



AHP-451CP

Cold/Hot Plate

Air Cooled
Bench Top

General Purpose 120 VAC or 240 VAC
High Efficiency
117 Watts

FEATURES

- Flat aluminum plate (8" x 4.70") [203 x 119]
- Standard 6-32X.25 UNC inserts
- Compact (only 10" x 5.84" x 6.72") [254 x 148 x 170]
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fan
- Environmentally safe
- No compressor, fluorocarbon or filters
- Heating via embedded resistive heaters
- Virtually maintenance-free operation
- Pivot clean feature
- Weighs less than 12 LBS. (5.5 KG)

INCLUDES

- Mounting gasket
- Mounting hardware
- Power cord

OPTIONS

- Custom cold plate threads and/or inserts
- Flat plate without holes or threads
- Quiet fan
- Use with external TC-3400 controller



PERFORMANCE RATINGS

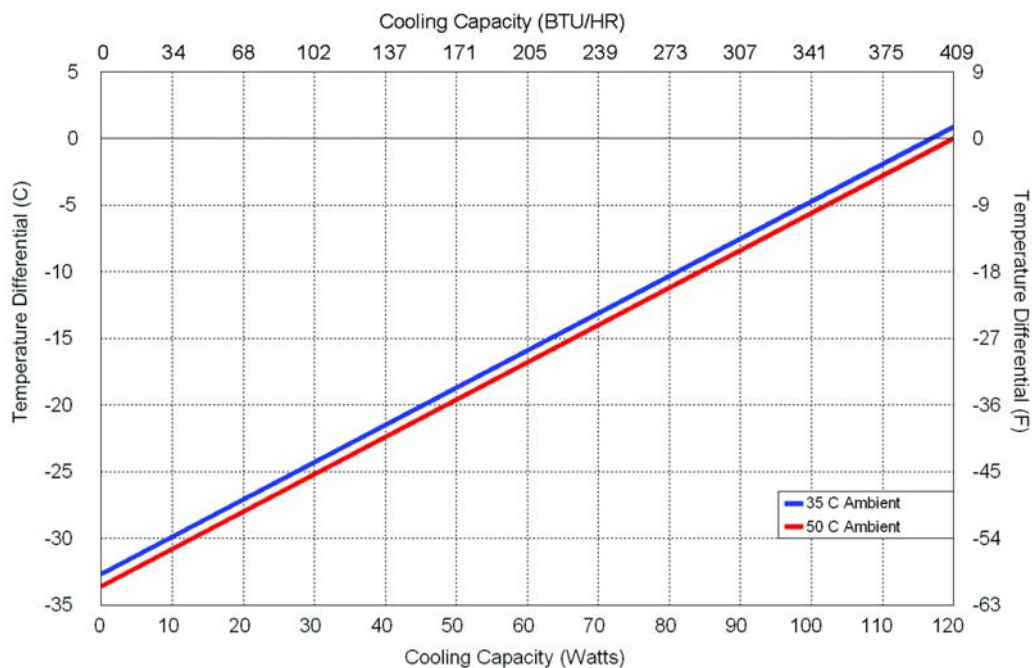
Cooling	117 WATTS
Cooling COP	0.76

SPECIFICATIONS

MODEL	PART NUMBER	NOTES	PERFORMANCE RATING WATTS	VOLTAGE VAC	CURRENT AMPS.	WEIGHT LBS. (KG)	TEMP. CONTROL *	OPERATING AMBIENT °C
AHP-451CP	1-F090-0-000	Cool only	117	120	1.3	12(5.2)	None	-15/+70
AHP-451CP	1-F050-0-000	Cool only	117	120	1.3	12(5.2)	EXT *	-15/+70
AHP-451CPHC	1-F050-1-000	Heat/Cool	117	120	1.3	12(5.2)	EXT *	-15/+70
AHP-452CP	1-F092-0-000	Cool only	117	240	.6	12(5.2)	None	-15/+70
AHP-452CP	1-F052-0-000	Cool only	117	240	.6	12(5.2)	EXT *	-15/+70
AHP-452CPHC	1-F052-1-000	Heat/Cool	117	240	.6	12(5.2)	EXT *	-15/+70

* Unit is set for 5-32 VDC external control signal, relay included

PERFORMANCE CURVE



Equation of Line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Cold Plate	$y = 0.28x - 32.7$	$y = 0.28x - 33.6$

