

# Product Information Packet

## Model AHP-1200CP

Solid State Cold Plate

24 VDC, Without Temperature Control

Part #1-3095-0-000

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:

Installation Notes for Air Conditioners

Product Literature and Specifications

Assembly Drawing # SK100310

Wiring Drawing # SK190701

Installation Drawing # 1200-B-F56

Warranty Information



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# AHP-1200CP Cold Plate

Air Cooled  
Bench Top

General purpose 24 VDC input  
200 Watts

## FEATURES

- Direct contact cooling as much as 46 °C below room temperature
- Weighs only 19 lbs. (8.6 kg)
- Mount thru bench top or enclosure wall
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Mounts in any orientation



## INCLUDES

- Cold plate accessory tapped holes
- Cold plate mounting taps
- Rubber feet
- Power input leads

## SPECIFICATIONS

| MODEL        | PART NUMBER  | NOTES     | PERFORMANCE RATING | VOLTAGE VDC | CURRENT AMPS. | WEIGHT LBS. (KG) | TEMP. CONTROL * | OPERATING AMBIENT °C |
|--------------|--------------|-----------|--------------------|-------------|---------------|------------------|-----------------|----------------------|
| AHP-1200CP   | 1-3095-0-000 | Cool only | 830-950            | 24(16-28)   | 9.0           | 18(8.2)          | None            | -15/+70              |
| AHP-1200CP   | 1-3055-0-000 | Cool only | 830-950            | 24(16-28)   | 9.0           | 18(8.2)          | EXT *           | -15/+70              |
| AHP-1200CPHC | 1-3055-1-000 | Heat/Cool | 830-950            | 24(16-28)   | 9.0           | 19(8.6)          | EXT †           | -15/+70              |

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

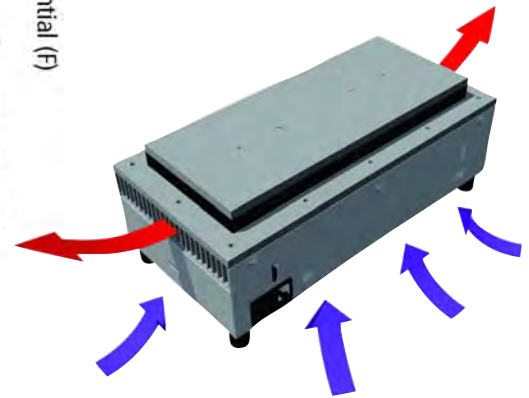
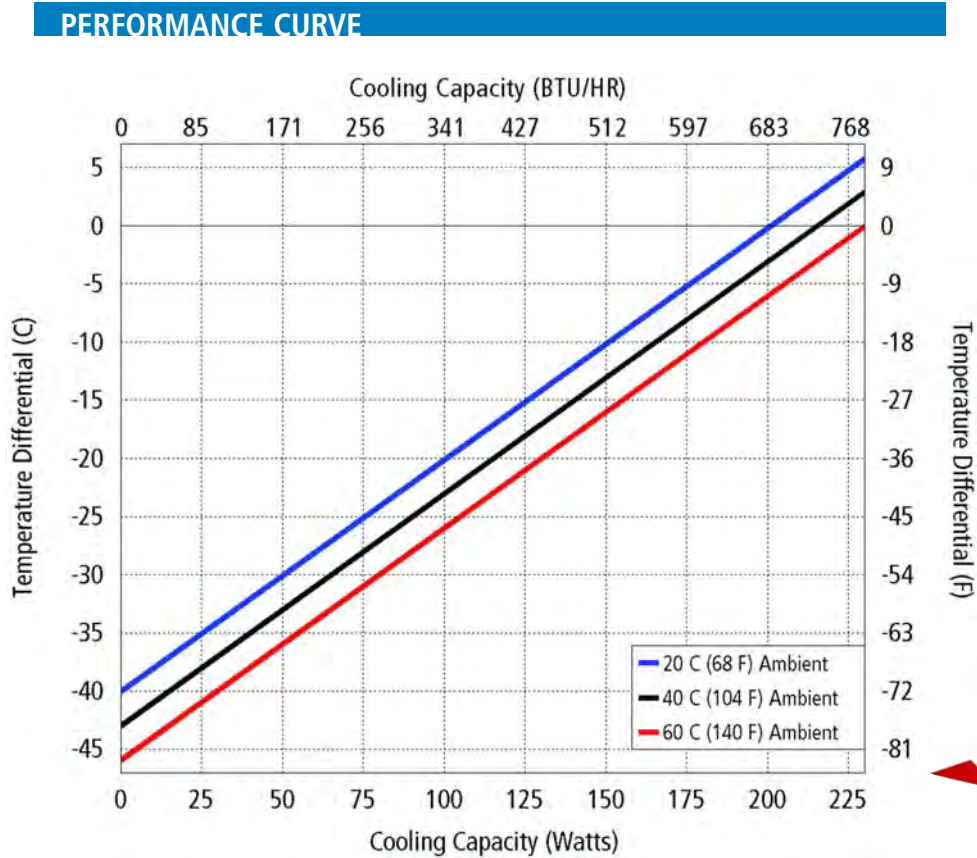
† Unit is set for 5-32 VDC external control signal, H-Bridge relay(s) included

