

Product Information Packet

Model AHP-1501

Thru Mount, Solid State, NEMA-12, Air Conditioner

With TC-6F Temperature Control

Part #0-2181-0-000

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 # SK050532

Wiring Drawing # SK041103

Installation Drawing # SK050530

Temperature Control Information

Warranty Information



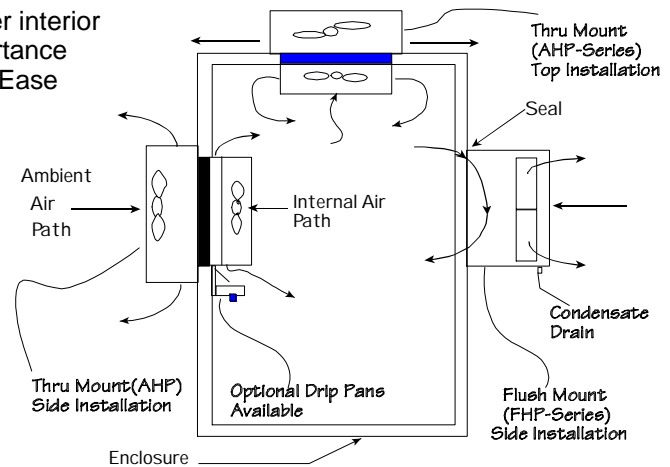
ThermoElectric Cooling America Corporation
4048 W. Schubert Avenue • Chicago, IL (U.S.A.) 60639
Ph: 773/342-4900 Fx: 773/342-0191
sales@thermoelectric.com www.thermoelectric.com

Important Installation Notes for Air Conditioners

Mounting Styles: Both 'thru mount' and 'flush mount' units can be positioned in any orientation and on any enclosure surface. It is important to consider interior air flow patterns when determining the mounting location. Also of importance is an unrestricted flow of ambient air thru the hot side heat exchanger. Ease of access and inspection must be considered for those applications in particularly severe environments which may require occasional maintenance.

Vertical (Side/Front/Back) Mounting:

Vertical mounting refers to the vertical direction of the cold side or interior fins and is recommended for applications with high humidity, poor and incomplete cabinet seals or any condition which may cause the cold side fins to be maintained at temperatures below the dew point for long periods of time allowing for the formation of condensation. The vertical fin direction provides a drip path whereupon condensation can be collected via a moisture removal system (standard on FHP-units) or a drip pan positioned below the cold side fins. Drip pans are optional for thru mount units.



Condensate Removal System:

All FHP-Series and AHP-1400 air conditioners contain a built-in condensate removal system. The condensate kit consists of a antifungal sponge with a condensate wick. PVC tubing is also provided for drainage. Drip pans are optional for thru mount units which must be evaluated on an individual basis. Equations defining a relationship between the cold side fin and enclosure temperatures are provided to assist in the evaluation.

Top Mounting:

Though often the easiest location to mount it is often the most difficult to protect from condensation in this orientation due to the fin orientation, gravity and any susceptible components below. If a drip pan is employed by the end user use caution to place the pan far enough away from the internal fan to minimize the restriction of air flow. The pan should cover the fin ends as well as the fan area. When there is a choice, the vertical orientation is preferred by most users.

Maintenance:

Since the technology is solid-state, there are no filters, compressors, or fluorocarbons to maintain. The only moving parts are the fans. It is recommended for harsh or dirty environments that the heat sinks be cleaned from time to time. This can be accomplished by directing compressed air over the external fins or on NEMA 4 versions by hosing the unit down. This will increase the overall life and performance of the system.

Cautions:

Take care when mounting not to damage the seal between the hot and cold side sinks. Do not attempt to mount a unit to a warped surface or try to make the units mounting surface conform to an unflat surface. Do not pinch or damage any leads when mounting. Do not over tighten any installation screw, use reasonable force. Always mount with any condensate drain down. Do not compress the cold side between the hot side and any other surface. Do not obstruct the airflow on either side. When mounting consider the natural air flows of the enclosure. Connect power only after the installation is complete.

Notes on condensation:

Condensation occurs at the cold side fins when the surface temperature goes below the dew point. To reduce or remove condensate, consider the following:

- Regulate the Fin Temperature above the Dewpoint.
- Keep Enclosure Closed and Sealed from Outside Humidity.
- Use Desiccant (Moisture absorbing Granules.)
- Employ Condensate Removal System/Drip Pans.

