



RM EC SERIES

Rack Mounted / Air or Water Cooled Condensing Unit
Single or Twin Evaporator with Digital Controller

SYSTEM INFORMATION

The Rack Mounted (EC) Systems are designed to provide refrigerated air to medium-high temperature spaces.

EC evaporators mount horizontally. They have a fan speed control and multiple access panels that can be reconfigured to direct or re-direct air from the supply and return vents. These can be placed in an insulated soffit, between ceiling joists, or on a wall. They can be hidden from view with a grille or louvered box that does not restrict airflow. By far this is our most versatile system and our biggest seller.

EC evaporators are available in capacities from 1800-7200 BTU per hour and are used with R134a OR R404a refrigerant depending on the application.

OPTIONS

- Triple evaporator systems to increase capacity and improve air flow available
- Eco-friendly water-cooled condensing units available
- Stainless steel cabinets for high-corrosive environments
- 230v available on order

FEATURES

- High-performance staggered and anti-corrosion coated coils with copper tubing mechanically expanded into aluminum fins.
- Insulated rust-proof aluminum housing.
- Energy efficient, thermally protected motors meet or exceed California standards.
- Thermally protected permanently lubricated motor.
- Automatic expansion valve ensures constant coil temperature to promote "Humidity Balance" in a properly constructed space.
- Pump-down solenoid valve protects compressor in the event of leaks.
- Pre-installed valves eliminate additional wiring to thermostat.
- Pressure tested by the manufacturer to ensure quality.
- Factory wired for simple field installation.

Due to continuing engineering improvements, specifications are subject to change without notice.

*BTUH is an estimated range based on specific operational criteria.

*Individual component part numbers are different than a system assembly number.

*Max Cubic Footage is an estimation assuming No glass, R13 insulation or more, interior ambient temperature of 80° or less, exterior ambient temperature of 95° or less.

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RM EC FAN COIL SPECIFICATIONS

MODEL	CFM	AMPS 115 V	LENGTH	WIDTH	HEIGHT	LIQUID	SUCTION	DRAIN	APPROX SHIP WT.
RM 25 EC	220	1.25	30"	11"	11 3/8"	3/8"	3/8"	3/4" MPT	26 lbs
RM 35 EC	260	1.25	36"	11"	11 3/8"	3/8"	3/8"	3/4" MPT	29 lbs
RM 50 EC	335	1.25	36"	11"	14 3/8"	3/8"	5/8"	3/4" MPT	35 lbs
RM 65 EC	420	1.25	36"	11"	14 3/8"	3/8"	5/8"	3/4" MPT	43 lbs

