About TECA

What We Stand On

Our mission
TECA’s fundamental purpose is to provide world-class products of superior quality. Our goal is to continue setting the standard in thermoelectric cooling by monitoring and improving our operations to meet our customers’ needs and exceed their expectations.

A former division of Borg-Warner, TECA was spun-off as an independent company in 1984.

Today the Chicago-based corporation manufactures a wide range of solid state cooling products, including air-cooled and liquid-cooled air conditioners, cold plates, and liquid chillers.

Our guiding principles
Quality is our top priority. We are “TEAM TECA,” recognizing that our success depends upon the involvement, commitment, and performance of every team member, including suppliers.

How to use this catalog
We hope you’ll view this catalog as a working guide to the possibilities of thermoelectric cooling. We’ve included a foundation of information designed to help you think about the applications for your company, in addition to detailed descriptions of the off-the-shelf products we offer.

Our solutions
We can fulfill all of your cooling requirements, whatever your application. In fact, our engineers may have already developed a solution for an application similar to yours. We offer complete engineering services, prototype development, and custom-built cooling equipment on an exclusive and confidential basis, enabling us to meet the needs of all our customers, including those in the Original Equipment Market.

We will continue to focus our efforts on the people we serve and the products we produce in order to ensure quality without sacrificing health, safety, or the environment in which we live.

TECA web site
There are numerous things you can get from the web site that you cannot get from this catalog! www.thermoelectric.com

- Drawings and 3D solid model of most products.
- Product Information Packets are downloadable. These are the installation and service documents and schematics which are shipped with the products when you buy them.
- Example applications.
- This catalog is downloadable, so you can print pages or sections of interest for your own use.
- The site is often updated with news and other current items of interest ...articles, stories, links, etc.
- Teca Sizing Software is downloadable. This is a handy, easy to use program which is very helpful in choosing air conditioners of the appropriate capacity for your job.

Please keep in mind that we are always willing and available to customize existing products or to design and build new products to meet your needs. Call us at 888-TECA-USA – we’re here to help!

888-832-2872

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Thermoelectric Technology

The Peltier Effect

Thermoelectric cooling, is a solid-state method of heat transfer through dissimilar semiconductor materials. It is also called “the Peltier Effect” after the French watchmaker who discovered the phenomenon in the early 19th century. Like their conventional refrigeration counterparts, thermoelectric cooling systems obey the basic laws of thermodynamics. However, the actual system for cooling is different.

In a conventional refrigeration system, the main working parts are the evaporator, condenser, and compressor. The evaporator surface is where the liquid refrigerant boils, changes to vapor, and absorbs heat energy. The compressor circulates the refrigerant and applies enough pressure to increase the temperature of the refrigerant above ambient level. The condenser helps discharge the absorbed heat into surrounding room air.

The three main working parts in a thermoelectric refrigeration system are a cold junction, a heat sink, and a DC power source.

Two dissimilar conductors replace the refrigerant in both liquid and vapor form. The cold sink (evaporator surface) becomes cold through absorption of energy by the electrons as they pass from one semiconductor to another, instead of energy absorption by the refrigerant as it changes from liquid to vapor. The DC power source pumps the electrons from one semiconductor to another, and the heat sink (condenser) discharges the accumulated heat energy from the system.

Therefore, the thermoelectric cooling system refrigerates without refrigerant and without the use of mechanical devices, except perhaps in the auxiliary sense. The semiconductor materials used in thermoelectric cooling are N and P type, named because they either have more electrons than necessary to complete a perfect molecular lattice structure (N-type) or not enough electrons (P-type). The extra electrons in the N-type material and the holes left in the P-type material are called “carriers,” responsible for moving the heat energy from the cold to the hot junction. Good thermoelectric semiconductor materials such as bismuth telluride greatly impede conventional heat conduction from hot to cold areas, yet provide an easy flow for the carriers.
**Product Notes**

**General Product Part Numbering Notes:**

**TECA** builds both air cooled and liquid cooled products. The model numbers of the products (example: AHP-1200XMHC) can be very descriptive of the product. Air cooled air conditioners (prefix AHP and FHP) use fans and finned heat sinks to transfer heat. Liquid cooled products (prefix LHP) require a flow of water or cooling fluid to dissipate the heat. Within air conditioners, suffixes such as XE, X, XM, CXP, EP, and XP relate to environment. Additionally, most product families offer a selection of DC or AC voltages and temperature controllers detailed with complete part numbers on their individual catalog pages. All products offer cooling and many offer cooling and heating. Products capable of both heating and cooling typically include "HC" in the suffix. The heating can be from resistive heaters or via reverse polarity (rev. pol.) input to the thermoelectrics. Please see the below table and feel free to contact us for further assistance.

<table>
<thead>
<tr>
<th>FAMILY</th>
<th>COOLING CAPACITY</th>
<th>INPUT VOLTAGE</th>
<th>DIMENSIONS INCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>100 BTU/HR</td>
<td>12/24 VDC</td>
<td>7 X 3.6 X 6</td>
</tr>
<tr>
<td>300</td>
<td>210 BTU/HR</td>
<td>12/24/48 VDC</td>
<td>10 X 5.4 X 6.5</td>
</tr>
<tr>
<td>301</td>
<td>180 BTU/HR</td>
<td>120/240 VAC</td>
<td>10 X 5.5 X 7.8</td>
</tr>
<tr>
<td>450</td>
<td>207 BTU/HR</td>
<td>24 VDC</td>
<td>10 X 5.8 X 7.8</td>
</tr>
<tr>
<td>470</td>
<td>315 BTU/HR</td>
<td>24 VDC</td>
<td>10 X 5.8 X 7.8</td>
</tr>
<tr>
<td>401</td>
<td>342 BTU/HR</td>
<td>120, 240 VAC</td>
<td>10 X 5.8 X 8.8</td>
</tr>
<tr>
<td>570</td>
<td>303 BTU/HR</td>
<td>24 VDC</td>
<td>10 X 5.8 X 7.8</td>
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<tr>
<td>590</td>
<td>460 BTU/HR</td>
<td>24 VDC</td>
<td>10 X 5.8 X 7.8</td>
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<tr>
<td>750</td>
<td>430 BTU/HR</td>
<td>120, 240 VAC; 24 VDC</td>
<td>12 X 6 X 9</td>
</tr>
<tr>
<td>1200</td>
<td>530 BTU/HR</td>
<td>120, 240 VAC; 24 VDC</td>
<td>15 X 7.3 X 8.2</td>
</tr>
<tr>
<td>1400</td>
<td>850 BTU/HR</td>
<td>120 VAC</td>
<td>12 X 12 X 9.2</td>
</tr>
<tr>
<td>1500</td>
<td>1000 BTU/HR</td>
<td>120/240 VAC; 24 VDC</td>
<td>15 X 12 X 9.2</td>
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<td>1800</td>
<td>1100 BTU/HR</td>
<td>120, 240 VAC; 24 VDC</td>
<td>18 X 12.3 X 9.7</td>
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<td>2850</td>
<td>1700 BTU/HR</td>
<td>120, 240 VAC</td>
<td>24 X 12 X 9</td>
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<td>2200</td>
<td>1400-2060 BTU/HR</td>
<td>120, 240 VAC; 24 VDC</td>
<td>20.5 X 13 X 8.5</td>
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<td>3200</td>
<td>2250-2610 BTU/HR</td>
<td>120, 240 VAC</td>
<td>20.5 X 19 X 8.5</td>
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<td>4200</td>
<td>2330-3600 BTU/HR</td>
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<td>20.5 X 25 X 8.5</td>
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<td>6200</td>
<td>4300-5200 BTU/HR</td>
<td>120, 240 VAC</td>
<td>20.5 X 37 X 8.5</td>
</tr>
</tbody>
</table>

- **FF** These air conditioners are suitable for indoor, Nema-12 applications.
- **XE** These air conditioners are suitable for outdoor, Nema-4 and hose down applications. They use industrial grade sealed fans suited for the environment. Power supply components exposed to the environment are also sealed.
- **X** These air conditioners are designed for harsh Nema-4X environment. Military grade fans are used on the hot side (exposed to the environment). Power supply components exposed to the environment are also sealed.
- **XM** One step more rugged is the XM line of products. Also Nema-4X these products use military grade fans on both the hot (environment) side and the cold (enclosure) side. These products can typically handle more shock and vibration, especially along the fans.
- **EP** Suitable for Hazardous Locations Cl D2 and Nema-12 indoor applications.
- **XP** Suitable for Hazardous Locations Cl D2 and Nema-4X outdoors/harsh environments.
- **CXP** Suitable for Hazardous Locations Cl D1 & ATEX Zone 1 and Nema-4X outdoors/harsh environments (no ATEX approvals).
- **HC** These products are capable of heating and cooling.

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Things you need to know to start sizing an air conditioner:

**Temperature:** The ambient is the air temperature around the enclosure (also referred to as operating temperature), often the room temperature. The *enclosure temperature* or the *interior temperature* is the temperature range you wish to maintain inside the enclosure. The difference between the two is the design temperature differential (delta T). Look at these temperatures with care. What is the real maximum ambient? What is the real maximum allowable enclosure temperature? How can I define these? Ask maintenance or those who work in the area. Look at the temperature specs of the equipment inside. You may want 72 F in your enclosure but is it really necessary? Would 95 F be just as acceptable with occasional excursions to 104 F under worst case conditions? Do not impose unrealistic demands if you are unwilling to pay the price.

**Heat Loads Active and Ambient:** We define an active load as any source of heat inside the enclosure. Waste electric heat or exothermic reactions are examples. This can be determined in several ways. The first is by simply adding up the amount of heat generated by each component. This sounds easy but the information is often not readily available in component spec sheets and requires direct inquiries to manufacturers. A second method is to apply a control volume approach and to measure the total electrical input and output, subtract the two and assume the remainder has been turned into heat. Another method requires knowledge of the thermal characteristics of the enclosure, how many degrees does it rise given a defined amount of internal heat generation. This can be found by monitoring internal and external temperatures and varying a known internal load while bringing the system to equilibrium between each step and recording the values. Use these numbers to determine the degrees per watt enclosure characteristic. Once this characteristic of the enclosure is known the system can be operated to steady state, the ambient and enclosure temperatures measured and a quick calculation made to estimate the amount of internal heat generated. An ambient load is that amount of heat added to the enclosure due to ambient conditions. The usual ambient load is that caused by the temperature difference between the enclosure and the ambient. It is a function of the enclosure thermal characteristics (size, insulation, seals, windows etc…). The same value determined experimentally as described above can be used to estimate the ambient load. Outdoor applications often have an additional solar component. Indoor applications can have something similar if for instance they are in close proximity to a heat source such as a furnace.

**Performance Curves:** The total load and temperature differential (dT) can be applied to the performance curves of the air conditioners to determine if the cooling capacity is sufficient. Complete details on this process can be found in the ratings and performance page of this catalog.

**Things you should consider when selecting an air conditioner:**

**Purpose:** What is the real need for cooling: maintaining electronics temperatures, precision temperature control, maintaining sample temperatures, cooling a process? Answering these questions will ascertain the need for an air conditioner and help in selecting the control type and methods.

**Temperature Control:** Several control options are available. The most widely used controls are the TC-F family of controls which come in cool only, heat/cool and heat/cool with Eco-mode, a passive power saving heat exchanger mode. The 35C setting for cooling and the 15C setting for heating are the most common. These settings provide a comfortable temperature for the electronics, minimizes chances of condensation and provides for an efficient duty cycle for the air conditioner. For tighter control cool only and heat/cool air conditioners can be used in conjunction with programmable TC-3400, TC-4600 or TC-3500 controllers, or customer supplied controls. These units typically require a 3 to 24 VDC drive signal to turn the heating or cooling on. Accessories such as relay packs (for reverse polarity heat/cool air conditioners) and communications are available. Buck heating control where the air conditioner is on 100% of the time and control is provided through a separate heater is another option. P, PI, PID and PWM control schemes have all been used with success. There is one caution regarding input surges when trying to get tight temperature control with AC input units. Each application should be evaluated independently to assure safe and proper control.

**Environment:** IP and NEMA ratings both define the types of environments one might find. We have included those types of designations with the air conditioner model number to help you select the right one for your environment. In general our standard air conditioners can handle factory and office environments. “XE” styles are appropriate for many wet factory environments and outdoors. “X” styles employ Military fans on the hot side or ambient side and can handle much more rugged environments such as salt and wind blown sand. The “XM” styles employ military fans throughout and have been customer tested to survive severe shock and vibration in all axes. “EP” (indoor) and “XP” (outdoor) units are suitable for hazardous locations many being independently evaluated.

**Power Input:** Air conditioners requiring 110 VAC, 220 VAC, 110/220 VAC, 12 VDC, 24 VDC and 12/24/48 VDC are available. Inquiries for other inputs such as 250 VDC are welcome.

**Cooling Medium:** Air cooled and liquid cooled air conditioners are available. Liquid cooled air conditioners require a water source. Perhaps the environment rules both fan and liquid cooled out. Is compressed air available (AHP-1200CXP products)?

**Enclosure size and characteristics:** Regarding surface dimensions, the bigger the enclosure is, the more heat it will transfer in and out. Adding insulation can help reduce the cooling capacity required for an enclosure. Windows and access ports can increase the amount of cooling required. A well sealed enclosure will help with this. Further, protecting the enclosure from external loads by using solar shades or shields will help reduce the amount of cooling required.

**Air Conditioner Mounting:** Most of our air conditioners can be mounted in any orientation; wall mounted is usually best. There are two types of mounting styles available. Through-mounted air conditioners will intrude into the enclosure a few inches. Flush-mounted units do not intrude into the enclosure. Regardless of which style is chosen it is important to orient the air conditioner in such a way that it compliments rather than hinders internal air circulation. Internal fans (cold side fans) run continuously to provide a constant internal air flow. The external fans cycle on and off with demand.

**Condensation Concerns:** The best time to address condensation concerns is in the selection of the air conditioner. Will conditions be ripe for condensation to occur? Condensation may form on the fins when their surface temperature goes below the dew point temperature. Use the “Cold Sink” equations provided for each product with your total load value in this equation to determine the delta T and therefore the actual temperature of the cold side heat exchanger. Compare this value to your expected dew point to see if condensation might occur. On cool-only air conditioners with TC-6F (adjustable controller), the 35 C setting of the TC-6F temperature control goes a long way in minimizing moisture as it creates a smaller delta-T than colder settings. Side, front, or back mounting is recommended if there are condensation concerns. Many flush mount units come with sponge and wick condensate control systems which soak up moisture (spounge) and transport it (wick) to the hot side, where the moisture can be evaporated via the hot side heat sink. There are drip pan accessories for through mount air conditioners to collect and remove moisture. See Air Conditioner Accessories for more details on drip pans.

**TECA**

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Air Conditioner Applications

AERONAUTICS:
A leading military and aeronautics contactor needed a cooling solution for an enclosure which would be on a high altitude vessel. The system would be exposed to high winds and ambient elements present in the altitude. Working with the customer, TECA’s sales and engineering team designed a cooling solution with specific intake and exhaust characteristics along with custom paint and a finish process that could withstand the conditions to which the system is exposed.

COOLING GLOVE BOXES:
A customer manufactures a range of glove box systems for atmosphere control applications in clinical and industrial environments. TECA air conditioners are a vital component on a variety of the glove box models that this customer produces. Standard and customized versions of TECA air conditioners from the AHP-1800-Series are used to control the glove box temperature to below ambient. Clinical applications primarily revolve around cell and bacterial studies within cancer research, bio-fuels studies, sleep apnea, anaerobic microbiology research and clinical applications etc. Industrial applications include product weighing or assembly with humidity and temperature maintenance.

KIOSK:
The picture on the left shows a 4 year-old outdoor kiosk that is located in a zoo in the Sonoran Desert. The kiosk holds a computer and LCD screen, both generating heat, both mounted within an inch of each other. This active heat load coupled with the high ambient temperatures creates a significant need for cooling. TECA’s model AHP-1800XE Thermoelectric Air Conditioner has proven to be a reliable solution. Our customer raves “I had zero problems in past years, not even one tech. call. During the summertime here, when outside temperatures reach 95-110F, and surface of the kiosk gets as high as 125F, the LCD, computer and other components were running cooler than the components in our indoor kiosks.”

LARGE LCD SCREENS:
Specializing primarily in the food and beverage processing industries, one of our longtime customers uses TECA air conditioners in several applications. These include cooling or heating LCD screens, desktop computers, thin clients, and KVM kiosks. The locations of these applications are indoors, outdoors, in cold rooms and baking areas. TECA’s comprehensive line of air conditioners fits the bill. We offer each model in different configurations according to the customer’s need regarding input voltage, mounting and application environment.

MILITARY COMMUNICATIONS:
A branch of the US military had a need for cooling a small enclosure containing a critical voice communication system. The shipboard system had to be resistant to salt water corrosion as well as pass stringent shock and vibration testing. Modification to TECA’s AHP-300X solid state air conditioner allowed the unit to meet specialized air flow requirements and pass these tests. The challenge was to overcome the small available space both inside and outside the enclosure. The heat sinks were turned so that the heat rejection air flow and internal cold side air flow moved in different directions. This unit is a prime example of how flexible Team TECA is when customer needs require modification of standard products.

PORTABLE SECURITY EQUIPMENT:
Site monitor and security equipment for oil fields and transfer stations needed more security. It was an enclosure housing cameras, WI-FI access, antennas and a Mac Mini computer inside, leveraging the Mac platform to provide virtually instant access hi speed via “Wild Blue”. The system will be like a watchdog that they can strap on wherever they need the monitoring. With a slight modification the solution was a TECA model AHP-1200XE thermoelectric cooler, it provided the best solution while keeping the NEMA-4 rating of the enclosure.

ANALYZER COOLING IN HARSH ENVIRONMENT:
TECA’s Model AHP-1202XEHHC Thermoelectric Air Conditioner provides accurate heating and cooling for the customer’s analysis machine. The environment is harsh: it is in a cement plant. The customer’s product quickly analyzes composition of raw materials, allowing for increased productivity. TECA’s AHP-1202XEHHC provides reliable thermal management within a harsh environment. The AHP-1202XEHHC has an industrial grade sealed fan and sealed hot side components, allowing for frequent washdown (NEMA-4). The solid-state construction is the perfect low-maintenance solution for hard-to-access areas. There are no filters to change and no moving parts except for the fans. TECA air conditioners use robust thermoelectric modules and boast a long service life.
Ratings and Performance Curves

Understanding

Air Conditioner Ratings

Ratings

Thermoelectric Modules:
Traditionally thermoelectric modules have been rated at two points under two conditions. The first point is the maximum load (Qmax) at zero degrees delta T (dT=0) and the second point is the maximum delta T (dTmax) at no load (Q=0). The load is defined as the amount of energy removed from the cold side ceramic. The delta T is defined as the temperature difference between the cold side and hot side ceramics. Extensive curves showing the performance under other conditions are often available.

Thermoelectric systems:
Reputable system manufacturers rate thermoelectric systems in watts or btu/hr under zero degree delta T conditions. In this case the load is defined as the amount of energy removed from the cooling medium. For air cooled systems the delta T is the temperature difference between the cooled medium and the ambient air. The cooled medium would be a cold plate in direct contact applications, a fluid such as water in liquid chiller applications and the enclosure air return temperature in air conditioner applications.

Air Conditioners, U.S.
Standards have not yet been created for enclosure air conditioners in the United States. The portions of the standards which deal with ratings and test conditions can still be interpreted for enclosure air conditioners. Too complex to display here, these standards define, among other parameters, the temperature conditions under which ratings are supposed to be made. These temperatures are generally defined as the room temperature and the ambient temperature. Typically the room temperature is either below or equal to the ambient temperature.

Air Conditioners, Europe:
The Europeans have developed a standard, DIN 3168, which specifically addresses enclosure air conditioners or coolers for distribution boxes. This standard does contain temperature information specific to the rating of such air conditioners. The load or the "useful cooling capacity", is only the useful sensible heat flow which is taken up by the appliance for lowering the inside temperature of the distribution box. The temperature rating conditions for DIN 3168 are for the evaporator inlet (enclosure) temperature and condenser inlet (ambient) temperature to be an equal 35 C, or for the evaporator temperature to be 35 C and the condenser temperature to be 50 C, stated L35 L50.

Performance Curves:
The two types of performance curves used throughout the industry are shown on the following page. Both of these curves represent the performance of the TECA model AHP-1200. The top curve is shown per DIN 3168. In this curve temperatures are represented as absolutes, the x axis represents the inlet temperature at the condenser (the enclosure temperature), the vertical axis represents the useful cooling capacity, and separate load lines represent various evaporator inlet temperatures (ambient temperatures). Plotting a vertical line from the condenser inlet temperature to a specific evaporator temperature line and from that intersection horizontally, provides the useful cooling capacity. The bottom curve is for the same product represented in the traditional format. Here the temperatures are presented as differentials. Plotting a horizontal line from a desired delta T to intersect with the selected performance curve and then vertically to the x axis provides the cooling capacity under that condition. Both types of curves accurately represent the performance of a thermoelectric cooling system.
Understanding Different Performance Curves

Performance curve per Din 3168 (AHP-1200)

Inlet temperature at the evaporator (enclosure temperature)
- 25 °C - 30 °C - 35 °C - 40 °C
- Rated 154 Watts
  L35 L35
- Rated 100 Watts
  L35 L50

Inlet temperature at the condenser, °C (Ambient Temperature)

TECA's traditional performance curve (AHP-1200)

Cooling Capacity (BTU/HR)
- Rated 520 Btu/Hr
  0 °C ΔT @ 35 °C Ambient

Temperature Differential (°C)
- Rated 343 Btu/Hr
  -15 °C ΔT @ 50 °C Ambient

Cooling Capacity (Watts)
- 20 °C (68 °F) Ambient
- 40 °C (104 °F) Ambient
- 60 °C (140 °F) Ambient
# AHP-6263 Air Conditioner/Heat Exchanger

**To N**

Air Cooled Through Mounted
Nema-12, 4, 4X

## FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller (optional remote control *)
- Weight 180 LBS.

## CONTROL TEMPERATURES

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<thead>
<tr>
<th>Active Cooling</th>
<th>35 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
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<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

## POWER INPUTS

- Voltage, 3 Phase Delta: 240 VAC
- Current, Active: 11 AMPS
- Current, ECO-Mode: 1.5 AMP
- Frequency: 50/60 Hz

## PERFORMANCE RATINGS

| Cooling (Traditional) | 5660 BTU/HR |
| Cooling (Din 3168) | 1660 WATTS |
| Cooling COP (at L35 L35) | 0.36 |
| Heating (Traditional) | > 15000 BTU/HR |
| Heating (Din 3168) | > 4570 WATTS |
| Heating COP | > 1.0 |
| Heat Exchanger (ECO-mode) | 40 W/°C |

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-6263</td>
<td>0-K5JD-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<td>AHP-6263HC</td>
<td>0-K5JD-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
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<td>AHP-6263XE</td>
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<td>Cool only, sealed hot side fans &amp; power supply</td>
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<td>NEMA-4, IP 56</td>
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<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
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<td>AHP-6263X</td>
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<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
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<td>0-K5JD-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
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</tbody>
</table>

* Consult factory

## INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

## 250 VDC configuration for crane applications available
PERFORMANCE CURVE

Air Flow Pattern

Equation of line: \[ y = \Delta T (\text{°C}) = \text{Capacity (Watts)} \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( 0.23x - 38.1 )</td>
<td>( 0.23x - 40 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( 0.15x - 38.1 )</td>
<td>( 0.15x - 40 )</td>
</tr>
</tbody>
</table>

DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimension: Inches [Millimeters]

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# AHP-6253 Air Conditioner/Heat Exchanger

**Air Cooled**  
**Through Mounted**  
**Nema-12, 4, 4X**  
**High Capacity**  
**5080 BTU/HR**

## Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller (optional remote control *)
- Weight 180 LBS.

