Product Information Packet

Model AHP-401CPHC

Solid State Cold/Hot Plate

Set For Remote Temperature Control

Part #1-F050-1-001

Thank you for your purchase. Information has been enclosed regarding the installation, specifications, and wiring of your solid-state assembly. Please read and follow all instructions carefully before installation. Only qualified technicians should install this equipment.

If you have any questions regarding your equipment, please do not hesitate to call us at 773-342-4900, and we will be happy to assist you. We are open from 8:00 am-4:30 pm Central Time.

Included in this packet you will find:

Product Literature and Specifications

Assembly Drawing # SK150651

Wiring Drawing # SK170528

Installation Drawing # SK140710

Warranty Information



AHP-401CP

Cold/Hot Plate

Air Cooled Bench Top General Purpose 120 VAC & 240 VAC 75 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 heater
- 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 COP

75 WATTS 0.52

SPECIFICATIONS									
MODEL	PART NUMBER	NOTES	PERFORMANCE RATING WATTS	VOLTAGE VAC	CURRENT AMPS.	WEIGHT LBS. (KG)	TEMP. CONTROL *	OPERATING AMBIENT °C	
AHP-401CP	1-F090-0-001	Cool only	75	120	1.2	12(5.2)	None	-15/+70	
AHP-401CP	1-F050-0-001	Cool only	75	120	1.2	12(5.2)	EXT *	-15/+70	
AHP-401CPHC	1-F050-1-001	Heat/Cool	75	120	1.2	12(5.2)	EXT *	-15/+70	
AHP-402CP	1-F092-0-001	Cool only	75	240	.6	12(5.2)	None	-15/+70	
AHP-402CP	1-F052-0-001	Cool only	75	240	.6	12(5.2)	EXT *	-15/+70	
AHP-402CPHC	1-F052-1-001	Heat/Cool	75	240	.6	12(5.2)	EXT *	-15/+70	

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

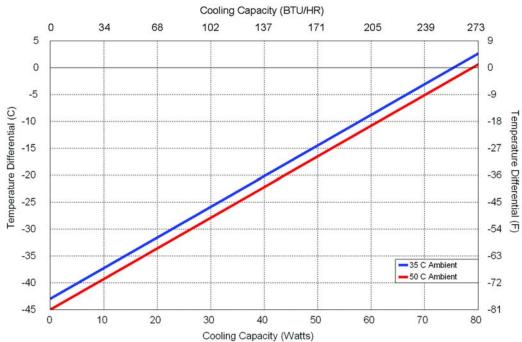
AHP-401CP

ENVIRONMENTS

Bench Top, Factory, Industrial, OEM

COOLING CAPACITY

75 Watts @ 0 °C Δ T



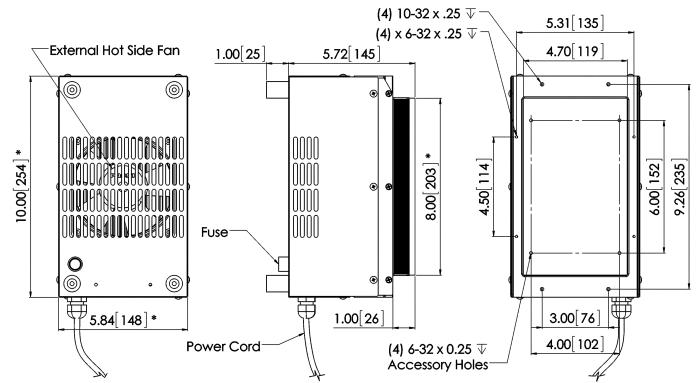
Equation of Line	e: $y=\Delta T(^{\circ}C)$ $x=$	x=Capacity (Watts)			
Ambient Temp	35°C	50°C			
Cold Plate	y=0.57x-43	3 y=0.57x-45			



