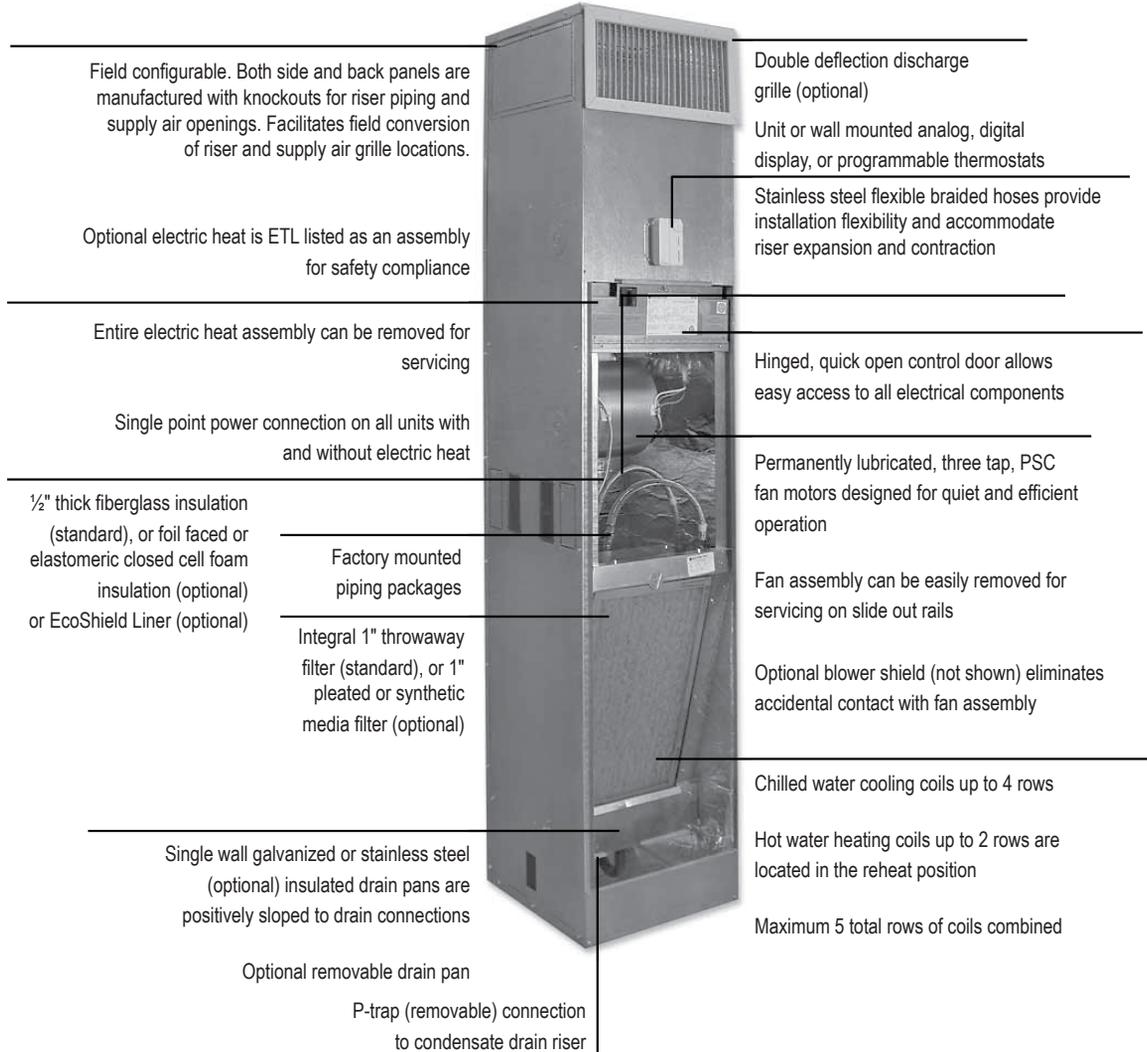
Factory mounted chilled and hot water and condensate insulated risers (not shown). Risers may also ship in advance of the unit.