**AHP-1200CP****ENVIRONMENTS**

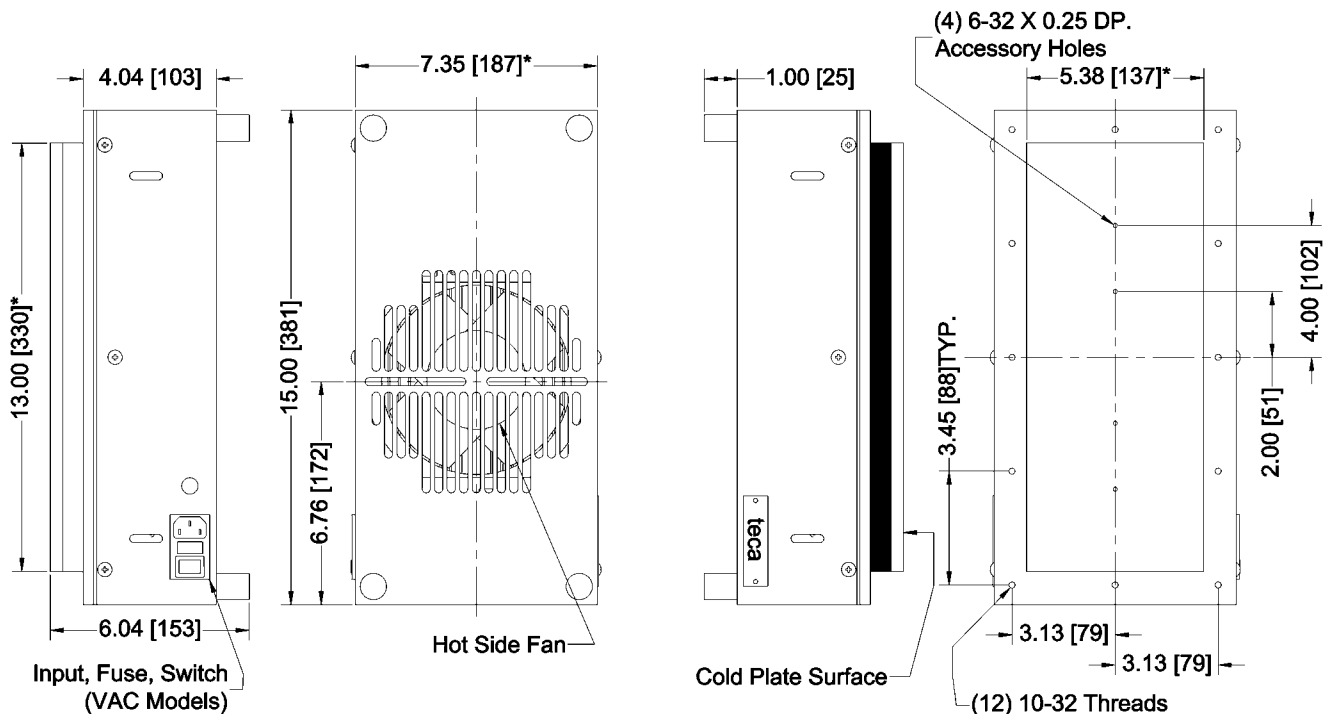
Bench top  
Factory  
Industrial/OEM

**COOLING CAPACITY**

200 Watts @ 0 °C ΔT



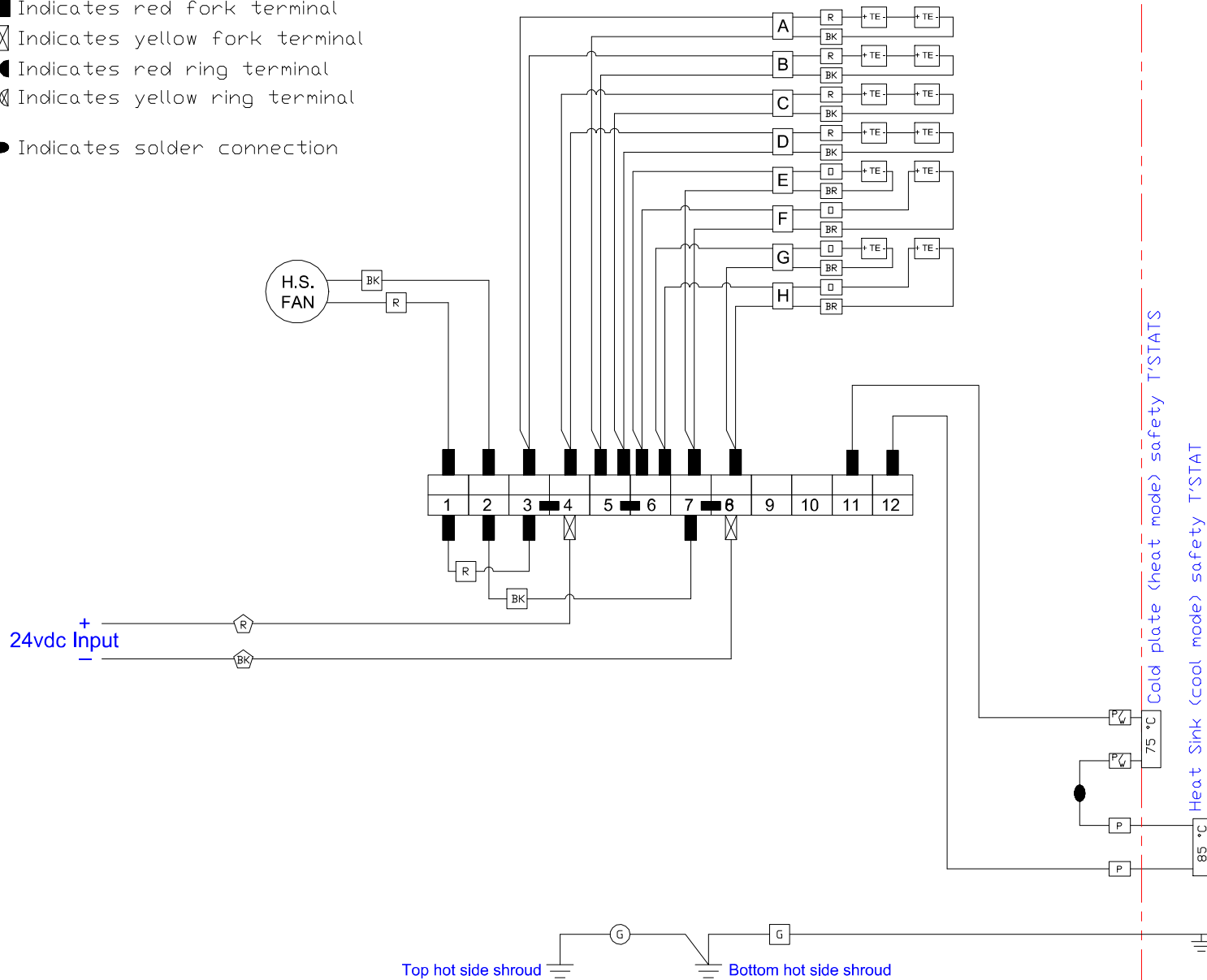
Ambient Air Path

**DIMENSIONS**

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