If you have any questions regarding your installation, Please feel free to contact our technical department for assistance at 773-342-4900.

AHP-1501

Air Conditioner

Air Cooled
Thru Mount
NEMA-12 & NEMA-4

120/240 VAC Input

FEATURES

- Compact
- Mounts in multi-unit array for incremental capacity
- Weighs only 52 LBS. (24 KG.)
- Dual voltage 120/240 VAC
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing

INCLUDES

- Temperature control
- Mounting gasket and hardware
- Power input line cord
- Condensate removal system

OPTIONS

- Other temperature settings for single set point controls
- Custom finishes



SPECIFICATIONS

	MODEL	PART NUMBER	PERFORMANCE RATING BTU/HR	VOLTAGE VAC 50/60HZ	CURRENT AMPS.	TEMP. CONTROL	OPERATING AMBIENT TEMPERATURE RANGE °C	OPERATING ENCLOSURE TEMPERATURE RANGE °C	CONDENSATE REMOVAL	AGENCY APPROVALS
N E M A 12	AHP-1501	0-2171-0-000	1000-1100	120/240	8.0/5.0	30 °C	-40/+65	-10/+60	Wick, Drip Pan	UL1995/CSA22.2
	AHP-1501	0-2181-0-000	1000-1100	120/240	8.0/5.0	TC-6F†	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501	0-21F1-0-000	1000-1100	120/240	8.0/5.0	85°F (30°C)	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501	0-2151-0-000	1000-1100	120/240	8.0/5.0	EXT*	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501HC	0-2131-1-000	1000-1100	120/240	8.0/5.0	TC-3F	-40/+65	-10/+60	Wick	UL1995/CSA22.2
N E M A 4	AHP-1501HC	0-2151-1-000	1000-1100	120/240	8.0/5.0	EXT*	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501XE	0-2181-4-000	1000-1100	120/240	8.0/5.0	TC-6F†	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501XE	0-21F1-4-000	1000-1100	120/240	8.0/5.0	85°F (30°C)	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501XE	0-2151-4-000	1000-1100	120/240	8.0/5.0	EXT*	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501XEHC	0-2131-5-000	1000-1100	120/240	8.0/5.0	TC-3F	-40/+65	-10/+60	Wick	UL1995/CSA22.2
	AHP-1501XEHC	0-2151-5-000	1000-1100	120/240	8.0/5.0	EXT*	-40/+65	-10/+60	Wick	UL1995/CSA22.2

* Unit is set for 5-32 VDC external signal, relay(s) included

† Unit evaluated by ETL

AHP-1501

MOUNTING STYLE

Thru Mount

ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4 IP 56

RATING (TRADITIONAL)

