

## TECHNICAL DATA

| Model       | Normally In Stock | UL/CUL               |        | BTU/H Rating | 95/95 Rating | Ambient Temp. |    |      |         | Approx. Running Amps | Weight lbs kg |        |
|-------------|-------------------|----------------------|--------|--------------|--------------|---------------|----|------|---------|----------------------|---------------|--------|
|             |                   | Listed or Recognized | Rating |              |              | °F            | °C | Max. | Min.    |                      |               | Max.   |
| KA4C7DP43L  | Yes               | Listed               | 7000   | 5500         | 131          | -20           | 55 | -29  | 115/100 | 60/50                | 13.8          | 125 57 |
| K2A4C7DP43L | Yes               | Listed               | 7000   | 5500         | 131          | -20           | 55 | -29  | 230/200 | 60/50                | 6.7/6.6       | 125 57 |

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

## STANDARD FEATURES

- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- Condenser Impeller Speed Controller
- EMI/RFI Suppressor
- Epoxy-Coated Condenser Coils
- Exclusive M/SEAL Mounting System
- Heavy-duty Steel Shell
- Low Temperature Control Thermostat
- Mounts Internally or Externally
- NEMA 12 & 3R Ratings Maintained (UL50)
- Six-Foot [1.8m] (minimum) SJT 3-Wire Power Cord
- Textured Baked Power Finish
- UL/CUL Listed

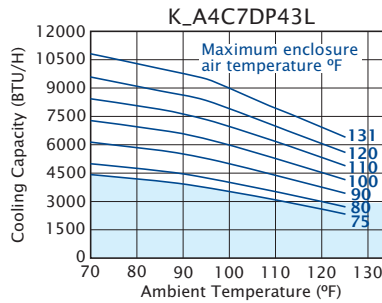
## ACCESSORIES AND OPTIONS

- Cooling Effect Detector
- Enclosure Heater
- Filter (for external mount only)
- Filter Recoating Adhesive
- Internal Corrosion Protection
- Lead-Lag Controller
- Other voltages and frequencies
- Remote Thermostat Relay
- Replacement Filters (for external mount only)
- Short-Cycle Protector
- Special materials or finishes
- Special motors, line cords or connectors
- Stainless Steel Shell

**NEMA**  
12 & 3R  
MAINTAINED

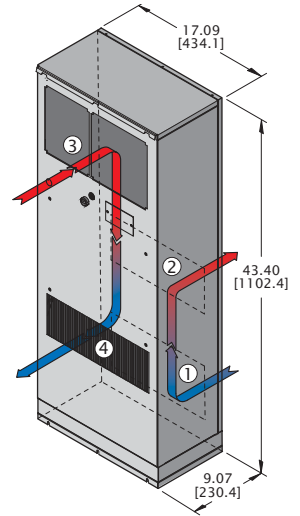


## PERFORMANCE



Operation within shaded area not recommended.

- CONDENSER AIR INLET (Ambient Air In) (3 sides)
- CONDENSER OUTLET (Warm Ambient Air Out)
- WARM AIR RETURN FROM ENCLOSURE
- COOL AIR OUTLET TO ENCLOSURE



## DRAWINGS

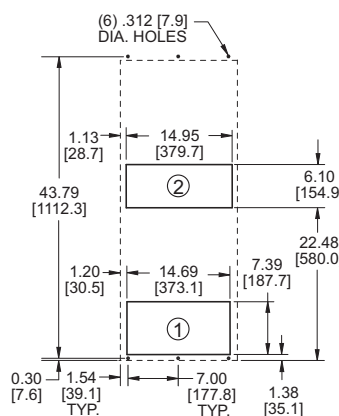
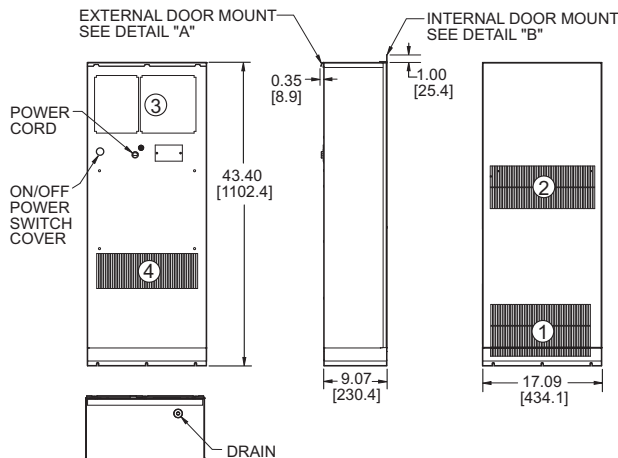
Dimensions, inches [mm], are for reference only and are subject to change.