## Control Temperatures
| Active Cooling | 35 °C |
| Heat Exchanger (ECO-Mode) | 25 °C |
| Active Heating | 10 °C |
| Typical Hysteresis | 5 °C |
| Operating Ambient | -40/+65 °C |
| Operating Enclosure | -10/+60 °C |

## Power Inputs
- Voltage, 3 Phase Delta: 240 VAC
- Current, Active: 5.5 AMPS
- Current, ECO-Mode: 1.5 AMP
- Frequency: 50/60 Hz

## Performance Ratings
- Cooling (Traditional): 5080 BTU/HR
- Cooling (Din 3168): 1490 WATTS
- Cooling COP (at L35 L35): 0.65
- Heating (Traditional): > 7800 BTU/HR
- Heating (Din 3168): > 2290 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-mode): 40 W/°C

## Configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-6253</td>
<td>0-K4JD-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-6253HC</td>
<td>0-K4HD-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-6253XE</td>
<td>0-K4JD-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-6253XHC</td>
<td>0-K4HD-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-6253X</td>
<td>0-K4JD-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-6253XHC</td>
<td>0-K4HD-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* Consult factory

## Includes
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
### AHP-6253

**Mounting Style**
- Through Mounted

**Environments Served**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**Rating (Traditional)**
- 5080 BTU/hr @ 0°F ΔT
- 6730 BTU/hr @ +20°F ΔT

**Rating (DIN 3168)**
- 1490 Watts L35 L35
- 895 Watts L35 L50

---

#### Performance Curve

Equation of line: \( y = \Delta T \) (°C) \( = \) Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.23x - 34.3 )</td>
<td>( y = 0.23x - 35.6 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.15x - 34.3 )</td>
<td>( y = 0.15x - 35.6 )</td>
</tr>
</tbody>
</table>

---

#### Dimensions

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimension: Inches [Millimeters]

---

www.teca-eu.com  1-888-TECA-USA (832-2872)
AHP-6252 Air Conditioner/Heat Exchanger

**FEATURES**
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 170 LBS.

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

**POWER INPUTS**

<table>
<thead>
<tr>
<th>Power Type</th>
<th>Voltage</th>
<th>Current, Active</th>
<th>Current, ECO-Mode</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>240 VAC</td>
<td>9.2 AMPS</td>
<td>1.5 AMP</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Rating Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>5196 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>1524 WATTS</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 7365 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 2160 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-mode)</td>
<td>45 W/°C</td>
</tr>
</tbody>
</table>

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-6252</td>
<td>0-K4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-6252HC</td>
<td>0-K4J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-6252XE</td>
<td>0-K4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-6252XEH</td>
<td>0-K4J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-6252X</td>
<td>0-K4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-6252XHC</td>
<td>0-K4J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

**INCLUDES**

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**
**PERFORMANCE CURVE**

- **Equation of line:** \( y = -\Delta T \, ^\circ C \) \( x \) = Capacity (Watts)
- Enclosure Air: \( y = 0.021x - 32 \)
- Cold Sink: \( y = 0.015x - 32 \)

**DIMENSIONS**

- (30) 10-32 Studs
- 9.89 [251]
- Input Cord
- Circuit Breaker
- 4.95 [128]
- 37.00 [940]
- 20.52 [521]
- 3.77 [96]
- 4.64 [118]

**Mounting Cutout**
- 19.00 X 35.30 [483 x 901]

**ENVIRONMENTS SERVED**
- NEMA-12      IP 52
- NEMA-4,4X   IP 56

**RATING (TRADITIONAL)**
- 5200 BTU/hr @ 0 °F \( \Delta T \)
- 7000 BTU/hr @ +20 °F \( \Delta T \)

**RATING (DIN 3168)**
- 1524 Watts L35 L35
- 800 Watts L35 L50

**MOUNTING STYLE**
- Through Mounted

**AHP-6252**

**Air Conditioner - Air Cooled**

- Air Flow Pattern

**Catalog 2012 AC.qxp  10/26/2012  11:12 AM  Page 9**
AHP-6250 Air Conditioner/Heat Exchanger

**FEATURES**
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 170 LBS.

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Mode</th>
<th>TEMPERATURE CONTROL</th>
<th>TEMPERATURE NOTES</th>
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</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
<td></td>
</tr>
<tr>
<td>Heat Exchanger</td>
<td>25 °C</td>
<td></td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
<td></td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
<td></td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
<td></td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
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**POWER INPUTS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC</th>
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<tbody>
<tr>
<td>Current</td>
<td>14 AMPS</td>
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<tr>
<td>Current, ECO-Mode</td>
<td>3.0 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
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</table>

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Mode</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>4340 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>1273 WATTS</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 5524 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 1620 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-mode)</td>
<td>45 W/°C</td>
</tr>
</tbody>
</table>

**INCLUDES**

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**
PERFORMANCE CURVE

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

- Enclosure Air: \( y = 0.022x - 28 \)
- Cold Sink: \( y = 0.016x - 28 \)

DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimension: Inches [Millimeters]

- External Hot Side Fans
- Mounting Surface

- (30) 10-32 Studs
- 9.89 [251]
- 4.95 [128]
- 37.00 [940]
- 35.08 [891]
- 20.52 [521]
- 3.77 [96]
- 4.64 [118]

- Input Cord
- Circuit Breaker
- 1.00 [25]
- 5.00 [127]
- 7.00 [178]
- 11.00 [281]
- 15.00 [381]
- 16.10 [410]
- 19.00X35.30 [483X997]

Air Conditioner - Air Cooled

AHP-6250

MOUNTING STYLE
Through Mounted

ENVIRONMENTS SERVED
- NEMA-12 IP 52
- NEMA-4,4X IP 56

RATING (TRADITIONAL)
- 4340 BTU/hr @ 0 °F \( \Delta T \)
- 6060 BTU/hr @ +20 °F \( \Delta T \)

RATING (DIN 3168)
- 1273 Watts L35 L35
- 600 Watts L35 L50
AHP-4252 Air Conditioner/Heat Exchanger

- Air Cooled
- Through Mounted
- Nema-12, 4, 4X
- 240 VAC Input
- High Capacity
- 3810 BTU/HR

**FEATURES**
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 110 LBS.

**CONTROL TEMPERATURES**
- Active Cooling: 35 °C
- Heat Exchanger (ECO-Mode): 25 °C
- Active Heating: 10 °C
- Typical Hysteresis: 5 °C
- Operating Ambient: -40/+65 °C
- Operating Enclosure: -10/+60 °C

**POWDER INPUTS**
- Voltage: 240 VAC
- Current, Active: 12.5 AMPS
- Current, ECO-Mode: 0.9 AMP
- Frequency: 50/60 Hz

**PERFORMANCE RATINGS**
- Cooling (Traditional): 3810 BTU/HR
- Cooling (Din 3168): 1120 WATTS
- Cooling COP (at L35 L35): 0.37
- Heating (Traditional): > 12000 BTU/HR
- Heating (Din 3168): > 3600 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 30 W/°C

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-4252</td>
<td>0-J5J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4252HC</td>
<td>0-J5J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4252XE</td>
<td>0-J5J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4252XEH</td>
<td>0-J5J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4252X</td>
<td>0-J5J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-4252XHC</td>
<td>0-J5J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**
**AHP-4252**

**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
- 3810 BTU/hr @ 0 °F ΔT
- 4960 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 1120 Watts L35 L35
- 720 Watts L35 L50

---

**Equation of line: y=ΔT(°C) x=Capacity (Watts)**

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>y=0.033x-36.9</td>
<td>y=0.033x-38.9</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>y=0.025x-36.9</td>
<td>y=0.025x-38.9</td>
</tr>
</tbody>
</table>

---

**DIMENSIONS**

Dimensions do not include hardware. Mounting hardware and gasket included but not shown. Dimensions: Inches [Millimeters]

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AHP-4252 Air Conditioner/Heat Exchanger

- **Through Mounted**
- **High Efficiency**
- **240 VAC Input**
- **Nema-12, 4, 4X**
- **2780 BTU/HR**

### Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 110 LBS.

### Control Temperatures
- **Active Cooling**: 35 °C
- **Heat Exchanger (ECO-Mode)**: 25 °C
- **Active Heating**: 10 °C
- **Typical Hysteresis**: 5 °C
- **Operating Ambient**: -40/+65 °C
- **Operating Enclosure**: -10/+60 °C

### Power Inputs
- **Voltage**: 240 VAC
- **Current, Active**: 4.0 AMPs
- **Current, ECO-Mode**: 0.9 AMP
- **Frequency**: 50/60 Hz

### Performance Ratings
- **Cooling (Traditional)**: 2780 BTU/HR
- **Cooling (Din 3168)**: 815 WATTS
- **Cooling COP (at L35 L35)**: 0.85
- **Heating (Traditional)**: > 3270 BTU/HR
- **Heating (Din 3168)**: > 960 WATTS
- **Heating COP**: > 1.0
- **Heat Exchanger (ECO-Mode)**: 30 W/°C

### Configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-4252</td>
<td>0-J4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4252HC</td>
<td>0-J4J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4252XE</td>
<td>0-J4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4252XEH</td>
<td>0-J4J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4252X</td>
<td>0-J4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-4252XHC</td>
<td>0-J4J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

### Includes
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
**Equation of line: \( y = \Delta T(\degree C) \) vs. Capacity (Watts)**

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.034x - 27.7 )</td>
<td>( y = 0.034x - 29.1 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.026x - 27.7 )</td>
<td>( y = 0.026x - 29.1 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **External Hot Side Fans**
- **Internal Cold Side Fans**
- **Mounting Surface**
- **Circuit Breaker**
- **Input Cord**
- **Mounting Cutout**

Dimensions do not include hardware.
Mounting hardware and gasket included but not shown.
Dimensions: Inches [Millimeters]

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1-888-TECA-USA (832-2872)
# AHP-4250 Air Conditioner/Heat Exchanger

Through Mounted Nema-12, 4, 4X

## Configuration Table

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-4250</td>
<td>0-J4J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>AHP-4250HC</td>
<td>0-J4I0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-4250XE</td>
<td>0-J4J0-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4250XEH</td>
<td>0-J4J0-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-4250X</td>
<td>0-J4J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-4250XHC</td>
<td>0-J4I0-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

## Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 110 LBS.

## Control Temperatures
- **Active Cooling**: 35 °C
- **Heat Exchanger (ECO-Mode)**: 25 °C
- **Active Heating**: 10 °C
- **Typical Hysteresis**: 5 °C
- **Operating Ambient**: -40/+65 °C
- **Operating Enclosure**: -10/+60 °C

## Power Inputs
- **Voltage**: 120 VAC
- **Current, Active**: 6 AMPS
- **Current, ECO-Mode**: 1.7 AMP
- **Frequency**: 50/60 Hz

## Performance Ratings
- **Cooling (Traditional)**: 2490 BTU/HR
- **Cooling (Din 3168)**: 730 WATTS
- **Cooling COP (at L35 L35)**: 0.98
- **Heating (Traditional)**: > 2455 BTU/HR
- **Heating (Din 3168)**: > 720 WATTS
- **Heating COP**: > 1.0
- **Heat Exchanger (ECO-Mode)**: 30 W/°C

## Includes
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

## 250 VDC Configuration for Crane Applications Available

250 VDC configuration for crane applications available.
**PERFORMANCE CURVE**

- **Equation of line:** \( y = \Delta T \text{(°C)} \times x = \text{Capacity (Watts)} \)
  - Ambient Temp: 35°C  50°C
  - Enclosure Air: \( y = 0.035x - 25.6 \)  \( y = 0.027x - 25.6 \)
  - Cold Sink: \( y = 0.027x - 25.6 \)  \( y = 0.027x - 26.6 \)

**DIMENSIONS**

- **Mounting Surface:** 18.79 [477]
- **Internal Cold Side Fans:** 4.64 [118]
- **External Hot Side Fans:** 20.52 [521]

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

**MOUNTING STYLE**
- Through Mounted

**ENVIRONMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4X  IP 56

**RATING (TRADITIONAL)**
- 2490 BTU/hr @ 0 °F \( \Delta T \)
- 3575 BTU/hr @ +20 °F \( \Delta T \)

**RATING (DIN 3168)**
- 730 Watts L35 L35
- 320 Watts L35 L50

**Air Conditioner - Air Cooled**

**AHP-4250**

**Air Flow Pattern**

[Diagram of Air Flow Pattern]

**PERFORMANCE CURVE**

[Graph showing performance curve]

**Mounting Cutout**
- 23.20x18.90 [589x480]

[Diagram showing mounting cutout]

[Diagram showing dimensions]

[Diagram showing mounting surface and fans]

www.teca-eu.com  1-888-TECA-USA (832-2872)
AHP-3253 Air Conditioner/Heat Exchanger

Through Mounted
Nema-12, 4, 4X

3 Phase, 240 VAC, 3 Wire Delta
High Efficiency
2973 BTU/HR

FEATURES

- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 88 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>MODE</th>
<th>TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

Voltage, 3 Phase Delta | 240 VAC |
Current, Active (per phase) | 2.9 AMPS |
Current, ECO-Mode | 0.70 AMP |
Frequency | 50/60 Hz |

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>MODE</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>2973 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>872 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.72</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 4100 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 1205 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>18 W/°C</td>
</tr>
</tbody>
</table>

INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-3253</td>
<td>0-I4JD-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-3253HC</td>
<td>0-I4ID-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-3253XE</td>
<td>0-I4JD-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-3253XEHC</td>
<td>0-I4ID-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-3253X</td>
<td>0-I4JD-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
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<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
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<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

TECA
1-888-TECA-USA (832-2872)
www.teca-usa.com
**AHP-3253**

**MOUNTING STYLE**
Through Mounted

**ENvironments SERVED**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
- 2973 BTU/hr @ 0 °F ΔT
- 3945 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 872 Watts L35 L35
- 480 Watts L35 L50

---

**PERFORMANCE CURVE**

Equation of line: \( y = \Delta T (°C) \), \( x = \text{Capacity (Watts)} \)

- Enclosure Air: \( y = 0.039x - 34.02 \)
- Cold Sink: \( y = 0.029x - 34.02 \)

---

**DIMENSIONS**

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

Mounting Cutout: 17.20X18.90 [437X480]

---

www.teca-eu.com 1-888-TECA-USA (832-2872)
AHP-3254 Air Conditioner/Heat Exchanger

Through Mounted
Nema-12, 4, 4X

3 Phase, 208 VAC, 4 Wire Wye
High Efficiency
2686 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 88 LBS.

CONTROL TEMPERATURES

| Active Cooling | 35 °C |
| Heat Exchanger (ECO-Mode) | 25 °C |
| Active Heating | 10 °C |
| Typical Hysteresis | 5 °C |
| Operating Ambient | -40/+65 °C |
| Operating Enclosure | -10/+60 °C |

POWER INPUTS

| Voltage, 3 Phase Wye | 208 VAC |
| Current, Active (per phase) | 2.6 AMPS |
| Current, ECO-Mode | 0.70 AMP |
| Frequency | 50/60 Hz |

PERFORMANCE RATINGS

| Cooling (Traditional) | 2686 BTU/HR |
| Cooling (Din 3168) | 787 WATTS |
| Cooling COP (at L35 L35) | 0.84 |
| Heating (Traditional) | > 3294 BTU/HR |
| Heating (Din 3168) | > 937 WATTS |
| Heating COP | > 1.0 |
| Heat Exchanger (ECO-Mode) | 18 W/°C |

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

ECO Mode vs Active Mode

INCLUDES
- Cool only, industrial fans & power supply
- Heat/Cool, industrial fans & power supply
- Cool only, sealed hot side fans & power supply
- Heat/Cool, sealed hot side fans & power supply
- Cool only, Mil. grade hot side fans & power supply
- Heat/Cool, Mil. grade hot side fans & power supply

TECA
1-888-TECA-USA (832-2872)
www.teca-usa.com
PERFORMANCE CURVE

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

- Enclosure Air  $y = 0.041x - 32.3$
- Cold Sink  $y = 0.030x - 32.3$

MOUNTING STYLE
Through Mounted

ENVIRONMENTS SERVED
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

RATING (TRADITIONAL)
- 2686 BTU/hr @ 0 °F $\Delta T$
- 3610 BTU/hr @ +20 °F $\Delta T$

RATING (DIN 3168)
- 788 Watts L35 L35
- 420 Watts L35 L50

DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

www.teca-eu.com  1-888-TECA-USA (832-2872)
**AHP-3252**

**Air Conditioner/Heat Exchanger**

- Air Cooled
- Through Mounted
- Nema-12, 4, 4X
- 240 VAC Input
- High Efficiency
- 2610 BTU/HR

### FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 88 LBS.

### CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

### POWER INPUTS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>240 VAC</td>
</tr>
<tr>
<td>Current, Active</td>
<td>4.6 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>0.70 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

### PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Rating</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>2610 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>765 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.70</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 3765 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 1104 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>18 W/°C</td>
</tr>
</tbody>
</table>

### CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-3252</td>
<td>0-I4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-3252HC</td>
<td>0-I4I2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-3252XE</td>
<td>0-I4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-3252XEHC</td>
<td>0-I4I2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-3252X</td>
<td>0-I4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-3252XHC</td>
<td>0-I4I2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**
AHP-3252

Mounting Style

Through Mounted

Environments Served

NEMA-12 IP 52
NEMA-4,4X IP 56

Rating (Traditional)

2610 BTU/hr @ 0 °F ΔT
3515 BTU/hr @ +20 °F ΔT

Rating (DIN 3168)

765 Watts L35 L35
430 Watts L35 L50

Equation of line: \( y = \Delta T \text{°C} = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.042x - 32.2 )</td>
<td>( y = 0.042x - 33.3 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.031x - 32.2 )</td>
<td>( y = 0.031x - 33.3 )</td>
</tr>
</tbody>
</table>

Dimensions

- Internal Cold Side Fans: 4.64 [118]
- 2.00 [51]
- 9.10 [231]
- 8.00 [152]
- External Hot Side Fans: 20.62 [521]
- Mounting Surface: 19.02 [483]
- Circuit Breaker: 18.79 [477]
- Input Cord: 8.54 [217]
- Mounting Cutout: 17.20X18.90 [437X480]

Dimensions do not include hardware
Mounting hardware and gasket included but not shown

Dimensions: Inches [Millimeters]

www.teca-eu.com  1-888-TECA-USA (832-2872)
AHP-3250 Air Conditioner/Heat Exchanger

**FEATURES**
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 88 LBS.

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
<td></td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
<td></td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
<td></td>
</tr>
<tr>
<td>Typical Hysteresis</td>
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<td></td>
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<td>-40/-65 °C</td>
<td></td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/-60 °C</td>
<td></td>
</tr>
</tbody>
</table>

**POWER INPUTS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current, Active</td>
<td>7.0 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>1.4 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>2250 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>660 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.78</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 2780 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 815 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>18 W/°C</td>
</tr>
</tbody>
</table>

**INCLUDES**

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**

**CONNECTIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-3250</td>
<td>0-I4J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-3250HC</td>
<td>0-I4I0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
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</tr>
</tbody>
</table>

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
**PERFORMANCE CURVE**

Equation of line: \( y = \Delta T \) (°C) = Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( 0.043x - 28.3 )</td>
<td>( 0.043x - 29.2 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( 0.032x - 28.3 )</td>
<td>( 0.032x - 29.2 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

---

**Air Conditioner - Air Cooled**

**AHP-3250**

**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**
- NEMA-12 IP 52
- NEMA-4,4X IP 56

**RATING (TRADITIONAL)**
- 2250 BTU/hr @ 0 °F \( \Delta T \)
- 3130 BTU/hr @ +20 °F \( \Delta T \)

**RATING (DIN 3168)**
- 660 Watts L35 L35
- 330 Watts L35 L50

---

**Air Flow Pattern**
AHP-2252 Air Conditioner/Heat Exchanger

**FEATURES**
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 60 LBS.

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

**POWER INPUTS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>240 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current, Active</td>
<td>6.5 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>0.5 AMPS</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Cooling (Traditional)</th>
<th>Heating (Traditional)</th>
<th>Heat Exchanger (ECO-Mode)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2060 BTU/HR</td>
<td>&gt; 5320 BTU/HR</td>
<td>12.5 W/°C</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>605 WATTS</td>
<td>&gt; 1560 WATTS</td>
<td></td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.4</td>
<td>&gt; 1.0</td>
<td></td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL RATING**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-2252</td>
<td>0-H5J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2252HC</td>
<td>0-H5J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2252XE</td>
<td>0-H5J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2252XEHC</td>
<td>0-H5J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2252X</td>
<td>0-H5J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-2252XHC</td>
<td>0-H5J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

250 VDC configuration for crane applications available

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker
**AHP-2252**

**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**
- NEMA-12     IP 52
- NEMA-4,4X    IP 56

**RATING (TRADITIONAL)**
- 2060 BTU/hr @ 0 °F ΔT
- 2680 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 605 Watts L35 L35
- 395 Watts L35 L50

---

**PERFORMANCE CURVE**

**Equation of line: y=\Delta T(°C)  x=Capacity (Watts)**

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>y=0.061x-36.9</td>
<td>y=0.061x-39</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>y=0.045x-36.9</td>
<td>y=0.045x-39</td>
</tr>
</tbody>
</table>

---

**DIMENSIONS**

- **External Hot Side Fans**
  - Dimensions: Inches [Millimeters]
  - 13.02 [331]
  - 4.64 [118]

- **Mounting Surface**
  - Internal Cold Side Fans
  - (14) 10-32 Studs
  - Dimensions: Inches [Millimeters]
  - 3.77 [96]

- **Input Cord**
  - Dimensions: Inches [Millimeters]
  - 2.03 [52]

- **Mounting Cutout Dimensions**
  - Dimensions: Inches [Millimeters]
  - 9.89 [251]
  - 4.46 [113]
  - 4.96 [126]

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

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Air Conditioner - Air Cooled
AHP-2250 Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X

120 VAC Input High Capacity 1880 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 60 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>120 VAC</td>
</tr>
<tr>
<td>Current, Active</td>
<td>10.8 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>1 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>1880 BTU/HR</td>
</tr>
<tr>
<td>Cooling (DIN 3168)</td>
<td>550 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.42</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 4000 BTU/HR</td>
</tr>
<tr>
<td>Heating (DIN 3168)</td>
<td>&gt; 1200 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>12.5 W/°C</td>
</tr>
</tbody>
</table>

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-22250</td>
<td>0-H5J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-22250HC</td>
<td>0-H5J0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-22250XE</td>
<td>0-H5J0-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-22250XEHC</td>
<td>0-H5J0-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-22250X</td>
<td>0-H5J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-22250XHC</td>
<td>0-H5J0-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
Equation of line: \( y = \Delta T \text{ (°C)} \) \( x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.062x - 34.2 )</td>
<td>( y = 0.062x - 35.4 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.046x - 34.2 )</td>
<td>( y = 0.046x - 35.4 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

**MOUNTING CUTOUT DIMENSIONS**

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
AHP-2250 Air Conditioner/Heat Exchanger

**FEATURES**
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 60 LBS.

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Control</th>
<th>Temperature</th>
</tr>
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<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+/65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+/60 °C</td>
</tr>
</tbody>
</table>

**POWER INPUTS**

- Voltage: 120 VAC
- Current, Active: 3.6 AMPS
- Current, ECO-Mode: 1 AMP
- Frequency: 50/60 Hz

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Cooling (Traditional)</th>
<th>Cooling (Din 3168)</th>
<th>Cooling COP (at L35 L35)</th>
<th>Heating (Traditional)</th>
<th>Heating (Din 3168)</th>
<th>Heating COP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1400 BTU/HR</td>
<td>410 WATTS</td>
<td>0.95</td>
<td>&gt; 1640 BTU/HR</td>
<td>&gt; 480 WATTS</td>
<td>&gt; 1.0</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-2250</td>
<td>0-H4J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2250HC</td>
<td>0-H4J1-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2250XE</td>
<td>0-H4J0-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2250XEHC</td>
<td>0-H4J0-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2250X</td>
<td>0-H4J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-2250XHC</td>
<td>0-H4J0-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

250 VDC configuration for crane applications available

TECA | 1-888-TECA-USA (832-2872) | www.teca-usa.com
**AHP-2250**

**MOUNTING STYLE**
- Through Mounted

**ENVIRONMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
- 1400 BTU/hr @ 0 °F ΔT
- 1990 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 410 Watts L35 L35
- 180 Watts L35 L50

---

**DIMENSIONS**

**PERFORMANCE CURVE**

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.063x - 25.7 )</td>
<td>( y = 0.063x - 26.5 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.047x - 25.7 )</td>
<td>( y = 0.047x - 26.5 )</td>
</tr>
</tbody>
</table>
**AHP-2250**

**Air Conditioner/Heat Exchanger**

**Air Cooled**

**Through Mounted**

**Nema-12, 4, 4X**

**24 VDC Input**

**High Efficiency**

**1420 BTU/HR**

### FEATURES

- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 60 LBS.

### CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

### POWER INPUTS

<table>
<thead>
<tr>
<th>Voltage</th>
<th>24 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current, Active</td>
<td>15 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>1.9 AMPS</td>
</tr>
</tbody>
</table>

### PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Mode</th>
<th>BTU/HR</th>
<th>Watts</th>
<th>COP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional Cooling</td>
<td>1420</td>
<td>417</td>
<td>1.16</td>
</tr>
<tr>
<td>Din 3168 Cooling</td>
<td>&gt; 1220</td>
<td>&gt; 417</td>
<td>&gt; 1.16</td>
</tr>
<tr>
<td>L35 L35 Cooling COP (at)</td>
<td></td>
<td></td>
<td>1.16</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating COP</td>
<td></td>
<td></td>
<td>1.16</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td></td>
<td></td>
<td>12.5 W/°C</td>
</tr>
</tbody>
</table>

**INCLUDES**

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**

---

**CONGRIDUATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-2250</td>
<td>0-H4J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2250HC</td>
<td>0-H4I5-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-2250X</td>
<td>0-H4J5-4-000</td>
<td>Cool only, sealed hot side fans</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2250XHC</td>
<td>0-H4I5-5-000</td>
<td>Heat/Cool, sealed hot side fans</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-2250X</td>
<td>0-H4J5-2-000</td>
<td>Cool only, Mil. grade hot side fans</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-2250XHC</td>
<td>0-H4I5-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

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1-888-TECA-USA (832-2872)  
www.teca-usa.com
Air Conditioner - Air Cooled

AHP-2250

MOUNTING STYLE
Through Mounted

ENVIRONMENTS SERVED
NEMA-12  IP 52
NEMA-4,4X  IP 56

RATING (TRADITIONAL)
1420 BTU/hr @ 0 °F ΔT
1990 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)
417 Watts  L35 L35
270 Watts  L35 L50

PERFORMANCE CURVE

Equation of line: \( y = \Delta T(°C) \) \( x = \) Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp.</th>
<th>35 °C</th>
<th>50 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.066x - 27.5 )</td>
<td>( y = 0.066x - 28.3 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.05x - 27.5 )</td>
<td>( y = 0.05x - 28.3 )</td>
</tr>
</tbody>
</table>

DIMENSIONS

MOUNTING CUTOUT DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
# AHP-1800

**Air Conditioner**

120 VAC, 240 VAC Input

1100 BTU/HR

## FEATURES
- Compact, (18” L X 12.35” W X 9.69” D)
- Excels in high ambient temperatures
- Environmentally Safe
- Dual voltage versions available, consult factory.
- 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
- Easy to use Pivot Clean feature
- Agency approvals: UL 1995, CSA 22.2, CE

## INCLUDES
- Temperature control
- Mounting gasket and hardware
- Power input line cord

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

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>VOLTAGE VAC 50/60 HZ</th>
<th>CURRENT AMPS</th>
<th>WEIGHT LBS.(KG)</th>
<th>TEMP CONTROL</th>
<th>OPERATING AMBIENT TEMPERATURE RANGE °C</th>
<th>OPERATING ENCLOSURE TEMPERATURE RANGE °C</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1800</td>
<td>0-0180-0-000</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-6F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800</td>
<td>0-0150-0-000</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>EXT*</td>
<td>-40/+65</td>
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</tr>
<tr>
<td>AHP-1800HC</td>
<td>0-0130-1-000</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>EXT*</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1801</td>
<td>0-0182-0-000</td>
<td>240</td>
<td>5.0</td>
<td>46(21)</td>
<td>TC-6F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1802</td>
<td>0-0152-0-000</td>
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<td>5.0</td>
<td>46(21)</td>
<td>EXT*</td>
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<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1802</td>
<td>0-01F2-0-000</td>
<td>240</td>
<td>5.0</td>
<td>46(21)</td>
<td>TC-1F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1802HC</td>
<td>0-0132-1-000</td>
<td>240</td>
<td>5.0</td>
<td>46(21)</td>
<td>TC-3F</td>
<td>-40/+65</td>
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<tr>
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<td>0-0131-1-000</td>
<td>120/240</td>
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<tr>
<td>AHP-1800XE</td>
<td>0-0180-4-000</td>
<td>120</td>
<td>8.0</td>
<td>47(21.4)</td>
<td>TC-6F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-4</td>
</tr>
<tr>
<td>AHP-1800XE</td>
<td>0-0150-4-000</td>
<td>120</td>
<td>8.0</td>
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<tr>
<td>AHP-1801</td>
<td>0-0182-4-000</td>
<td>240</td>
<td>5.0</td>
<td>52(23.6)</td>
<td>TC-6F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-4</td>
</tr>
<tr>
<td>AHP-1802</td>
<td>0-0152-4-000</td>
<td>240</td>
<td>5.0</td>
<td>52(23.6)</td>
<td>EXT*</td>
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<tr>
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<td>0-01F2-4-000</td>
<td>240</td>
<td>5.0</td>
<td>52(23.6)</td>
<td>TC-1F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-4</td>
</tr>
<tr>
<td>AHP-1802XE</td>
<td>0-0132-5-000</td>
<td>240</td>
<td>5.0</td>
<td>52(23.6)</td>
<td>TC-3F</td>
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<td>-10/+60</td>
<td>NEMA-4</td>
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<tr>
<td>AHP-1802XE</td>
<td>0-0152-5-000</td>
<td>240</td>
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<td>52(23.6)</td>
<td>EXT*</td>
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<tr>
<td>AHP-1800X</td>
<td>0-0180-2-000</td>
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<td>0-01F0-2-000</td>
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<tr>
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<td>0-0150-3-000</td>
<td>120</td>
<td>8.0</td>
<td>47(21.4)</td>
<td>EXT*</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
<tr>
<td>AHP-1801X</td>
<td>0-0181-2-0000</td>
<td>120/240</td>
<td>8.0/6.0</td>
<td>47(21.4)</td>
<td>TC-6F</td>
<td>-40/+65</td>
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</tr>
<tr>
<td>AHP-1801X</td>
<td>0-01F1-2-000</td>
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</tr>
<tr>
<td>AHP-1801XHC</td>
<td>0-0131-3-000</td>
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<td>TC-3F</td>
<td>-40/+65</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
</tbody>
</table>

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

Consult factory for shock and vibration models
### PERFORMANCE CURVE

#### Equation of line: \( y = D T \)  
\( x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = .122x - 37.0 )</td>
<td>( y = .122x - 39.7 )</td>
<td>( y = .122x - 42.3 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = .09x - 37.0 )</td>
<td>( y = .09x - 39.7 )</td>
<td>( y = .09x - 42.3 )</td>
</tr>
</tbody>
</table>

### DIMENSIONS

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

### MOUNTING CUTOUT DIMENSIONS

- Input Power Cable: 12.35 [314] *
- External Hot Side Fans: 18.00 [457]
- Mounting Surface: 16.44 [418] *
- Temperature Adjustment (TC-6F models only): 8.63 [219]
- (8) 10-32 Studs: 1.34 [34]
- 8X00.218 [Ø6]: 1.34 [34]
- Circuit Breakers (VAC models only): 4.34 [110]
- Terminal Strip (1801 models only): 4.34 [110]

### MOUNTING STYLE

Through Mounted

### ENVIRONMENTS SERVED

- NEMA-12 IP 52
- NEMA-4,4X IP 56

### RATING (TRADITIONAL)

- 1100 BTU/hr @ 0 °F \( D_T \)
- 1420 BTU/hr @ +20 °F \( D_T \)

### RATING (DIN 3168)

- 322 Watts L35 L35
- 210 Watts L35 L50
AHP-1800 Air Conditioner

**FEATURES**
- High capacity thermoelectric design
- Lower profile intrusion into enclosure
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 12%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Operating ambient temperature range -40/+65 °C
- Operating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 55 LBS.

**POWER INPUTS**
- Voltage 24 VDC
- Current, Active 18 AMPS
- Current, ECO-Mode 1.9 AMPS

**PERFORMANCE RATINGS**
- Cooling (Traditional) 1100 BTU/HR
- Cooling (Din 3168) 322 WATTS
- Cooling COP (at L35 L35) 0.74
- Heating (Traditional) > 1473 BTU/HR
- Heating (Din 3168) > 432 WATTS
- Heating COP > 1.0

**INCLUDES**
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1800</td>
<td>0-0195-0-000</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800</td>
<td>0-0185-0-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800</td>
<td>0-01F5-0-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800</td>
<td>0-0155-0-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800HC</td>
<td>0-0135-1-000</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800HC</td>
<td>0-0115-1-000</td>
<td>Heat/Cool</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800HC</td>
<td>0-0155-1-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1800HC</td>
<td>0-0115-1-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
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<tr>
<td>AHP-1800XE</td>
<td>0-0195-4-000</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>AHP-1800XE</td>
<td>0-0185-4-000</td>
<td>Cool only</td>
<td>TC-6F</td>
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<td>AHP-1800XE</td>
<td>0-01F5-4-000</td>
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<td>AHP-1800XEHC 0-0135-5-000</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-4, IP 56</td>
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</tr>
<tr>
<td>AHP-1800XEHC 0-0115-5-000</td>
<td>Heat/Cool</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
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</tr>
<tr>
<td>AHP-1800XEHC 0-0155-5-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
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</tr>
<tr>
<td>AHP-1800XEHC 0-0115H-5-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
<td>NEMA-4, IP 56</td>
<td></td>
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<tr>
<td>AHP-1800X   0-0195-2-000</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-4X, IP 56</td>
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<tr>
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<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-4X, IP 56</td>
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<td>AHP-1800X   0-01F5-2-000</td>
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<td></td>
</tr>
</tbody>
</table>

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

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Temp. Control</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-7F</td>
<td>10</td>
<td>25</td>
<td>35</td>
</tr>
</tbody>
</table>

**250 VDC configuration for crane applications available**

**250 VDC configuration for crane applications available**

* Consult factory for full shock and vibration models
**Equation of line: y = DT (°C) x = Capacity (Watts)**

<table>
<thead>
<tr>
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<td>y = 0.129x - 38.1</td>
<td>y = 0.129x - 40.1</td>
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<td>Cold Sink</td>
<td>y = 0.09x - 38.1</td>
<td>y = 0.09x - 40.1</td>
<td>y = 0.09x - 42.0</td>
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**DIMENSIONS**

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

**MOUNTING CUTOUT DIMENSIONS**

Circuit Breakers (VAC models only)
Terminal Strip (1801 models only)

**AHP-1800**

**MOUNTING STYLE**

Through Mounted

**ENVIRONMENTS SERVED**

- NEMA-12 IP 52
- NEMA-4,4X IP 56

**RATING (TRADITIONAL)**

- 1100 BTU/hr @ 0 °F D T
- 1420 BTU/hr @ +20 °F D T

**RATING (DIN 3168)**

- 322 Watts L35 L35
- 210 Watts L35 L50
**AHP-1800 Hazardous Location Air Conditioner**

**Air Cooled Through Mounted**

NEMA-12, 4X, Class I Div 2 Hazardous Locations

### FEATURES
- Compact, (18” L X 12.35” W X 9.69”D)
- Excels in high ambient temperatures
- Environmentally Safe
- Dual voltage versions available, consult factory.
- 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
- Easy to use Pivot Clean feature
- Agency approvals: UL 1604, UL 1995, CSA 22.2

### INCLUDES
- Adjustable temperature control
- Mounting gasket and hardware
- Power input line cord

### OPTIONS
- Other temperature settings for single set point controls

### SPECIFICATIONS

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<th>MODEL</th>
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<th>WEIGHT LBS.(KG)</th>
<th>TEMP CONTROL</th>
<th>OPERATING AMBIENT TEMPERATURE RANGE °C</th>
<th>OPERATING ENCLOSURE TEMPERATURE RANGE °C</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1800EP</td>
<td>0-0180-0-002</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-6F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800EP</td>
<td>0-01F0-0-002</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-1F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800EP-1</td>
<td>0-0170-0-004</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800EPC</td>
<td>0-0130-1-003</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-3F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800EPCHC</td>
<td>0-0170-1-006</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800EP</td>
<td>0-0181-0-002</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-6F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1801EP</td>
<td>0-01F1-0-002</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-1F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1801EP-1</td>
<td>0-0171-0-002</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1801EPCHC</td>
<td>0-0131-1-003</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>TC-3F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1801EP-1</td>
<td>0-0131-1-006</td>
<td>120</td>
<td>8.0</td>
<td>46(21)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1800EP</td>
<td>0-0180-2-002</td>
<td>120/240</td>
<td>8.0/5.0</td>
<td>47(21.4)</td>
<td>TC-6F</td>
<td>-40/+75</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
<tr>
<td>AHP-1800EP</td>
<td>0-01F0-2-002</td>
<td>120/240</td>
<td>8.0/5.0</td>
<td>47(21.4)</td>
<td>TC-1F</td>
<td>-40/+75</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
<tr>
<td>AHP-1800EP-1</td>
<td>0-0170-2-004</td>
<td>120</td>
<td>8.0</td>
<td>47(21.4)</td>
<td>EXT*</td>
<td>-40/+75</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
<tr>
<td>AHP-1800EPHC</td>
<td>0-0130-3-003</td>
<td>120</td>
<td>8.0</td>
<td>47(21.4)</td>
<td>TC-3F</td>
<td>-40/+75</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
<tr>
<td>AHP-1800EPHC-1</td>
<td>0-0170-3-006</td>
<td>120</td>
<td>8.0</td>
<td>47(21.4)</td>
<td>EXT*</td>
<td>-40/+75</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
</tbody>
</table>

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

Consult factory for shock and vibration models
**Equation of line:** y = -0.122x + 37.0

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>y = 122x - 37.0</td>
<td>y = 122x - 39.7</td>
<td>y = 122x - 42.3</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>y = 0.09x - 37.0</td>
<td>y = 0.09x - 39.7</td>
<td>y = 0.09x - 42.3</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

* Dimension does not include hardware and sealant. Mounting hardware and gasket included but not shown.

 Dimensions: Inches [Millimeters]

---

**MOUNTING CUTOUT DIMENSIONS**

- 8x0.218 (Ø6)
- 10.90 [277]
- 1.34 [34]

---

**PERFORMANCE CURVE**

- 20°C (68°F) Ambient
- 40°C (104°F) Ambient
- 60°C (140°F) Ambient

---

**ENVIRONMENTS SERVED**

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

**RATING (TRADITIONAL)**

- 1100 BTU/hr @ 0°F ΔT
- 1420 BTU/hr @ +20°F ΔT

**RATING (DIN 3168)**

- 322 Watts  L35 L35
- 210 Watts  L35 L50
# AHP-1802XP Hazardous Location Air Conditioner

## FEATURES
- Designed for European Zone 1 and Zone 2
- Compact (24" L x 12.35" W x 19.9" D)
- Weighs approximately 100 lbs. (45 kg)
- Heavy gauge aluminum and stainless steel construction
- Ambient temperature up to +50°C
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Integral power supply
- Environmentally safe
- Mounts and operates in any orientation

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1802XP</td>
<td>0-0182-2-007</td>
<td>Cool only</td>
<td>TC-6F</td>
</tr>
<tr>
<td>AHP-1802XP</td>
<td>0-0172-3-009</td>
<td>Cool Only</td>
<td>EXT*</td>
</tr>
<tr>
<td>AHP-1802XPHC</td>
<td>0-0132-3-008</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
</tr>
<tr>
<td>AHP-1802XPHC</td>
<td>0-0172-3-010</td>
<td>Heat/Cool</td>
<td>EXT*</td>
</tr>
</tbody>
</table>

* Unit is controlled by a separate 5-32 VDC external signal, relay(s) included

## FEATURES
- Designed for European Zone 1 and Zone 2
- Compact (24" L x 12.35" W x 19.9" D)
- Weighs approximately 100 lbs. (45 kg)
- Heavy gauge aluminum and stainless steel construction
- Ambient temperature up to +50°C
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Integral power supply
- Environmentally safe
- Mounts and operates in any orientation

## CONTROL TEMPERATURES
| Active Cooling (TC-6F) | 25 °C or 35 °C |
| Active Cooling (TC-3F) | 35 °C          |
| Active Heating         | 10 °C          |
| Typical Hysteresis     | 5 °C           |
| Operating Ambient      | -40/+65 °C     |
| Operating Enclosure    | -10/+60 °C     |

## POWER INPUTS
- Voltage: 240 VAC
- Current, Active: 5.3 AMPS
- Frequency: 50/60 Hz

## PERFORMANCE RATINGS
- Cooling (Traditional): 950 BTU/HR
- Cooling (Din 3168): 280 WATTS
- Heating (Traditional): < 1300 BTU/HR
- Heating (Din 3168): < 400 WATTS
- Weight: 98 LBS.

## INCLUDES
- Semi-Centrifugal duct fan, DN 220, AC, explosion proof, zones 1 and 2
- Integral linear power supply
- TC-6F, adjustable, cool only controller
- TC-3F, heat/cool, controller available
- Versions for customer supplied control
- Gasket and mounting hardware included
- Power input line cord

### Active Cooling (TC-6F) 25 °C or 35 °C

### Active Heating 10 °C

### Typical Hysteresis 5 °C

### Operating Ambient -40/+65 °C

### Operating Enclosure -10/+60 °C

### Catalog 2012 AC.qxp  1/23/2013  1:27 PM  Page 36
**Air Conditioner - Air Cooled**

**AHP-1802XP**

**PERFORMANCE CURVE**

- Cooling Capacity (BTU/HR)
- Temperature Differential (°C)

**Mounting Style**
- Through Mounted

**Environments Served**
- IP54
- Zone 1, Zone 2
- Ex II 2 G
- T1 - T3

**Rating (Traditional)**
- 950 BTU/hr @ 0 °F ΔT
- 1210 BTU/hr @ +20 °F ΔT

**Rating (DIN 3168)**
- 280 Watts L35 L35
- 160 Watts L35 L50

---

**Equation of line: y=ΔT(°C) x=Capacity (Watts)**

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>25°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>y=1.23x-35.0</td>
<td>y=1.23x-40.0</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>y=0.09x-35.0</td>
<td>y=0.09x-40.0</td>
</tr>
</tbody>
</table>

**Dimensions**

- External Hot Side Fan
- Mounting Surface
- Input Power Cable

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

---

**DIMENSIONS**

---

**Mounting Cutout Dimensions**

- External Hot Side Fan
- Mounting Surface
- Input Power Cable

*Dimension does not include hardware, insulation. Mounting hardware and gasket included but not shown. Dimensions: Inches [Millimeters]*
AHP-1501 Air Conditioner

**Features**
- Mounts in multi-unit array for incremental capacity
- Dual voltage 120/240 VAC
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance-free operation
- Environmentally friendly and safe
- No compressor, fluorocarbons or filters
- Stainless steel exterior housing
- Operating ambient temperature range -40/+65 °C
- Operating enclosure temperature range -10/+60 °C
- Agency approvals: UL 1995, CSA 22.2, CE
- Weight 52 LBS.

**Power Inputs**
- Voltage: 120/240 VAC
- Current: 8.0/5.0 AMPS

**Performance Ratings**
- Cooling (Traditional): 1000 BTU/HR
- Cooling (Din 3168): 300 WATTS
- Cooling COP (at L35 L35): 0.31
- Heating (Traditional): < 2000 BTU/HR
- Heating (Din 3168): < 600 WATTS

**Includes**
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads

**Configurations**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1501</td>
<td>0-2181-0-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501</td>
<td>0-21F1-0-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501</td>
<td>0-2151-0-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501HC</td>
<td>0-2131-1-000</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501HC</td>
<td>0-2151-1-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1501XE</td>
<td>0-2181-4-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>AHP-1501XE</td>
<td>0-21F1-4-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-1501XE</td>
<td>0-2151-4-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-1501XEHC</td>
<td>0-2131-5-000</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-1501XEHC</td>
<td>0-2151-5-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

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

**Control Temperatures**

<table>
<thead>
<tr>
<th>Control Temperature</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
</tbody>
</table>

250 VDC configuration for crane applications available

TECA 1-888-TECA-USA (832-2872)  www.teca-usa.com
PERFORMANCE CURVE

Equation of line: \[ y = \frac{3T(°C)}{H9004} \times \text{Capacity (Watts)} \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.136x - 38.4 )</td>
<td>( y = 0.136x - 40.5 )</td>
<td>( y = 0.136x - 42.6 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.10x - 38.4 )</td>
<td>( y = 0.10x - 40.5 )</td>
<td>( y = 0.10x - 42.6 )</td>
</tr>
</tbody>
</table>

AHP-1501 DIMENSIONS

**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**
NEMA-12 IP 52
NEMA-4 IP 56

**RATING (TRADITIONAL)**
1000 BTU/hr @ 0 °F \( \Delta T \)
1300 BTU/hr @ +20 °F \( \Delta T \)

**RATING (DIN 3168)**
300 Watts L35 L35
187 Watts L35 L50

Air Conditioner - Air Cooled

AHP-1501

**MOUNTING CUTOUT DIMENSIONS**

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

www.teca-eu.com 1-888-TECA-USA (832-2872)
AHP-1501 Air Conditioner

**FEATURES**
- Mounts in multi-unit array for incremental capacity
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance-free operation
- Environmentally friendly and safe
- No compressor, fluorocarbons or filters
- Stainless steel exterior housing
- Operating ambient temperature range -40/+65 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 48 LBS.

