TRIMLINE SERIES WNP36 WATER-COOLED PANEL-MOUNTED AIR CONDITIONERS

These units are discontinued, and this information is presented for reference purposes only.

Recommended replacement: See *Guardian/GuardianX or SlimKool Series or current TrimLine Series.*

TECHNICAL DATA

Model	BTU/H Capacity	Water Flow (GPM) @85ºF Max.▼	Volts	Hz	* Running Amps	Approx. Weight (lbs.)
KA4C4WNP36	4000	1.0	115/100	60/50	10.4	125
K2A4C4WNP36	4000	1.0	230/200	60/50	6.4	125
K2A4C4WNP36/5	4000	1.0	230	50	5.0	125

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STANDARD FEATURES

CFC-Free Refrigerant
Excess Pressure Control
Low Temperature Control Thermostat
Water Regulating Valve

ACCESSORIES AND OPTIONS

Aluminum Shell
Compressor Short Cycle Protector
Enclosure Heater
High-Capacity Condensate
    Evaporator
Internal corrosion protection
Lifting Eyes
Low Airflow Detector
Remote Thermostat Relay
Special materials or finishes
Special motors, line cords
    or connectors
Stainless Steel Shell
Temperature Alarm

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

Technical Documents

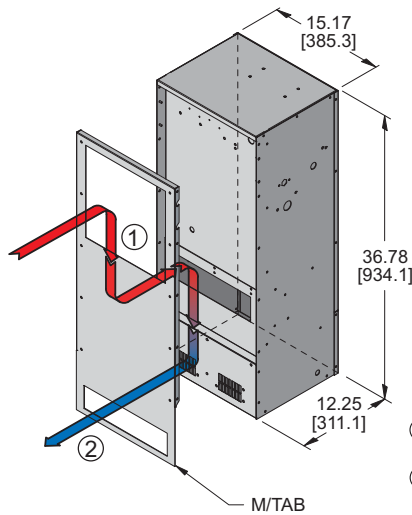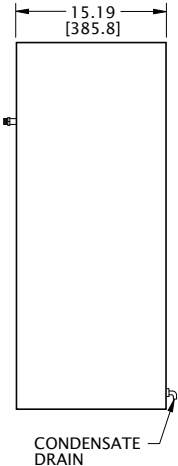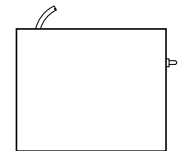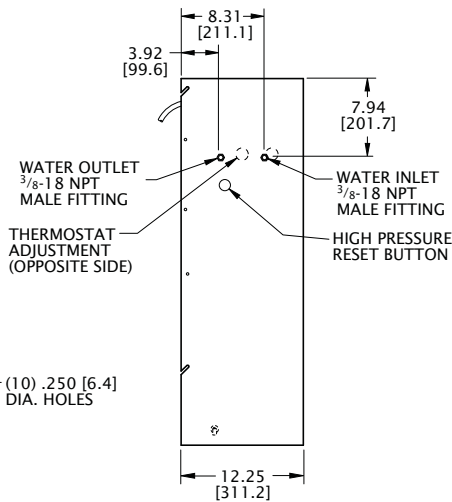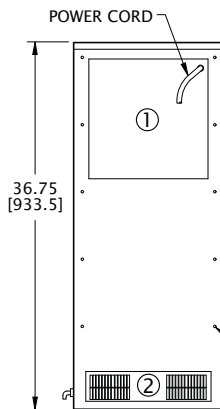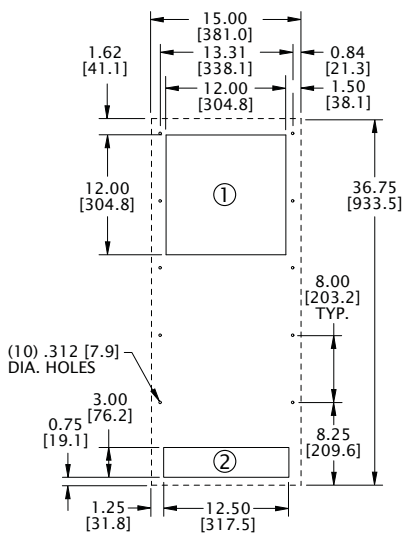**Many popular units are available as 3D solid models for customer system integration. Please contact Kooltronic for details.**

