

### MICRO-MINI SWITCHABLE AIR-COOLED PANEL-MOUNTED AIR CONDITIONERS

These products are discontinued and no longer in production.



13.25 [336.6]

1

2

14.13 [358.9]

12.88 [327.2]

6.25 [158.8]





NEMA
TYPE 12
MAINTAINED

facebook

			95/95	Ambient			***	Approx.
	Normally	BTU/H	Rating	Temp. ⁰F			Running	Weight
Model	in Stock	Capacity	BTU/H	Max./Min.	Volts	Hz	Amps	(lbs.)
KA4C1.0MML56		1000	720	125/50	115**	60/60*	4.5	43
K2A4C1.0MML5		1000	720	125/50	230	50/60	2.3	43

- \* Switchable. Switch is internally-mounted for security.
- \*\* The transformer is required to reduce 115 volt supply to 100 volts for 50 Hz compressor operation is externally mounted. Consult Kooltronic for resulting dimentional changes.
- \*\*\* Rating shown is for operation at maximum ambient temperature.

#### STANDARD FEATURES

**Ball-bearing Motors** CFC-Free Refrigerant Filter

THERMOSTAT ADJUSTMENT ACCESS

Low Temperature Control Thermostat NEMA12 Rating Maintained (UL50) **UL/CUL Listed** 

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

Technical **Documents** 

(1)

[112.8] DIA.

below.



- CONDENSER AIR INLET (Ambient Air In) **ENCLOSURE**
- CONDENSER OUTLET (Warm Ambient Air Out)

WARM AIR RETURN FROM

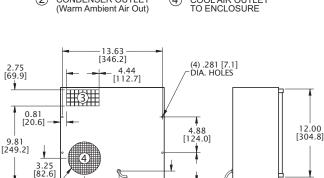
COOL AIR OUTLET TO ENCLOSURE

### **ACCESSORIES AND OPTIONS**

Aluminum Shell Compressor Short Cycle Protector Filter Recoating Adhesive **High-Capacity Condensate** Evaporator Internal Corrosion Protection Lead-Lag Controller Lifting Eyes Low Ambient Kit Mounting Hinge Remote Thermostat Relay Replacement Filters Special controls or indicators Special materials or finishes Special motors, line cords, or connectors

Stainless Steel Shell Temperature Alarm Weather Protection Kit

- 14.13 -[358.9]



1.50 <sup>1</sup> [38.1]

4.00 [101.6]

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

-3.25 [82.6]

[201.7]

-13.63 [346.2] - 0.81 [20.6] 4.44 **-** [112.8] (4) .312 [7.9] DIA. HOLES – 2.75 (69.91 3 4.31 [109.5] 12.88 [327.2] 4.88 [124.0] 4.50 [11<u>4</u>.3] 4 4.00 [101.6] ŧ \_1.00 [25.4] 4.50 [114.3] -14.13 · [358.9] 1.00 [25.4] 1.50 [38.1] DIA.— POWER CORD HOLE [336.6] - 8.00 -[203.2] MOUNTING PLAN OPTIONAL POWER CORD EXIT CONDENSATE DRAIN

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

0.68 [17.3]

0.63 [16.0]

⊢6.25− [158.8]



# MICRO-MINI SWITCHABLE AIR-COOLED PANEL-MOUNTED AIR CONDITIONERS

#### **DESCRIPTION**

KOOLTRONIC *Micro-Mini Air Conditioners* are ideal for low-capacity applications with space limitations. Mounted on any vertical panel of equipment enclosures, they occupy minimal floor space and no cabinet space. Hostile ambient air is sealed from the electronic cabinet air by the closed-loop design and gasketed mountings.

Micro-Mini Air Conditioners are suitable for applications that have low static pressures, where fans can provide adequate airflow.

Where rack mounting is required, special adapter plates are available.

Outdoor or corrosive environments require weather protection and/or special internal and external protective features.

For extreme ambient temperatures and/or severely contaminated environments, the use of Water-Cooled Air Conditioners is recommended.

KOOLTRONIC also designs and manufactures a variety of Air Conditioners to meet unique specifications. We invite your inquiries about our modification and custom-design capabilities.

#### STANDARD FEATURES

BAKED POWDER FINISH: Durable, baked-on gray powder finish is standard. Other finishes are available.

**BALL-BEARING MOTORS:** All fan motors are UL/CSA Recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision ball bearings. Special permanent lubricants in the tub axial fans perform over a broad temperature range: 14°F [-10°C] to 158°F [70°C] and are designed to meet UL, CSA and VDE.

**CLOSED-LOOP COOLING:** The enclosure interior airflow system is isolated from the ambient airflow or waterflow system. Ambient air can not invade the cool, dehumidified sensitive component compartment.

CONDENSATE REMOVAL: Condensate drain fitting and hose are included.

**FILTERS:** Multi-layer grid of sturdy, corrugated aluminum in an aluminum frame. May be reused after washing off accumulations and spraying with A-16 Recoating Adhesive.

GASKETING: All units are fully gasketed for tight, leakproof installation in compliance with the NEMA 12 Enclosure Rating (UL50).

INSULATION: All cold components, lines and the evaporator compartment are insulated with high-performance insulation for maximum efficiency.