**POWER INPUTS**
- Voltage: 24 VDC
- Current, Active: 18 AMPS
- Current, ECO-Mode: 1.9 AMPS

**PERFORMANCE RATINGS**
- Cooling (Traditional): 1000 BTU/HR
- Cooling (Din 3168): 300 WATTS
- Cooling COP (at L35 L35): 0.70
- Heating (Traditional): > 1473 BTU/HR
- Heating (Din 3168): > 432 WATTS
- Heating COP: > 1.0

**INCLUDES**
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1501</td>
<td>0-2185-0-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501</td>
<td>0-21F5-0-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501</td>
<td>0-2155-0-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501HC</td>
<td>0-2135-1-000</td>
<td>Cool only</td>
<td>TC-3F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501HC</td>
<td>0-2115-1-000</td>
<td>Heat/Cool</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501HC</td>
<td>0-2155-1-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-1501HC</td>
<td>0-21H5-1-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

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

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>CONTROL</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-7F</td>
<td>10</td>
<td>25</td>
<td>35</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

| POWER INPUTS | 250 VDC configuration for crane applications available |
PERFORMANCE CURVE

Equation of line: \( y = \frac{T}{9004} x \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 136x - 38.4 )</td>
<td>( y = 136x - 40.5 )</td>
<td>( y = 136x - 42.6 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 10x - 38.4 )</td>
<td>( y = 10x - 40.5 )</td>
<td>( y = 10x - 42.6 )</td>
</tr>
</tbody>
</table>

AHP-1501 DIMENSIONS

Air Conditioner - Air Cooled

**AHP-1501**

**Mounting Style**
Through Mounted

**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

Dimensions: Inches [Millimeters]
## 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
- Easy to use Pivot Clean feature
- Agency approvals: UL 1995, CSA 22.2, CE

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

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</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 RANGE °C</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1200FF</td>
<td>0-3090-0-000</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>None</td>
<td>-40/+70</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200FF</td>
<td>0-3080-0-000</td>
<td>120</td>
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<td>TC-6F</td>
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<td>-10/+60</td>
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<td>AHP-1200FF</td>
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<td>120</td>
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<td>21(9.5)</td>
<td>TC-1F</td>
<td>-40/+70</td>
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<td>EXT*</td>
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<td>EXT*</td>
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</tr>
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<td>120</td>
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<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
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<td>0-3051-0-000</td>
<td>120/240</td>
<td>4.0/2.2</td>
<td>29(13.2)</td>
<td>EXT*</td>
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<td>-10/+60</td>
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<td>120/240</td>
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<td>23(10.4)</td>
<td>TC-6F</td>
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<td>EXT*</td>
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<td>23(10.4)</td>
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<td>120</td>
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<td>TC-1F</td>
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<td>TC-3F</td>
<td>-40/+70</td>
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<td>120</td>
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<td>EXT*</td>
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<td>EXT*</td>
<td>-40/+70</td>
<td>-10/+60</td>
<td>NEMA-4X</td>
</tr>
</tbody>
</table>

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

Equation of line: $y = ax + b$

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>0.266x - 39.5</td>
<td>0.266x - 41.0</td>
<td>0.266x - 42.5</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>0.173x - 39.5</td>
<td>0.173x - 41.0</td>
<td>0.173x - 42.5</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

MOUNTING CUTOUT DIMENSIONS

Air Conditioner - Air Cooled

AHP-1200

MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52
NEMA-4,4X IP 56

RATING (TRADITIONAL)

530 BTU/hr @ 0 °F D T
670 BTU/hr @ +20 °F D T

RATING (DIN 3168)

154 Watts L35 L35
100 Watts L35 L50

Air Flow Pattern
AHP-1200 Air Conditioner

- Air Cooled
- Through Mounted
- NEMA-12, 4,4X
- 24 VDC Input
- High Efficiency
- 530 BTU/hr

FEATURES
- High capacity thermoelectric design
- Lower profile intrusion into enclosure
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 12%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Operating ambient temperature range -40/+65 °C
- Operating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 18 LBS.

POWER INPUTS
Voltage 24 VDC
Current, Active 9.0 AMPS
Current, ECO-Mode 0.9 AMPS

PERFORMANCE RATINGS
Cooling (Traditional) 530 BTU/HR
Cooling (DIN 3168) 154 WATTS
Cooling COP (at L35 L35) 0.71
Heating (Traditional) > 736 BTU/HR
Heating (DIN 3168) > 216 WATTS
Heating COP > 1.0

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1200</td>
<td>0-3095-0-000</td>
<td>Cool only</td>
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<td>NEMA-12, IP 52</td>
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<td>AHP-1200HC</td>
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<td>NEMA-12, IP 52</td>
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<td>0-3055-1-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>AHP-1200HC</td>
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<td>AHP-1200XE</td>
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<td>Cool only</td>
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<td>NEMA-4, IP 56</td>
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<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>AHP-1200XEHC</td>
<td>0-30H5-5-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
<td>NEMA-4, IP 56</td>
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</tbody>
</table>

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

MODEL PART NUMBER NOTES TEMPERATURE CONTROL ENVIRONMENT
AHP-1200X 0-3095-2-000 Cool only None NEMA-4, IP 56
AHP-1200X 0-3085-2-000 Cool only TC-6F NEMA-4, IP 56
AHP-1200X 0-3055-2-000 Cool only EXT* NEMA-4, IP 56
AHP-1200XHC 0-3035-3-000 Heat/Cool TC-3F NEMA-4, IP 56
AHP-1200XHC 0-3055-3-000 Heat/Cool EXT* NEMA-4, IP 56
AHP-1200XHC 0-30H5-3-000 Heat/Cool TC-4600 NEMA-4, IP 56
AHP-1200XM† 0-3095-2-041 Cool only None NEMA-4, IP 56
AHP-1200XM† 0-3085-2-034 Cool only TC-6F NEMA-4, IP 56
AHP-1200XM† 0-3055-2-035 Cool only TC-1F NEMA-4, IP 56
AHP-1200XM† 0-3055-2-036 Cool only EXT* NEMA-4, IP 56
AHP-1200XMHC† 0-3035-3-037 Heat/Cool TC-3F NEMA-4, IP 56
AHP-1200XMHC† 0-3055-3-038 Heat/Cool EXT* NEMA-4, IP 56
AHP-1200XMHC† 0-30H5-3-039 Heat/Cool TC-4600 NEMA-4, IP 56
† Full shock and vibration models

CONTROL TEMPERATURES

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<th>Temp. Control</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
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</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
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<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
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<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-7F</td>
<td>10</td>
<td>25</td>
<td>35</td>
</tr>
</tbody>
</table>

ELECTRICAL INPUTS

- Voltage 24 VDC
- Current, Active 9.0 AMPS
- Current, ECO-Mode 0.9 AMPS

ELECTRICAL RATINGS

- Cooling (Traditional) 530 BTU/HR
- Cooling (DIN 3168) 154 WATTS
- Cooling COP (at L35 L35) 0.71
- Heating (Traditional) > 736 BTU/HR
- Heating (DIN 3168) > 216 WATTS
- Heating COP > 1.0

POWER INPUTS

- Voltage 24 VDC
- Current, Active 9.0 AMPS
- Current, ECO-Mode 0.9 AMPS

INTEGRAL TEMPERATURE CONTROL

- Operating ambient temperature range -40/+65 °C
- Operating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 18 LBS.
### PERFORMANCE CURVE

Equation of line: \( y = D T(°C) \) \( x = \) Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>( 20°C )</th>
<th>( 40°C )</th>
<th>( 60°C )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = .255x - 39.0 )</td>
<td>( y = .255x - 41.0 )</td>
<td>( y = .255x - 42.0 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = .166x - 39.0 )</td>
<td>( y = .166x - 41.0 )</td>
<td>( y = .166x - 42.0 )</td>
</tr>
</tbody>
</table>

### DIMENSIONS

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

### MOUNTING STYLE

- Through Mounted

### ENVIRONMENTS SERVED

- NEMA-12 IP 52
- NEMA-4,4X IP 56

### RATING (TRADITIONAL)

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

### RATING (DIN 3168)

- 154 Watts L35 L35
- 100 Watts L35 L50

### MOUNTING CUTOUT DIMENSIONS

- 5.76 [146.30]
- 2.88 [73.15]
- 2.88 [73.15]
- 3.125 [79.38]
- 3.125 [79.38]
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
- Easy to use Pivot Clean feature
- Agency Approvals: UL 1604, UL 1995, CSA 22.2
- Groups A, B, C, D

INCLUDES

- Temperature control
- Gasket and mounting hardware
- Power input line cord

OPTIONS

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

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPS</th>
<th>WEIGHT LBS.(KG)</th>
<th>TEMP. CONTROL</th>
<th>OPERATING AMBIENT TEMPERATURE</th>
<th>OPERATING ENCLOSURE TEMPERATURE</th>
<th>ENVIRONMENT</th>
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<tbody>
<tr>
<td>AHP-1200EP</td>
<td>0-3080-0-003</td>
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<td>-10/+60</td>
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<td>AHP-1200EP</td>
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<td>4.0/2.0</td>
<td>29(13.2)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
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<td>21(9.5)</td>
<td>TC-6F</td>
<td>30°F (50°C)</td>
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<td>NEMA-12</td>
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<tr>
<td>AHP-1200XP</td>
<td>0-30F0-2-004</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>TC-6F</td>
<td>85°F (30°C)</td>
<td>-40/+63</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
<td>0-3080-2-010</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
<td>0-30F0-2-004</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
<td>0-3030-3-007</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>TC-3F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
<td>0-30F0-3-004</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>TC-3F</td>
<td>85°F (30°C)</td>
<td>-40/+63</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
<td>0-3030-3-007</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XP</td>
<td>0-30F0-3-004</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1200XPHC</td>
<td>0-3080-3-009</td>
<td>120</td>
<td>4.0</td>
<td>21(9.5)</td>
<td>TC-3F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1201XP</td>
<td>0-3081-2-014</td>
<td>120/240</td>
<td>4.0/2.0</td>
<td>29(13.2)</td>
<td>TC-6F</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1201XP</td>
<td>0-30F1-2-020</td>
<td>120/240</td>
<td>4.0/2.0</td>
<td>29(13.2)</td>
<td>TC-6F</td>
<td>85°F (30°C)</td>
<td>-40/+63</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1201XP</td>
<td>0-3071-1-012</td>
<td>120/240</td>
<td>4.0/2.0</td>
<td>29(13.2)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1201XP</td>
<td>0-3031-3-011</td>
<td>120/240</td>
<td>4.0/2.0</td>
<td>29(13.2)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-1201XP</td>
<td>0-3071-3-013</td>
<td>120/240</td>
<td>4.0/2.0</td>
<td>29(13.2)</td>
<td>EXT*</td>
<td>-40/+63</td>
<td>-10/+60</td>
<td>NEMA-12</td>
</tr>
</tbody>
</table>

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

Equation of line: $y = D T(°C) \times$ Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>0.266x - 39.5</td>
<td>0.266x - 41.0</td>
<td>0.266x - 42.5</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>0.173x - 39.5</td>
<td>0.173x - 41.0</td>
<td>0.173x - 42.5</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

MOUNTING CUTOUT DIMENSIONS

Air Flow Pattern

www.teca-eu.com 1-888-TECA-USA (832-2872)
AHP-1200CXP

North American Air Cooled
Through Mounted
Class I, Division 1 Groups B, C, D

FEATURES

- Compact, (only 15”L X 7.35”W X 14”D)
- Weighs only 36 lbs. (16.4 kg)
- Excels in high ambient temperatures
- Environmentally safe
- Vortex Air Amplifier included
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Mounts and operates in any orientation

REQUIREMENTS

- Clean and dry compressed air supply
- Purged enclosure
- 120 VAC Input voltage

INCLUDES

- Mounting gasket and hardware
- Power input line cord

PERFORMANCE CURVE

![Performance Curve Diagrams]

25°C Ambient

60°C Ambient
The AHP-1200CXP by TECA is the first solid state air conditioner designed for use in Class I Division 1 Groups B, C and D hazardous environments in North America. The AHP-1200CXP features a unique air moving device that eliminates static discharge that traditional fans can generate. A compressed air line is required for the air moving device. The AHP-1200CXP has been used successfully in pharmaceutical plants on analyzers that monitor chemical reactions.

As an integral part of a larger system AHP-1200CXP has been investigated in accordance with UL 3111-1, First Edition, Rev. 6/94 Electrical Equipment for laboratory Use and CSA C22.2 No. 1010.1-92 Safety requirements for Electrical Equipment for Measurement, Control, and Laboratory use and has been investigated in accordance with NFPA 496 Edition Purged and pressurized Enclosure for Electrical Equipment.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>PERFORMANCE RATING (BTU/HR)</th>
<th>VOLTAGE (VAC 50/60 HZ)</th>
<th>CURRENT AMPS.</th>
<th>WEIGHT LBS.(KG)</th>
<th>TEMP. CONTROL</th>
<th>OPERATING AMBIENT (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-1200CXP</td>
<td>0-3070-2-016</td>
<td>Cool Only</td>
<td>307-680</td>
<td>120</td>
<td>4.0</td>
<td>36 (16.4)</td>
<td>EXT*</td>
<td>-20/+40</td>
</tr>
</tbody>
</table>

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

**DIMENSIONS**

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

www.teca-eu.com 1-888-TECA-USA (832-2872) TECA
AHP-1200CXP

Hazardous Location
Air Conditioner

FEATURES

• Compact, (only 15”L X 7.35”W X 18.4”D)
• Weighs only 39 lbs. (17.7kg)
• Excels in high ambient temperatures
• Environmentally safe
• Vortex Air Amplifier included
• Virtually maintenance-free operation
• Stainless steel exterior housing
• Mounts and operates in any orientation

REQUIREMENTS

• Clean and dry compressed air supply
• Purged enclosure
• 120 VAC Input voltage

INCLUDES

• Mounting gasket and hardware
• Power input line cord

PERFORMANCE CURVE
The AHP-1200CXP is TECA's first solid state air conditioner designed for use in hazardous environments in the United Kingdom and European Union. The AHP-1200CXP features a unique air moving device that eliminates static discharge that traditional fans can generate. A compressed air line is required for the air moving device. The AHP-1200CXP has been successfully implemented with a purged enclosure and other approved equipment in pharmaceutical, petrochemical and other similar applications.


Procedure XF011, XF013

Group II, Category 2 [1] G EEx p d [ia] ia IIIB+H2 T4  Ta= -20 °C to +40 °C
# AHP-690 Air Conditioner/Heat Exchanger

- **Cooling**: 24 VDC 467 BTU/HR

## FEATURES
- Compact (only 10” X 6” X 8.5”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 15 LBS.

## CONTROL TEMPERATURES
- **Active Cooling**: 35 °C
- **Heat Exchanger (ECO-Mode)**: 25 °C
- **Active Heating**: 10 °C
- **Typical Hysteresis**: 5 °C
- **Operating Ambient**: -40/+70 °C
- **Operating Enclosure**: -10/+60 °C

## POWER INPUTS
- **Voltage**: 24 VDC
- **Current, Active**: 15 AMPS
- **Current, ECO-Mode**: 0.5 AMPS

## PERFORMANCE RATINGS
- **Cooling (Traditional)**: 467 BTU/HR
- **Cooling (DIN 3168)**: 137 WATTS
- **Cooling COP (at L35 L35)**: 0.52
- **Heating (Traditional)**: > 900 BTU/HR
- **Heating (DIN 3168)**: > 264 WATTS
- **Heating COP**: > 1.0

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-690</td>
<td>0-M0J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-690HC</td>
<td>0-M095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-690HC</td>
<td>0-M015-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-690XE</td>
<td>0-M0J5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-690XEHC</td>
<td>0-M095-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-690XEHHC</td>
<td>0-M015-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-690X</td>
<td>0-M0J5-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-690XHHC</td>
<td>0-M095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-690XHHC</td>
<td>0-M015-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-690XM</td>
<td>0-M0J5-2-001</td>
<td>Cool only, Mil. grade fans</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-690XMHC</td>
<td>0-M095-3-001</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-690XMHC</td>
<td>0-M015-3-001</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: 

\[ y = D(T) \times x \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-690</td>
<td>( y = 0.37x - 50.7 )</td>
<td>( y = 0.37x - 52.6 )</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

Air Conditioner - Air Cooled

AHP-690

MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52
NEMA-4,4X IP 56

RATING (TRADITIONAL)

467 BTU/hr @ 0°F ΔT
570 BTU/hr @ +20°F ΔT

RATING (DIN 3168)

137 Watts L35 L35
101 Watts L35 L50

Air Flow Pattern
# AHP-590 Air Conditioner/Heat Exchanger

**Air Cooled Through Mounted**  
Nema-12, 4, 4X

**24 VDC**  
**High Efficiency**  
**460 BTU/HR**

## FEATURES
- Compact (only 10" X 5.84" X 7.75")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 14 LBS.

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-590</td>
<td>0-G0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-590HC</td>
<td>0-G095-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-590HC</td>
<td>0-G0I5-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-590XE</td>
<td>0-G0I5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-590XEHC</td>
<td>0-G095-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-590XEH</td>
<td>0-G0I5-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-590X</td>
<td>0-G0J5-2-001</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-590XHC</td>
<td>0-G095-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-590XHC</td>
<td>0-G0I5-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-590XM</td>
<td>0-G0J5-2-011</td>
<td>Cool only, Mil. grade fans</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-590XMHC</td>
<td>0-G095-3-011</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-590XMHC</td>
<td>0-G0I5-3-011</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)

### INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

## INTERESTING FEATURES
- Compact (only 10" X 5.84" X 7.75")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 14 LBS.

## CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

## POWER INPUTS

- **Voltage**: 24 VDC
- **Current, Active**: 6.9 AMPS
- **Current, ECO-Mode**: 0.3 AMPS

## PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Mode</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>460 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>137 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.85</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 562 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 165 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
</tbody>
</table>

## INCLUDES

- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)
**PERFORMANCE CURVE**

**Equation of Line:** \( y = D T (°C) \times \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-590</td>
<td>( y = 0.25x - 32.5 )</td>
<td>( y = 0.25x - 35 )</td>
</tr>
</tbody>
</table>

**Air Conditioner - Air Cooled**

**AHP-590**

**MOUNTING STYLE**

Through Mounted

**ENVIRONMENTS SERVED**

- NEMA-12 IP 52
- NEMA-4,4X IP 56

**RATING (TRADITIONAL)**

- AHP-590 460 BTU/hr @ 0°F D.T
- 593 BTU/hr @ +20°F D.T

**RATING (DIN 3168)**

- AHP-590 137 Watts L35 L35
- 75 Watts L35 L50

**DIMENSIONS**

- **External Hot Side Fan**
- **Mounting Surface**
- **Internal Cold Side Fan**

**MOUNTING CUTOUT DIMENSIONS**

- 4XØ0.156 [Ø4]
- 1.50 [38]
- 1.50 [38]
- 4XØ0.218 [Ø6]

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

www.teca-eu.com 1-888-TECA-USA (832-2872)
## FEATURES
- Compact (only 10” X 5.84” X 7.75”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 14 LBS.

## CONTROL TEMPERATURES
- **Active Cooling**: 35 °C
- **Heat Exchanger (ECO-Mode)**: 25 °C
- **Active Heating**: 10 °C
- **Typical Hysteresis**: 5 °C
- **Operating Ambient**: -40/+70 °C
- **Operating Enclosure**: -10/+60 °C

## POWER INPUTS
- **Voltage**: 24 VDC
- **Current, Active**: 3.0 AMPS
- **Current, ECO-Mode**: 0.3 AMPS

## PERFORMANCE RATINGS
- **Cooling (Traditional)**: 303 BTU/HR
- **Cooling (Din 3168)**: 90 WATTS
- **Cooling COP (at L35 L35)**: 1.25
- **Heating (Traditional)**: > 245 BTU/HR
- **Heating (Din 3168)**: > 72 WATTS
- **Heating COP**: > 1.0

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-570</td>
<td>0-G0J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-570HC</td>
<td>0-G095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-570HC</td>
<td>0-G015-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-570XE</td>
<td>0-G0J5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-570XEHC</td>
<td>0-G095-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-570XEHC</td>
<td>0-G015-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-570X</td>
<td>0-G0J5-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-570XHC</td>
<td>0-G095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-570XHC</td>
<td>0-G015-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-570XM</td>
<td>0-G0J5-3-010</td>
<td>Cool only, Mil. grade fans</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-570XMHC</td>
<td>0-G095-3-010</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-570XMHC</td>
<td>0-G015-3-010</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: \( y = DT(°C) \times \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-570</td>
<td>( y = 0.29x - 25.8 )</td>
<td>( y = 0.29x - 27 )</td>
</tr>
</tbody>
</table>

AHP-570
Air Conditioner - Air Cooled

MOUNTING STYLE
Through Mounted

ENVIRONMENTS SERVED
NEMA-12      IP 52
NEMA-4,4X    IP 56

RATING (TRADITIONAL)
AHP-570 305 BTU/hr @ 0 °F DT
432 BTU/hr @ +20 °F DT

RATING (DIN 3168)
AHP-570 90 Watts L35 L35
40 Watts L35 L50

DIMENSIONS

External Hot Side Fan
Mounting Surface
Internal Cold Side Fan
Mounting Cutout Dimensions

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

www.teca-eu.com 1-888-TECA-USA (832-2872)
**AHP-451 Air Conditioner**

Air Cooled  
Through Mounted  
Nema-12

**FEATURES**
- Compact (only 10” X 5.84” X 7.75”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Suitable for NEMA-12 (IP 52) environment
- Easy to use Pivot Clean feature
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 16 LBS.

**CONTROL TEMPERATURES**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling (TC-1F, TC-3F)</td>
<td>35 °C</td>
<td></td>
</tr>
<tr>
<td>Active Heating (TC-3F)</td>
<td>10 °C</td>
<td></td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
<td></td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
<td></td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
<td></td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>342 BTU/HR</td>
<td></td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>102 WATTS</td>
<td></td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.65</td>
<td></td>
</tr>
</tbody>
</table>

**POWER INPUTS**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>120 or 240 VAC</td>
<td></td>
</tr>
<tr>
<td>Current, Active</td>
<td>1.3 / 0.71 AMPS</td>
<td></td>
</tr>
</tbody>
</table>

**INCLUDES**
- Temperature controller
- Mounting gasket
- Mounting hardware
- Integral power input cord

### CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPS</th>
<th>TEMPERATURE CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-451</td>
<td>0-F090-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>None</td>
</tr>
<tr>
<td>AHP-451</td>
<td>0-F0F0-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>TC-1F</td>
</tr>
<tr>
<td>AHP-451</td>
<td>0-F050-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>EXT*</td>
</tr>
<tr>
<td>AHP-451HC</td>
<td>0-F030-1-000</td>
<td>Heat/Cool</td>
<td>120</td>
<td>1.3</td>
<td>TC-3F</td>
</tr>
<tr>
<td>AHP-452</td>
<td>0-F092-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>None</td>
</tr>
<tr>
<td>AHP-452</td>
<td>0-F0F2-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>TC-1F</td>
</tr>
<tr>
<td>AHP-452</td>
<td>0-F052-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>EXT*</td>
</tr>
<tr>
<td>AHP-452HC</td>
<td>0-F032-1-000</td>
<td>Heat/Cool</td>
<td>240</td>
<td>0.70</td>
<td>TC-3F</td>
</tr>
</tbody>
</table>

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

**Equation of Line:** $y = \frac{\Delta T}{200} + \frac{x}{100}$

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>$y_{20^\circ C}$</th>
<th>$y_{60^\circ C}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y = 0.26x - 26.1$</td>
<td>$y = 0.26x - 28.6$</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

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

---

**AHP-451**

**MOUNTING STYLE**

Through Mounted

**ENVIRONMENTS SERVED**

NEMA-12  IP 52

**RATING (TRADITIONAL)**

- 340 BTU/hr @ 0 °F ΔT
- 486 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**

- 102 Watts  L35 L35
- 50 Watts  L35 L50

---

AHP-451 Air Conditioner - Air Cooled
# AHP-401 Air Conditioner

**Air Cooled**

**Through Mounted**

**Nema-12**

## FEATURES
- Compact (only 10" X 5.84" X 7.75")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Suitable for NEMA-12 (IP 52) environment
- Easy to use Pivot Clean feature
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 16 LBS.

## CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling (TC-1F, TC-3F)</td>
<td>35 °C</td>
</tr>
<tr>
<td>Active Heating (TC-3F)</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

## POWER INPUTS

- Voltage: 120 or 240 VAC
- Current, Active: 1.2 / 0.65 AMPS

## PERFORMANCE RATINGS

### Active Cooling (Traditional)
- 220 BTU/HR

### Active Heating (DIN 3168)
- 102 WATTS

### Cooling COP (at L35 L35)
- 0.45

## INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Integral power input cord

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPS</th>
<th>TEMPERATURE CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-401</td>
<td>0-F090-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>None</td>
</tr>
<tr>
<td>AHP-401</td>
<td>0-F0F0-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>TC-1F</td>
</tr>
<tr>
<td>AHP-401</td>
<td>0-F050-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>EXT*</td>
</tr>
<tr>
<td>AHP-401HC</td>
<td>0-F030-1-001</td>
<td>Heat/Cool</td>
<td>120</td>
<td>1.2</td>
<td>TC-3F</td>
</tr>
<tr>
<td>AHP-402</td>
<td>0-F092-0-001</td>
<td>Cool only</td>
<td>240</td>
<td>0.65</td>
<td>None</td>
</tr>
<tr>
<td>AHP-402</td>
<td>0-F0F2-0-001</td>
<td>Cool only</td>
<td>240</td>
<td>0.65</td>
<td>TC-1F</td>
</tr>
<tr>
<td>AHP-402</td>
<td>0-F052-0-001</td>
<td>Cool only</td>
<td>240</td>
<td>0.65</td>
<td>EXT*</td>
</tr>
<tr>
<td>AHP-402HC</td>
<td>0-F032-1-001</td>
<td>Heat/Cool</td>
<td>240</td>
<td>0.65</td>
<td>TC-3F</td>
</tr>
</tbody>
</table>

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

Equation of Line: \( y = \frac{\Delta T (°C)}{x} \), where \( y \) is Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>30°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Flow Pattern: Enclosure Air</td>
<td>( y = 0.67x - 43 )</td>
<td>( y = 0.67x - 44.5 )</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

**AHP-401**

**Air Conditioner - Air Cooled**

**Mounting Style**
Through Mounted

**Environments Served**
NEMA-12 IP 52

**Rating (Traditional)**
220 BTU/hr @ 0 °F \( \Delta T \)
275 BTU/hr @ +20 °F \( \Delta T \)

**Rating (DIN 3168)**
- 65 Watts L35 L35
- 45 Watts L35 L50

**Dimensions**

- **External Hot Side Fan**
  - 10.00 [254]
  - 5.84 [148]

- **Mounting Surface**
  - 4.71 [120]
  - 4.07 [103]

- **Internal Cold Side Fan**
  - 5.31 [135]
  - 3.00 [76]
  - 8.05 [204]

- **Mounting Cutout Dimensions**
  - 4XØ0.156 [Ø4]
  - 1.50 [38]
  - 1.50 [38]

- **MOUNTING CUTOUT DIMENSIONS**
  - 4XØ0.218 [Ø6]
  - 2.50 [64]
  - 2.66 [67]
AHP-470

Air Cooled
Through Mounted
Nema-12, 4, 4X

AHP-470 Air Conditioner/Heat Exchanger

24 VDC
315 BTU/HR

FEATURES
- Compact (only 10" X 5.84" X 7.75")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 14 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>CONTROL TYPE</th>
<th>TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling (ECO-Mode)</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

- Voltage: 24 VDC
- Current, Active: 7.0 AMPS
- Current, ECO-Mode: 0.3 AMPS

PERFORMANCE RATINGS

- Cooling (Traditional): 315 BTU/HR
- Cooling (DIN 3168): 95 WATTS
- Cooling COP (at L35 L35): 0.56
- Heating (Traditional): > 572 BTU/HR
- Heating (DIN 3168): > 168 WATTS
- Heating COP: > 1.0

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

MODEL PART NUMBER NOTES TEMPERATURE ENVIRONMENT

AHP-470 0-F0J5-0-001 Cool only, industrial fans TC-4F NEMA-12, IP 52
AHP-470HC 0-F095-1-001 Heat/Cool, industrial fans None* NEMA-12, IP 52
AHP-470HC 0-F015-1-001 Heat/Cool, industrial fans TC-7F NEMA-12, IP 52
AHP-470XE 0-F0J5-4-001 Cool only, sealed hot side fan TC-4F NEMA-4, IP 56
AHP-470XEHC 0-F095-5-001 Heat/Cool, sealed hot side fan None* NEMA-4, IP 56
AHP-470XEHC 0-F015-5-001 Heat/Cool, sealed hot side fan TC-7F NEMA-4, IP 56
AHP-470X 0-F0J5-2-001 Cool only, Mil. grade hot side fan TC-4F NEMA-4X, IP 56
AHP-470XHC 0-F095-3-001 Heat/Cool, Mil. grade hot side fan None* NEMA-4X, IP 56
AHP-470XHC 0-F015-3-001 Heat/Cool, Mil. grade hot side fan TC-7F NEMA-4X, IP 56
AHP-470XM 0-F0J5-2-011 Cool only, Mil. grade fans TC-4F NEMA-4X, IP 56
AHP-470XMHC 0-F095-3-011 Heat/Cool, Mil. grade fans None* NEMA-4X, IP 56
AHP-470XMHC 0-F015-3-011 Heat/Cool, Mil. grade fans TC-7F NEMA-4X, IP 56

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
**PERFORMANCE CURVE**

![Performance Curve Graph](image)

**Equation of Line:** \( y = DT(°C) \times \) Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-470</td>
<td>( y = 0.42x - 38.9 )</td>
<td>( y = 0.42x - 41.5 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

![Dimensions Diagram](image)

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

**AHP-470**

**MOUNTING STYLE**

Through Mounted

**ENVIRONMENTS SERVED**

NEMA-12  IP 52
NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**

AHP-470  315 BTU/hr @ 0 °F DT
405 BTU/hr @ +20 °F DT

**RATING (DIN 3168)**

AHP-470  95 Watts L35 L35
62 Watts L35 L50

**Air Conditioner - Air Cooled**

**MOUNTING CUTOUT DIMENSIONS**

4X0.156 [04]  1.50 [38]  1.50 [38]  2.25 [57]  4.11 [104]  4.63 [116]  4.11 [104]

2.66 [67]  2.05 [51]  2.50 [64]  2.50 [64]  2.66 [67]  2.66 [67]  4X0.218 [06]

www.teca-eu.com 1-888-TECA-USA (832-2872)
AHP-450

Air Conditioner/Heat Exchanger

Air Cooled
Through Mounted
Nema-12, 4, 4X

24 VDC
High Efficiency
210 BTU/HR

FEATURES

• Compact (only 10” X 5.84” X 7.75”)
• Mounts and operates in any orientation: horizontal, vertical, etc.
• Low vibration and noise
• No moving parts except fans
• Environmentally safe
• No compressor, fluorocarbons or filters
• Virtually maintenance-free operation
• Stainless steel exterior housing
• Efficient heat exchanger mode (ECO-Mode)
• Easy to use Pivot Clean feature
• Weight 14 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

| Voltage | 24 VDC |
| Current, Active | 2.3 AMPS |
| Current, ECO-Mode | 0.3 AMPS |

PERFORMANCE RATINGS

| Cooling (Traditional) | 207 BTU/HR |
| Cooling (Din 3168) | 62 WATTS |
| Cooling COP (at L35 L35) | 1.12 |
| Heating (Traditional) | > 188 BTU/HR |
| Heating (Din 3168) | > 55 WATTS |
| Heating COP | > 1.0 |

INCLUDES

• Temperature controller
• Mounting gasket
• Mounting hardware
• Power input leads
• Power saving heat exchanger mode (ECO-Mode)

MODEL | PART NUMBER | NOTES | TEMPERATURE CONTROL | ENVIRONMENT |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-450</td>
<td>0-F0J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-450HC</td>
<td>0-F095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-450HC</td>
<td>0-F015-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-450XE</td>
<td>0-F0J5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-450XEHC</td>
<td>0-F095-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
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<td>AHP-450X</td>
<td>0-F0J5-2-000</td>
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<td>NEMA-4X, IP 56</td>
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<tr>
<td>AHP-450XHC</td>
<td>0-F095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
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<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-450XM</td>
<td>0-F0J5-2-010</td>
<td>Cool only, Mil. grade fans</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-450XMH</td>
<td>0-F095-3-010</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-450XMH</td>
<td>0-F015-3-010</td>
<td>Heat/Cool, Mil. grade fans</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: \( y = DT(°C) x \) = Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-450</td>
<td>y = 0.42x - 25.6</td>
<td>y = 0.42x - 27.5</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

AHP-450

Air Conditioner - Air Cooled

MOUNTING STYLE

Through Mounted

ENVIROMENTS SERVED

NEMA-12  IP 52
NEMA-4,4X  IP 56

RATING (TRADITIONAL)

AHP-450  210 BTU/hr @ 0 °F DT
         297 BTU/hr @ +20 °F DT

RATING (DIN 3168)

AHP-450  62 Watts L35 L35
         28 Watts L35 L50

DIMENSIONS

External Hot Side Fan

Mounting Surface

Internal Cold Side Fan

MOUNTING CUTOUT DIMENSIONS

4XØ0.156 [Ø4]

1.50 [38]  1.50 [38]

4XØ0.218 [Ø6]

2.25 [57]  4.63 [118]

2.50 [64]  4.63 [118]

2.66 [67]  4.63 [118]

2.50 [64]  4.11 [104]

2.25 [57]  4.11 [104]

2.66 [67]  4.11 [104]

2.50 [64]  4.11 [104]

1.50 [38]  4.11 [104]

3.68 [93]  4.07 [103]

(4) 6-32 Mounting Taps

5.84 [148]  8.05 [204]

5.31 [135]  3.00 [76]

4.91 [125]  4.50 [114]

9.26 [235]  4.07 [103]

(4) 10-32 Mounting Taps

2.50 [64]  2.66 [67]
AHP-301FF Air Conditioner

- Air Cooled
- Through Mounted
- 120/240 VAC input
- 180 BTU/HR
- NEMA-12

**FEATURES**

- Compact (only 10”L X 5.52”W X 7.83”D)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- Dual voltage (jumper selectable)
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Operating ambient temperature range -10/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 12 LBS.

**POWER INPUTS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120/240 VAC</th>
</tr>
</thead>
</table>

| Current, Active | 1.4/0.70 AMPS |

**PERFORMANCE RATINGS**

- Cooling (Traditional): 180 BTU/HR
- Cooling (Din 3168): 52 WATTS
- Cooling COP (at L35 L35): 0.36

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Temp. Control</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
</tbody>
</table>

**INCLUDES**

- Integral 120/240 VAC power supply
- Mounting gasket
- Mounting hardware
- Power input cord

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-301FF</td>
<td>0-7091-0-000</td>
<td>Cool only, industrial fans</td>
<td>None</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-301FF</td>
<td>0-70F1-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-1F</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-301FF</td>
<td>0-7081-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-6F</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-301FF</td>
<td>0-7051-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-301FFHC</td>
<td>0-7031-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-3F</td>
<td>NEMA-12</td>
</tr>
<tr>
<td>AHP-301FFHC</td>
<td>0-7051-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12</td>
</tr>
</tbody>
</table>

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

Equation of line: $y = \Delta T(\degree C)$, $x = $ Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Enclosure Air</th>
<th>Cold Sink</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°C</td>
<td>$y = 0.81x - 38.0$</td>
<td>$y = 0.62x - 38.0$</td>
</tr>
<tr>
<td>40°C</td>
<td>$y = 0.81x - 42.0$</td>
<td>$y = 0.62x - 42.0$</td>
</tr>
<tr>
<td>60°C</td>
<td>$y = 0.81x - 46.0$</td>
<td>$y = 0.62x - 46.0$</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

www.teca-eu.com  1-888-TECA-USA (832-2872)
AHP-300FF Air Conditioner

Air Cooled
Through Mounted
NEMA-12, 4, and 4x

FEATURES
- Compact (only 10" X 5.37" X 6.45")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Weight 7.5 LBS.

OPERATING TEMPERATURES
- Operating Ambient -40/+70 °C
- Operating Enclosure -10/+60 °C

PERFORMANCE RATINGS
- Cooling (Traditional) 210 BTU/HR
- Cooling (Din 3168) 61 WATTS
- Cooling COP (at L35 L35) 0.42

OPTIONS
- Temperature Control TC-6F DC for cool only
- Temperature Control TC-3F DC for heat/cool
- Adaptable for TC-3400
- Adaptable for TC-3500 (only Rev. Pol. versions @ 24VDC)
- Cover for hot side

INCLUDES
- Mounting gasket
- Mounting hardware
- Power input leads

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>HEAT Watts</th>
<th>VOLTAGE VDC</th>
<th>CURRENT AMPS</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-300FF</td>
<td>0-7097-0-000</td>
<td>Cool only, industrial fans</td>
<td>None</td>
<td>12/24/48</td>
<td>12/6/3</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-300FFHC</td>
<td>0-7094-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>75</td>
<td>12</td>
<td>12</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-300FFHC</td>
<td>0-7095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>75</td>
<td>24</td>
<td>6</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-300FFHC</td>
<td>0-7097-1-001</td>
<td>Heat/Cool, industrial fans, Rev. Pol.</td>
<td>144</td>
<td>12/24/48</td>
<td>12/6/3</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-300XE</td>
<td>0-7097-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>None</td>
<td>12/24/48</td>
<td>12/6/3</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-300XEHC</td>
<td>0-7095-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>75</td>
<td>24</td>
<td>6</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-300XEHC</td>
<td>0-7097-5-001</td>
<td>Heat/Cool, sealed hot side fan, Rev. Pol.</td>
<td>144</td>
<td>12/24/48</td>
<td>12/6/3</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-300X</td>
<td>0-7097-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>None</td>
<td>12/24/48</td>
<td>12/6/3</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-300XHC</td>
<td>0-7094-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>75</td>
<td>12</td>
<td>12</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-300XHC</td>
<td>0-7095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>75</td>
<td>24</td>
<td>6</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-300XHC</td>
<td>0-7097-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan, Rev. Pol.</td>
<td>144</td>
<td>12/24/48</td>
<td>12/6/3</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
**PERFORMANCE CURVE**

formance Curve

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.82x - 47.0 )</td>
<td>( y = 0.82x - 50.0 )</td>
<td>( y = 0.82x - 53.0 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.64x - 47.0 )</td>
<td>( y = 0.64x - 50.0 )</td>
<td>( y = 0.64x - 53.0 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

* Dimension does not include hardware and sealant.
† On all models of AHP-300X, these dimensions are greater by 0.25 inch.
Mounting hardware and gasket included but not shown.
Dimensions: Inches [Millimeters]

**MOUNTING CUTOUT DIMENSIONS**

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.00 [229]</td>
<td>6.45 [164]</td>
</tr>
<tr>
<td>6.00 [152] *</td>
<td>4.25 [108] *</td>
</tr>
<tr>
<td>6.03 [153]</td>
<td>3.35 [85]</td>
</tr>
<tr>
<td>1.29 [33]</td>
<td>1.29 [33]</td>
</tr>
<tr>
<td>4.88 [124]</td>
<td>4.62 [117]</td>
</tr>
</tbody>
</table>

**MOUNTING STYLE**

Air Conditioner - Air Cooled

**AHP-300FF**

- **Mounting Style**
  - Through Mounted

- **Environments Served**
  - NEMA-12    IP 52
  - NEMA-4,4X  IP 56

- **Rating (Traditional)**
  - 210 BTU/hr @ 0 °F \( \Delta T \)
  - 250 BTU/hr @ +20 °F \( \Delta T \)

- **Rating (DIN 3168)**
  - 61 Watts  L35 L35
  - 44 Watts  L35 L50

**Air Flow Pattern**

1-888-TECA-USA (832-2872)
**AHP-270 Air Conditioner**

*Air Cooled  
Through Mounted  
Nema-12, 4, 4X*

**FEATURES**

- Compact (only 6” X 4.75” X 6.6”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Heat via reverse polarity
- Virtually maintenance-free operation
- Weight 4.4 LBS.

**OPERATING TEMPERATURES**

- Operating Ambient: -40/+70 °C
- Operating Enclosure: -10/+60 °C

**PERFORMANCE RATINGS**

- Cooling (Traditional): 161 BTU/HR
- Cooling (Din 3168): 47 WATTS
- Cooling COP (at L35 L35): 0.46

**INCLUDES**

- Mounting gasket
- Mounting hardware
- Power input leads

**OPTIONS**

- Temperature Control TC-6F DC for cool only
- Temperature Control TC-3F DC for heat/cool
- Adaptable for TC-3400
- Stainless steel exterior housing

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>HEAT</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-270FF</td>
<td>0-L094-1-001</td>
<td>Industrial Fans</td>
<td>100</td>
<td>12</td>
<td>8.3</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-270FF</td>
<td>0-L095-1-001</td>
<td>Industrial Fans</td>
<td>100</td>
<td>24</td>
<td>4.1</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-270XE</td>
<td>0-L094-5-001</td>
<td>Sealed Hot Side Fan</td>
<td>100</td>
<td>12</td>
<td>8.3</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-270XE</td>
<td>0-L095-5-001</td>
<td>Sealed Hot Side Fan</td>
<td>100</td>
<td>24</td>
<td>4.1</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-270X</td>
<td>0-L094-3-001</td>
<td>Mil. Grade Hot Side Fan</td>
<td>100</td>
<td>12</td>
<td>8.3</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-270X</td>
<td>0-L095-3-001</td>
<td>Mil. Grade Hot Side Fan</td>
<td>100</td>
<td>24</td>
<td>4.1</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

Heat function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: \( y = \frac{H}{9004} T \)  

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>( 35^\circ C )</th>
<th>( 50^\circ C )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 1.02x - 48.3 )</td>
<td>( y = 1.03x - 51 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.78x - 48.3 )</td>
<td>( y = 0.79x - 51 )</td>
</tr>
</tbody>
</table>

Air Conditioner - Air Cooled

**AHP-270**

**MOUNTING STYLE**
- Through Mounted

**ENVIROMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
- 161 BTU/hr @ 0 °F \( \Delta T \)
- 198 BTU/hr @ +20 °F \( \Delta T \)

**RATING (DIN 3168)**
- 47 Watts L35 L35
- 35 Watts L35 L50

**DIMENSIONS**

- **External Hot Side Fan**
  - 6.00 [152]
  - 4.75 [121]

- **Mounting Surface**
  - 5.30 [135]
  - 4.62 [117]
  - 3.21 [82]

- **Internal Cold Side Fan**
  - 3.62 [92]
  - 4.06 [103]
  - 4 X 8-32 Threads

- **Mounting Cutout Dimensions**
  - 2.02 [51]
  - 2.02 [51]
  - 2.65 [67]
  - 1.88 [48]
  - 1.88 [48]
  - 2.38 [61]
  - 4 X Ø0.188 [6]
AHP-250 Air Conditioner

**Features**
- Compact (only 6” X 4.75” X 6.6”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Heat via reverse polarity
- Virtually maintenance-free operation
- Weight 4.4 LBS.

**Operating Temperatures**
- Operating Ambient: -40/+70 °C
- Operating Enclosure: -10/+60 °C

**Performance Ratings**
- Cooling (Traditional): 129 BTU/HR
- Cooling (Din 3168): 38 WATTS
- Cooling COP (at L35 L35): 0.53

**Options**
- Temperature Control TC-6F DC for cool only
- Temperature Control TC-3F DC for heat/cool
- Adaptable for TC-3400
- Stainless steel exterior housing

**Includes**
- Mounting gasket
- Mounting hardware
- Power input leads

**Configurations**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>HEAT Watts</th>
<th>VOLTAGE VDC</th>
<th>CURRENT AMPS</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHP-250FF</td>
<td>0-L094-1-000</td>
<td>Industrial Fans</td>
<td>100</td>
<td>12</td>
<td>6</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-250FF</td>
<td>0-L095-1-000</td>
<td>Industrial Fans</td>
<td>100</td>
<td>24</td>
<td>3</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>AHP-250XE</td>
<td>0-L094-5-000</td>
<td>Sealed Hot Side Fan</td>
<td>100</td>
<td>12</td>
<td>6</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-250XE</td>
<td>0-L095-5-000</td>
<td>Sealed Hot Side Fan</td>
<td>100</td>
<td>24</td>
<td>3</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>AHP-250X</td>
<td>0-L094-3-000</td>
<td>Mil. Grade Hot Side Fan</td>
<td>100</td>
<td>12</td>
<td>6</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>AHP-250X</td>
<td>0-L095-3-000</td>
<td>Mil. Grade Hot Side Fan</td>
<td>100</td>
<td>24</td>
<td>3</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

Heat function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: \( y = \Delta T(\degree C) \quad x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Cooling Capacity (BTU/HR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35°C</td>
<td>0</td>
</tr>
<tr>
<td>50°C</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th>Equation of Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 1.35x - 51 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 1.15x - 51.7 )</td>
</tr>
</tbody>
</table>

AHP-250
Air Conditioner - Air Cooled

Mounting Style
Through Mounted

Environments Served
NEMA-12 IP 52
NEMA-4,4X IP 56

Rating (Traditional)
129 BTU/hr @ 0 °F ΔT
162 BTU/hr @ +20 °F ΔT

Rating (DIN 3168)
38 Watts L35 L35
28 Watts L35 L50

DIMENSIONS

External Hot Side Fan
 mounting Surface
Internal Cold Side Fan

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

www.teca-eu.com 1-888-TECA-USA (832-2872) TECA
FHP-6263  Air Conditioner/Heat Exchanger

Air Cooled  3 Phase, 240 VAC, 3 Wire Delta
Flush Mounted  High Capacity
Nema-12, 4, 4X  4970 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 180 LBS.

CONTROL TEMPERATURES

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage, 3 Phase Delta</td>
<td>240 VAC</td>
</tr>
<tr>
<td>Current, Active</td>
<td>11 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>1.5 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

PERFORMANCE RATINGS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>4970 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>1458 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.32</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 15000 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 4570 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-mode)</td>
<td>45 W/°C</td>
</tr>
</tbody>
</table>

250 VDC configuration for crane applications available

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

CONIFgURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-6263</td>
<td>7-K5JD-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6263HC</td>
<td>7-K5ID-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6263XE</td>
<td>7-K5JD-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6263XEH</td>
<td>7-K5JD-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6263X</td>
<td>7-K5JD-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-6263XHC</td>
<td>7-K5JD-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

TECA  1-888-TECA-USA (832-2872)  www.teca-usa.com
**FHP-6263**

**Mounting Style**
Flush Mounted

**Environments Served**
- NEMA-12 IP 52
- NEMA-4,4X IP 56

**RATING (TRADITIONAL)**
- 4970 BTU/hr @ 0 °F ΔT
- 6428 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 1458 Watts L35 L35
- 919 Watts L35 L50

---

**PERFORMANCE CURVE**

Equation of line: \( y = \Delta T (°C) = xe^{Capacity (Watts)} \)

- Ambient 35 °C 50 °C
- Enclosure Air \( y = 0.026x - 37.9 \) \( y = 0.026x - 38.9 \)
- Cold Sink \( y = 0.018x - 37.9 \) \( y = 0.018x - 38.9 \)

---

**Dimensions**

- Dimensions do not include hardware
- Mounting hardware and gasket included but not shown
- Dimension: Inches [Millimeters]

---

Air Conditioner - Air Cooled

External Hot Side Fans

Mounting Surface

Internal Cold Side Fans

Mounting Cutout 19.00x35.30 [483x897]

---

www.teca-eu.com 1-888-TECA-USA (832-2872)
### FHP-6253

**Air Conditioner/Heat Exchanger**

- **Air Cooled**
- **Flush Mounted**
- **Nema-12, 4, 4X**
- **3 Phase, 240 VAC, 3 Wire Delta**
- **High Capacity**
- **4830 BTU/HR**

#### FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambient by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 180 LBS.

#### CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th></th>
<th>Active Cooling</th>
<th>Heat Exchanger (ECO-Mode)</th>
<th>Active Heating</th>
<th>Typical Hysteresis</th>
<th>Operating Ambient</th>
<th>Operating Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35 °C</td>
<td>25 °C</td>
<td>10 °C</td>
<td>5 °C</td>
<td>-40/+65 °C</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

#### POWER INPUTS

- Voltage, 3 Phase Delta: 240 VAC
- Current, Active: 5.5 AMPS
- Current, ECO-Mode: 1.5 AMP
- Frequency: 50/60 Hz

#### PERFORMANCE RATINGS

- Cooling (Traditional): 4830 BTU/HR
- Cooling (Din 3168): 1416 WATTS
- Cooling COP (at L35 L35): 0.62
- Heating (Traditional): > 7800 BTU/HR
- Heating (Din 3168): > 2290 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-mode): 45 W/°C

#### CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-6253</td>
<td>7-K4JD-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6253HC</td>
<td>7-K4JD-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6253XE</td>
<td>7-K4JD-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6253XEH</td>
<td>7-K4JD-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6253X</td>
<td>7-K4JD-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-6253XHC</td>
<td>7-K4JD-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
FHP-6253

MOUNTING STYLE
Flush Mounted

ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4,4X IP 56

RATING (TRADITIONAL)
4830 BTU/hr @ 0 °F ΔT
6410 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)
1416 Watts L35 L35
829 Watts L35 L50

DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimension: Inches [Millimeters]

www.teca-eu.com 1-888-TECA-USA (832-2872)
FHP-6252 Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X

240 VAC Input
High Capacity
4480 BTU/HR

Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 180 LBS.

Control Temperatures

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

Power Inputs

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>240 VAC</td>
</tr>
<tr>
<td>Current, Active</td>
<td>9.2 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>1.5 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

Performance Ratings

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>4480 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>1315 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.60</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 7365 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 2160 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-mode)</td>
<td>45 W/°C</td>
</tr>
</tbody>
</table>

Includes
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

Active Cooling 35 °C
Heat Exchanger (ECO-Mode) 25 °C
Active Heating 10 °C

250 VDC configuration for crane applications available

Model Configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-6252</td>
<td>7-K4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6252HC</td>
<td>7-K4J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6252XE</td>
<td>7-K4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6252XHC</td>
<td>7-K4J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6252X</td>
<td>7-K4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-6252XHC</td>
<td>7-K4J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>
**DIMENSIONS**

**FHP-6252**

**MOUNTING STYLE**
Flush Mounted

**ENVIRONMENTS SERVED**

<table>
<thead>
<tr>
<th>NEMA-12</th>
<th>IP 52</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEMA-4,4X</td>
<td>IP 56</td>
</tr>
</tbody>
</table>

**RATING (TRADITIONAL)**

- 4480 BTU/hr @ 0 °F ΔT
- 6125 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**

- 1315 Watts L35 L35
- 687 Watts L35 L50

**PERFORMANCE CURVE**

**Air Conditioner - Air Cooled**

**PERFORMANCE CURVE**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.52 [521]</td>
<td>External Hot Side Fans</td>
</tr>
<tr>
<td>8.53 [217]</td>
<td>(30) 10-32 Studs</td>
</tr>
<tr>
<td>3.00 [76]</td>
<td>Mounting Surface</td>
</tr>
<tr>
<td>4.95 [126]</td>
<td>Input Cord</td>
</tr>
<tr>
<td>9.89 [251]</td>
<td>Circuit Breaker</td>
</tr>
<tr>
<td>9.40 [239]</td>
<td>Internal Cold Side Fans</td>
</tr>
<tr>
<td>19.00x35.30 [483x897]</td>
<td>Mounting Cutout</td>
</tr>
</tbody>
</table>

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

www.teca-eu.com 1-888-TECA-USA (832-2872)
# FHP-6250 Air Conditioner/Heat Exchanger

Air Cooled  
Flush Mounted  
Nema-12, 4, 4X  
3820 BTU/HR

## FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger (ECO-mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 170 LBS.

## CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60</td>
</tr>
</tbody>
</table>

## POWER INPUTS

- Voltage: 120 VAC
- Current, Active: 14 AMPS
- Current, ECO-Mode: 3.0 AMP
- Frequency: 50/60 Hz

## PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Type</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>3820 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>1120 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.67</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 5524 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 1620 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-mode)</td>
<td>45 W/°C</td>
</tr>
</tbody>
</table>

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-6250</td>
<td>7-K4J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6250HC</td>
<td>7-K4J0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-6250XE</td>
<td>7-K4J0-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6250XHC</td>
<td>7-K4J0-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-6250X</td>
<td>7-K4J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-6250XHC</td>
<td>7-K4J0-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

## INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker
FHP-6250

Mounting Style
Flush Mounted

Environments Served
- NEMA-12 IP 52
- NEMA-4,4X IP 56

Rating (Traditional)
- 3820 BTU/hr @ 0 °F ΔT
- 5472 BTU/hr @ +20 °F ΔT

Rating (DIN 3168)
- 1120 Watts L35 L35
- 491 Watts L35 L50

Performance Curve

Equation of line: y = ΔT(°C) = Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient</th>
<th>35 C</th>
<th>50 C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>0.023x-25.8</td>
<td>0.023x-26.3</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>0.016x-25.8</td>
<td>0.016x-26.3</td>
</tr>
</tbody>
</table>

Dimensions

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimension: Inches [Millimeters]

Air Conditioner - Air Cooled

Air Flow Pattern
FHP-4252 Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X

240 VAC Input
High Capacity
3615 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 116 LBS.

CONTROL TEMPERATURES
<table>
<thead>
<tr>
<th>Control Type</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS
- Voltage: 240 VAC
- Current, Active: 12.5 AMPS
- Current, ECO-Mode: 0.9 AMP
- Frequency: 50/60 Hz

PERFORMANCE RATINGS
- Cooling (Traditional): 3615 BTU/HR
- Cooling (Din 3168): 1060 WATTS
- Cooling COP (at L35 L35): 0.35
- Heating (Traditional): > 12000 BTU/HR
- Heating (Din 3168): > 3600 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 30 W/°C

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-4252</td>
<td>7-J5J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4252HC</td>
<td>7-J5I2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4252XE</td>
<td>7-J5J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4252XEHC</td>
<td>7-J5I2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4252X</td>
<td>7-J5J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-4252XHC</td>
<td>7-J5I2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
Equation of line: \( y = \Delta T \text{ (°C)} \) \( x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.034x - 36 )</td>
<td>( y = 0.034x - 37.9 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.025x - 36 )</td>
<td>( y = 0.025x - 37.9 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

Dimensions do not include hardware. Mounting hardware and gasket included but not shown.

**Mounting Surface**

- External Hot Side Fans
- Internal Cold Side Fans

**Circuit Breaker**

- (22) 10-32 Studs

**Input Cord**

**Dimensions**

- 25.02 [838]
- 8.53 [217]
- 20.52 [521]
- 9.42 [238]
- 9.89 [251]
- 7.95 [196]
- 2.58 [65]

**RATING (TRADITIONAL)**

- 3615 BTU/hr @ 0 °F ΔT
- 4725 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**

- 1060 Watts L35 L35
- 670 Watts L35 L50

**ENVIRONMENTS SERVED**

- NEMA-12   IP 52
- NEMA-4,4X  IP 56

**MOUNTING STYLE**

- Flush Mounted

**Air Conditioner - Air Cooled**

FHP-4252

**PERFORMANCE CURVE**

**Air Flow Pattern**

**PERFORMANCE CURVE**

<table>
<thead>
<tr>
<th>Cooling Capacity (BTU/HR)</th>
<th>0</th>
<th>341</th>
<th>682</th>
<th>1023</th>
<th>1364</th>
<th>1705</th>
<th>2046</th>
<th>2387</th>
<th>2728</th>
<th>3069</th>
<th>3410</th>
<th>3751</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Differential (°F)</td>
<td>0</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.034x - 36 )</td>
<td>( y = 0.034x - 37.9 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.025x - 36 )</td>
<td>( y = 0.025x - 37.9 )</td>
</tr>
</tbody>
</table>
## FHP-4252

### Air Conditioner/Heat Exchanger

- **Type:** Air Cooled
- **Mounting:** Flush Mounted
- **Efficiency:** High Efficiency
- **Input:** 240 VAC
- **Output:** 2615 BTU/HR

### Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 116 LBS.

### Control Temperatures

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/-65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/-60 °C</td>
</tr>
</tbody>
</table>

### Power Inputs

- **Voltage:** 240 VAC
- **Current, Active:** 4.0 AMPS
- **Current, ECO-Mode:** 0.9 AMP
- **Frequency:** 50/60 Hz

### Performance Ratings

<table>
<thead>
<tr>
<th>Mode</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>2615 BTU/HR</td>
</tr>
<tr>
<td>Cooling (DIN 3168)</td>
<td>767 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.80</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 3270 BTU/HR</td>
</tr>
<tr>
<td>Heating (DIN 3168)</td>
<td>&gt; 960 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>30 W/°C</td>
</tr>
</tbody>
</table>

### Configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-4252</td>
<td>7-J4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4252HC</td>
<td>7-J4J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4252XE</td>
<td>7-J4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4252XEHC</td>
<td>7-J4J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4252X</td>
<td>7-J4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-4252XHC</td>
<td>7-J4J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

**Includes:**
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

---

*250 VDC configuration for crane applications available*
FHP-4252

MOUNTING STYLE
Flush Mounted

ENVIRONMENTS SERVED
NEMA-12  IP 52
NEMA-4,4X  IP 56

RATING (TRADITIONAL)
2615 BTU/hr @ 0 °F ΔT
3693 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)
767 Watts L35 L35
360 Watts L35 L50

DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
### FHP-4250 Air Conditioner/Heat Exchanger

**Features**
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 116 LBS.

#### Control Temperatures
- **Active Cooling**: 35 °C
- **Heat Exchanger (ECO-Mode)**: 25 °C
- **Active Heating**: 10 °C
- **Typical Hysteresis**: 5 °C
- **Operating Ambient**: -40/-65 °C
- **Operating Enclosure**: -10/-60 °C

#### Power Inputs
- **Voltage**: 120 VAC
- **Current, Active**: 6 AMPs
- **Current, ECO-Mode**: 1.7 AMPs
- **Frequency**: 50/60 Hz

#### Performance Ratings
- **Cooling (Traditional)**: 2408 BTU/HR
- **Cooling (Din 3168)**: 706 WATTS
- **Cooling COP (at L35 L35)**: 0.98
- **Heating (Traditional)**: > 2455 BTU/HR
- **Heating (Din 3168)**: > 720 WATTS
- **Heating COP**: > 1.0
- **Heat Exchanger (ECO-Mode)**: 30 W/°C

### Configurations

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
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<td>FHP-4250</td>
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<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4250HC</td>
<td>7-J4J0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-4250XE</td>
<td>7-J4J0-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4250XEH</td>
<td>7-J4J0-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-4250X</td>
<td>7-J4J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-4250XHC</td>
<td>7-J4J0-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

250 VDC configuration for crane applications available
Air Conditioner - Air Cooled

**FHP-4250**

**MOUNTING STYLE**
Flush Mounted

**ENVIRONMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
- 2408 BTU/hr @ 0 °F ΔT
- 3520 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 706 Watts L35 L35
- 300 Watts L35 L50

---

**PERFORMANCE CURVE**

- **Equation of line:**
  - Ambient Temp
    - 35°C: $y = 0.034x - 24$
    - 50°C: $y = 0.034x - 25$
  - Enclosure Air
    - $y = 0.026x - 24$
  - Cold Sink
    - $y = 0.026x - 25$

---

**DIMENSIONS**

- **External Hot Side Fans**
- **Internal Cold Side Fans**
- **Mounting Surface**

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: inches [Millimeters]

---

[www.teca-eu.com](http://www.teca-eu.com)  1-888-TECA-USA (832-2872)
FHP-3253  Air Conditioner/Heat Exchanger

Air Cooled  
Flush Mounted  
Nema-12, 4, 4X  
2593 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 93 LBS.

CONTROL TEMPERATURES
- Active Cooling 35 °C
- Heat Exchanger (ECO-Mode) 25 °C
- Active Heating 10 °C
- Typical Hysteresis 5 °C
- Operating Ambient -40/+65 °C
- Operating Enclosure -10/+60 °C

POWER INPUTS
- Voltage, 3 Phase Delta 240 VAC
- Current, Active (per phase) 2.9 AMPS
- Current, ECO-Mode 0.70 AMP
- Frequency 50/60 Hz

PERFORMANCE RATINGS
- Cooling (Traditional) 2593 BTU/HR
- Cooling (Din 3168) 760 WATTS
- Cooling COP (at L35 L35) 0.63
- Heating (Traditional) > 4100 BTU/HR
- Heating (Din 3168) > 1205 WATTS
- Heating COP > 1.0
- Heat Exchanger (ECO-Mode) 18 W/°C

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-3253</td>
<td>7-I4JD-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3253HC</td>
<td>7-I4ID-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3253XE</td>
<td>7-I4JD-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3253XEH</td>
<td>7-I4ID-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3253X</td>
<td>7-I4JD-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-3253XHC</td>
<td>7-I4ID-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

TECA  1-888-TECA-USA (832-2872)  www.teca-usa.com
FHP-3253

MOUNTING STYLE
Flush Mounted

ENVIRONMENTS SERVED
NEMA-12  IP 52
NEMA-4,4X  IP 56

RATING (TRADITIONAL)
2593 BTU/hr @ 0 °F ΔT
3474 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)
760 Watts L35 L35
437 Watts L35 L50

DIMENSIONS

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

www.teca-eu.com  1-888-TECA-USA (832-2872)
FHP-3254 Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X
2235 BTU/HR

High Capacity

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 93 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Control</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-3254</td>
<td>Active</td>
<td>35 °C</td>
</tr>
<tr>
<td></td>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td></td>
<td>Active</td>
<td>10 °C</td>
</tr>
<tr>
<td></td>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td></td>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td></td>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage, 3 Phase Wye</th>
<th>Current, Active (per phase)</th>
<th>Current, ECO-Mode</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>208 VAC</td>
<td>2.6 AMPS</td>
<td>0.70 AMP</td>
<td>50/60 Hz</td>
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</tbody>
</table>

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling (Traditional)</th>
<th>Cooling (Din 3168)</th>
<th>Cooling COP (at L35 L35)</th>
<th>Heating (Traditional)</th>
<th>Heating (Din 3168)</th>
<th>Heating COP</th>
<th>Heating Exchanger (ECO-Mode)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-3254</td>
<td>2235 BTU/HR</td>
<td>655 WATTS</td>
<td>0.61</td>
<td>&gt; 3294 BTU/HR</td>
<td>&gt; 937 WATTS</td>
<td>&gt; 1.0</td>
<td>18 W/°C</td>
</tr>
</tbody>
</table>

CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-3254</td>
<td>7-I4JE-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3254HC</td>
<td>7-I4IE-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3254XE</td>
<td>7-I4JE-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3254XHC</td>
<td>7-I4IE-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3254X</td>
<td>7-I4JE-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-3254XHC</td>
<td>7-I4IE-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker
**FHP-3254**

**Mounting Style**
Flush Mounted

**Environments Served**
- NEMA-12 IP 52
- NEMA-4,4X IP 56

**Rating (Traditional)**
- 2235 BTU/hr @ 0 °F ΔT
- 3077 BTU/hr @ +20 °F ΔT

**Rating (DIN 3168)**
- 655 Watts L35 L35
- 342 Watts L35 L50

---

**Dimensions**

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

---

**Performance Curve**

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

- Enclosure Air
  - $y = 0.045x - 29.5$
  - $y = 0.035x - 29.4$

- Cold Sink
  - $y = 0.0354x - 29.5$
  - $y = 0.035x - 30.4$

---

**Air Flow Pattern**
FHP-3252 Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X
2290 BTU/HR

Features
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 93 LBS.

Control Temperatures
- Active Cooling: 35 °C
- Heat Exchanger (ECO-Mode): 25 °C
- Active Heating: 10 °C
- Typical Hysteresis: 5 °C
- Operating Ambient: -40/+65 °C
- Operating Enclosure: -10/+60 °C

Power Inputs
- Voltage: 240 VAC
- Current, Active: 4.6 AMPS
- Current, ECO-Mode: 0.70 AMP
- Frequency: 50/60 Hz

Performance Ratings
- Cooling (Traditional): 2290 BTU/HR
- Cooling (Din 3168): 672 WATTS
- Cooling COP (at L35 L35): 0.61
- Heating (Traditional): > 3765 BTU/HR
- Heating (Din 3168): > 1104 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 18 W/°C

Configurations

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-3252</td>
<td>7-I4J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3252HC</td>
<td>7-I4J2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-3252XE</td>
<td>7-I4J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3252XEHC</td>
<td>7-I4J2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-3252X</td>
<td>7-I4J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-3252XHC</td>
<td>7-I4J2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

Includes
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
Air Conditioner - Air Cooled

**FHP-3252**

**Mounting Style**
Flush Mounted

**Environments Served**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**Rating (Traditional)**
- 2290 BTU/hr @ 0 °F ΔT
- 3115 BTU/hr @ +20 °F ΔT

**Rating (DIN 3168)**
- 672 Watts  L35 L35
- 360 Watts  L35 L50

---

**Performance Curve**

- Equation of line: \( y = \Delta T \)°C \( x = \) Capacity (Watts)
- Ambient Temp 35°C 50°C
  - Enclosure Air \( y = 0.046x - 30.9 \)
  - Cold Sink \( y = 0.034x - 30.9 \)

---

**Dimensions**

- External Hot Side Fans
- Internal Cold Side Fans
- (18) 10-32 Studs
- Circuit Breakers

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches (Millimeters)

Mounting Cutout: 17.20X18.90 [437X480]

---

www.teca-eu.com 1-888-TECA-USA (832-2872)

TECA
FHP-3250  Air Conditioner/Heat Exchanger

120 VAC Input
Flush Mounted
Nema-12, 4, 4X

1978 BTU/HR

FEATURES

- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 93 LBS.

CONTROL TEMPERATURES

| Active Cooling | 35 °C |
| Heat Exchanger (ECO-Mode) | 25 °C |
| Active Heating | 10 °C |
| Typical Hysteresis | 5 °C |
| Operating Ambient | -40/+65 °C |
| Operating Enclosure | -10/+60 °C |

INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

POWER INPUTS

- Voltage: 120 VAC
- Current, Active: 7.0 AMPS
- Current, ECO-Mode: 1.4 AMP
- Frequency: 50/60 Hz

PERFORMANCE RATINGS

- Cooling (Traditional): 1978 BTU/HR
- Cooling (Din 3168): 580 WATTS
- Cooling COP (at L35 L35): 0.70
- Heating (Traditional): > 2780 BTU/HR
- Heating (Din 3168): > 815 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 18 W/°C

250 VDC configuration for crane applications available
**PERFORMANCE CURVE**

<table>
<thead>
<tr>
<th>Equation of line: y = ΔT°C</th>
<th>x = Capacity (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temp</td>
<td>35°C</td>
</tr>
<tr>
<td>Enclosure Air</td>
<td>y = 0.047x - 27.2</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>y = 0.035x - 27.2</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

Dimensions do not include hardware.
Mounting hardware and gasket included but not shown.
Dimensions: Inches [Millimeters]

---

**FHP-3250**

**MOUNTING STYLE**
Flush Mounted

**ENVIRONMENTS SERVED**
NEMA-12  IP 52
NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
1978 BTU/hr @ 0 °F ΔT
2780 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
580 Watts L35 L35
275 Watts L35 L50

---

**Air Conditioner - Air Cooled**

**INPUT CORD**

---

**Mounting Cutout:** 17.20 x 18.90 [437 x 480]
FHP-2252 Air Conditioner/Heat Exchanger

**Configurations**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-2252</td>
<td>7-H5J2-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2252HC</td>
<td>7-H5I2-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2252XE</td>
<td>7-H5J2-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-2252XEHC</td>
<td>7-H5I2-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-2252X</td>
<td>7-H5J2-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-2252XHC</td>
<td>7-H5I2-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

**Features**

- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact (20.5" L X 13" W X 8.5" D)
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 66 LBS.

**Power Inputs**

- Voltage: 240 VAC
- Current, Active: 6.5 AMPS
- Current, ECO-Mode: 0.5 AMP
- Frequency: 50/60 Hz

**Performance Ratings**

- Cooling (Traditional): 1875 BTU/HR
- Cooling (Din 3168): 550 WATTS
- Cooling COP (at L35 L35): 0.35
- Heating (Traditional): > 5320 BTU/HR
- Heating (Din 3168): > 1560 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 12.5 W/°C

**Control Temperatures**

<table>
<thead>
<tr>
<th>Control Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

**Includes**

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

**250 VDC configuration for crane applications available**
**Equation of line:**

\[ y = \Delta T (°C) \]

\[ x = \text{Capacity (Watts)} \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.066x - 36.4 )</td>
<td>( y = 0.066x - 38.5 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.050x - 36.4 )</td>
<td>( y = 0.050x - 38.5 )</td>
</tr>
</tbody>
</table>

**Mounting Style:**
Flush Mounted

**Environments Served:**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**Rating (Traditional):**
- 1875 BTU/hr @ 0 °F \( \Delta T \)
- 2480 BTU/hr @ +20 °F \( \Delta T \)

**Rating (DIN 3168):**
- 550 Watts  L35 L35
- 355 Watts  L35 L50

**Dimensions:**

- External Hot Side Fans
- Mounting Surface
- Internal Cold Side Fans
- (14) 10-32 Studs
- Circuit Breaker

Dimensions do not include hardware. Mounting hardware and gasket included but not shown. Dimensions: Inches [Millimeters]
FHP-2250
Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X
120 VAC Input
High Capacity
1715 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact (20.5” L X 13” W X 8.5” D)
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 66 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th></th>
<th>Active Cooling</th>
<th>Heat Exchanger (ECO-Mode)</th>
<th>Active Heating</th>
<th>Typical Hysteresis</th>
<th>Operating Ambient</th>
<th>Operating Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
<td>25 °C</td>
<td>10 °C</td>
<td>5 °C</td>
<td>-40/+65 °C</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

- Voltage: 120 VAC
- Current, Active: 10.8 AMPS
- Current, ECO-Mode: 1 AMP
- Frequency: 50/60 Hz

PERFORMANCE RATINGS

- Cooling (Traditional): 1715 BTU/HR
- Cooling (Din 3168): 503 WATTS
- Cooling COP (at L35 L35): 0.39
- Heating (Traditional): > 4000 BTU/HR
- Heating (Din 3168): > 1200 WATTS
- Heating COP: > 1.0
- Heat Exchanger (ECO-Mode): 12.5 W/°C

250 VDC configuration for crane applications available

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-2250</td>
<td>7-H5J0-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250HC</td>
<td>7-H5I0-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250XE</td>
<td>7-H5J0-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-2250XEH</td>
<td>7-H5I0-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-2250X</td>
<td>7-H5J0-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-2250XEC</td>
<td>7-H5I0-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
**FHP-2250**

**Mounting Style**
Flush Mounted

**Environments Served**
- NEMA-12     IP 52
- NEMA-4,4X   IP 56

**Rating (Traditional)**
- 1715 BTU/hr @ 0 °F ΔT
- 2280 BTU/hr @ +20 °F ΔT

**Rating (DIN 3168)**
- 503 Watts L35 L35
- 275 Watts L35 L50

---

**Dimensions**

**Mounting Cutout Dimensions**

**Air Flow Pattern**

---

**Equation of line:** $y = \Delta T (°C) \quad x = \text{Capacity (Watts)}$

<table>
<thead>
<tr>
<th>Temperature</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y = 0.067x - 33.7$</td>
<td>$y = 0.067x - 34.9$</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>$y = 0.051x - 33.7$</td>
<td>$y = 0.051x - 33.7$</td>
</tr>
</tbody>
</table>
FHP-2250
Air Conditioner/Heat Exchanger

Air Cooled
Flush Mounted
Nema-12, 4, 4X

120 VAC Input
High Efficiency
1220 BTU/HR

FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact (20.5” L X 13” W X 8.5” D)
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 66 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>CONTROL</th>
<th>TEMPERATURE (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/65</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/60</td>
</tr>
</tbody>
</table>

POWER INPUTS

<table>
<thead>
<tr>
<th>INPUT</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>120 VAC</td>
</tr>
<tr>
<td>Current, Active</td>
<td>3.6 AMPS</td>
</tr>
<tr>
<td>Current, ECO-Mode</td>
<td>1 AMP</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>MODE</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>1220 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>358 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.83</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 1640 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 480 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>12.5 W/°C</td>
</tr>
</tbody>
</table>

INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker

250 VDC configuration for crane applications available
**Equation of line:** 
\[ y = 0.069x - 24.7 \] (°C) \[ x = \text{Capacity (Watts)} \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Enclosure Air</th>
<th>Cold Sink</th>
</tr>
</thead>
<tbody>
<tr>
<td>35°C</td>
<td>( y = 0.069x - 24.7 )</td>
<td>( y = 0.053x - 24.7 )</td>
</tr>
<tr>
<td>50°C</td>
<td>( y = 0.069x - 25.4 )</td>
<td>( y = 0.053x - 25.4 )</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- External Hot Side Fans: 13.02 [331]
- Internal Cold Side Fans: 8.53 [217]
- Input Cord: 6.10 [155]
- (14) 10-32 Studs: 20.06 [509]
- Height: 9.89 [251]
- Width: 6.10 [155]
- Depth: 5.50 [140]

**Mounting Cutout Dimensions**

- Height: 9.89 [251]
- Width: 6.10 [155]
- Depth: 5.50 [140]

---

**FHP-2250**

- **Mounting Style:** Flush Mounted
- **Environments Served:**
  - NEMA-12 IP 52
  - NEMA-4,4X IP 56
- **Rating (Traditional):**
  - 1220 BTU/hr @ 0 °F \( \Delta T \)
  - 1770 BTU/hr @ +20 °F \( \Delta T \)
- **Rating (DIN 3168):**
  - 358 Watts L35 L35
  - 150 Watts L35 L50

---

**Air Flow Pattern**

---

**Air Conditioner - Air Cooled**
# FHP-2250 Air Conditioner/Heat Exchanger

**Air Cooled**
**Flush Mounted**
**Nema-12, 4, 4X**

## FEATURES
- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Compact (20.5" L X 13" W X 8.5" D)
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 66 LBS.

## CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+65 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

## POWER INPUTS

- **Voltage**: 24 VDC
- **Current, Active**: 15 AMPS
- **Current, ECO-Mode**: 1.9 AMP

## PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Mode</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>1250 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>367 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>1.02</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 1220 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 367 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.02</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>12.5 W/°C</td>
</tr>
</tbody>
</table>

## CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-2250</td>
<td>7-H4J5-0-000</td>
<td>Cool only, industrial fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250HC</td>
<td>7-H4I5-1-000</td>
<td>Heat/Cool, industrial fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-2250XE</td>
<td>7-H4J4-4-000</td>
<td>Cool only, sealed hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-2250XEH</td>
<td>7-H4I5-5-000</td>
<td>Heat/Cool, sealed hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-2250X</td>
<td>7-H4J5-2-000</td>
<td>Cool only, Mil. grade hot side fans &amp; power supply</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-2250XHC</td>
<td>7-H4I5-3-000</td>
<td>Heat/Cool, Mil. grade hot side fans &amp; power supply</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

*250 VDC configuration for crane applications available*

## INCLUDES
- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker
**FHP-2250**

**MOUNTING STYLE**
Flush Mounted

**ENVIRONMENTS SERVED**
- NEMA-12  IP 52
- NEMA-4,4X  IP 56

**RATING (TRADITIONAL)**
- 1250 BTU/hr @ 0 °F ΔT
- 1776 BTU/hr @ +20 °F ΔT

**RATING (DIN 3168)**
- 367 Watts L35 L35
- 168 Watts L35 L50

---

**PERFORMANCE CURVE**

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

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.072x - 26.4 )</td>
<td>( y = 0.072x - 27.1 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.056x - 26.4 )</td>
<td>( y = 0.056x - 27.1 )</td>
</tr>
</tbody>
</table>

---

**DIMENSIONS**

**MOUNTING CUTOUT DIMENSIONS**

- External Hot Side Fans
- Mounting Surface
- Internal Cold Side Fans
- (14) 10-32 Studs
- Circuit Breaker

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

---

www.teca-eu.com  1-888-TECA-USA (832-2872)
FHP-1501 Air Conditioner

**FHP-1501**
- Air Cooled
- Flush Mounted
- NEMA-12, NEMA-4

**Features**
- Externally mounted (no intrusion)
- Mounts in multi-unit array for incremental capacity
- Mounts in any orientation (condensate control may not work properly in all orientations)
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Dual voltage (120/240 VAC)
- Custom finishes
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Agency approvals: UL1995, CSA22.2, CE
- Weight 55 LBS.

**Power Inputs**
- Voltage: 120/240 VAC
- Current, Active: 8.0/5.5 AMPS

**Performance Ratings**
- Cooling (Traditional): 950 BTU/HR
- Cooling (Din 3168): 278 WATTS
- Cooling COP (at L35 L35): 0.29

**Includes**
- Integral power supply
- Mounting gasket and hardware
- Power input cord
- Condensate control system

**Configurations**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-1501</td>
<td>7-2181-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501</td>
<td>7-21F1-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501</td>
<td>7-2151-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2131-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-3F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2151-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501XE</td>
<td>7-2181-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XE</td>
<td>7-21F1-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XE</td>
<td>7-2151-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XEHC</td>
<td>7-2131-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-3F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XEHC</td>
<td>7-2151-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

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

**Control Temperatures**

<table>
<thead>
<tr>
<th>Control Temperatures</th>
<th>Active Heat</th>
<th>ECO-Mode</th>
<th>Active Cool</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
</tbody>
</table>

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
PERFORMANCE CURVE

Equation of line: \( y = mT + b \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.117x - 30.6 )</td>
<td>( y = 0.117x - 32.6 )</td>
<td>( y = 0.117x - 35.0 )</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>( y = 0.093x - 30.6 )</td>
<td>( y = 0.093x - 32.6 )</td>
<td>( y = 0.093x - 35.0 )</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

MOUNTING CUTOUT DIMENSIONS

Air Conditioner - Air Cooled

FHP-1501

Mounting Style
Flush Mounted

Environments Served
- NEMA-12   IP 52
- NEMA-4    IP 56

Rating (Traditional)
- 950 BTU/hr @ 0 °F \( \Delta T \)
- 1270 BTU/hr @ +20 °F \( \Delta T \)

Rating (DIN 3168)
- 278 Watts L35 L35
- 162 Watts L35 L50

Air Flow Pattern
FHP-1501 Air Conditioner

**FEATURES**
- Externally mounted (no intrusion)
- Mounts in multi-unit array for incremental capacity
- Compact (only 15” X 12” X 9”)
- Mounts in any orientation (condensate control may not work properly in all orientations)
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Custom finishes
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 55 LBS.

**POWER INPUTS**
- Voltage 24 VDC
- Current, Active 18 AMPS

**PERFORMANCE RATINGS**
- Cooling (Traditional) 950 BTU/HR
- Cooling (Din 3168) 278 WATTS
- Cooling COP (at L35 L35) 0.64
- Heating (Traditional) 1470 BTU/HR
- Heating (Din 3168) 430 WATTS
- Heating COP (at L35 L35) > 1.0

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Control</th>
<th>Active Heat °C</th>
<th>ECO-Mo de °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-7F</td>
<td>10</td>
<td>25</td>
<td>35</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Mounting gasket and hardware
- Power input leads
- Condensate control system

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-1501</td>
<td>7-2185-0-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501</td>
<td>7-21F5-0-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501</td>
<td>7-2155-0-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2135-1-000</td>
<td>Cool only</td>
<td>TC-3F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2115-1-000</td>
<td>Heat/Cool</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-2155-1-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-1501HC</td>
<td>7-21H5-1-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-1501XE</td>
<td>7-2185-4-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XE</td>
<td>7-21F5-4-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XE</td>
<td>7-2155-4-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XEHC</td>
<td>7-2135-5-000</td>
<td>Cool only</td>
<td>TC-3F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XEHC</td>
<td>7-2115-5-000</td>
<td>Heat/Cool</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XEHC</td>
<td>7-2155-5-000</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-1501XEHC</td>
<td>7-21H5-5-000</td>
<td>Heat/Cool</td>
<td>TC-4600</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

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

250 VDC configuration for crane applications available
PERFORMANCE CURVE

Equation of line: \( y = \frac{T(\circ C)}{H9004} x \)  

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>y=.117x-30.6</td>
<td>y=.117x-32.6</td>
<td>y=.117x-35.0</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>y=.093x-30.6</td>
<td>y=.093x-32.6</td>
<td>y=.093x-35.0</td>
</tr>
</tbody>
</table>

DIMENSIONS

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

MOUNTING CUTOUT DIMENSIONS

Air Conditioner - Air Cooled

FHP-1501

MOUNTING STYLE
Flush Mounted

ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4 IP 56

RATING (TRADITIONAL)
950 BTU/hr @ 0 °F \( \Delta T \)
1270 BTU/hr @ +20 °F \( \Delta T \)

RATING (DIN 3168)
278 Watts L35 L35
162 Watts L35 L50

Air Flow Pattern

www.teca-eu.com 1-888-TECA-USA (832-2872)
**FHP-750 Air Conditioner**

- **Air Cooled 120 VAC, 240 VAC Input**
- **Flush Mounted 430 BTU/HR**
- **NEMA-12, NEMA-4**

**FEATURES**

- Externally mounted, no intrusion
- Compact (only 12”L X 6”W X 9”D)
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- NEMA-4 and NEMA-12 versions
- Both 120 VAC and 240 VAC available
- Mounts in any orientation (condensate control may not work properly in all orientations)
- Custom finishes
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Agency approvals: UL1995, CSA22.2, CE
- Weight: (FHP-750 16 LBS.) (FHP-752 23 LBS.)

**POWER INPUTS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current, Active (Nema-12)</th>
<th>Current, Active XE (Nema-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>120/240 VAC</td>
<td>4.0/2.5 AMPs</td>
<td>5.0/2.5 AMPs</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

- Cooling (Traditional) 430 BTU/HR
- Cooling (Din 3168) 125 WATTS
- Cooling COP (at L35 L35) 0.26

**INCLUDES**

- Integral power supply
- Mounting gasket and hardware
- Power input cord
- Condensate control system

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPs</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-750</td>
<td>7-A580-0-000</td>
<td>120</td>
<td>4.0</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750</td>
<td>7-A5F0-0-000</td>
<td>120</td>
<td>4.0</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750</td>
<td>7-A550-0-000</td>
<td>120</td>
<td>4.0</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-752</td>
<td>7-A582-0-000</td>
<td>240</td>
<td>2.5</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-752</td>
<td>7-A5F2-0-000</td>
<td>240</td>
<td>2.5</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-752</td>
<td>7-A552-0-000</td>
<td>240</td>
<td>2.5</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPs</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-750XE</td>
<td>7-A580-4-000</td>
<td>120</td>
<td>5.0</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A5F0-4-000</td>
<td>120</td>
<td>5.0</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A550-4-000</td>
<td>120</td>
<td>5.0</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-752XE</td>
<td>7-A582-4-000</td>
<td>240</td>
<td>2.5</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>FHP-752XE</td>
<td>7-A5F2-4-000</td>
<td>240</td>
<td>2.5</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-752XE</td>
<td>7-A552-4-000</td>
<td>240</td>
<td>2.5</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

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

---

**TECA**

1-888-TECA-USA (832-2872)  
www.teca-usa.com
PERFORMANCE CURVE

Equation of line: \[ y = \frac{\Delta T(°C)}{H9004} \times \text{Capacity (Watts)} \]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>(0.29x - 34.5)</td>
<td>(0.29x - 36.5)</td>
<td>(0.29x - 38.5)</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>(0.18x - 34.5)</td>
<td>(0.18x - 36.5)</td>
<td>(0.18x - 38.5)</td>
</tr>
</tbody>
</table>

MOUNTING STYLE
- Flush Mounted

ENVIRONMENTS SERVED
- NEMA-12 IP 52
- NEMA-4 IP 56

RATING (TRADITIONAL)
- 430 BTU/hr @ 0 °F \(\Delta T\)
- 560 BTU/hr @ +20 °F \(\Delta T\)

RATING (DIN 3168)
- 125 Watts L35 L35
- 78 Watts L35 L50

DIMENSIONS

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

www.teca-eu.com  1-888-TECA-USA (832-2872)
FHP-750 Air Conditioner

**FEATURES**
- Externally mounted, no intrusion
- Compact (only 12” L X 6” W X 9” D)
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- NEMA-4 and NEMA-12 versions
- Both 120 VAC and 240 VAC available
- Mounts in any orientation (condensate control may not work properly in all orientations)
- Custom finishes
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 16 LBS.

**POWER INPUTS**
- Voltage: 24 VDC
- Current, Active: 9.0 AMPS

**PERFORMANCE RATINGS**
- Cooling (Traditional): 430 BTU/HR
- Cooling (Din 3168): 125 WATTS
- Cooling COP (at L35 L35): 0.58
- Heating (Traditional): 735 BTU/HR
- Cooling (Din 3168): 216 WATTS
- Heating COP (at L35 L35): > 1.0

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Control</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Mounting gasket and hardware
- Power input leads
- Condensate control system

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-750</td>
<td>7-A585-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-6F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750</td>
<td>7-A5F5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-1F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750</td>
<td>7-A555-0-000</td>
<td>Cool only, industrial fans</td>
<td>EXT*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750HC</td>
<td>7-A395-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>EXT†</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A585-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-6F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A5F5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-1F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-750XE</td>
<td>7-A555-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>EXT*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-750XEHC</td>
<td>7-A395-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>EXT†</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

* Unit is set for 5-32 VDC external signal, relay(s) included
† Unit can be used with external H-Bridge and controller
Equation of line: $y = \Delta T(°C)$ $x = $Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y = 0.29x - 34.5$</td>
<td>$y = 0.29x - 36.5$</td>
<td>$y = 0.29x - 38.5$</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>$y = 0.18x - 34.5$</td>
<td>$y = 0.18x - 36.5$</td>
<td>$y = 0.18x - 38.5$</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

**MOUNTING CUTOUT DIMENSION**

- Circuit Breaker (VAC models)
- Temp. Adjustment (TC-8F models)

**Air Flow Pattern**
FHP-590
Air Conditioner/Heat Exchanger

FEATURES
- Compact (only 10" X 5.86" X 7.97")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-590</td>
<td>7-G0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-590HC</td>
<td>7-G0J5-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-590HC</td>
<td>7-G0I5-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-590XE</td>
<td>7-G0J5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-590XEHC</td>
<td>7-G0J5-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-590XEH</td>
<td>7-G0I5-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-590X</td>
<td>7-G0J5-2-001</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-590XEHC</td>
<td>7-G0J5-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-590XHC</td>
<td>7-G0I5-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

POWER INPUTS
- Voltage 24 VDC
- Current, Active 6.9 AMPS
- Current, ECO-Mode 0.3 AMPS

PERFORMANCE RATINGS
- Cooling (Traditional) 416 BTU/HR
- Cooling (Din 3168) 124 WATTS
- Cooling COP (at L35 L35) 0.75
- Heating (Traditional) > 562 BTU/HR
- Heating (Din 3168) > 165 WATTS
- Heating COP > 1.0

PERFORMANCE
- Active Cooling 35 °C
- Heat Exchanger (ECO-Mode) 25 °C
- Active Heating 10 °C
- Typical Hysteresis 5 °C
- Operating Ambient -40/+70 °C
- Operating Enclosure -10/+60 °C

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
PERFORMANCE CURVE

Equation of Line: \( y = \frac{\Delta T}{(\text{ambient temp})} \times \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>( y )</th>
<th>( y )</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°C</td>
<td>.25x-30.5</td>
<td>.25x-32.7</td>
</tr>
<tr>
<td>60°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FHP-590

Air Conditioner - Air Cooled

MOUNTING STYLE
- Flush Mounted

ENVIRONMENTS SERVED
- NEMA-12 IP 52
- NEMA-4 IP 56

RATING (TRADITIONAL)
- 415 BTU/hr @ 0°F \( \Delta T \)
- 563 BTU/hr @ +20°F \( \Delta T \)

RATING (DIN 3168)
- 124 Watts L35 L35
- 68 Watts L35 L50

DIMENSIONS

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

MOUNTING CUTOUT DIMENSIONS

www.teca-eu.com 1-888-TECA-USA (832-2872)

TECA
FHP-570  Air Conditioner/Heat Exchanger

FHP-570  
Air Cooled  
Flush Mounted  
Nema-12, 4, 4X  
24 VDC  
High Efficiency  
250 BTU/HR

FEATURES
- Compact (only 10" X 5.86" X 7.97")
- Mounts and operates in any orientation: horizontal, vertical, etc
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Model</th>
<th>Control</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-570</td>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td></td>
<td>Heat Exchanger</td>
<td>25 °C</td>
</tr>
<tr>
<td>FHP-570HC</td>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>FHP-570XE</td>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>FHP-570XEHC</td>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>FHP-570X</td>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

- Voltage: 24 VDC
- Current, Active: 3.0 AMPS
- Current, ECO-Mode: 0.3 AMPS

PERFORMANCE RATINGS

- Cooling (Traditional): 251 BTU/HR
- Cooling (Din 3168): 75 WATTS
- Cooling COP (at L35 L35): 1.04
- Heating (Traditional): > 245 BTU/HR
- Heating (Din 3168): > 72 WATTS
- Heating COP: > 1.0

CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-570</td>
<td>7-G0J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-570HC</td>
<td>7-G095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-570X</td>
<td>7-G0J5-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-570XHC</td>
<td>7-G095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-570HC</td>
<td>7-G0I5-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-570XE</td>
<td>7-G0J5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-570XEHC</td>
<td>7-G0J5-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-570X</td>
<td>7-G0I5-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-570XHC</td>
<td>7-G0I5-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
PERFORMANCE CURVE

Equation of Line: $y = \frac{1}{90}x - 22.9$  

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-570</td>
<td>$y = 0.31x - 22.9$</td>
<td>$y = 0.31x - 24.2$</td>
</tr>
</tbody>
</table>

Mounting Style
- Flush Mounted

Environments Served
- NEMA-12, IP 52
- NEMA-4, IP 56

Rating (Traditional)
- 250 BTU/hr @ 0°F $\Delta T$
- 372 BTU/hr @ +20°F $\Delta T$

Rating (DIN 3168)
- 75 Watts L35 L35
- 27 Watts L35 L50

Dimensions

Mounting Cutout Dimensions

* Dimension does not include hardware and gasket
  Mounting hardware and gasket included but not shown
  Dimensions: Inches [Millimeters]
FHP-451 Air Conditioner

Air Cooled
Flush Mounted
Nema-12

120 VAC or 240 VAC
300 BTU/HR

FEATURES
- Compact (only 10” X 5.86” X 9”)
- Mounts and operates in any orientation: horizontal, vertical, etc
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Suitable for NEMA-12 (IP 52) environment
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 18 LBS.

CONTROL TEMPERATURES

| Active Cooling (TC-1F, TC-3F) | 35 °C |
| Active Heating (TC-3F) | 10 °C |
| Typical Hysteresis | 5 °C |
| Operating Ambient | -40/+70 °C |
| Operating Enclosure | -10/+60 °C |

PERFORMANCE RATINGS

| Cooling (Traditional) | 342 BTU/HR |
| Cooling (Din 3168) | 102 WATTS |
| Cooling COP (at L35 L35) | 0.65 |

POWER INPUTS

| Voltage | 120 or 240 VAC |
| Current, Active | 1.3 / 0.71 AMPS |

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Integral power input cord

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPS</th>
<th>TEMPERATURE CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-451</td>
<td>7-F090-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>None</td>
</tr>
<tr>
<td>FHP-451</td>
<td>7-F080-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>TC-6F</td>
</tr>
<tr>
<td>FHP-451</td>
<td>7-F0F0-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>TC-1F</td>
</tr>
<tr>
<td>FHP-451</td>
<td>7-F050-0-000</td>
<td>Cool only</td>
<td>120</td>
<td>1.3</td>
<td>EXT*</td>
</tr>
<tr>
<td>FHP-451HC</td>
<td>7-F030-1-000</td>
<td>Heat/Cool</td>
<td>120</td>
<td>1.3</td>
<td>TC-3F</td>
</tr>
<tr>
<td>FHP-452</td>
<td>7-F092-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>None</td>
</tr>
<tr>
<td>FHP-452</td>
<td>7-F082-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>TC-6F</td>
</tr>
<tr>
<td>FHP-452</td>
<td>7-F0F2-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>TC-1F</td>
</tr>
<tr>
<td>FHP-452</td>
<td>7-F052-0-000</td>
<td>Cool only</td>
<td>240</td>
<td>0.70</td>
<td>EXT*</td>
</tr>
<tr>
<td>FHP-452HC</td>
<td>7-F032-1-000</td>
<td>Heat/Cool</td>
<td>240</td>
<td>0.70</td>
<td>TC-3F</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
PERFORMANCE CURVE

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>20°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>( y = 0.26x - 23.1 )</td>
<td>( y = 0.26x - 25.3 )</td>
</tr>
</tbody>
</table>

Equation of Line: \( y = \Delta T^\circ C \) \( x \) = Capacity (Watts)

DIMENSIONS

MOUNTING CUTOUT DIMENSIONS

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

MOUNTING STYLE
Flush Mounted

ENVIROMENTS SERVED
NEMA-12  IP 52

RATING (TRADITIONAL)
300 BTU/hr @ 0 °F \( \Delta T \)
447 BTU/hr @ +20 °F \( \Delta T \)

RATING (DIN 3168)
91 Watts L35 L35
38 Watts L35 L50

Air Conditioner - Air Cooled

FHP-451

Air Flow Pattern
FHP-401 Air Conditioner

Air Cooled
Flush Mounted
Nema-12

120 VAC or 240 VAC
190 BTU/HR

FEATURES
- Compact (only 10” X 5.86” X 9”)
- Mounts and operates in any orientation: horizontal, vertical, etc
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Suitable for NEMA-12 (IP 52) environment
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 18 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Active Cooling (TC-1F, TC-3F)</th>
<th>Active Heating (TC-3F)</th>
<th>Typical Hysteresis</th>
<th>Operating Ambient</th>
<th>Operating Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-401F</td>
<td>35 °C</td>
<td>10 °C</td>
<td>5 °C</td>
<td>-40/+70 °C</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Voltage</th>
<th>Current, Active</th>
<th>Temperature Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-401</td>
<td>120 or 240 VAC</td>
<td>1.2 / 0.65 AMPS</td>
<td></td>
</tr>
<tr>
<td>FHP-402</td>
<td>240 VAC</td>
<td>0.65</td>
<td></td>
</tr>
</tbody>
</table>

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Integral power input cord

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>VOLTAGE VAC</th>
<th>CURRENT AMPS</th>
<th>TEMPERATURE CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-401</td>
<td>7-F090-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>None</td>
</tr>
<tr>
<td>FHP-401</td>
<td>7-F080-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>TC-6F</td>
</tr>
<tr>
<td>FHP-401</td>
<td>7-F090-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>None</td>
</tr>
<tr>
<td>FHP-401</td>
<td>7-F050-0-001</td>
<td>Cool only</td>
<td>120</td>
<td>1.2</td>
<td>TC-1F</td>
</tr>
<tr>
<td>FHP-401HC</td>
<td>7-F030-1-001</td>
<td>Heat/Cool</td>
<td>120</td>
<td>1.2</td>
<td>TC-3F</td>
</tr>
<tr>
<td>FHP-402</td>
<td>7-F092-0-001</td>
<td>Cool only</td>
<td>240</td>
<td>0.65</td>
<td>None</td>
</tr>
<tr>
<td>FHP-402</td>
<td>7-F082-0-001</td>
<td>Cool only</td>
<td>240</td>
<td>0.65</td>
<td>TC-6F</td>
</tr>
<tr>
<td>FHP-402</td>
<td>7-F052-0-001</td>
<td>Cool only</td>
<td>240</td>
<td>0.65</td>
<td>TC-1F</td>
</tr>
<tr>
<td>FHP-402HC</td>
<td>7-F032-1-001</td>
<td>Heat/Cool</td>
<td>240</td>
<td>0.65</td>
<td>TC-3F</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
**PERFORMANCE CURVE**

