

# AHP-300CP AHP-150CP

Air Cooled

# Thermoelectric Cold Plate

General Purpose VDC Input

## FEATURES

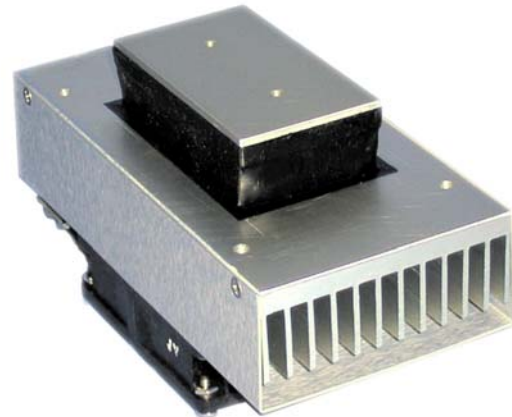
- Direct contact cooling as much as 56 °C below room temperature
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Mounts in any orientation
- Works with TC-3500



**AHP-300CP**

## INCLUDES

- Cold plate accessory tapped holes
- Machined surface
- Terminal strip for wire hook up



**AHP-150CP**

## SPECIFICATIONS AHP-300CP

MODEL	PART NUMBER	NOTES	PERFORMANCE RATING BTU/HR	VOLTAGE VDC	CURRENT AMPS.	WEIGHT LBS. (KG)	TEMP. CONTROL	OPERATING AMBIENT °C
AHP-300CP	1-7097-0-000	Cool only	290-330	12/24/48	12/6/3	6(2.7)	none	-10/+70
AHP-300CPHC	1-7094-1-000	Heat/Cool	290-330	12	12	6(2.7)	none	-10/+70
AHP-300CPHC	1-7095-1-000	Heat/Cool	290-330	24	6	6(2.7)	none	-10/+70
AHP-300CPHC	1-7097-1-001	Heat/Cool Rev. Pol.*	290-330	12/24/48	12/6/6	6(2.7)	none*	-10/+70

## SPECIFICATIONS AHP-150CP

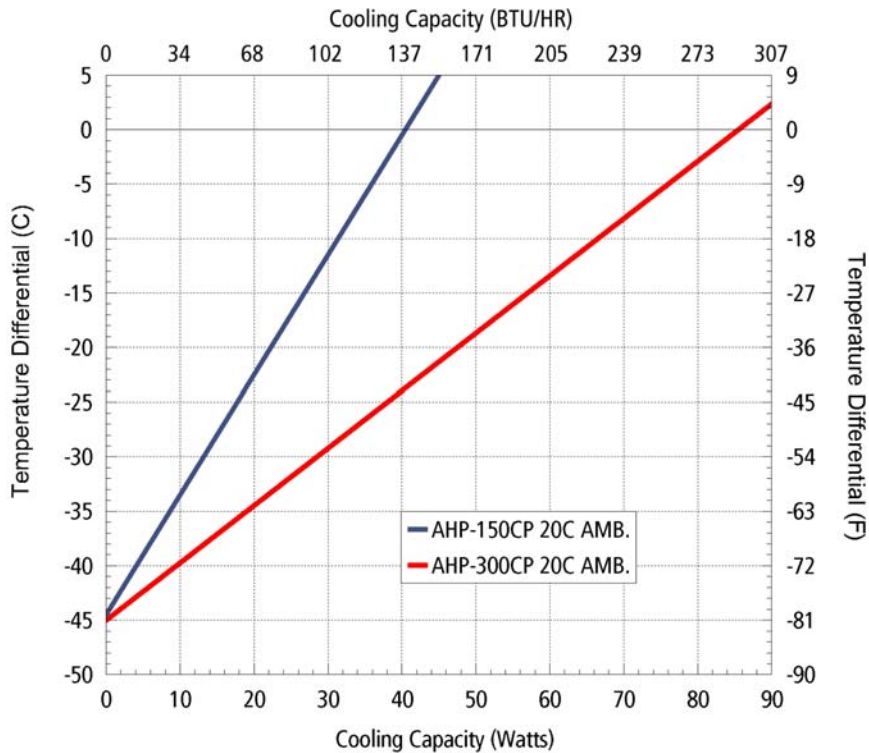
MODEL	PART NUMBER	NOTES	PERFORMANCE RATING BTU/HR	VOLTAGE VDC	CURRENT AMPS.	WEIGHT LBS. (KG)	TEMP. CONTROL	OPERATING AMBIENT °C
AHP-150CP	1-8098-0-000	Cool only	140-160	12/24	6/3	2.5(1.2)	None	-10/+70
AHP-150CPHC	1-8094-1-000	Heat/Cool	140-160	12	6	2.5(1.2)	None	-10/+70
AHP-150CPHC	1-8095-1-000	Heat/Cool	140-160	24	3	2.5(1.2)	None	-10/+70
AHP-150CPHC	1-8098-1-001	Heat/Cool Rev. Pol.*	140-160	12/24	6/3	2.5(1.2)	None*	-10/+70

Note: Options for temperature control, consult factory.

