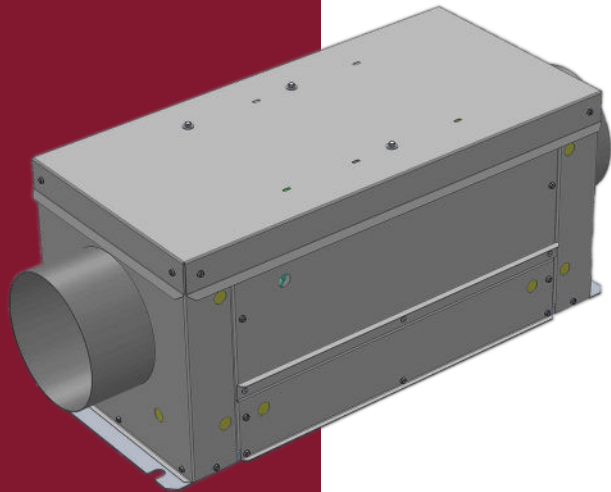




# RMD EC SERIES

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



## SYSTEM INFORMATION

The Rack Mounted Ducted (RMD EC) Systems are designed to provide refrigerated air to medium and high temperature spaces. RMD evaporators are internally insulated and mounted outside of the wine room. RMD units are connected by a supply and return air duct to the cellar. These units are extremely low profile so they may fit in places no other ducted evaporator could.

RMD EC evaporators are available in standard capacities from 1,800 to 7,200 BTUH and are used with R134a, R404, R410A, R22 all by a simple valve adjustment.

## OPTIONS

- Reversible internal assembly
- Secondary Drain Pan available
- 230v available
- Can be installed in sequence to increase capacity

## FEATURES

- High-performance staggered
- coils with copper tubing mechanically expanded into aluminum fins
- Insulated rust-proof aluminum housing
- Thermally protected permanently lubricated motor
- Automatic expansion valve (standard) ensures constant coil temperature to promote "Humidity Balance"
- Pump-down solenoid valve (standard) 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
- ETL certified

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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## RMD EC SERIES FAN COIL SPECIFICATIONS

MODEL	CFM	AMPS 115 V	LENGTH	WIDTH	HEIGHT	LIQUID	SUCTION	DRAIN	DUCT
RMD 25 EC	220	0.77	30 7/8"	14 5/16"	14"	0.38"	0.38"	0.75"	8"
RMD 35 EC	260	0.77	36 7/8"	14 5/16"	14"	0.38"	0.38"	0.75"	8"
RMD 50 EC	335	0.77	37 7/8"	14 5/16"	17"	0.38"	0.38"	0.75"	10"
RMD 65 EC	420	1.85	37 7/8"	14 5/16"	17"	0.38"	0.38"	0.75"	10"

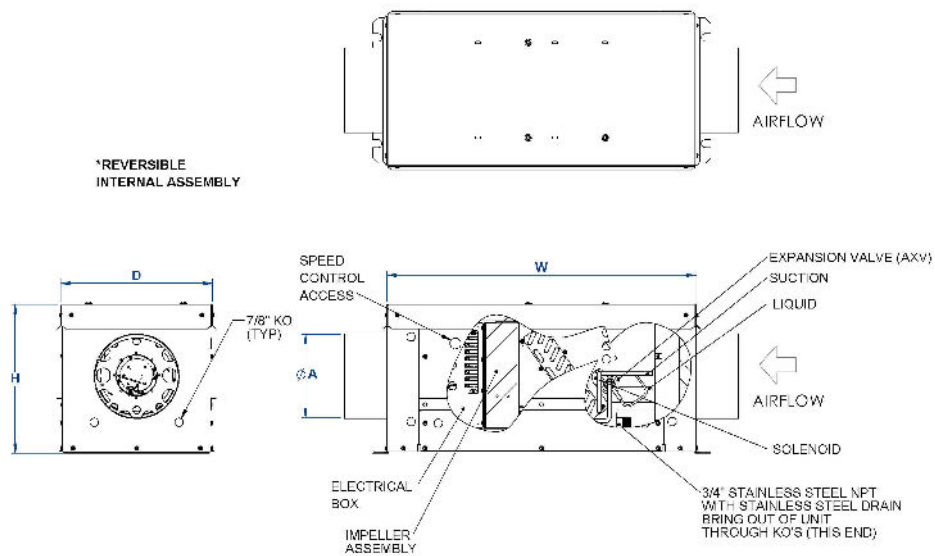
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## MOUNTING DIAGRAMS



# RMD EC SERIES

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

## RMD 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