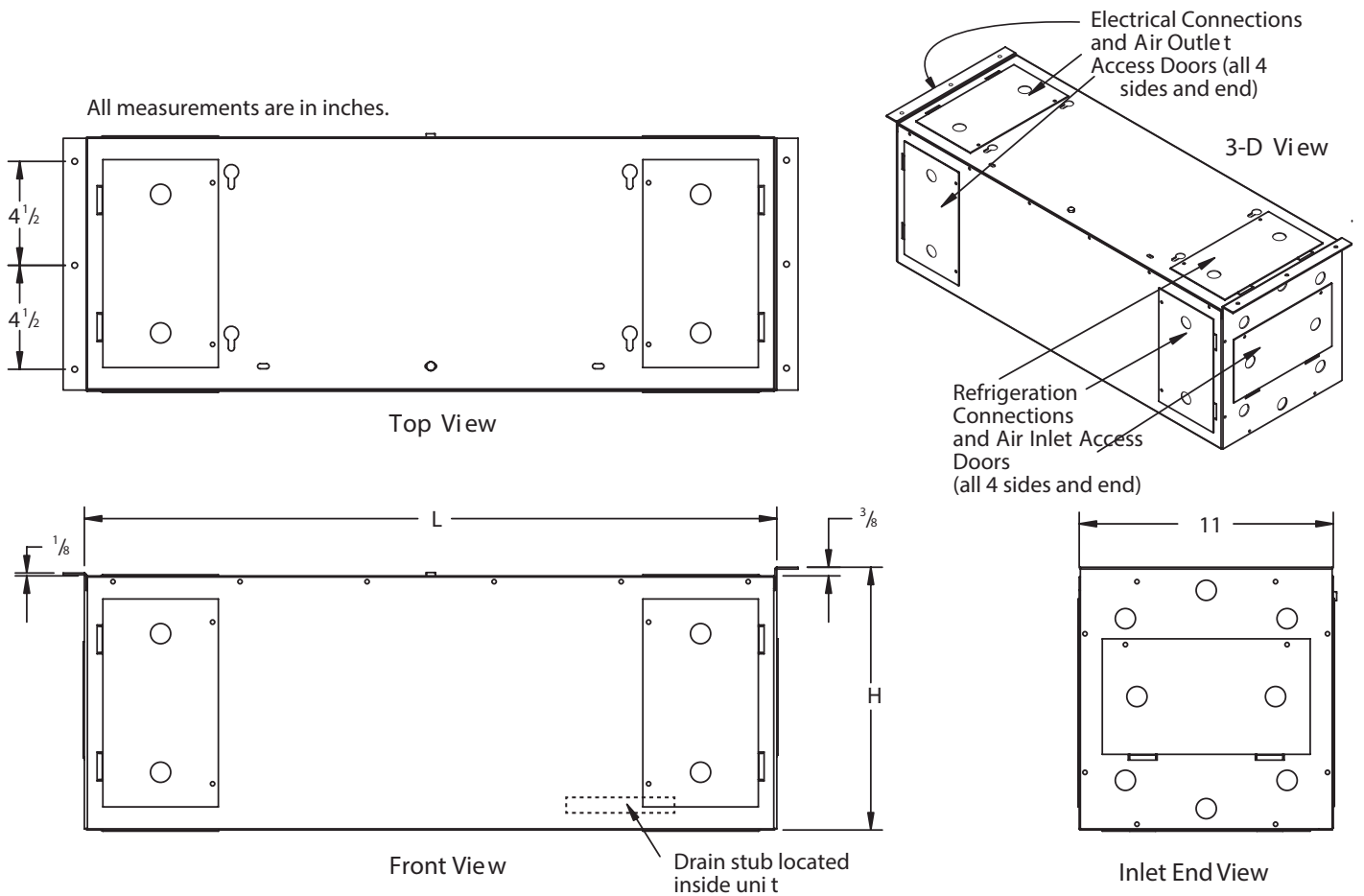
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MOUNTING DIAGRAMS

