

PROFILE SERIES DP52 480 VOLT AIR-COOLED AIR CONDITIONERS

Products in red are legacy products. Legacy products are no longer in normal production. Consult factory for availability.
Recommended replacement: See *Guardian/GuardianX* or *SlimKool Series*.

Model	Normally In Stock	UL/CUL Listed or Recognized	BTU/H Rating	95/95 Rating	Ambient Temp.			Volts	Hz	* Running Amps	Approx. Weight		
					°F						lbs	kg	
					Max.	Min.	Max.						
K3A4C7DP52L	Yes	Listed	7000	6300	131	0	55	-18	480	60	3.0	160	72
K3A4C9DP52L	Yes	Listed	9000	8100	131	0	55	-18	480	60	4.0	164	75

NEMA TYPE 12 & 3R MAINTAINED



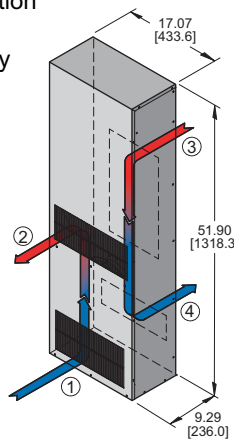
* Rating shown is for operation at maximum ambient temperature.

STANDARD FEATURES

- Baked Powder Finish
- Built-in Condensate Evaporator
- CFC-Free Refrigerant
- Closed-Loop Cooling
- Condenser Impeller Speed Controller
- Epoxy-Coated Condenser Coil
- External junction box for permanent wiring connections
- Heavy-duty Steel Shell
- Low Temperature Control Thermostat
- NEMA 12 & 3R Ratings Maintained (UL50)
- Phase Sequence/Phase Loss Detector/Under Voltage Monitor
- UL/CUL Listed

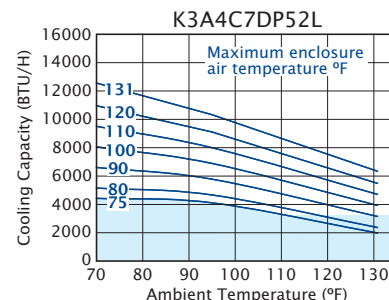
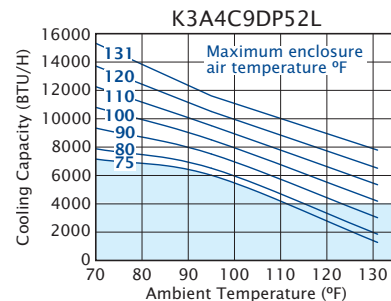
ACCESSORIES AND OPTIONS

- Compressor Short Cycle Protector
- Enclosure Heater
- Filter
- Filter Recoating Adhesive
- Internal Corrosion Protection
- Lead-Lag Controller
- Remote Thermostat Relay
- Replacement Filters
- Special paint finishes
- Stainless Steel Shell
- Temperature Alarm



- 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

PERFORMANCE



Operation within shaded areas not recommended.