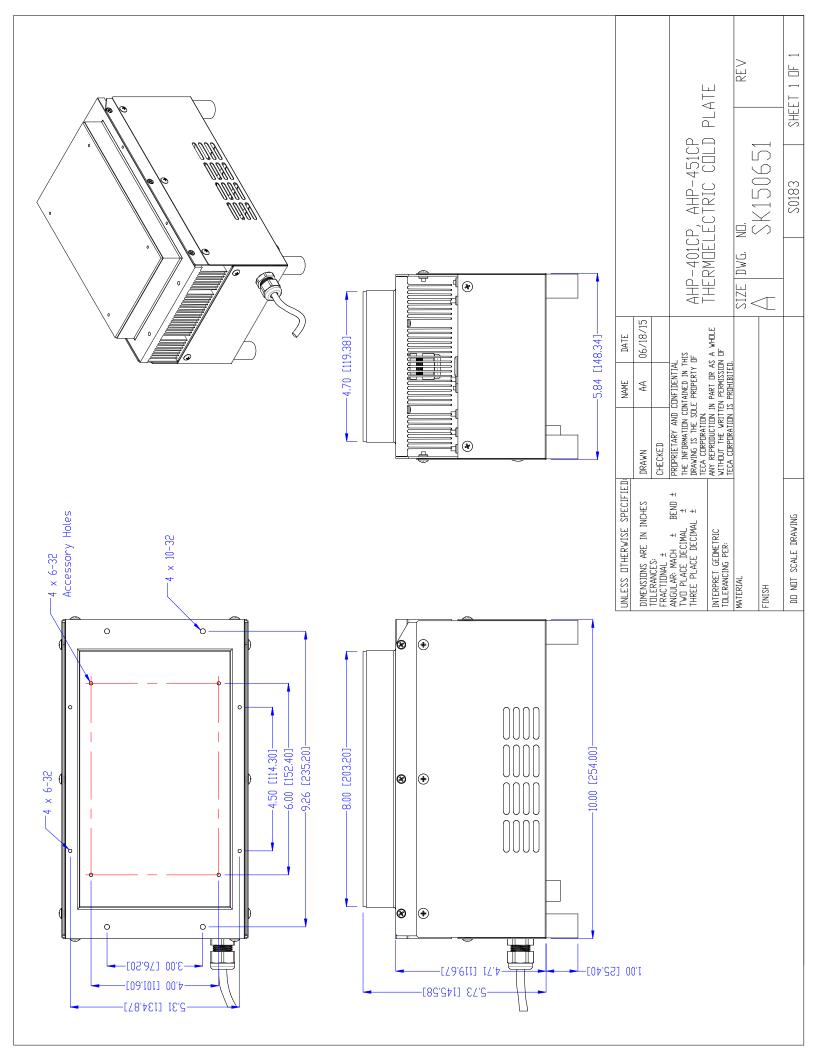
Air Flow Pattern

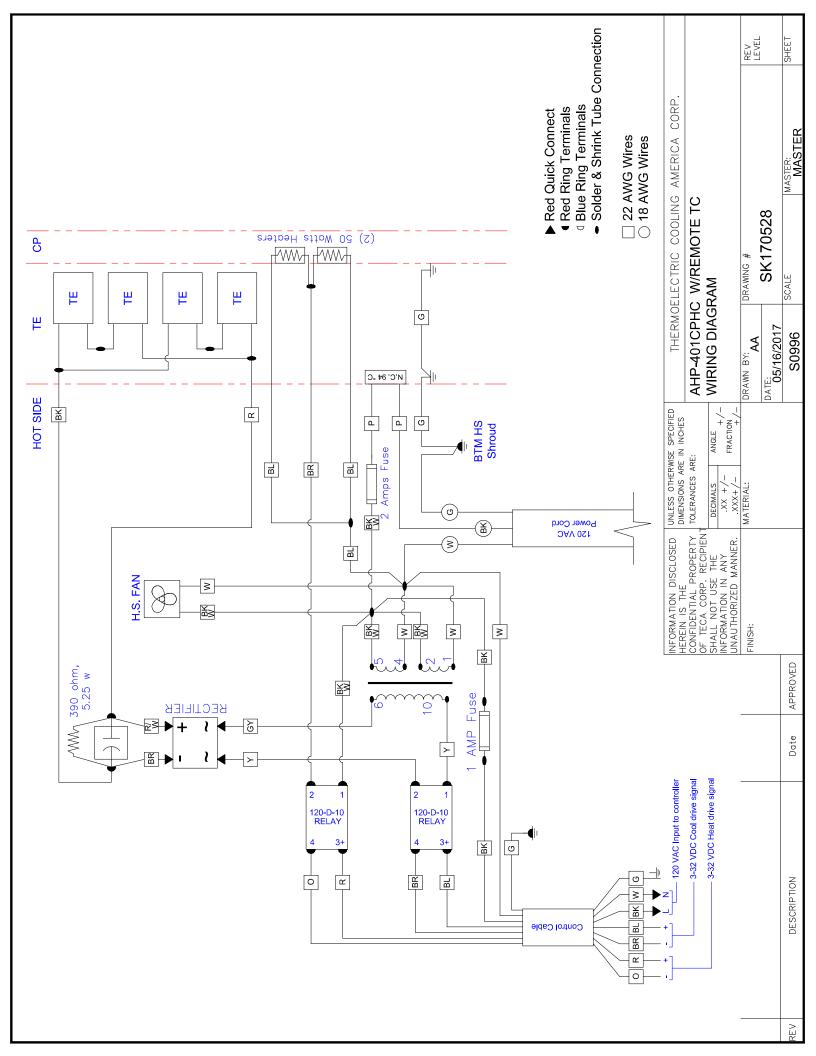
DIMENSIONS

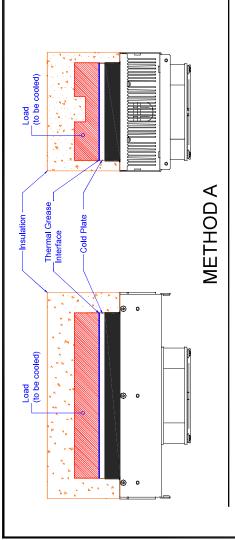
PERFORMANCE CURVE



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

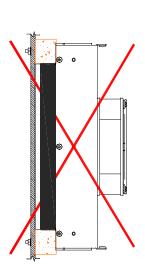


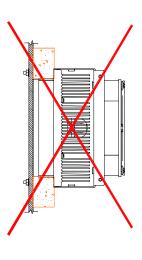




(to be cooled) Load Mounting Gasket Enclosure Wall -_Thermal Grease_ Interface -Insulation Cold Plate (to be cooled) ş ्व

METHOD B





Note: Do not use this method.	INFORMATION DISCLOSED U	>
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INSTALLATION INSTRUCTIONS

- 1- Choose Mounting Method (A or B).
- 2- Prepare mounting surface/component as indicated. Ideal component surface flatness is ±.001 T.I.R.
- grease (Dow type 340 or equivalent) on both thermal contact 3- Spread an even, approximately 10 MIL, layer of thermal surfaces (component and cold plate). A speedball rubber roller works well for this.
- 4- Install unit without sliding against mating surface, rotate slightly to "seat" them.
- 5- Fit insulation around cold plate surfaces as required.
- 6- If desired, caulk insulation to seal and secure insulation.
- 7- Connect power per appropriate wiring diagram.

					REV	SHEET			
THERMOELECTRIC COOLING AMERICA CORP. AHP-400C0, 500CP, 600CP SERIES INSTALLATION INSTRUCTIONS						MASTER:	SK140709		
DELECTRIC COOLI	INSTALLATION INSTRUCTIONS		DRAWING #	0,100	SK140710	SCALE			
	INSTALLATION			DRAWN BY:	ξ.	DATE: 07/03/2014	00000	D9306	
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APPROVED

Date

DESCRIPTION

LIMITED WARRANTY