15.17 [385.3]

36.78 [934.1]

12.25 [311.1]

① WARM AIR RETURN FROM ENCLOSURE
② COOL AIR OUTLET TO ENCLOSURE

M/TAB

MOUNTING PLAN

15.00 [381.0]
1.62 [41.1]
13.31 [338.1]
0.84 [21.3]
12.00 [304.8]
1.50 [38.1]
12.00 [304.8]
36.75 [933.5]
①
8.00 [203.2] TYP.
(10) .312 [7.9] DIA. HOLES
3.00 [76.2]
0.75 [19.1]
②
8.25 [209.6]
1.25 [31.8]
12.50 [317.5]

POWER CORD
①
36.75 [933.5]
②
(10) .250 [6.4] DIA. HOLES

8.31 [211.1]
3.92 [99.6]
7.94 [201.7]
WATER OUTLET 3/8-18 NPT MALE FITTING
WATER INLET 3/8-18 NPT MALE FITTING
THERMOSTAT ADJUSTMENT (OPPOSITE SIDE)
HIGH PRESSURE RESET BUTTON
12.25 [311.2]

15.19 [385.8]
CONDENSATE DRAIN

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

* Rating shown is for operation at maximum water temperature.

▼ Rated for full capacity load at 85ºF water. Usage will vary at lower load or cooler water conditions.

wnp36-d.qxd (6/16/21) (CDR: (20333)

DESCRIPTION

Cool circulating water has greater heat-removal capacity than warm ambient air.

KOOLTRONIC *Water-Cooled Air Conditioners* are recommended for applications with extreme ambient temperatures and/or severely contaminated environments, if a reliable supply of cool, clean water is available.

Since ambient air is sealed out of the Air Conditioner as well as the enclosure, no contaminants can enter and there are no filters to clean.

These units contain a regulating valve that automatically adjusts the condenser waterflow rate for water temperature and/or cooling load changes. When the Air Conditioner is shut off, the valve closes, cutting off the water supply to the unit.

Should the water supply become inadequate for any reason, the built-in Excess Pressure Control senses the increased compressor discharge pressure and turns off the unit. For added protection, the switch must be reset manually after the waterflow problem has been corrected.

Outdoor or corrosive environments require weather protection and/or special internal and external protective features. Also see *Integrity NEMA 4/4X* and *Intrepid Outdoor Series.*

See *Rack-Mounted Water-Cooled Air Conditioners* for alternatives to panel-mounted models.

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 blower motors are UL/CSA Recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision ball bearings. Special permanent lubricants perform over a broad temperature range: -20°F [-28.9°C] to 250°F [121.1°C].

BLOWERS: All centrifugal blowers are Kooltronic-designed and built, to provide optimum airflow and pressure for each Air Conditioner design.

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

CONDENSATE REMOVAL: Condensate drain fitting and hose are included.

GASKETING: All units are fully gasketed for tight, leakproof installation, in compliance with the NEMA 4/4X Enclosure Rating.

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

LOW TEMPERATURE CONTROL: Thermostatic Low Temperature Control prevents over-cooling and provides energy-efficient operation.

POWER: Available in 115 VAC, 60 Hz or 50/60 switchable and 230 VAC, 50 Hz or 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 WNP36 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.

ACCESSORIES AND OPTIONS**

FACTORY-INSTALLED OPTIONS:

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.

CONDENSER ACCESS PANEL: Expressly designed for quick, convenientaccess to the condenser coil for easy cleaning and servicing. Recommended for units operating in dirty environments, the panel is easily removed and replaced by use of a few fasteners, without removal of the entire rear cover panel.

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 Cabinet** 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.

**Contact KOOLTRONIC for information.

ACCESSORIES AND OPTIONS** (continued)

LOW AIRFLOW DETECTOR: Similar to the Airflow Switch shown in the Blower Accessories Section, the switch is installed in a suitable location in the Air Conditioner to detect loss of airflow, and sends a signal to a terminal block, through which user-installed wiring and warning devices are activated.

Append letter "M" 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.

Append letter "N" to Part No.

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.

SPECIAL MATERIALS OR FINISHES**

SPECIAL MOTORS, LINE CORDS OR CONNECTORS**

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.

****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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