

# INTREPID OUTDOOR 24-30k BTU AIR-COOLED PANEL-MOUNTED AIR CONDITIONERS



K2WA3C24P52R

## STANDARD FEATURES

- Aluminum (5052) Unpainted Cabinet
- Ball-bearing Motors
- Closed-Loop Cooling
- EMI/RFI Suppressor
- Low Ambient Control Package
- Low ODP Refrigerant
- Low Temperature Control Thermostat
- NEMA 3R Rating Maintained (UL50)
- Permanent Filters
- Six Foot [1.8m] (minimum)
- SJT 3-wire Cord
- Tamper-resistant hardware
- UL/CUL Recognized\*

\* UL/CUL Recognized models are available as Listed at added cost.

## ACCESSORIES AND OPTIONS\*

- Cooling Effect Detector
- Enclosure Heater
- Filter Recoating Adhesive
- Filters for replacement
- Internal corrosion protection
- Lifting Eyes
- Low Airflow Detector
- Polyester Exterior Powder Paint
- Short Cycle Protector
- Special materials or finishes
- Special motors, line cords or connectors
- Stainless Cabinet

\*See opposite side for more information.

## APPROXIMATE WEIGHT

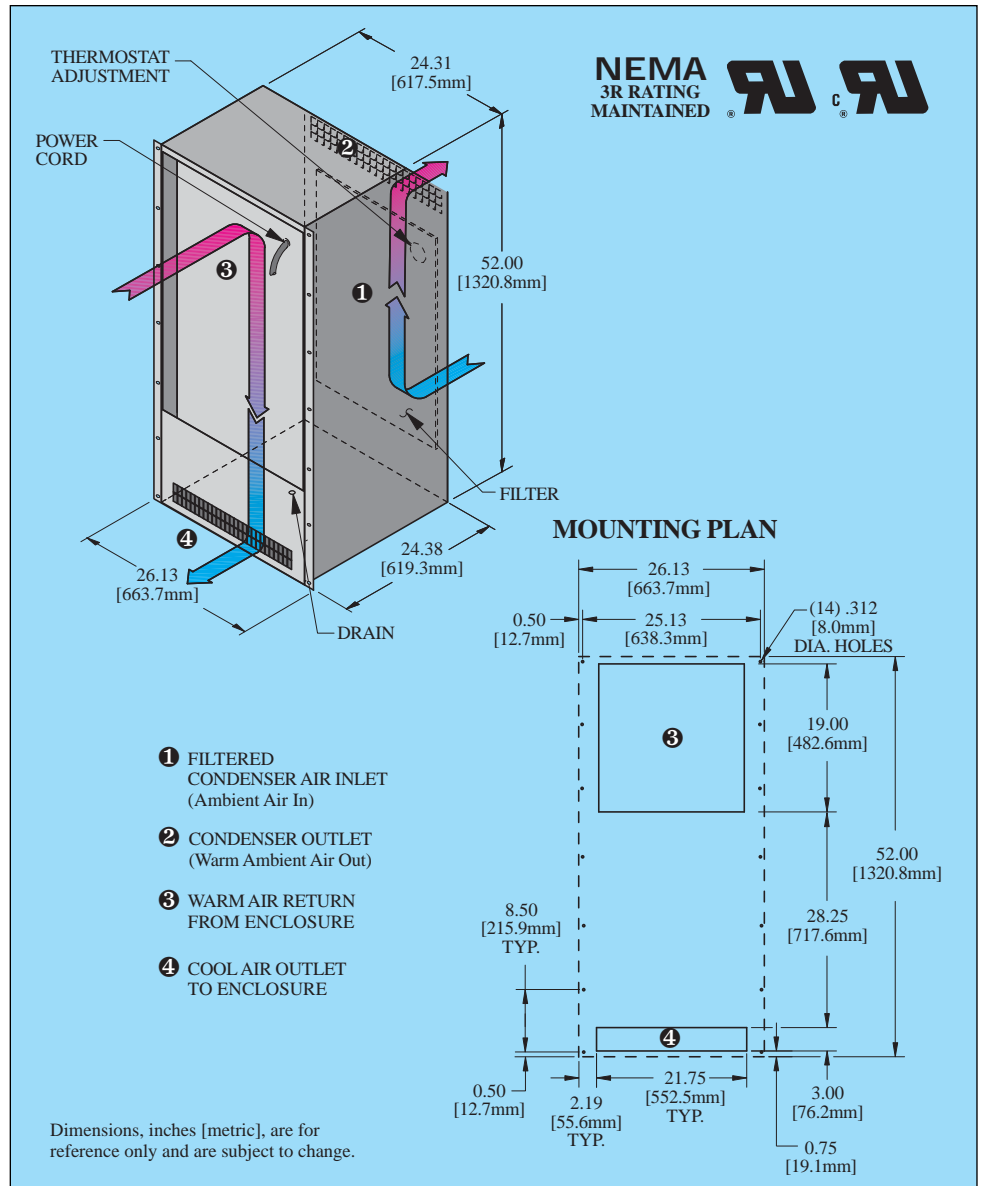
400 lbs. [181.8 kg]

## 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 Air Conditioner Sizing and Selection Guide, contact KOOLTRONIC, or use one of our design aid software programs, available FREE.