In the event a defect in material or workmanship is discovered in any of TECA's products within one year after the date they are delivered to Buyer. and if: (a) TECA is notified of the defect in writing by certified mail within 14 days of the date of discovery; (b) TECA may then either, at its sole discretion, inspect the product at Buyer's location, or require that the product be made available at Buyer's expense at TECA's premises for TECA's inspection within 14 days of the date of notification; and (c) the products are defective and the defects result from faulty materials and/or workmanship and not in any way from accident, misuse, misapplication, mishandling, modification, or alteration by the Buyer or the shipper, then TECA shall, at its sole option, repair or exchange defective products free of charge to Buyer, or credit to buyer the price of the defective products. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE EXCLUDED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL TECA BE LIABLE FOR ANY CLAIM BASED UPON BREACH OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER DAMAGES WHETHER SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, LOST PROFITS, BUSINESS INTERRUPTION, OR LOSS OF BUSINESS OR CUSTOMER RELATIONSHIPS.

RETURNED GOODS, RESTOCKING CHARGES

In order to return merchandise for any reason (repair, replacement, or credit) a return authorization number must be issued by TECA. New merchandise may not be returned for credit beyond 60 days from shipment. Charges for incidental or other damages may also be made. All returned goods must be sent freight prepaid. A restocking charge of 15% will apply. On special equipment and custom modified equipment orders, additional incremental cancellation charges may be made.