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 # 1200-B-A13
Wiring Drawing # 1200-B-E66
Installation Drawing # 1200-A-F60
Warranty Information
Important Installation Notes for Air

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-1200EP Air Conditioner
Air Cooled
Thru Mount
NEMA-12, 4X, Class I Div 2

FEATURES

- Compact, (only 15"L X 7.35"W X 8.17"D)
- Weighs only 21 lbs. (9.5 kg)
- Excels in high ambient temperatures
- Environmentally safe
- Dual voltage versions available
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Versions to withstand corrosive environments, shock and vibration
- Mounts and operates in any orientation
- Groups A, B, C, D

INCLUDES

- Adjustable temperature control
- Gasket and mounting hardware
- Power input line cord

OPTIONS

- Other temperature settings for single set point controls

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>PERFORMANCE RATINGS BTU/HR</th>
<th>VOLTAGE VAC 50/60HZ</th>
<th>CURRENT AMPS</th>
<th>WEIGHT LBS.(KG)</th>
<th>TEMP CONTROL</th>
<th>OPERATING AMBIENT TEMPERATURE °C</th>
<th>OPERATING ENCLOSURE TEMPERATURE °C</th>
<th>AGENCY APPROVALS</th>
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<td>-10/+60</td>
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* Unit is set for 5-32 VDC external signal, relay(s) included
**PERFORMANCE CURVE**

![Performance Curve Graph]

Equation of line: \( y = -\frac{T}{900} x + C \)

<table>
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<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
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<tr>
<td>Enclosure Air</td>
<td>( y = 0.266x - 39.5 )</td>
<td>( y = 0.266x - 41.0 )</td>
<td>( y = 0.266x - 42.5 )</td>
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<tr>
<td>Cold Sink</td>
<td>( y = 0.173x - 39.5 )</td>
<td>( y = 0.173x - 41.0 )</td>
<td>( y = 0.173x - 42.5 )</td>
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**DIMENSIONS**

![Dimensions Diagram]

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

**MOUNTING CUTOUT DIMENSIONS**

![Mouting Cutout Dimensions Diagram]

**AIR CONDITIONER - AIR COOLED**

**AHP-1200EP**

**MOUNTING STYLE**

Thru Mount

**ENVIRONMENTS SERVED**

Class 1 Div 2 NEMA-12 IP 52
Class 1 Div 2 NEMA-4X IP 56

**RATING (TRADITIONAL)**

- 530 BTU/hr @ 0 °F ΔT
- 670 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**

- 154 Watts L35 L35
- 100 Watts L35 L50

See page 10

www.teca-eu.com 1-888-TECA-USA (832-2872)
Mounting, Monture, Montage, Montaggio

Cord, Cable, Kabel, Cablo

Intake Air, Air d'entrée, Einlauff, Aria di presa

Insulation, Isolation, Isolierstoff, Isolamento

Gasket, Joint, Dichtung, Garanzzone

Exhaust, Echappement, Abluft, Scarico

Alternate, Alternative, Alternative, Alternativa

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

3.13 [79.38]
2.88 [73.15]
3.45 [87.68]
6.62 [168.13]
12 X Ø0.22 [Ø5.59]

"Warning: Risk of electric shock, Can cause injury or death. Disconnect all remote electric power supplies before servicing.

Avertissement: Risque de choc électriques. Peut causer des blessures et même entraîner la mort. Couper les sources d'alimentation a distance avant le dépannage."

"Warning: Explosion Hazard - Substitution of components may impair suitability for Class I, Division 2.

Avertissement: Risque d'explosion - La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Class I, Division 2."

THERMOELECTRIC COOLING AMERICA CORP.

AHP-1200EP / AHP-1200XP SERIES
TYPICAL FIELD MOUNTING

INFORMATION DISCLOSED HEREBIN IS THE CONFIDENTIAL PROPERTY OF TECO CORP. RECIPIENT SHALL NOT USE THE INFORMATION IN ANY UNAUTHORIZED MANNER.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE

AA

FINISH:

MATERIAL:

REV

DESCRIPTION

Date

APPROVED

DRAWN BY

DRAWING #

REVIEW LEVEL

SHEET
<table>
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<tr>
<th>TYPE OF EQUIPMENT</th>
<th>Electrical Heat Pump, Air Conditioner</th>
<th>Solid State Cooling Devices</th>
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| MODEL NUMBERS     | Model nos. AHP followed by -1200XP, or -1200XPM, or 1200EP, or -1201XP, or -1201XPM or -1201EP; may be followed by HC may be followed by -1 or W/TC followed by -3F or -6F. | Model nos. AHP followed by 1800XP or 1800EP; may be followed by HC; may be followed by -1, or -2, or W/TC followed by 3F or 6F. |
|                   | Model nos. AHP followed by -1801XP or -1801EP; may be followed by HC; may be followed by -1 or -2, or W/TC followed by 3F or 6F. | Model no. AHP followed by -1802XP or 1802EP may be followed by HC, may be followed by -1, or -2, or W/TC followed by 3F or 6F. |

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<th>Refer to the first two digits of the serial number on the manufacturers ID label</th>
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<th>MANUFACTURER</th>
<th>TECA Corporation</th>
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<tr>
<td></td>
<td>4048 W. Schubert Avenue</td>
</tr>
<tr>
<td></td>
<td>Chicago, IL  60639</td>
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<td></td>
<td>U.S.A.</td>
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| APPLIED STANDARDS   | • Standard for Electrical Equipment for Use in Class I and Class II, Division 2 and Class III Hazardous (Classified) Locations (UL 1604 - 3rd Edition 10/06/1995) [Note: For use in Class I, Division 2 Locations Only] |
|                     | • Standard for Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations; Industrial Products; General Instruction No. 1 (CSA C22.2 No. 213-M1987 Ed.1 R1992) |

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<th>ITS Intertek Testing Services  ETL SEMKO</th>
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| REPORT No.           | 551722 |

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<th>VP of Engineering</th>
<th>Andy Brecklin</th>
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<tbody>
<tr>
<td>May 26, 2011</td>
<td></td>
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</table>
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.