FOR EXTERNAL DOOR MOUNT:  
MOUNT PIVOT BAR ASSEMBLY  
ONTO OUTSIDE OF ENCLOSURE  
DOOR

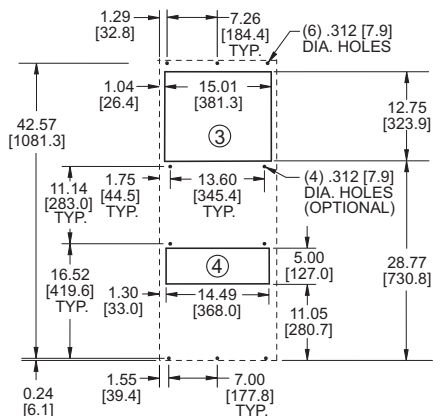


PIVOT BAR  
TO BE INSTALLED ON  
CUSTOMER'S ENCLOSURE

FOR INTERNAL DOOR MOUNT:  
INSTALL MOUNTING BRACKET  
USING EXISTING HARDWARE



INTERNAL MOUNTING PLAN



EXTERNAL MOUNTING PLAN

dp43.qxd 4/20/07

## DESCRIPTION

The **Profile Series** Air Conditioners are designed specifically for cooling electronic enclosures and can be used for both indoor and outdoor applications. Engineered to be mounted either outside or inside of an enclosure, the **Profile Series** Air Conditioners are the first Kooltronic models to offer this degree of flexibility.

The narrow depth of the **Profile Series** allows the option of internal mounting, making the units tamper-proof. The durability of the units makes them a tamper-resistant choice for external applications. Combined with a NEMA 12 & 3R Rating, with all models UL/CUL Listed, the **Profile Series** is an excellent choice for telecommunications or other outdoor cabinet applications.

## STANDARD FEATURES

**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.

**MOUNTS INTERNALLY OR EXTERNALLY:** The **Profile Series** Air Conditioners have been engineered to be mounted either outside or inside of an enclosure, offering an unprecedented degree of flexibility. Air conditioners are traditionally mounted on the outside of an enclosure because space inside an enclosure is at a premium. The dimensions of the **Profile Series** make the option of internal mounting a reality, which allows the unit to fit into spaces previously too small for an air conditioner. With such a narrow depth, the **Profile Series** is the thinnest line of indoor/outdoor air conditioners Kooltronic has ever developed.

**TEXTURED BAKED POWDER FINISH:** Durable, baked-on textured beige powder finish is standard. Other finishes are available.

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

**REFRIGERANT:** CFC-free R134a Refrigerant is used in the **Profile Series DP43** Air Conditioners.

**EMI/RFI SUPPRESSOR:** EMI/RFI Suppressor minimizes transient line spikes during on/off cycling.

**HEAVY-DUTY STEEL ENCLOSURE:** Precision-engineered heavy gauge steel construction of all cabinets and blowers insures Air Conditioners will stand up under tough applications.

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

**CONDENSER IMPELLER SPEED CONTROLLER:** A speed control sensing bulb located in the condenser air outlet area switches the condenser impeller between minimum and maximum speed based on the ambient temperature. This reduces noise levels, fan cycling, compressor cycling and prevents the unit from freezing.

**POWER CORD:** All models have six foot [1.8m] SJT-type 3-wire power cords with appropriate plugs.

**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.

**UL/CUL LISTED:** The **Profile Series DP43** is UL/CUL Listed.

## ACCESSORIES AND 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.

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

**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. (Filters for external mount only).

**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.

### Other voltages and frequencies\*

**REPLACEMENT FILTER:** Filter consisting of a multi-layer grid of sturdy corrugated aluminum, securely held in a one-piece aluminum frame. The DP43 optional filter Part No. 8001F (8.00" x 16.00" x 0.38" [203.2mm x 406.4mm x 9.7mm]) (Filters for external mount only).

**SHORT CYCLE PROTECTOR:** Protects the compressor from possible damage due to harmful short cycling, by initiating an "off" period before resumption of normal operation. This option is particularly recommended for applications where interlocked cabinet doors are utilized, where the cabinet internal loads fluctuate across a wide range or ambient air temperatures vary significantly throughout the day.

### Special materials or finishes\*

### Special motors, line cords or connectors\*

\*Contact KOOLTRONIC for more information.



A mounting bracket with existing hardware is used when the **Profile Series** Air Conditioners are mounted internally.



KOOLTRONIC'S exclusive **M/SEAL** mounting system is standard on the **Profile Series** Air Conditioners. A pivot bar is used when the unit is mounted externally.



The slim depth of the **Profile Series** allows the air conditioners to be mounted internally, making them tamper-proof.