1000 BTU/hr @ 0 °F ΔT

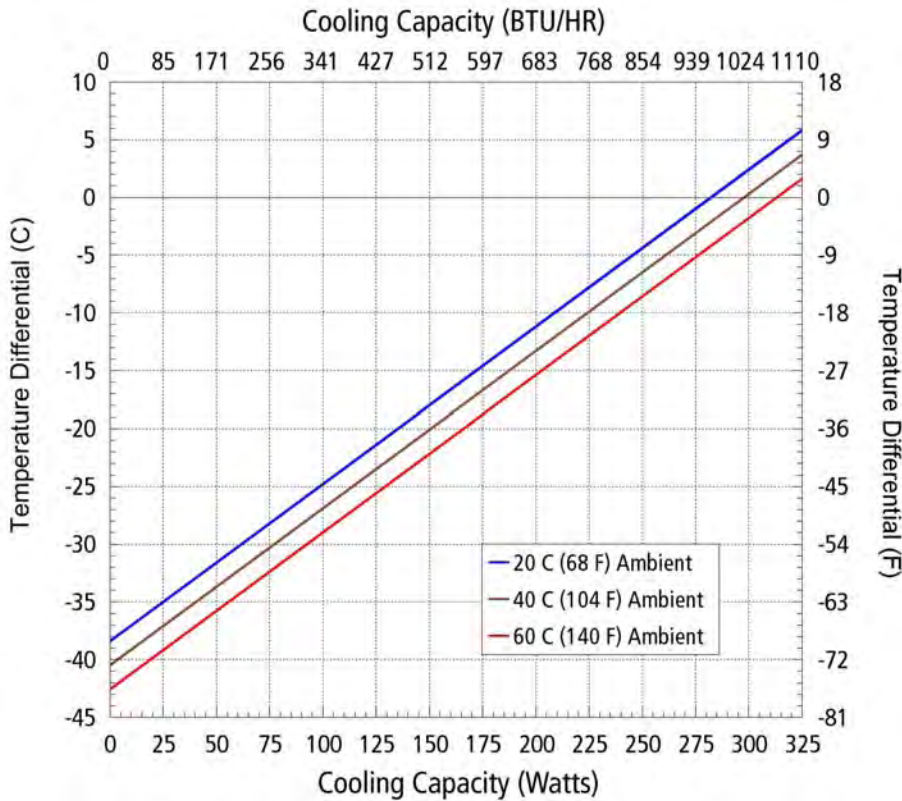
1300 BTU/hr @ +20 °F ΔT *

RATING (DIN 3168)