Powder coated 18 gauge steel decorator front panel return grille (not shown)

Model RAVE exposed cabinet features durable, powder coat paint finish

ETL and AHRI 440 listed and labeled

Top discharge knockout permits ducted connection



Field configurable. Both side and back panels are manufactured with knockouts for riser piping and supply air openings. Facilitates field conversion of riser and supply air grille locations.

Double deflection discharge grille (optional)

Optional electric heat is ETL listed as an assembly for safety compliance

Unit or wall mounted analog, digital display, or programmable thermostats

Entire electric heat assembly can be removed for servicing

Stainless steel flexible braided hoses provide installation flexibility and accommodate riser expansion and contraction

Single point power connection on all units with and without electric heat

Hinged, quick open control door allows easy access to all electrical components

1/2" thick fiberglass insulation (standard), or foil faced or elastomeric closed cell foam insulation (optional) or EcoShield Liner (optional)

Factory mounted piping packages

Permanently lubricated, three tap, PSC fan motors designed for quiet and efficient operation

Integral 1" throwaway filter (standard), or 1" pleated or synthetic media filter (optional)

Fan assembly can be easily removed for servicing on slide out rails

Optional blower shield (not shown) eliminates accidental contact with fan assembly

Single wall galvanized or stainless steel (optional) insulated drain pans are positively sloped to drain connections

Chilled water cooling coils up to 4 rows

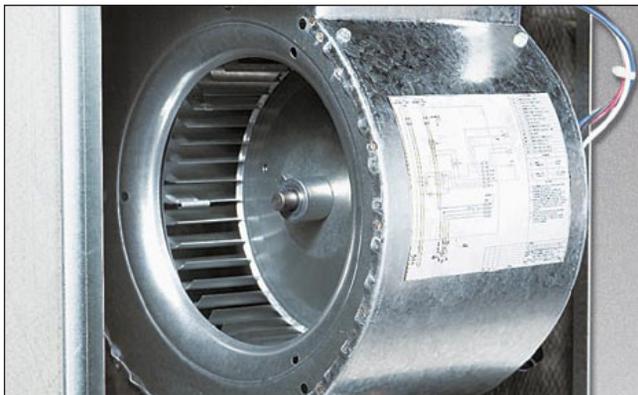
Hot water heating coils up to 2 rows are located in the reheat position

Optional removable drain pan

Maximum 5 total rows of coils combined

P-trap (removable) connection to condensate drain riser

Twin Pack Primary and Secondary Models RAVM/RAVL ship complete with risers enclosed in a wall plenum with one layer of 5/8" gypsum for sound attenuation. As an option, Twin Pack Primary and Secondary units may be ordered with two layers of 5/8" gypsum and fire blocking material for a one hour fire rating per UL 1479.



FAN DECK

For ease of service, the fan/motor assembly is easily removed by unscrewing two locknuts located at the front of the assembly. Slide rails support the fan during removal and installation, and the electrical harness is equipped with a quick connect plug.



DRAIN PAN

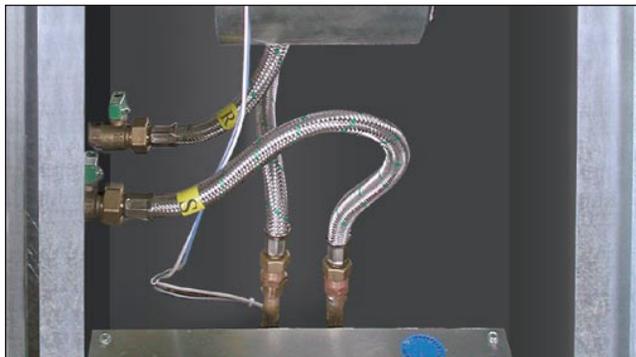
The sloped insulated drain pan is available in stainless steel construction. Standard drain pans are externally insulated, single wall galvanized steel. As an option, the RAV Series drain pan can be equipped for easy removal from the front of the unit for inspection and cleaning. For optimum moisture resistance and cleanability, the fan coil unit may be lined with foil faced fiberglass insulation (shown above) or elastomeric closed cell foam insulation.

