



Image for Illustration purposes only

DBK A200 Thermoelectric Cooler

DBK SERIES AIR-TO-AIR THERMOELECTRIC COOLERS

The DBK A200 is a 200W air to air thermoelectric cooler, employing forced air convection provided by IP54 axial fans.

It forms part of the DBK standard range which provides assemblies from 60W to 200W.

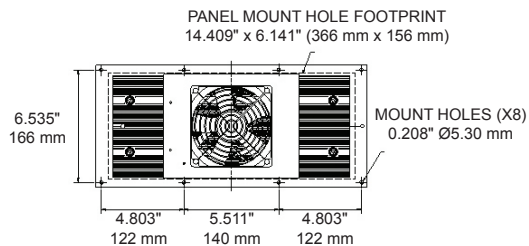
Custom designs are available by request including Direct and Liquid cooling applications.

FEATURES

- Compact Design
- DC Operation
- Reliable solid-state construction
- ETL recognized and RoHS compliant

Electronic Control Systems are available to complement the DBK range.

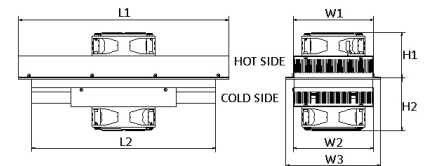
Mounting Dimensions



Specifications

Rated Cooling Power	200 Watts
Typical Current	12 Amps (measured after 5 mins @68°F)
Nominal Voltage	24 Vdc (48 Vdc available)
Operating Temperature	14 to 122 °F / -10 to 50 °C
Cold Side Airflow @zero static pressure	107 cfm
Hot Side Airflow @zero static pressure	135 cfm
Fan Life L10 @104°F	65,000 hrs
Weight (approx.)	15.8 lb (7.2 kg)
Standard Lead Length	23.62" (600 mm) (options available)
Length - L1 / L2	15.75" / 13.78" (400 mm / 350 mm)
Width - W1 / W2 / W3	6.02"/6.02"/7.09" (153 mm/153 mm/180 mm)
Height - H1 / H2	3.39" / 3.94" (86 mm / 100 mm)

Overall Dimensions



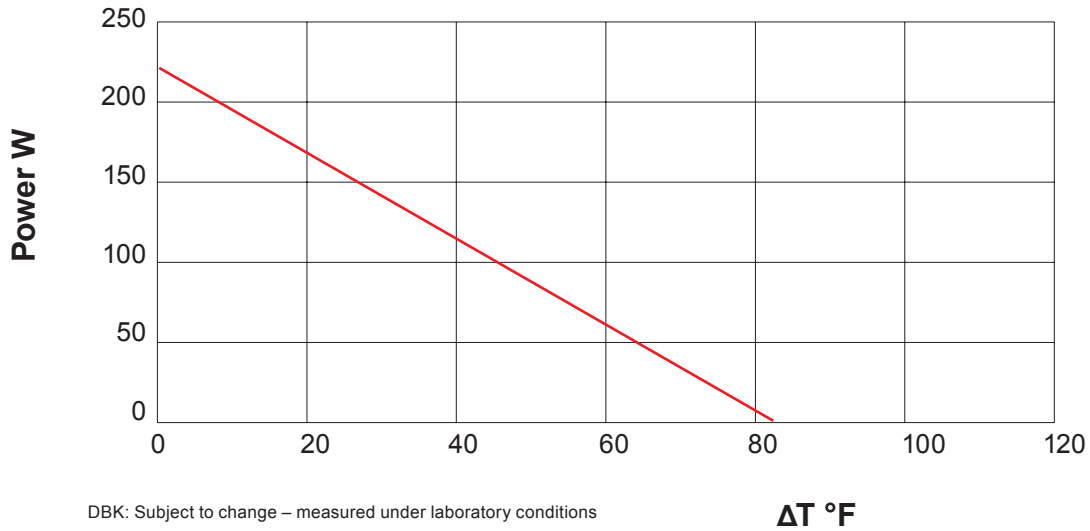
Typical Applications

- Control Panels/Outdoor Enclosures
- Analytical/Medical Instrumentation
- Industrial Instrumentation
- Food and Beverage Cooling
- Telecom Cabinets

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Measured Performance Data

DBK A200 Cooler Power vs ΔT



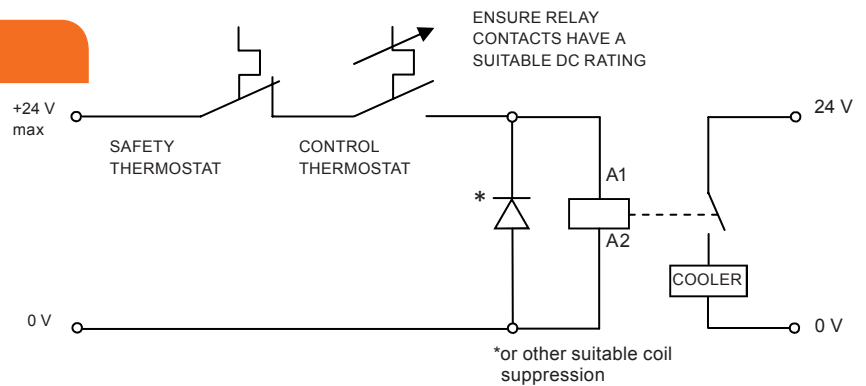
Wiring Information

In normal operation to provide cooling, the unit should be wired up as below. If required the unit can be operated with reverse polarity across the Cooler only to provide a heat source. The polarity supplied to the fans should not be changed.

Wire Color	Function
Red	Cooler (16awg) and Fans (24awg) 24V +ve supply
Black	Cooler (16awg) and Fans (24awg) 24V -ve supply
Orange	HOT Side Safety Thermostat for overheat control
Blue	COLD Side Safety Thermostat for overheat control - only required when unit is operated in reverse polarity for use as a heater.

Typical Circuit Diagram

A typical circuit diagram is shown to indicate use of a control thermostat such as DBK FGT101 & FGT201 to maintain the enclosure temperature within the required conditions.



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