\* Reverse polarity unit can be used with external TC-3500 controller see P. 112

See also, "Power Supplies", P. 117

**PERFORMANCE CURVE**



**AHP-300CP**

**ENVIRONMENTS**

Bench Top, Laboratory, Industrial

**COOLING CAPACITY**

85 Watts @ 0 °C ΔT

**AHP-150CP**

**ENVIRONMENTS**

Bench Top, Laboratory, Industrial

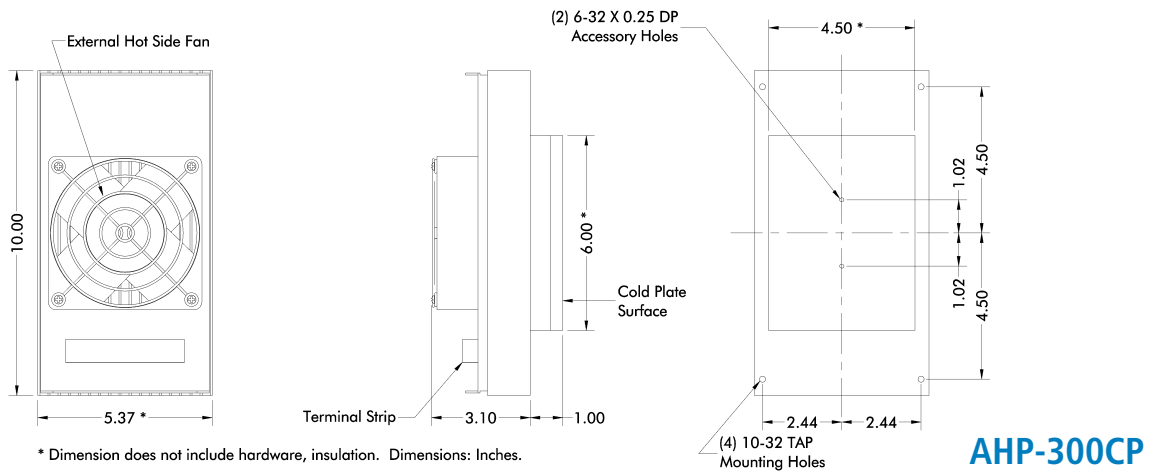
**COOLING CAPACITY**

40 Watts @ 0 °C ΔT

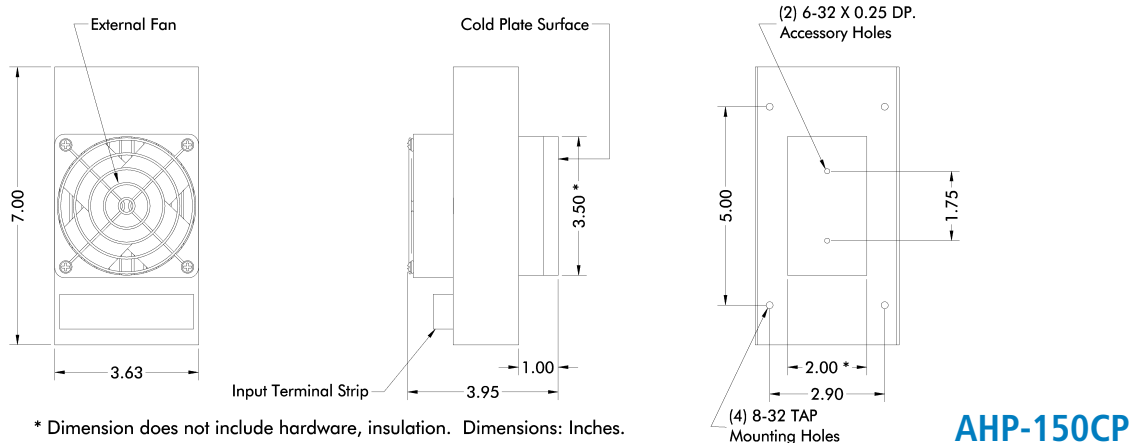
Equation of line:  $y = \Delta T(^{\circ}C)$   $x = \text{Capacity (Watts)}$

Ambient Temp	20°C	40°C	60°C
300CP Cold Plate	$y = .526x - 45.0$	$y = .526x - 48.0$	$y = .526x - 51.0$
150CP Cold Plate	$y = 1.1x - 44.5$	$y = 1.1x - 48$	$y = 1.1x - 51.5$

**DIMENSIONS**



**AHP-300CP**



**AHP-150CP**