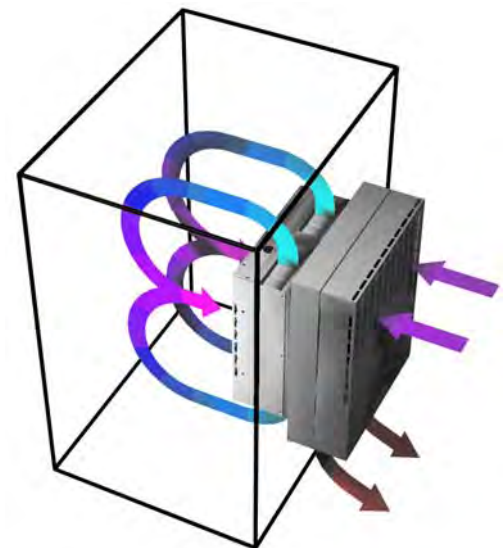
300 Watts L35 L35

187 Watts L35 L50

* See page 10

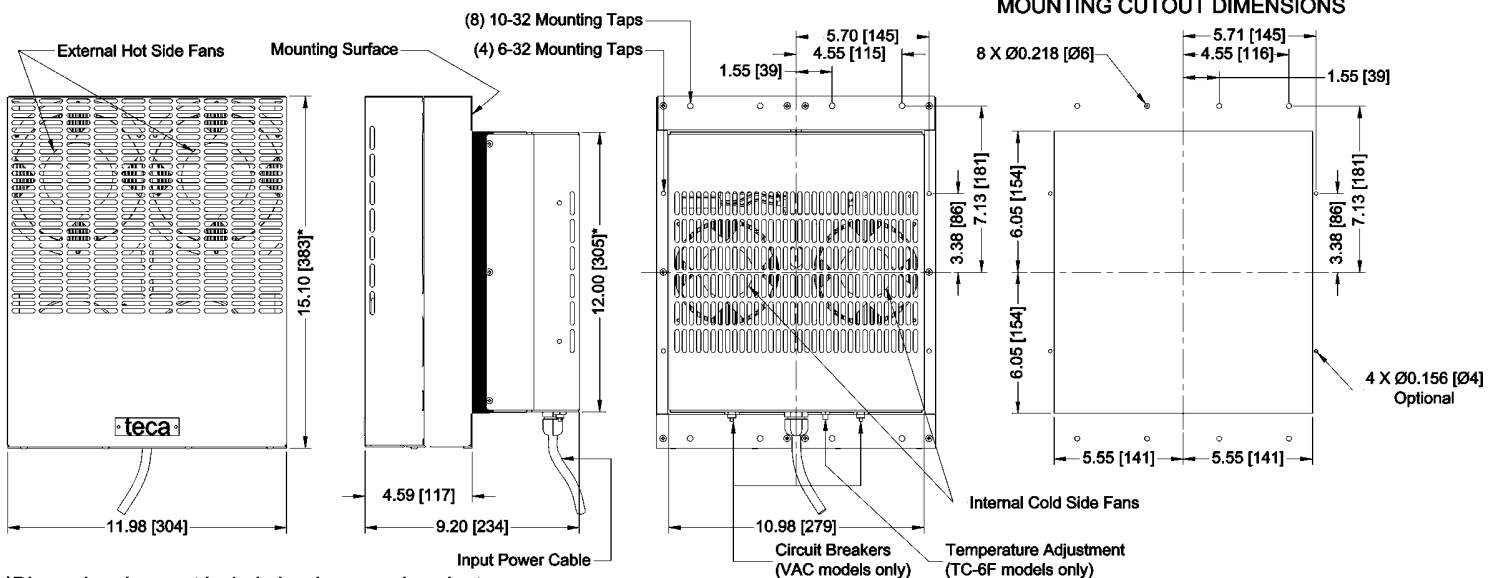


Equation of line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$			
Ambient Temp	20°C	40°C	60°C
Enclosure Air	$y = .136x - 38.4$	$y = .136x - 40.5$	$y = .136x - 42.6$
Cold Sink	$y = .10x - 38.4$	$y = .10x - 40.5$	$y = .10x - 42.6$



Air Flow Pattern

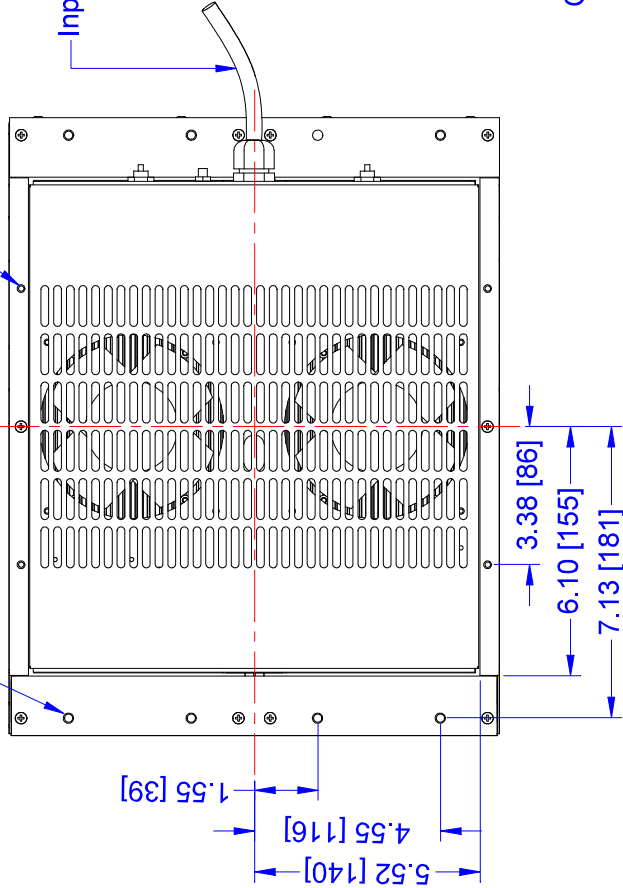
AHP-1501 DIMENSIONS



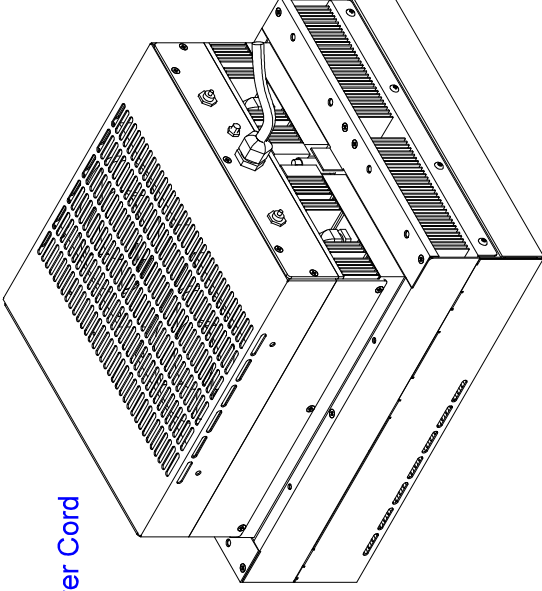
*Dimension does not include hardware and sealant.
Mounting hardware, drip pan and gasket included but not shown.
Dimensions: Inches [Millimeters]

