



AHP-590CP

Cold/Hot Plate

Air Cooled

General Purpose 24 VDC
High Efficiency
145 Watts

FEATURES

- Flat aluminum plate (8" x 4.70") [203 x 119]
- Standard 6-32X.25 UNC threads
- Compact (only 10" x 5.76" x 4.45") [254 x 146 x 113]
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fan
- Environmentally safe
- No compressor, fluorocarbons or filters
- Cools and heats via reverse polarity
- Virtually maintenance-free operation
- Pivot clean
- Weight 7 LBS. (3.2 KG)



INCLUDES

- Mounting gasket
- Mounting hardware
- Power input leads

OPTIONS

- Custom cold plate threads and/or inserts
- Flat plate without holes or threads
- Stainless steel exterior fan shroud and housing
- Custom fans: Quiet, Speed Control, Waterproof
- Use with TC-3400, TC-3500 and TC-4600 controls

PERFORMANCE RATINGS

Cooling	145 WATTS
Cooling COP	1
Heating	> 145 Watts

SPECIFICATIONS

MODEL	PART NUMBER	NOTES	PERFORMANCE RATING WATTS	VOLTAGE VDC	CURRENT AMPS.	TEMP. CONTROL	OPERATING AMBIENT °C
AHP-590CPHC	1-G095-1-001	Heat/Cool	145	24	6	None	-10/+60

Heat function via reverse polarity (requires controller with H-Bridge)

AHP-590CP

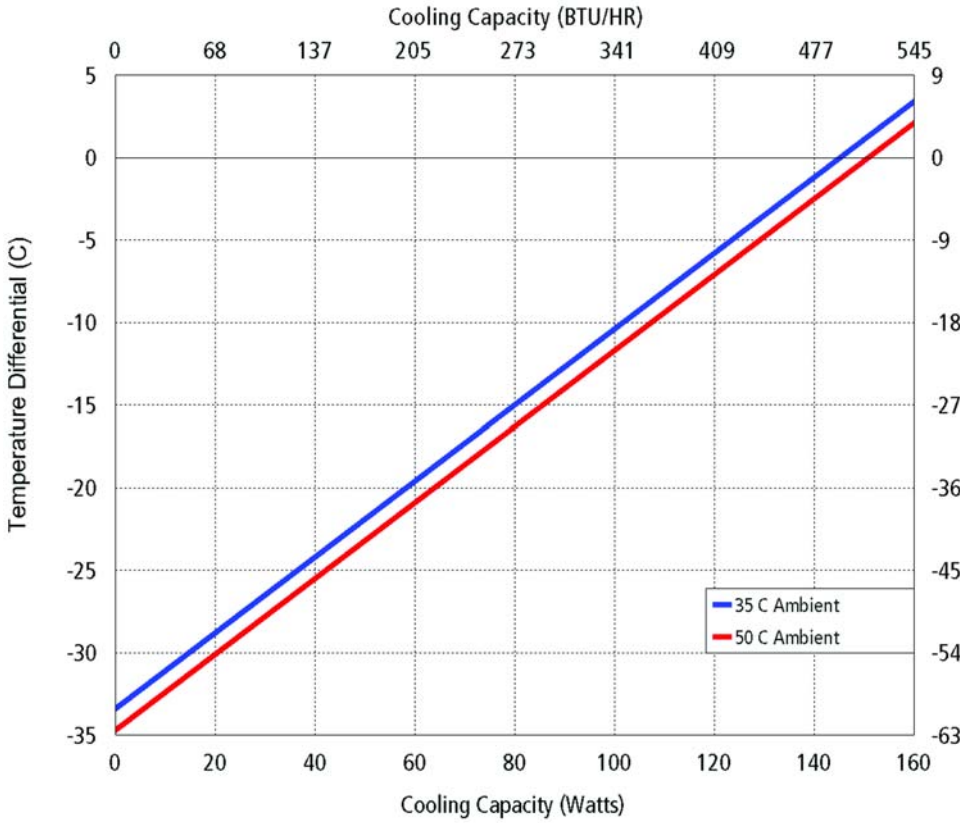
ENVIRONMENTS

Bench Top, Factory, Industrial, OEM

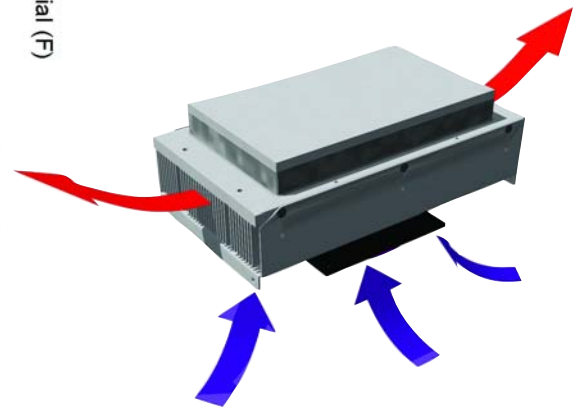
COOLING CAPACITY

145 Watts @ 0 °C ΔT

PERFORMANCE CURVE



Equation of Line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Cold Plate	$y = 0.23x - 33.4$	$y = 0.23x - 34.7$



Air Flow Pattern

DIMENSIONS



Dimension does not include hardware and sealant
 Hardware and gasket included but not shown
 Dimensions: Inches [Millimeters]