- ⬡ Indicates 12 AWG wire  
□ Indicates 22 AWG wire  
○ Indicates 18 AWG wire

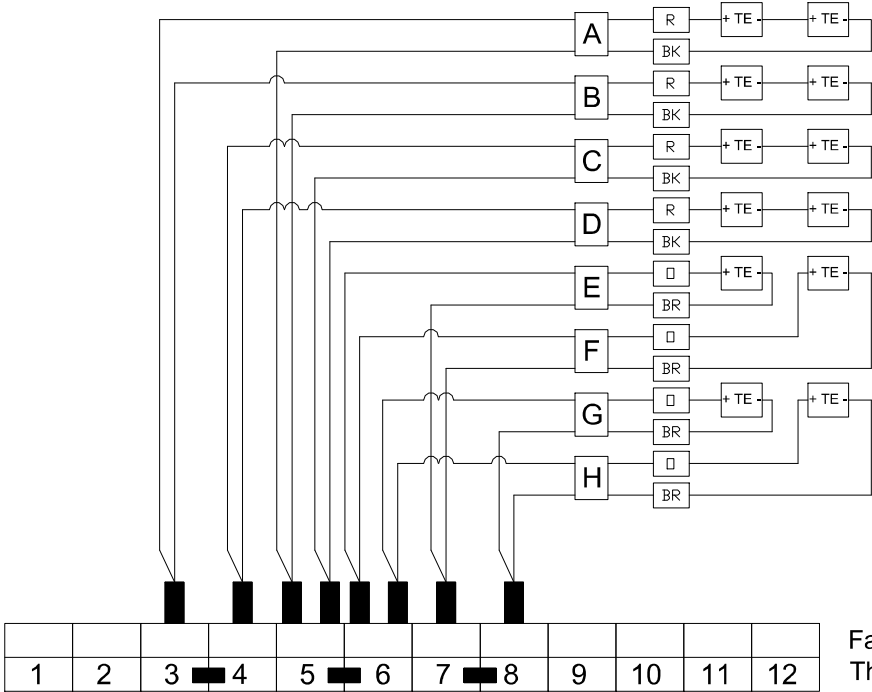
- Indicates red fork terminal  
⊠ Indicates yellow fork terminal  
● Indicates red ring terminal  
⊞ Indicates yellow ring terminal  
● Indicates solder connection