4 X 6-32 Mounting taps
(optional)

8 X 10-32 Mounting taps

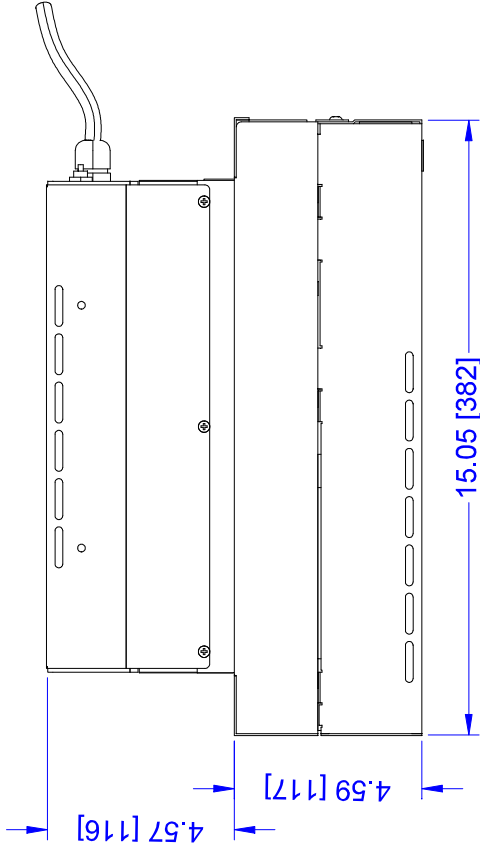


Input Power Cord



Circuit Breakers

Temperature adjustment



11.99 [305]

Notes:

- Dimensions: Inches [Millimeters]
- Dimensions do not include hardware

REV	DESCRIPTION	Date	APPROVED	FINISH:	INFORMATION DISCLOSED HEREIN IS THE CONFIDENTIAL PROPERTY OF TECA CORP. RECIPIENT SHALL NOT USE THE INFORMATION IN ANY UNAUTHORIZED MANNER.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .XX +/- FRACTION XXX +/- ANGLE +/- MATERIAL:	THERMoeLECTRIC COOLING AMERICA CORP.
							AHP-1501 SERIES ASSEMBLY
							DRAWING # AA
							DATE: 05/25/05
							SCALE: D6459
							MASTER: MASTER
							REV LEVEL
							SHEET

- ◆ INDICATES AMP 55843-1 CLOSED END SPLICE
- ◇ INDICATES AMP 321519 CLOSED END SPLICE
- INDICATES SOLDER CONNECTION
- ▷ INDICATES RED RING TERMINAL
- ◁ INDICATES BLUE RING TERMINAL
- INDICATES SMALL RED RING TERMINAL
- ▤ INDICATES SMALL BLUE RING TERMINAL
- ◀ INDICATES RED QUICK CONNECT
- ◁ INDICATES BLUE QUICK CONNECT

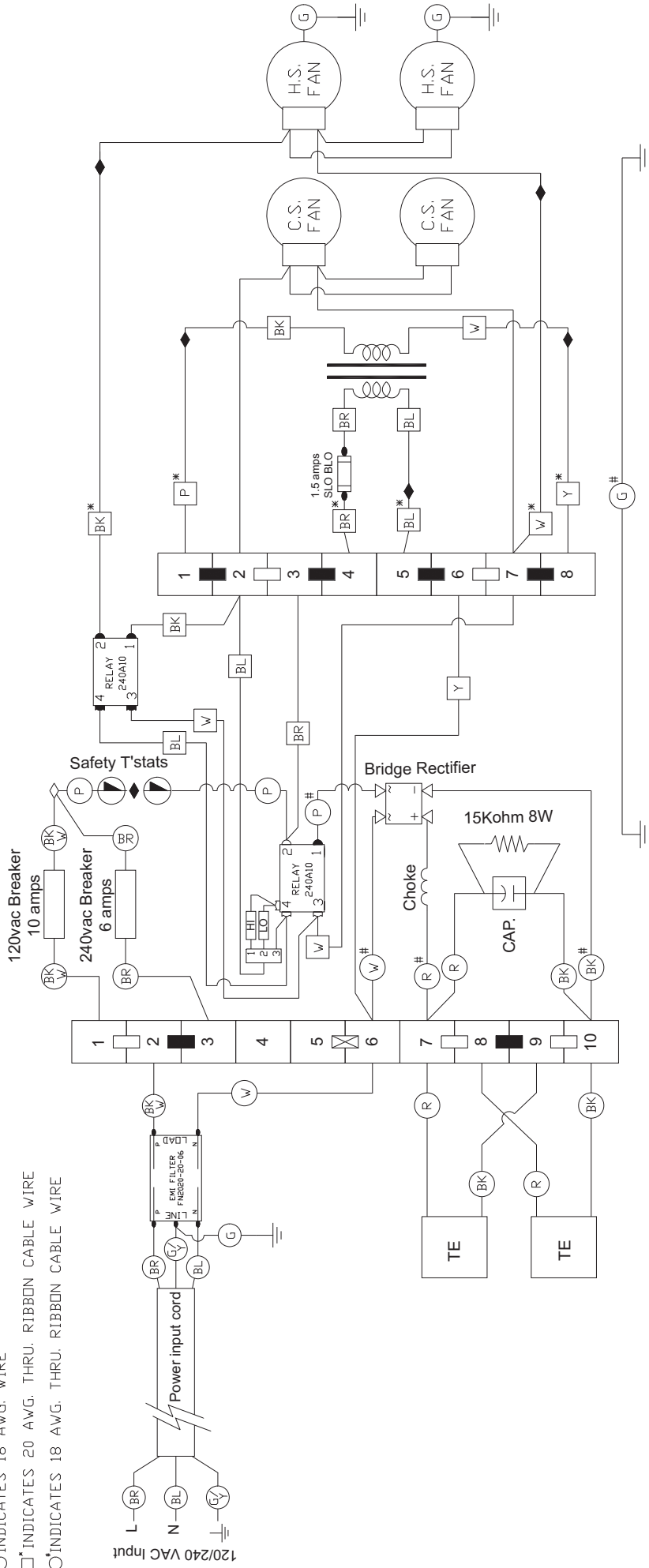
- INDICATES 20 AWG. WIRE
- INDICATES 18 AWG. WIRE
- * INDICATES 20 AWG. THRU. RIBBON CABLE WIRE
- * INDICATES 18 AWG. THRU. RIBBON CABLE WIRE

