RML SERIES RACK-MOUNT AIR-COOLED AIR CONDITIONERS

KOOLTRONIC
ENCLOSURE COOLING SOLUTIONS

TECHNICAL DATA

Model	UL/CUL Listed or Recognized	BTU/H Capacity	95/95 Rating BTU/H	Ambient Temp. °F Max./Min	Ambient Temp. °C Max./Min	Volts	Hz	Running Amps	Approx. Weight lbs.	kg.
KA4C5RML	Listed	5000	4400	120/0	49/-17	115/100	60/50	15.0/14.5	97	45
K2A4C5RML	Listed	5000	4150	120/0	49/-17	230	60	7.8	97	45
K2A4C5RML	Listed	5000	4030	120/0	49/-17	230	50	6.8	97	45

Maximum ambient temperature is shown for Option 1 evaporator airflow. For other options maximum ambient temperature is 115 °F.
Rating shown is for operation at maximum ambient temperature.

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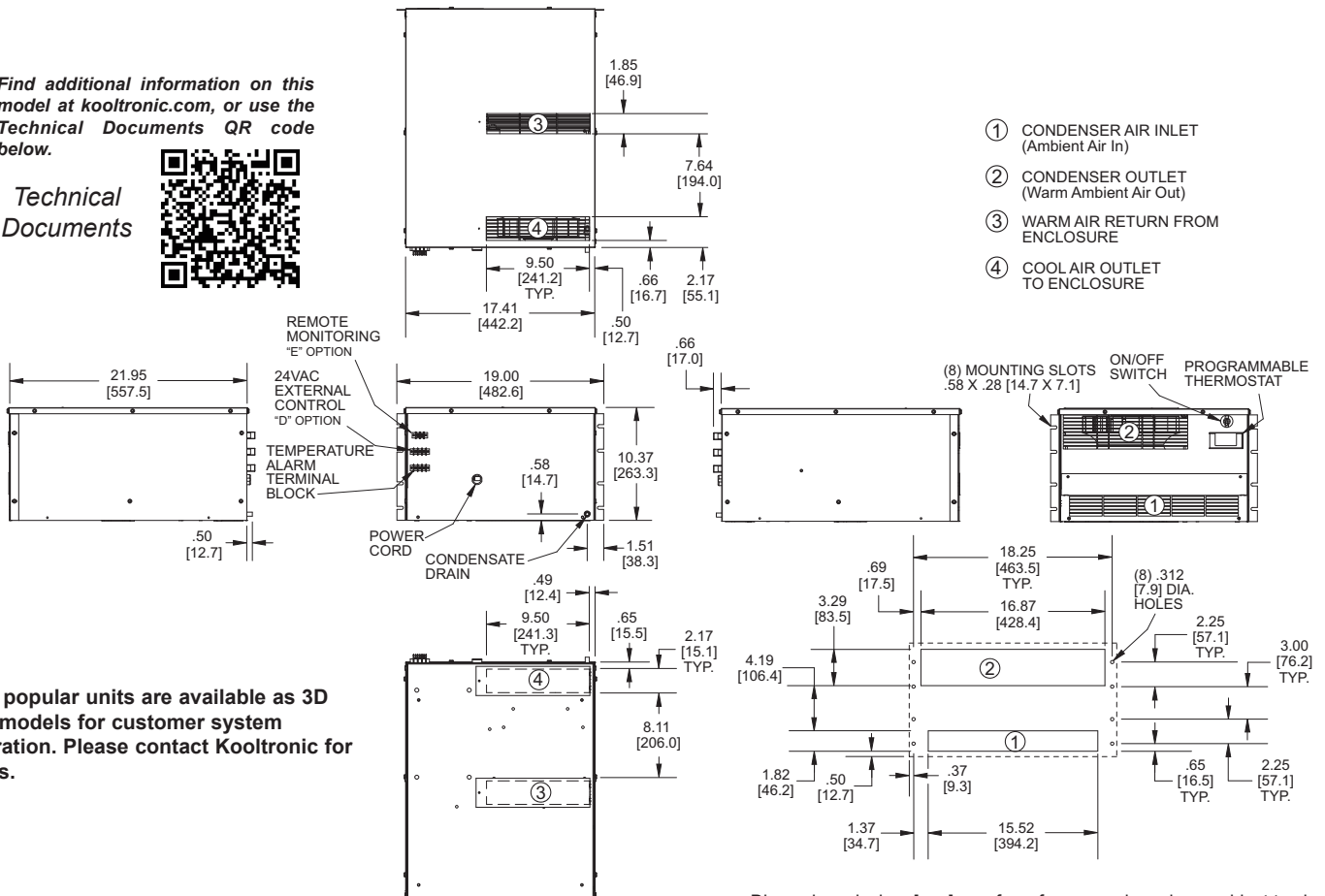**KOOLTRONIC, INC.**
UL REGISTERED FIRM
ISO 9001:2015