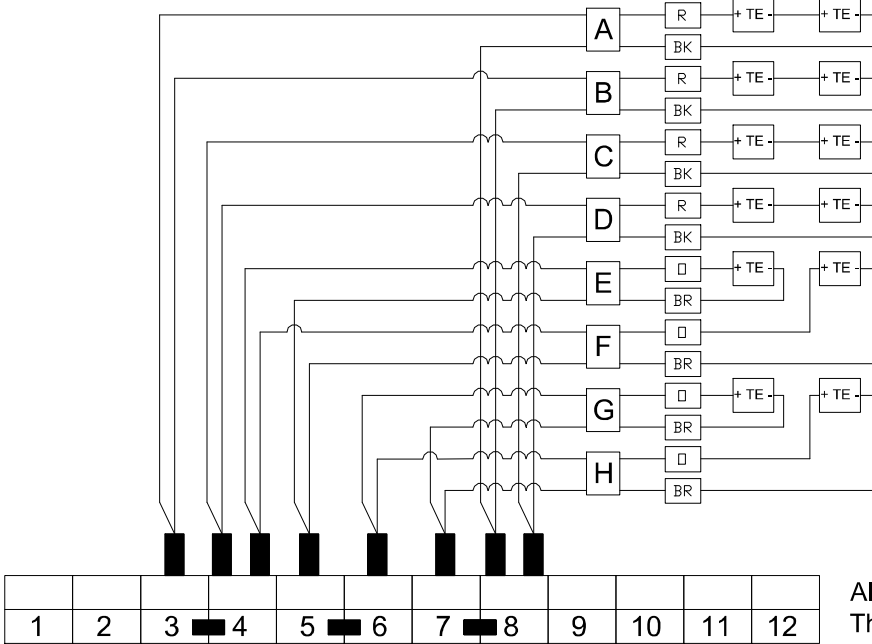
Factory wired for standard capacity (8 VDC/TE) Reference drawing # SK081010.

|   |           |   |                                 |   |  |              |
|---|-----------|---|---------------------------------|---|--|--------------|
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|   |           | DECIMALS<br>.XX +/—<br>.XXX +/—   | ANGLE<br>+/-<br>FRACTION<br>+/- | AHP-1200CP 24 VDC (NTC)<br>WIRING DIAGRAM |  |              |
| FINISH:   | MATERIAL: | DRAWN BY:<br>AA   |                                 | DRAWING #<br>SK190701                     |  | REV<br>LEVEL |
|   |           | DATE:<br>07/01/2019   |                                 | SCALE                                     |  | SHEET        |
|   |           | S1677   |                                 | MASTER:<br>MASTER                         |  |              |