Cold Plate- Air Cooled

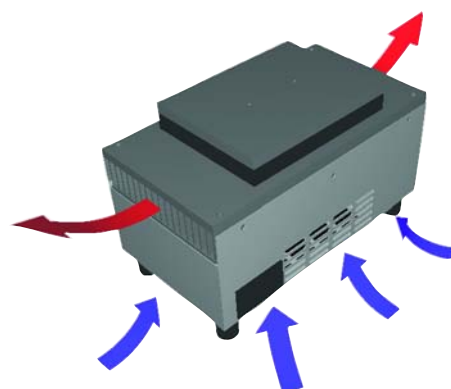
AHP-451CP

ENVIRONMENTS

Bench Top, Factory, Industrial, OEM

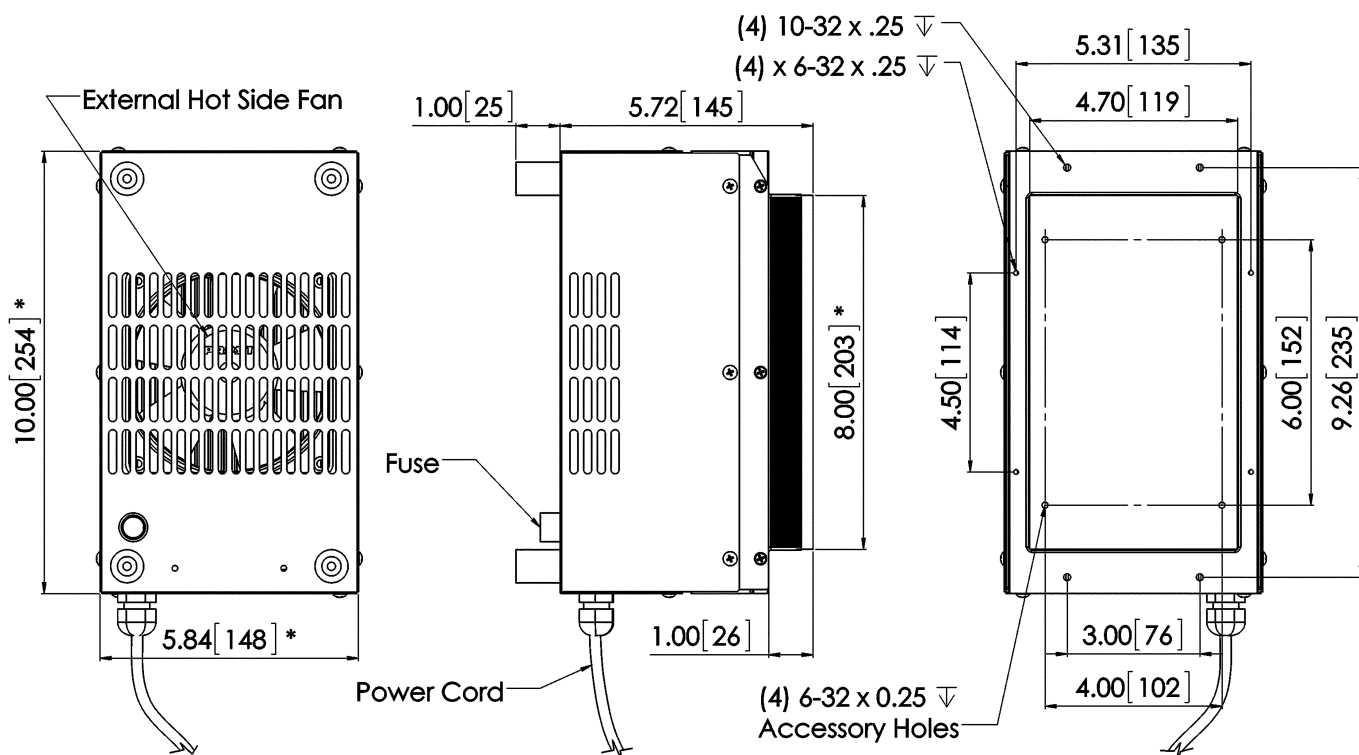
COOLING CAPACITY

117 Watts @ 0 °C ΔT



Air Flow Pattern

DIMENSIONS



* Dimension does not include hardware and sealant
Dimensions: Inches [Millimeters]