STANDARD FEATURES

Baked Powder Finish
CFC-Free Refrigerant
Closed-Loop Cooling
Compressor Short Cycle Protector
Condenser Airflow at Front of Unit
Customized airflow with supplied baffle plates
EIA-notched flanges
Filter
Heavy-duty Steel Shell
Ideal for inconspicuous internal mounting
Programmable Temperature Alarm
Programmable Thermostat
Six-Foot [1.8m] (minimum) 3-Wire Power Cord
UL/CUL Listed

ACCESSORIES AND OPTIONS

Enclosure Heater
Filter Recoating Adhesive
Internal Corrosion Protection
Other voltages and frequences
Remote Monitoring
Remote Thermostat Relay
Replacement Filters
Special materials or finishes
Special motors, line cords or connectors
Stainless Steel or Aluminum Shell

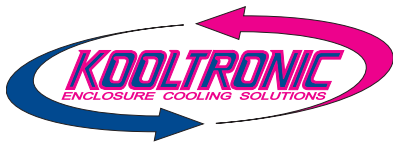*Find additional information on this model at kooltronic.com, or use the Technical Documents QR code below.*

Technical Documents

① CONDENSER AIR INLET (Ambient Air In)
② CONDENSER OUTLET (Warm Ambient Air Out)
③ WARM AIR RETURN FROM ENCLOSURE
④ COOL AIR OUTLET TO ENCLOSURE

Many popular units are available as 3D solid models for customer system integration. Please contact Kooltronic for details.

Dimensions, inches [mm], are for reference only and are subject to change.
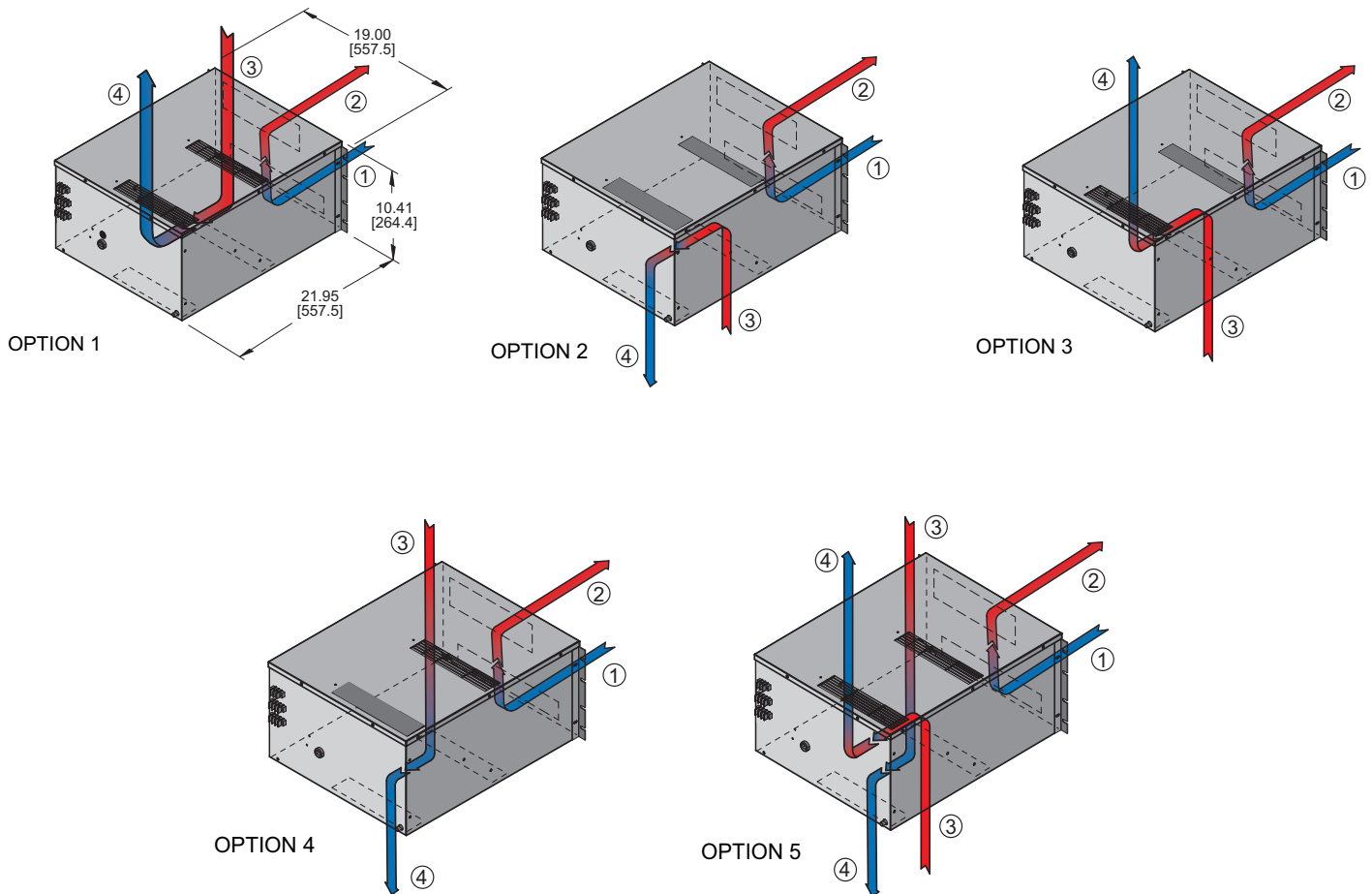
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AIRFLOW AND DIMENSIONS