Terminal Jumpers

- Indicates 120vac Terminal jumper
- Indicates 240vac Terminal jumper
- ▤ Indicates 120/240vac (Fixed) Terminal jumper

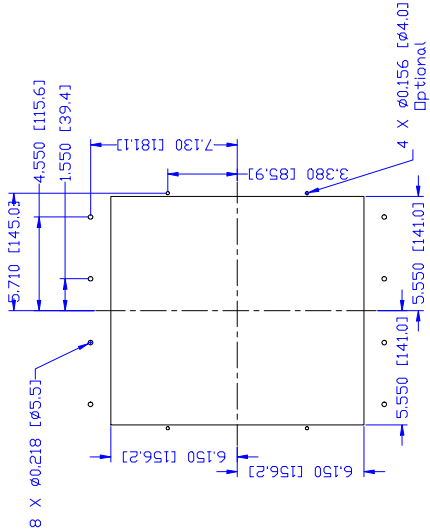
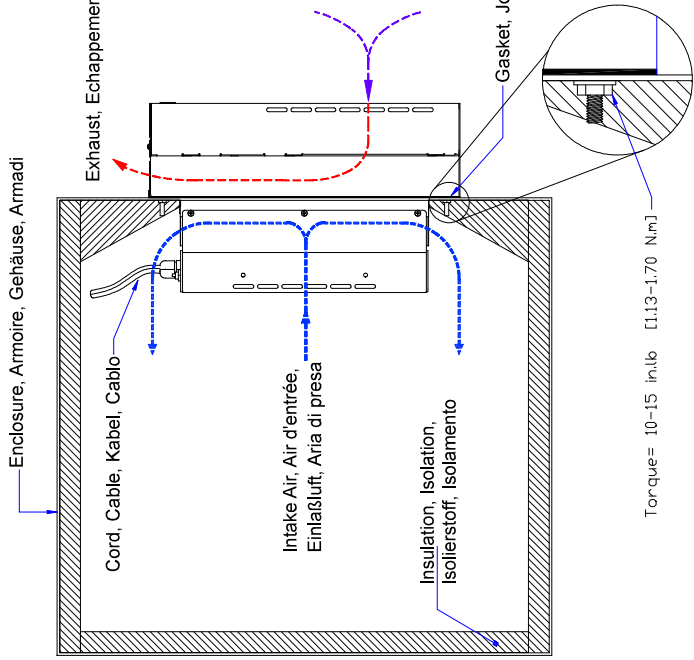
Note:

- This unit is factory wired for 240vac operation.
- For 120vac operation remove 240vac ■ jumpers and install 120vac jumpers □.