| REV | DESCRIPTION | Date | APPROVED |
|-----|-------------|------|----------|
|     |             |      |          |

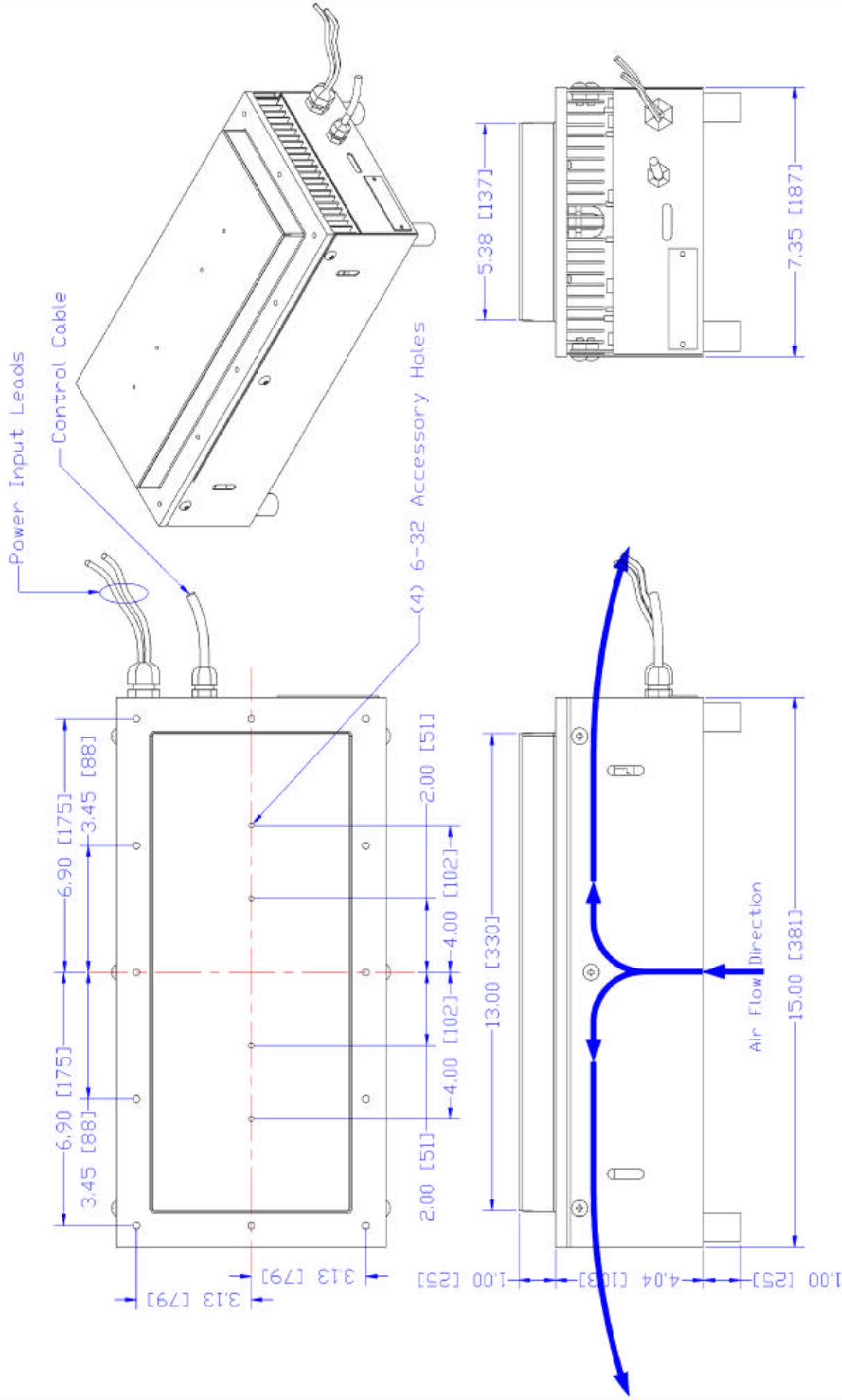


Factory (standard capacity) TE wiring  
Thermoelectrics wired for 8 VDC/TE.



Alternate (high capacity) TE wiring  
Thermoelectrics wired for 12 VDC/TE.

|   |   |                                 |  |                       |                              |
|---|---|---------------------------------|--|-----------------------|------------------------------|
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|   | DECIMALS<br>.XX +/-<br>.XXX +/-   | ANGLE<br>+/-<br>FRACTION<br>+/- | AHP-1200CP DC<br>STANDARD AND ALTERNATE<br>TE WIRING |                       |                              |
|   | FINISH:   | MATERIAL:                       | DRAWN BY:<br>AA                                      | DRAWING #<br>SK100233 | REV<br>LEVEL                 |
|   |   |                                 | DATE:<br>02/25/2010                                  | SCALE<br>D7751        | MASTER:<br>SK100232<br>SHEET |



| REV | DESCRIPTION | Date | APPROVED | THERMOELECTRIC COOLING AMERICA CORP.  |           |                  |           |
|-----|-------------|------|----------|---|-----------|------------------|-----------|
|     |             |      |          | AHP-1200CP DC SERIES ASSEMBLY   |           |                  |           |
|     |             |      |          | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:   |           |                  |           |
|     |             |      |          | DECIMALS  | ANGLE     | +                | -         |
|     |             |      |          | .XX   | +         | -                |           |
|     |             |      |          | .XXX  | +         | -                |           |
|     |             |      |          | MATERIAL:   |           |                  |           |
|     |             |      |          | FINISH:   |           |                  |           |
|     |             |      |          | INFORMATION DISCLOSED HEREIN IS THE CONFIDENTIAL PROPERTY OF TECA CORP. RECIPIENT SHALL NOT USE THE INFORMATION IN ANY UNAUTHORIZED MANNER. |           |                  |           |
|     |             |      |          | DRAWN BY: AA  | DRAWING # |                  |           |
|     |             |      |          | DATE: 3/16/2010   | SK100310  |                  |           |
|     |             |      |          | D7762   | SCALE     | MASTER: SK100223 | REV LEVEL |
|     |             |      |          |   |           |                  | SHEET     |



## 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.