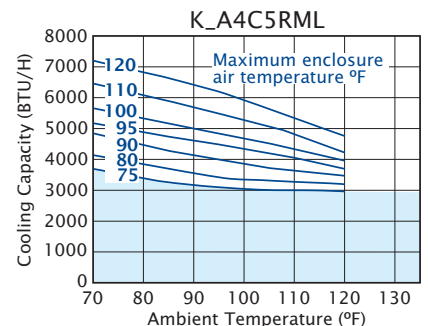Dimensions, inches [mm], are for reference only and are subject to change.

The RML Series offers a choice of up to five evaporator airflow patterns, allowing installation in any location within a data rack. Using supplied baffle plates the RML can easily be configured for a variety of applications.

In addition, the RML features a unique condenser airflow design with both intake and outlet at the front of the unit. The RML is the only air conditioner on the market with this same-side condenser airflow configuration. This design gives greater flexibility when locating the unit within an enclosure, frees up additional space and requires only one cutout on the enclosure.
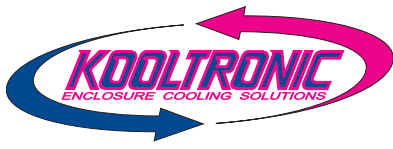
OPTION 1

19.00 [557.5]

10.41 [264.4]

21.95 [557.5]

OPTION 2

OPTION 3

OPTION 4

OPTION 5

Dimensions, inches [mm], are for reference only and subject to change.

① FILTERED CONDENSER
AIR INLET (Ambient Air In)

② CONDENSER OUTLET
(Warm Ambient Air Out)
2.25 x 3.38 [57.2 x 85.9] each

③ WARM AIR RETURN FROM
ENCLOSURE
2.00 x 15.00 [50.8 x 381.0]

④ COOL AIR OUTLET
TO ENCLOSURE
2.00 x 4.50 [50.8 x 114.3] each

PERFORMANCE

K_A4C5RML

Maximum enclosure air temperature °F

Cooling Capacity (BTU/H)

120
110
100
95
90
80
75

Ambient Temperature (°F)

Operation within shaded area not recommended.

DESCRIPTION

The **RML Series** Rack-Mounted Air Conditioners are designed specifically for cooling electronic enclosures, and boast an innovative design concept allowing installation in any location within a data rack while keeping electronics cool. The key to this flexibility is the evaporator airflow pattern. The **RML Series** Air Conditioners feature two evaporator air inlets and two outlets on the top and bottom of the unit. By using supplied baffle plates, the air conditioners can easily be configured for a variety of applications, with the choice of up to five airflow pattern options. In addition to airflow variety, the **RML Series** features condenser airflow at the front of the unit. This unique design eliminates the need for duct work, freeing up more space in the electronics cabinet. It also allows greater flexibility when locating a unit within an enclosure, and requires only one cutout on the enclosure.

Rated at 5,000 BTU/H and available in 115 or 230 VAC, these air conditioners are an excellent choice for Data Centers, Communications and Telecom applications. The **RML Series** is UL Listed and offers a wide variety of options, including a Temperature Alarm, Internal Corrosion Protection and Stainless or Aluminum Shell.

FEATURES AND BENEFITS (STANDARD)

All models UL/CUL Listed, a standard of safety.

CFC-free refrigerant provides a zero ozone depletion potential.

Closed-loop cooling provides stable temperature control while excluding dust and humidity from the electrical enclosure.

Compressor short-cycling protection extends compressor life.

Customized airflow with supplied baffel plates.

Insulation of cold components, lines and evaporator compartment ensures maximum efficiency.

Programmable thermostat capable of remote monitoring and control is available.

Programmable temperature alarm to alert if early action required.

NEMA 12 rating for compatibililty with listed electrical enclosures.

* May not be adequate in extremely high humidity with open or leaky enclosure. Overflow condensate drain fitting and hose are included.

FEATURES AND BENEFITS (OPTIONAL)*

Enclosure heater eliminates damaging condensation, increasing reliability of electrical enclosure components.

Remote Monitoring provides temperature data for warning of early action required.

Remote thermostat relay for control by a user-supplied control system.

Special paint finishes.

*Contact KOOLTRONIC for more information.

REPLACEMENT FILTERS

The filter part number for the RML Series is 8752F. (16.59″ x 8.34″ x 0.38″ [421mm x 212mm x 10mm])