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



## TECHNICAL DATA

Model	Refrigerant	UL/CUL Listed or Recognized	** BTU/H Rating	Ambient Temp.		◇ Volts	◇ Hz	** Running Amps
				°F	°C			
K2WA3C24P52R	R22	Recognized	24000	120/50	48.9/10.0	230	60	28.0
K2WA3C24P52R5	R22	Recognized	24000	115/50	46.1/10.0	230	50	28.0
K2WA3C26P52R	R22	Recognized	26000	120/50	48.9/10.0	230	60	28.0
K2WA3C26P52R5	R22	Recognized	26000	115/50	46.1/10.0	230	50	28.0
K2WA3C28P52R	R22	Recognized	28000	120/50	48.9/10.0	230	60	28.0
K2WA3C28P52R5	R22	Recognized	28000	115/50	46.1/10.0	230	50	28.0
K2WA3C30P52R	R22	Recognized	30000	120/50	48.9/10.0	230	60	28.0
K2WA3C30P52R5	R22	Recognized	30000	115/50	46.1/10.0	230	50	28.0

\*\* Rating shown is for operation at maximum ambient temperature.

◇ 230V, 60 Hz models also operate at 200V, 50 Hz respectively. No transformer is required.

**POPULAR MODELS ARE STOCKED AND READY TO SHIP**

## DESCRIPTION

---

These specifically-designed ***Intrepid Outdoor Air Conditioners*** are UL/CUL Recognized and approved for outdoor use to protect the enclosure against nearly all outdoor climate hazards.

Sensitive internal components are shielded from invasion by the outdoor elements, while the internal enclosure environment is effectively controlled. Cooling, dehumidification and heating (optional) are provided over a wide range of conditions.

The weather protection afforded by these Air Conditioners is integral to the cabinetry, without protruding weather hoods. These units feature a sturdy aluminum exterior, gasketed flanges and tamper-resistant external fasteners to prevent vandalism or unauthorized access. An optional ultraviolet-resistant baked powder finish is available.

Powerful **Kooltronic-designed** blowers in both interior and ambient compartments assure maximum airflow and efficient heat transfer, even in densely-packed enclosures, for the most demanding electronic, industrial or telecommunications applications.

For more extreme climatic conditions or applications requiring total sealing of the enclosure from the environment, Kooltronic offers two series of CU/CUR ***Integrity Panel Mounted Air Conditioners*** that maintain NEMA 4 or 4X Enclosure ratings.

For moderate weather conditions not requiring conformance to the high standards of this ***Intrepid*** series, Weather Protection Kits are available for virtually all ***Panel-Mounted Air Conditioners***.

## STANDARD FEATURES

---

**CLOSED-LOOP COOLING:** The enclosure interior airflow system is isolated from the ambient airflow or waterflow system. No ambient air can invade the cool, dehumidified sensitive component compartment.

**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.

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

**REFRIGERANT:** Low Ozone Depleting Potential (ODP) R22 Refrigerant is used in all Intrepid 24-30K BTU/H Air Conditioners.

**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.

**CONDENSATE DISPOSAL:** Condensate drain fitting and hose are included.

**POWER CORD:** All models have six foot [1.8m] SJT-type 3-wire power cords. Those rated at more than 16.0 Amps or less are supplied with appropriate plugs. Those rated at more than 16.0 Amps are supplied without plugs, for direct wiring to power source. For these, junction box connections, enabling UL Listed status where applicable, can be supplied at added cost.

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

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

**GASKETING:** All units are fully gasketed for tight, leakproof installation in compliance with the NEMA 3R Enclosure Rating.

**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.

**INSTALLATION:** Detailed Installation and Operator's Manual, with drawings, mounting plan and spare parts list is included with each unit.

**UL/CUL RECOGNIZED:** All Intrepid 8-12K BTU Series models are ***UL/CUL Recognized*** and are available as ***Listed*** at added cost.

## ACCESSORIES AND OPTIONS\*

---

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

**COOLING EFFECT DETECTOR:** 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.

**ENCLOSURE HEATER:** 120V or 240V fin strip heater, installed singly or ganged, used to maintain desired internal enclosure temperature, under cold operating conditions.

Single Heater, append letter "F" to Part No.

Double Heater, append letter "G" 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 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.

### **POLYESTER EXTERIOR POWDER PAINT\*\***

**SHORT CYCLE PROTECTOR:** Protects the compressor from possible damage due to harmful short cycling, by initiating an "off" period before resumption of normal operation. Generally air conditioners require several minutes off for compressor protection after power interruptions of any type. These power interruptions can include power failures, opening of interlocked access doors, and cases where a thermostat activates the compressor in less than a few minutes. This option is particularly recommended for applications where frequent, brief power failures occur, interlocked cabinet doors are utilized, or where the cabinet internal loads fluctuate across a wide range. Append letter "Y" to Part No.

### **SPECIAL MATERIALS OR FINISHES\*\***

#### **SPECIAL MOTORS, LINE CORDS OR CONNECTORS\*\***

**STAINLESS STEEL CABINET:** 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)

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

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

**FILTERS FOR REPLACEMENT:** 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. 20001F (19.63" x 15.63" x 0.88" [498mm x 397mm x 22mm])

**\*Contact KOOLTRONIC for information.**