FILTERS

Filter options include 1" throwaway (standard), pleated MERV 8, or synthetic media. Filters are easily replaceable from the return air when the front panel is removed.

POWDER COAT PAINTED SURFACE

Exposed cabinet Model RAVE, as well as the front return textured decorator panel, feature a powder coat finish that resists scuffing, scratching, fading, and fingerprints.



COILS AND PIPING

All fan coils are available in 2 or 4 pipe configurations. The heating coil is standard in the reheat position. Access for cleaning on both the entering and leaving air sides is available. Coils are removable from the front of the unit for service.



STAINLESS STEEL BRAIDED HOSES

Stainless steel braided hoses allow for flexibility and thermal expansion within the unit cabinet. The hose-to-coil and hose-to-riser connections are made via a threaded swivel adapter, simplifying coil removal.

RISERS

Risers, coils and piping packages are pressure tested and ship installed on the unit as a complete package. Risers may also ship in advance of the unit. This option greatly simplifies installation, while keeping the units free of construction debris during pressure testing of the risers.

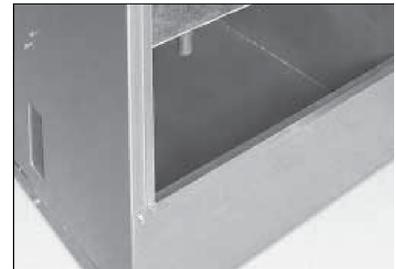
CONTROL ENCLOSURE

The spacious hinged electrical compartment houses all electric heat and control components. Terminal strips are furnished for simple power and control wiring connections.

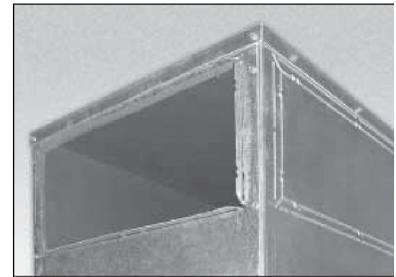
RAV Series fan coils feature several options to mitigate mold and mildew when applied in a properly designed and constructed building. For humid climates, Superior Rex offers innovations to ensure optimum humidity control at part load conditions.

- » Elastomeric closed cell foam insulation is a great alternative to fiberglass insulation in extremely humid climates, as well as educational and hi-rise residential facilities. The material's smooth and cleanable surface makes it naturally mold resistant, with no danger of fibrous material entering the airstream. Additional features include:
 - Easily cleaned surface resists dirt, moisture absorption, and microbial growth – even if torn or punctured
 - Higher temperature limit than polyethylene CCF, able to withstand service temperature spikes without permanent failure
 - More flexible than polyethylene CCF at 75°F, allowing expansion and contraction in hot and cold cycle applications
 - Compression resistance; retains its thermal insulating capacity
 - Outer moisture vapor barrier or liner not required
 - Ratings: NFPA 90A and 90B, ASTM E84, ASTM G-21 (fungi resistance), UL 181 (mold growth/humidity and air erosion)
- » Motorized coil bypass damper in conjunction with fan speed control increases dehumidification at part load and more closely matches cooling capacity to the room load during off peak operation
- » Innovative temperature and humidity controller improves part load relative humidity control.
- » Deep loading, synthetic media filtration protects both the coil and the coil bypass air from airborne contaminants. Filter frame and media are non organic, and will not support mold growth.
- » Ship In Advance Risers allow installation and pressure testing during building construction, prior to units arriving on job site
- » Stainless Steel Drain Pans and Coil Casings are available for use where added corrosion resistance or longevity are required
- » Coils and piping packages are removable in minutes through the standard front panel with only a screwdriver and pair of wrenches for periodic cleaning or service outside of the unit
- » IAQ drain pan is positively sloped to prevent standing water. An optional drain pan is removable for effective cleaning.

Refer to the Guide Specifications on the Superior Rex website for additional information on many of these features.



Positively sloped drain pan prevents standing water; lined with closed cell foam insulation for added moisture protection.



Supply air opening knockouts may be left in place during building construction to keep units dry and free from construction debris.