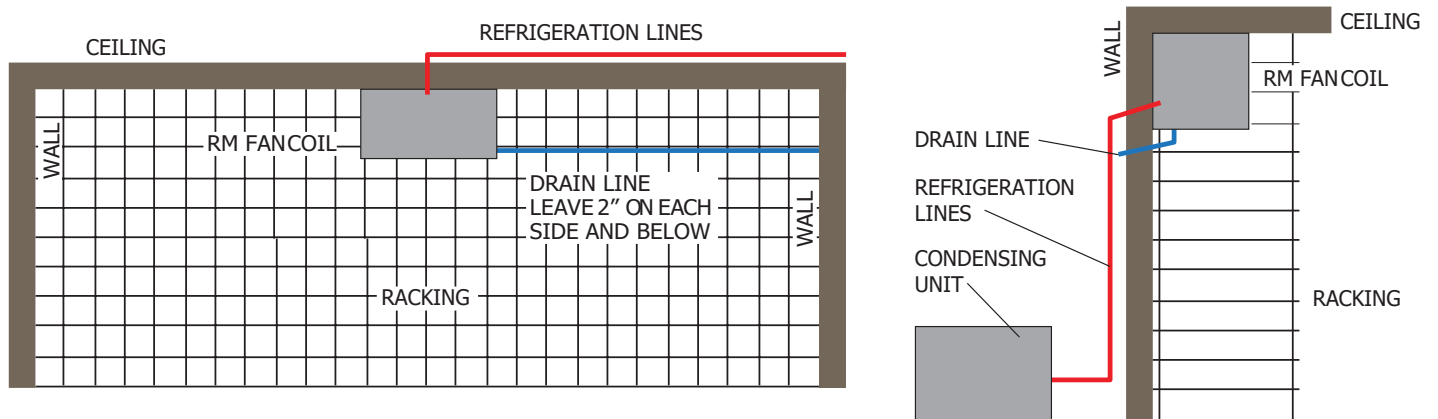


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RM EC COOLING SYSTEM TYPICAL INSTALLATION

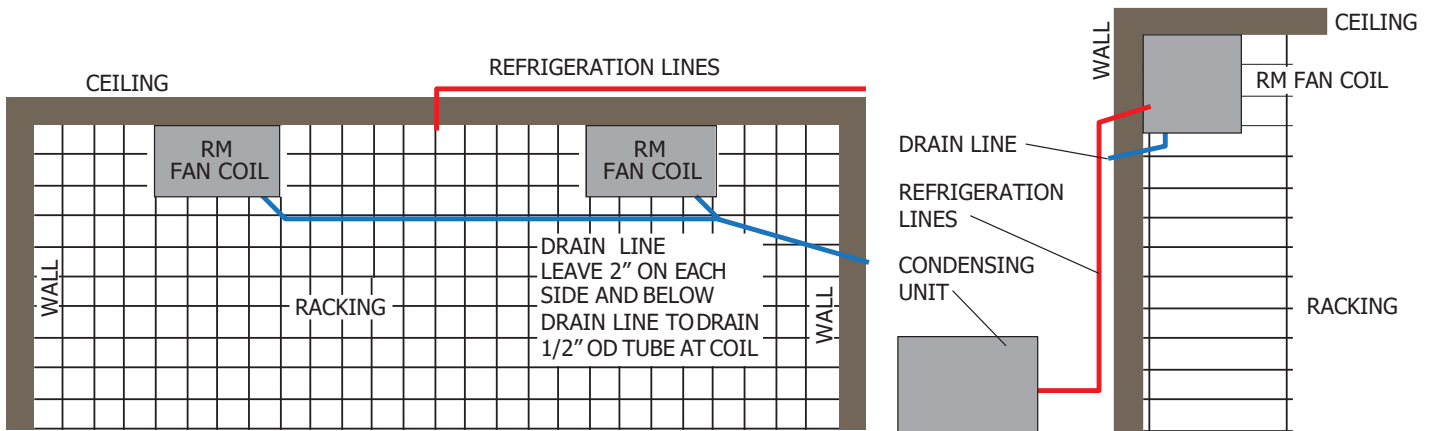
- Always plan for future maintenance and service. Units should have easy access or access panels. Grills, boxes, or racking nearest the evaporators should be removable.
- Standard Line Sets should be 50' or less. Over 50' an oil separator and suction line accumulator is required. Extended runs may require larger line sizes and 3 oz of oil must be added for every 10' feet over 35'. Insulate suction line, liquid line insulation is optional.
- Excessive number of turns in line set will cause refrigerant flow problems. This could cause early compressor failure. Suction line accumulators are recommended on all applications. Required if working lower than the normal 55°-65°F operating range from wine cellar.
- Drain line must flow with gravity to drain or pump.
- The system is controlled by a pump down control system. There is no control wiring between thermostat and condensing unit.
- The line connections at Fan Coil and Condensing Unit may not be the same as the required line sizes dictated for the system capacity.
- BTUH Capacity calculated at 17° TD, 38° ST, 55° Room
- The use of oversized condensing units can lead to poor wine room evaporator performance and possible system failure. When installing our wine room evaporator, it is recommended that condensing units be sized less than or equal to the evaporator capacity.
- USCS Cooling units are designed to minimize noise and vibration. To reduce and eliminate amplification of existing noise or vibration, extreme care must be taken during installation to identify contributing factors in the environment. Please refer to supplied installation instructions and use proper installation materials to minimize acoustic impact.
- Refer to complete installation instructions for additional information or contact our Tech Line at 562-728-5774



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RM EC TE COOLING SYSTEM TYPICAL INSTALLATION

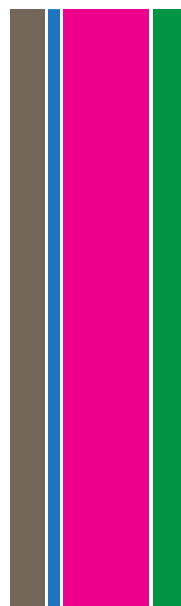


CEILING CONSTRUCTION



- EXTERIOR
- VAPOR BARRIER
R 11 MINIMUM
- INTERIOR

WALL CONSTRUCTION



- EXTERIOR
- VAPOR BARRIER
R 11 MINIMUM
- INTERIOR