THERMOELECTRIC COOLING AMERICA CORP.			
AHP-1501 W/TC-6F		DRAWING #	
WIRING DIAGRAM		SK041103	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	TOLERANCES ARE:	DRAWN BY:	AA
		DATE:	11/02/04
INFORMATION DISCLOSED HEREIN IS THE CONFIDENTIAL PROPERTY OF TECA CORP. RECIPIENT SHALL NOT USE THE INFORMATION IN ANY UNAUTHORIZED MANNER.		SCALE: D6280	
FINISH:		MASTER: MASTER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		SHEET	
TOLERANCES ARE:			
DECIMALS	ANGLE		
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.XXX +/-	FRACTION		
	+/-		
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Mounting, Monture, Montage, Montaggio



Alternate, Alternative, Alternativa

English, Français, Deutsch, Italiano
Dimensions: Inches [Millimeters]

Warning - If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- UL 489 defines branch circuit protection of no more than 4X the rating of the supplemental protector to be used upstream. We suggest a slow re-acting, 10-15 Amps circuit breaker.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.

Avertissement - Si le cordon d'alimentation est endommagé, il doit être remplacé par le fabricant, son agent de service ou de personnes de qualification similaire afin d'éviter un danger.
- UL 489 définit la protection du circuit de pas plus de 4X la cote du protecteur supplémentaire pour être utilisé en amont. Nous suggérons une lente réaction, 10-15 disjoncteurs Amps.
- Cet appareil n'est pas destiné à être utilisé par des personnes (enfants compris) dont les capacités physiques, sensorielles ou mentales, ou le manque d'expérience et de connaissances, à moins qu'ils aient été dotés de surveillance ou d'instructions concernant l'utilisation de l'appareil par une personne responsable de leur sécurité.
Les enfants doivent être surveillés afin de s'assurer qu'ils ne jouent pas avec l'appareil.

Achtung - Wenn das Netzkabel beschädigt ist, muss es durch den Hersteller, seinen Kundendienst oder eine ähnlich qualifizierte Person, um eine Gefahr zu vermeiden ersetzt werden.
- UL 489 definiert den Schutz der Stromzweige nicht mehr als 4X das Rating der Beschützer weiter flussaufwärts genutzt werden. Wir empfehlen eine langsame Reaktion, 10-15 Ampere-Sicherung.
- Dieses Gerät ist nicht für die Verwendung durch Personen (einschließlich Kinder) mit eingeschränkten physischen, sensorischen oder geistigen Fähigkeiten oder Mangel an Erfahrung und Wissen, bestimmt, sofern sie eine angemessene Aufsicht oder ausführliche Anleitung zur Benutzung des Geräts durch eine verantwortliche Person für ihre Sicherheit.
Kinder sollten beaufsichtigt werden, um sicherzustellen, dass sie nicht mit dem Gerät spielen.

Attenzione - Se il cavo di alimentazione è danneggiato, esso deve essere sostituito dal produttore, dal suo agente di servizio o da un professionista al fine di evitare rischi.
- UL 489 definisce il circuito di protezione filare di non più di 4X il rating del protettore supplementare da utilizzare a monte. Vi suggeriamo una lenta reazione, 10-15 interruttore Amp.
- Questo apparecchio non è destinato all'uso da parte di persone (bambini compresi) con ridotte capacità fisiche, sensoriali o mentali, o mancanza di esperienza e conoscenza, a meno che non siano sorvegliati o istruiti per l'uso dell'apparecchio da una persona responsabile della loro sicurezza.
I bambini devono essere supervisionati per assicurarsi che non giochino con l'apparecchio.

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Control/Thermostats

The model **TC-6F** (Cool Only) thermostat is designed using two magnetic reed switches in conjunction with a solid state relay. A three position switch is provided to adjust between the following settings:

Position	Control Temp.	Tolerance	Reset Differential
1	35°C	+/-5°C	10°C Maximum
2	25°C	+/-5°C	10°C Maximum
3	Constant On		

The model **TC-3F** (Heat/Cool) thermostat incorporates the same technology as the TC-6F. It contains a single setting each for both heating and cooling as referenced below:

Mode	Control Temp.	Tolerance	Reset Differential
Cooling	35°C	+/-5°C	-10°C Maximum
Heating	15 °C	+/-5°C	+10°C Maximum

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.