POWER: Available in 115 VAC, 60 Hz or 50/60 Hz.

POWER CORD: All models have six foot [1.8m] 3-wire power cord.

**QUALITY ASSURANCE:** Refrigeration system components are kept sealed until charged with refrigerant; all brazed joints are thoroughly leak-tested; each unit is functionally tested before shipment.

REFRIGERANT: CFC-free R134a Refrigerant is used in all Micro-Mini Series Air Conditioners.

**RUGGED CONSTRUCTION:** Precision-engineered heavy gauge steel construction of all shells and blowers insures Air Conditioners will stand up under tough applications.

UL/CUL LISTED: All Micro-Mini models are UL/CUL Listed.

#### **ACCESSORIES AND OPTIONS\*\***

#### **FACTORY-INSTALLED OPTIONS:**

#### ADAPTER PLATE FOR RACK MOUNTING\*\*

**ALUMINUM SHELL:** Where light weight and/or compatibility with appearance of Aluminum Enclosures are required. Unpainted Type 5052 is standard. Other types and ultra-violet-resistant baked powder finish are available.

Append letter "A" to Part No. (5052 Unpainted)

COMPRESSOR SHORT CYCLE PROTECTOR: Protects the compressor from possible damage due to harmful short cycling.

Append letter "Y" to Part No.

**INTERNAL CORROSION PROTECTION:** For corrosive or other hostile environments, special coating material is applied to copper lines, coils and other parts subject to damage. Also see **Stainless Steel Shell** or **Integrity NEMA 4/4X Air Conditioners**.

Append letter "H" to Part No

LIFTING EYES: Heavy-gauge steel lifting eyes, attached to the side panels, assist in positioning units.

Append letter "K" to Part No.

**LOW AMBIENT KIT:** Maintains sufficient operating pressures when ambient temperatures drop below 50°F [10°C]. Includes a compressor heater and pressure actuated condenser blower cycling control.

**MOUNTING HINGE:** (Left-hand or Right-hand) Allows the Air Conditioner itself to be used as a cabinet door. (Caution: The cabinet must be able to support the full weight of the unit in open position.) Specify left-hand or right-hand, determined by facing the mounting side of the Air Conditioner.

Append letter "P" to Part No. for left-hand.

Append letter "S" to Part No. for right-hand.

\*\*Contact KOOLTRONIC for information.



## MICRO-MINI SWITCHABLE AIR-COOLED PANEL-MOUNTED AIR CONDITIONERS

#### ACCESSORIES AND OPTIONS\*\* (continued)

SPECIAL MATERIALS OR FINISHES\*\*

SPECIAL MOTORS. LINE CORDS OR CONNECTORS\*\*

**STAINLESS STEEL SHELL:** For applications in corrosive or other hostile environments such as those requiring Internal Corrosion Resistant Coatings, especially where chemical/moisture combinations are present.

Append letter "V" to Part No. (304-2B Unpainted)

**TEMPERATURE ALARM:** A thermostat is mounted inside the cabinet and attached to a sensor in the warm air return. When the air temperature increases to the set point, a signal is sent to a terminal block. User-installed wiring from the terminal block to local and/or remote warning devices (light, bell, siren, etc.) can be for normally open or closed operation.

Append letter "B" to Part No.

#### **CUSTOMER-INSTALLED OPTIONS:**

**CONDENSATE EVAPORATOR KIT:** Heated add-on unit for Air Conditioners without built-in condensate evaporator system. Eliminates need for draining of condensate under normal operating conditions. May not be adequate in extremely high humidity with open or leaky enclosure.

Consult KOOLTRONIC for Part No.

**FILTER RECOATING ADHESIVE:** This compound is a superior product for recoating filters after washing. The adhesives penetrate dirt layers to keep the filter surface tacky for longer effective performance between washings. Part No. A-16.

**REPLACEMENT FILTERS:** All KOOLTRONIC filters consist of a multi-layer grid of sturdy corrugated aluminum, securely held in a one-piece aluminum frame. Filters are required wherever air is drawn into an electronics enclosure or related cooling equipment to keep internal parts as clean as possible.

A non-drying adhesive coating traps a high percentage of particulate matter. These filters are reuseable, they may be washed and recoated with the appropriate filter recoating adhesive. Replacements are available for those which become damaged or otherwise non-serviceable.

Part No. 900F (11.38" x 11.38" x 0.50" [289mm x 289mm x 13mm])

**WEATHER PROTECTION KIT:** For outdoor installations subject to invasion by rain, snow or windblown dirt, special deflectors shield the condenser air inlet and outlet ports. Air conditioners or heat exchangers installed outdoors may also require special exterior paint.

Consult KOOLTRONIC for Part No.

\*\*Contact KOOLTRONIC for information.

#### **HOW TO ORDER**

Specify model number. NOTE: Accessories and Options may affect model number, contact KOOLTRONIC for information.

For assistance in model selection, refer to the <u>Air Conditioner Sizing and Selection Guide</u>, contact KOOLTRONIC, or use one of our design aid software programs, available FREE.

> CALL 1-800-321-KOOL (5665) or FAX 609-466-1114

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