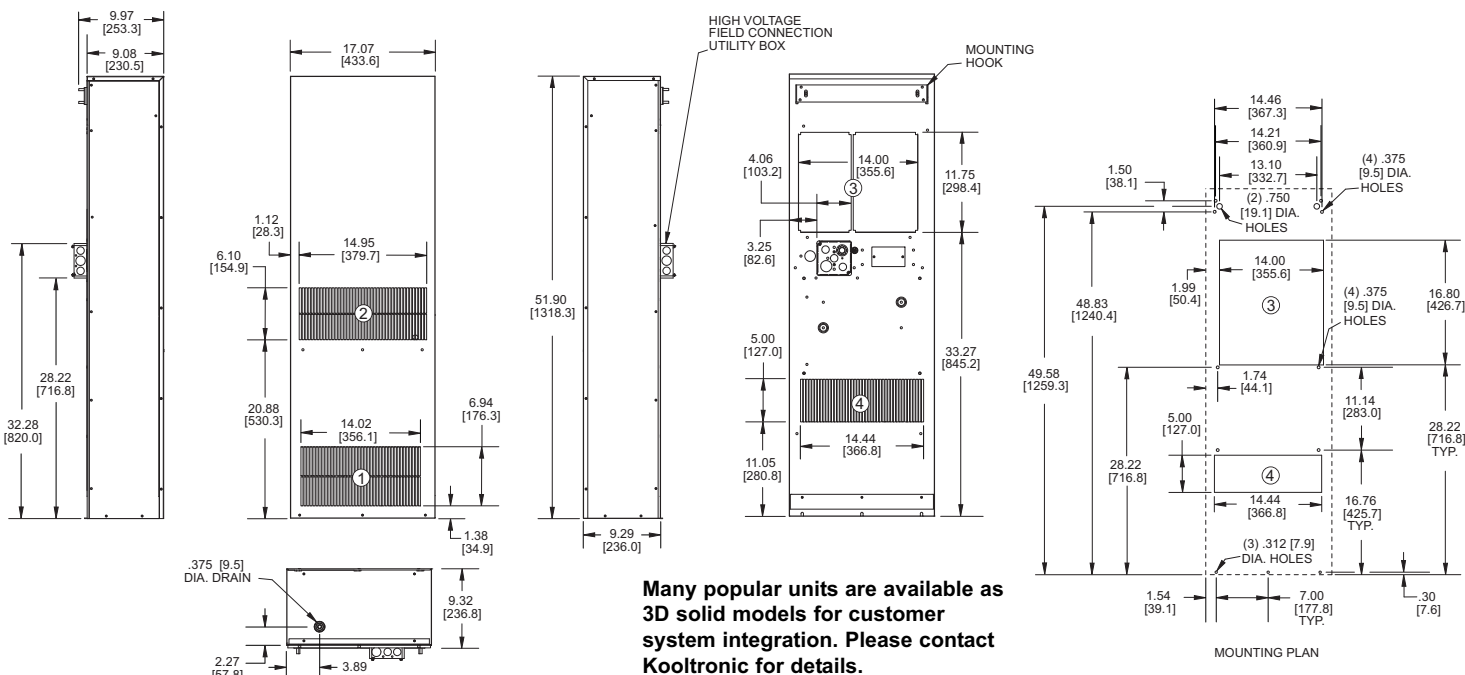
Find additional information on this model at kooltronic.com, or use the Technical Documents QR code below.

Technical Documents



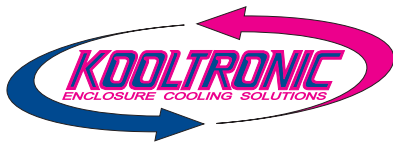
DRAWINGS

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



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

dp52.qxd 6/26/14



PROFILE SERIES DP52 480 VOLT AIR-COOLED AIR CONDITIONERS

DESCRIPTION

The **Profile 480 Volt** Indoor/Outdoor Air Conditioners are designed specifically to operate under some of the most demanding industrial applications. The components used in these models have been specially designed and tested to maintain cooling efficiency in temperature controlled enclosures in bottling plants, the automotive industry and other commercial/manufacturing applications.

With Epoxy-coated condenser coils and tubing, the closed-loop cooling system of the **Profile 480 Volt Series** offers added security by providing an operating environment safe from harsh ambient conditions.

The features engineered into all of the **Profile 480 Volt Series** models make them a tamper-resistant choice for external applications. Combined with a NEMA 12 & 3R Rating, with all models UL/CUL Listed, the **Profile 480 Volt Series** is an excellent choice for telecommunications or other outdoor cabinet applications.

STANDARD FEATURES

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

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.

CONDENSER IMPELLER SPEED CONTROLLER: A solid state sensor reacting to the condenser coil temperature modulates the condenser impeller between minimum and maximum speed based on the coil temperature. This reduces noise levels, fan cycling, compressor cycling and prevents the unit from freezing.

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

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

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

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

MOUNTS EXTERNALLY: The **Profile 480 Volt Series** Air Conditioners have been engineered to be mounted outside of an enclosure. The **Profile Series** is the thinnest line of indoor/outdoor air conditioners Kooltronic has ever developed.

POWER: 480-Volt.

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 the **Profile 480 Volt Series DP52** Air Conditioners.

UL/CUL LISTED: The **Profile 480 Volt Series DP52** is UL/CUL Listed.

ACCESSORIES AND OPTIONS*

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

ENCLOSURE HEATER: Fin strip heater, installed singly, used to maintain 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.

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.

REPLACEMENT FILTER: Filter consisting of a multi-layer grid of sturdy corrugated aluminum, securely held in a one-piece aluminum frame.

The DP52 480 Volt optional filter Part No. 8001F (8.00" x 16.00" x 0.38" [203.2mm x 406.4mm x 9.7mm])

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.

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 normally closed operation.

Other voltages and frequencies*

Special materials or finishes*

*Contact KOOLTRONIC for more information.