![Performance Curve Graph]

**Equation of Line:**
\[
y = \frac{\Delta T (\degree C)}{9004} x = \text{Capacity (Watts)}
\]

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>30(^\circ)C</th>
<th>50(^\circ)C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>(y = 0.69x - 38)</td>
<td>(y = 0.69x - 39)</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **External Hot Side Fan**
- **Mounting Surface**
- **Internal Cold Side Fan**

**MOUNTING CUTOUT DIMENSIONS**

- **\(\varnothing 4.700 [\varnothing 119]\)**
- **4.51 [114]**
- **5.51 [140]**
- **6.65 [168]**
- **3.51 [90]**
- **1.50 [38]**

* Dimension does not include hardware and gasket
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
### FHP-470 Air Conditioner/Heat Exchanger

**Specifications**
- **Air Cooled**
- **Flush Mounted**
- **Nema-12, 4, 4X**

**Control Temperatures**

<table>
<thead>
<tr>
<th>Control</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

**Power Inputs**

- **Voltage**: 24 VDC
- **Current, Active**: 7.0 AMPS
- **Current, ECO-Mode**: 0.3 AMPS

**Performance Ratings**

<table>
<thead>
<tr>
<th>Type</th>
<th>BTU/HR</th>
<th>Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>259</td>
<td>80</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.48</td>
<td></td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 572</td>
<td></td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 168</td>
<td></td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
<td></td>
</tr>
</tbody>
</table>

**Configurations**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-470</td>
<td>7-F0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-470HC</td>
<td>7-F095-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-470HC</td>
<td>7-F015-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-470XE</td>
<td>7-F0J5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-470XEHC</td>
<td>7-F095-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-470XEHC</td>
<td>7-F015-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-470X</td>
<td>7-F0J5-2-001</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-470XHC</td>
<td>7-F095-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-470XHC</td>
<td>7-F015-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)

**Features**

- Compact (only 10" X 5.86" X 7.97")
- Mounts and operates in any orientation: horizontal, vertical, etc
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.
### PERFORMANCE CURVE

**Equation of Line:**

\[ y = \frac{37}{100}x - 28.1 \quad \text{for Ambient Temp 20°C} \\
\[ y = \frac{37}{100}x - 30.9 \quad \text{for Ambient Temp 60°C} \\

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>Equation</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°C</td>
<td>[ y = \frac{37}{100}x - 28.1 ]</td>
</tr>
<tr>
<td>60°C</td>
<td>[ y = \frac{37}{100}x - 30.9 ]</td>
</tr>
</tbody>
</table>

**Air Conditioner - Air Cooled**

**FHP-470**

- **Mounting Style:** Flush Mounted
- **Environments Served:**
  - NEMA-12: IP 52
  - NEMA-4: IP 56
- **Rating (Traditional):**
  - 260 BTU/hr @ 0 °F ΔT
  - 360 BTU/hr @ +20 °F ΔT
- **Rating (DIN 3168):**
  - 80 Watts: L35 L35
  - 40 Watts: L35 L50

**DIMENSIONS**

- **Air Flow Pattern**

**Mounting Cutout Dimensions**

- \( \phi 4.700 \) [\( \phi 119 \)]
- 4.51 [114]
- 1.00 [25]
- 1.93 [49]
- 4.48 [114]
- 3.47 [88]
- 1.93 [49]

*Dimension does not include hardware and gasket. Mounting hardware and gasket included but not shown.*

Dimensions: Inches [Millimeters]

www.teca-eu.com 1-888-TECA-USA (832-2872)
FHP-450
Air Conditioner/Heat Exchanger

FEATURES
- Compact (only 10” X 5.84” X 7.97”)
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Control Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

<table>
<thead>
<tr>
<th></th>
<th>Voltage</th>
<th>Current, Active</th>
<th>Current, ECO-Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 VDC</td>
<td>2.3 AMPS</td>
<td>0.3 AMPS</td>
</tr>
</tbody>
</table>

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Mode</th>
<th>BTU/HR</th>
<th>WATTS</th>
<th>COP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>197</td>
<td>53</td>
<td>0.96</td>
</tr>
<tr>
<td>Cooling (DIN 3168)</td>
<td>&gt; 188</td>
<td>&gt; 55</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 188</td>
<td>&gt; 55</td>
<td>&gt; 1.0</td>
</tr>
<tr>
<td>Heating (DIN 3168)</td>
<td>&gt; 188</td>
<td>&gt; 55</td>
<td>&gt; 1.0</td>
</tr>
</tbody>
</table>

INCLUDES
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

CONFIGURATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP-450</td>
<td>7-F0J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-450HC</td>
<td>7-F0J5-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-450HC</td>
<td>7-F0J5-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>FHP-450XE</td>
<td>7-F0J5-3-000</td>
<td>Cool only, sealed hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-450XEH</td>
<td>7-F0J5-3-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-450XEH</td>
<td>7-F0J5-3-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>FHP-450X</td>
<td>7-F0J5-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-450XHC</td>
<td>7-F0J5-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>FHP-450XHC</td>
<td>7-F0J5-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
**PERFORMANCE CURVE**

![Performance Curve Graph]

**Equation of Line:** \( y = \frac{37}{100}x - 19.5 \) (for 20°C ambient)

- **Ambient Temp**
  - 20°C
  - 60°C
  - FHP-450

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>FHP-450</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°C</td>
<td>( y = \frac{37}{100}x - 19.5 )</td>
</tr>
<tr>
<td>60°C</td>
<td>( y = \frac{37}{100}x - 21.2 )</td>
</tr>
</tbody>
</table>

**MOUNTING STYLE**
- Flush Mounted

**ENVIRONMENTS SERVED**
- NEMA-12 IP 52
- NEMA-4 IP 56

**RATING (TRADITIONAL)**
- 180 BTU/hr @ 0 °F \( \Delta T \)
- 280 BTU/hr @ +20 °F \( \Delta T \)

**RATING (DIN 3168)**
- 53 Watts L35 L35
- 15 Watts L35 L5

**DIMENSIONS**

- External Hot Side Fan
  - 10.00 [254]
  - 5.86 [149]

- Mounting Surface
  - 7.97 [202]

- Internal Cold Side Fan
  - 3.51 [89]
  - 5.51 [140]

- Power Input Leads
  - (6) 10-32 Pems

**MOUNTING CUTOUT DIMENSIONS**

- Ø4.700 [Ø119]
  - 4.51 [114]
  - 1.50 [38]
  - 2.15 [55]

*Dimension does not include hardware and gasket.
Mounting hardware and gasket included but not shown.
Dimensions: Inches [Millimeters]*
IHP-690
Internal Mount Air Conditioner/Heat Exchanger

Air Cooled
Internal Mounted
Nema-12, 4, 4X

24 VDC
390 BTU/HR

FEATURES
- Compact (only 17.4” X 8” X 7.8”)
- Mounts and operates in any orientation, inside enclosure
- Available in two installation styles:
  - Style A: Installs from inside of the enclosure
  - Style B: Installs from outside of the enclosure
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 17 LBS.

CONTROL TEMPERATURES
| Active Cooling       | 35 °C |
| Heat Exchanger (ECO-Mode) | 25 °C |
| Active Heating       | 10 °C |
| Typical Hysteresis   | 5 °C  |
| Operating Ambient    | -40/+70 °C |
| Operating Enclosure  | -10/+60 °C |

POWER INPUTS
- Voltage 24 VDC
- Current, Active 15 AMPS
- Current, ECO-Mode 0.5 AMPS

PERFORMANCE RATINGS
- Cooling (Traditional) 392 BTU/HR
- Cooling (Din 3168) 115 WATTS
- Cooling COP (at L35 L35) 0.44
- Heating (Traditional) > 900 BTU/HR
- Heating (Din 3168) > 264 WATTS
- Heating COP > 1.0

INCLUDES
- Temperature controller
- Mounting gasket and hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

Picture above shows both installation styles
Shown on the left is the Style A (installs from inside of the enclosure)
Shown on the right is the Style B (installs from outside of the enclosure)
**PERFORMANCE CURVE**

Equation of Line: \( y = \frac{1}{9004} T(\degree C) \)  
\( x = \) Capacity (Watts)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>IHP-690</th>
<th>IHP-690HC</th>
</tr>
</thead>
<tbody>
<tr>
<td>35°C</td>
<td>( y = 0.31x - 35.4 )</td>
<td>( y = 0.31x - 38.2 )</td>
</tr>
<tr>
<td>50°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>INSTALLATION STYLE</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-690</td>
<td>B-M0J5-0-000</td>
<td>Cool only, industrial fans</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-690HC</td>
<td>B-M095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-690HC</td>
<td>B-M015-1-000</td>
<td>Heat/Cool, industrial fans</td>
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</tr>
<tr>
<td>IHP-690XE</td>
<td>B-M0J5-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-690XEHC</td>
<td>B-M095-5-000</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>A</td>
<td>None*</td>
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<td>Heat/Cool, sealed hot side fan</td>
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<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
DIMENSIONS (Style A: Installs from inside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

DIMENSIONS (Style B: Installs from outside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
IHP-590 Internal Mount Air Conditioner/Heat Exchanger

Air Cooled
Internal Mounted
Nema-12, 4, 4X

24 VDC
315 BTU/HR

FEATURES
- Compact (only 17.4” X 8” X 7.8”)
- Mounts and operates in any orientation, inside enclosure
- Available in two installation styles:
  - Style A: Installs from inside of the enclosure
  - Style B: Installs from outside of the enclosure
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Active Cooling</th>
<th>35 °C</th>
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</thead>
<tbody>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

POWER INPUTS

| Voltage | 24 VDC |
| Current, Active | 6.9 AMPS |
| Current, ECO-Mode | 0.3 AMPS |

PERFORMANCE RATINGS

| Cooling (Traditional) | 315 BTU/HR |
| Cooling (Din 3168) | 92 WATTS |
| Cooling COP (at L35 L35) | 0.56 |
| Heating (Traditional) | > 562 BTU/HR |
| Heating (Din 3168) | > 165 WATTS |
| Heating COP | > 1.0 |

INCLUDES
- Temperature controller
- Mounting gasket and hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

Picture above shows both installation styles
Shown on the left is the Style A (installs from inside of the enclosure)
Shown on the right is the Style B (installs from outside of the enclosure)
**PERFORMANCE CURVE**

**Equation of Line:**
\[ y = \frac{H}{9004} T(°C) \]
\[ x = \text{Capacity (Watts)} \]

**Ambient Temp**
- 35°C
- 50°C

**IHP-590**
\[ y = 0.23x - 21.2 \]
\[ y = 0.23x - 22.5 \]

---

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>INSTALLATION STYLE</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-590</td>
<td>B-G0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-590HC</td>
<td>B-G095-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-590HC</td>
<td>B-G015-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-590XE</td>
<td>B-G0J5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-590XEHC</td>
<td>B-G095-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
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<td>IHP-590XHC</td>
<td>B-G015-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
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<td>B-G0J5-5-001</td>
<td>Cool only, industrial fans</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-590HC</td>
<td>B-G095-1-101</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-590HC</td>
<td>B-G015-1-101</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-590XE</td>
<td>B-G0J5-4-101</td>
<td>Cool only, sealed hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-590XEHC</td>
<td>B-G095-5-101</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
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<td>IHP-590XHC</td>
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<tr>
<td>IHP-590X</td>
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<td>Cool only, Mil. grade hot side fan</td>
<td>B</td>
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<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-590HC</td>
<td>B-G095-2-101</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>IHP-590HC</td>
<td>B-G095-3-101</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-590XHC</td>
<td>B-G015-3-101</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)

---

**MOUNTING STYLE**
- Internal Mounted

**ENVIRONMENTS SERVED**
- NEMA-12     IP 52
- NEMA-4,4X   IP 56

**RATING (TRADITIONAL)**
- 315 BTU/hr @ 0 °F \(\Delta T\)
- 479 BTU/hr @ +20 °F \(\Delta T\)

**RATING (DIN 3168)**
- 92 Watts  L35 L35
- 32 Watts  L35 L50

---

**Air Conditioner - Air Cooled**

**Air Flow Pattern**
DIMENSIONS (Style A: Installs from inside of the enclosure)

Cold side Fan
Mounting Surface
Hot Side Fan
Mounting Cutout Dimensions

Enclosure

DIMENSIONS (Style B: Installs from outside of the enclosure)

Cold Side Fan
Mounting Flange
Hot Side Fan
Mounting Cutout Dimensions

Enclosure

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
**IHP-570**

**Internal Mount Air Conditioner/Heat Exchanger**

- Air Cooled
- Internal Mounted
- Nema-12, 4, 4X
- 24 VDC
- High Efficiency
- 240 BTU/HR

**FEATURES**

- Compact (only 17.4” X 8” X 7.8”)
- Mounts and operates in any orientation, inside enclosure
- Available in two installation styles:
  - **Style A**: Installs from inside of the enclosure
  - **Style B**: Installs from outside of the enclosure
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight: 16 LBS.

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
</tr>
<tr>
<td>Heat Exchanger (ECO-Mode)</td>
<td>25 °C</td>
</tr>
<tr>
<td>Active Heating</td>
<td>10 °C</td>
</tr>
<tr>
<td>Typical Hysteresis</td>
<td>5 °C</td>
</tr>
<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
</tr>
<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
</tr>
</tbody>
</table>

**POWER INPUTS**

<table>
<thead>
<tr>
<th>Input</th>
<th>Voltage</th>
<th>Current, Active</th>
<th>Current, ECO-Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24 VDC</td>
<td>3.0 AMPS</td>
<td>0.3 AMPS</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>240 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>70 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.97</td>
</tr>
<tr>
<td>Heating (Traditional)</td>
<td>&gt; 245 BTU/HR</td>
</tr>
<tr>
<td>Heating (Din 3168)</td>
<td>&gt; 72 WATTS</td>
</tr>
<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
</tbody>
</table>

**INCLUDES**

- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

---

Picture above shows both installation styles
Shown on the left is the **Style A** (installs from inside of the enclosure)
Shown on the right is the **Style B** (installs from outside of the enclosure)
Equation of Line: \( y = \frac{\Delta T (\degree C)}{x} \)  

### Ambient Temp  

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Notes</th>
<th>Installation Style</th>
<th>Temperature Control</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-570</td>
<td>B-G015-0-000</td>
<td>Cool only, industrial fans</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-570HC</td>
<td>B-G095-1-000</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-570HC</td>
<td>B-G015-1-000</td>
<td>Heat/Cool, industrial fans</td>
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<tr>
<td>IHP-570XE</td>
<td>B-G015-4-000</td>
<td>Cool only, sealed hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<tr>
<td>IHP-570XEHC</td>
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<td>Heat/Cool, sealed hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-570X</td>
<td>B-G015-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
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<td>B-G095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>A</td>
<td>None*</td>
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<td>B-G015-0-100</td>
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<td>B-G015-3-100</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
DIMENSIONS (Style A: Installs from inside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

DIMENSIONS (Style B: Installs from outside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
IHP-470

Internal Mount Air Conditioner/Heat Exchanger

Air Cooled
Internal Mounted
Nema-12, 4, 4X

24 VDC
228 BTU/HR

FEATURES
• Compact (only 17.4” X 8” X 7.8”)
• Mounts and operates in any orientation, inside enclosure
• Available in two installation styles:
  - Style A: Installs from inside of the enclosure
  - Style B: Installs from outside of the enclosure
• Low vibration and noise
• No moving parts except fans
• Environmentally safe
• No compressor, fluorocarbons or filters
• Virtually maintenance-free operation
• Stainless steel housing
• Efficient heat exchanger mode (ECO-Mode)
• Weight 16 LBS.

CONTROL TEMPERATURES

<table>
<thead>
<tr>
<th>Mode</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Cooling</td>
<td>35 °C</td>
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<tr>
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<td>Typical Hysteresis</td>
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<tr>
<td>Operating Ambient</td>
<td>-40/+70 °C</td>
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<tr>
<td>Operating Enclosure</td>
<td>-10/+60 °C</td>
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</tbody>
</table>

POWER INPUTS

<table>
<thead>
<tr>
<th>Input</th>
<th>Value</th>
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<tbody>
<tr>
<td>Voltage</td>
<td>24 VDC</td>
</tr>
<tr>
<td>Current, Active</td>
<td>7.0 AMPS</td>
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<tr>
<td>Current, ECO-Mode</td>
<td>0.3 AMPS</td>
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</table>

PERFORMANCE RATINGS

<table>
<thead>
<tr>
<th>Mode</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Traditional)</td>
<td>228 BTU/HR</td>
</tr>
<tr>
<td>Cooling (Din 3168)</td>
<td>67 WATTS</td>
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<td>Cooling COP (at L35 L35)</td>
<td>0.40</td>
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<td>Heating (Traditional)</td>
<td>&gt; 572 BTU/HR</td>
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<td>Heating (Din 3168)</td>
<td>&gt; 168 WATTS</td>
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<tr>
<td>Heating COP</td>
<td>&gt; 1.0</td>
</tr>
</tbody>
</table>

INCLUDES
• Temperature controller
• Mounting gasket
• Mounting hardware
• Power input leads
• Power saving heat exchanger mode (ECO-Mode)

Picture above shows both installation styles
Shown on the left is the **Style A** (installs from inside of the enclosure)
Shown on the right is the **Style B** (installs from outside of the enclosure)
### CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>INSTALLATION STYLE</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-470</td>
<td>B-F0J5-0-001</td>
<td>Cool only, industrial fans</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<td>IHP-470HC</td>
<td>B-F095-1-001</td>
<td>Heat/Cool, industrial fans</td>
<td>A</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
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<td>B-F0J5-4-001</td>
<td>Cool only, sealed hot side fan</td>
<td>A</td>
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<td>IHP-470XEHC</td>
<td>B-F095-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
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<td>None*</td>
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<td>IHP-470XEH</td>
<td>B-F015-5-001</td>
<td>Heat/Cool, sealed hot side fan</td>
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<td>IHP-470XEH</td>
<td>B-F095-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>IHP-470XHC</td>
<td>B-F015-3-001</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
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<tr>
<td>IHP-470HC</td>
<td>B-F095-1-101</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>None*</td>
<td>NEMA-12, IP 5</td>
</tr>
<tr>
<td>IHP-470HC</td>
<td>B-F015-1-101</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>TC-7F</td>
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<tr>
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<td>B-F0J5-4-101</td>
<td>Cool only, sealed hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
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<tr>
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<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-470XEH</td>
<td>B-F015-5-101</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
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<td>B-F095-2-101</td>
<td>Cool only, Mil. grade hot side fan</td>
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<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
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</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
DIMENSIONS (Style A: Installs from inside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

DIMENSIONS (Style B: Installs from outside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
IHP-450 Air Conditioner/Heat Exchanger

**FEATURES**
- Compact (only 17.4” X 8” X 7.8”)
- Mounts and operates in any orientation, inside enclosure
- Available in two installation styles:
  - **Style A**: Installs from inside of the enclosure
  - **Style B**: Installs from outside of the enclosure
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.

**CONTROL TEMPERATURES**
- **Active Cooling**: 35 °C
- **Heat Exchanger (ECO-Mode)**: 25 °C
- **Active Heating**: 10 °C
- **Typical Hysteresis**: 5 °C
- **Operating Ambient**: -40/+70 °C
- **Operating Enclosure**: -10/+60 °C

**POWER INPUTS**
- **Voltage**: 24 VDC
- **Current, Active**: 2.3 AMPS
- **Current, ECO-Mode**: 0.3 AMPS

**PERFORMANCE RATINGS**
- **Cooling (Traditional)**: 157 BTU/HR
- **Cooling (Din 3168)**: 46 WATTS
- **Cooling COP (at L35 L35)**: 0.83
- **Heating (Traditional)**: > 188 BTU/HR
- **Heating (Din 3168)**: > 55 WATTS
- **Heating COP**: > 1.0

**INCLUDES**
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

Picture above shows both installation styles
Shown on the left is the **Style A** (installs from inside of the enclosure)
Shown on the right is the **Style B** (installs from outside of the enclosure)
PERFORMANCE CURVE

Equation of Line: \( y = \frac{44}{9004} T \) °C  \( x = \text{Capacity (Watts)} \)

<table>
<thead>
<tr>
<th>Ambient Temp</th>
<th>35°C</th>
<th>50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-450</td>
<td>0.44x 20.2</td>
<td>0.44x 21.4</td>
</tr>
</tbody>
</table>

IHP-450 Air Conditioner - Air Cooled

MOUNTING STYLE
Internal Mounted

ENVIRONMENTS SERVED
NEMA-12       IP 52
NEMA-4,4X     IP 56

RATING (TRADITIONAL)
157 BTU/hr @ 0°F \( \Delta T \)
243 BTU/hr @ +20°F \( \Delta T \)

RATING (DIN 3168)
46 Watts  L35 L35
14 Watts  L35 L50

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>INSTALLATION STYLE</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHP-450</td>
<td>B-F015-0-000</td>
<td>Cool only, industrial fans</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
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<tr>
<td>IHP-450HC</td>
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<tr>
<td>IHP-450XHC</td>
<td>B-F015-2-000</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>A</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>IHP-450XHC</td>
<td>B-F095-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>A</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>IHP-450XHC</td>
<td>B-F015-3-000</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>A</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>IHP-450</td>
<td>B-F015-0-100</td>
<td>Cool only, industrial fans</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-450HC</td>
<td>B-F095-1-100</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>None*</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-450HC</td>
<td>B-F015-1-100</td>
<td>Heat/Cool, industrial fans</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-12, IP 52</td>
</tr>
<tr>
<td>IHP-450XE</td>
<td>B-F015-4-100</td>
<td>Cool only, sealed hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-450XEHC</td>
<td>B-F095-5-100</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-450XEHC</td>
<td>B-F015-5-100</td>
<td>Heat/Cool, sealed hot side fan</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-4, IP 56</td>
</tr>
<tr>
<td>IHP-450X</td>
<td>B-F015-2-100</td>
<td>Cool only, Mil. grade hot side fan</td>
<td>B</td>
<td>TC-4F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>IHP-450XHC</td>
<td>B-F095-3-100</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>None*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>IHP-450XHC</td>
<td>B-F015-3-100</td>
<td>Heat/Cool, Mil. grade hot side fan</td>
<td>B</td>
<td>TC-7F</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
DIMENSIONS (Style A: Installs from inside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]

DIMENSIONS (Style B: Installs from outside of the enclosure)

Dimensions do not include hardware
Mounting hardware and gasket included but not shown
Dimensions: Inches [Millimeters]
LHP-1200XE Liquid Cooled Air Conditioner

**LIQUID COOLED 120 VAC INPUT THROUGH MOUNTED 615 BTU/HR NEMA-4, 4X**

**FEATURES**
- Compact, (only 15” L X 8” W X 7.3” D)
- Can be mounted entirely inside purged enclosure or maintain purge when wall mounted
- Mounts and operates in any orientation: horizontal, vertical, etc.
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Operating ambient/coolant temperature range 0/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 21 LBS.

**INPUTS**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>120 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current, Active</td>
<td>3.7 AMPS</td>
</tr>
<tr>
<td>Coolant Flow</td>
<td>&gt; 0.3 GPM (1.0 LPM)</td>
</tr>
</tbody>
</table>

**PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>Cooling (Traditional)</th>
<th>613 BTU/HR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling (Din 3168)</td>
<td>180 WATTS</td>
</tr>
<tr>
<td>Cooling COP (at L35 L35)</td>
<td>0.41</td>
</tr>
<tr>
<td>Weight</td>
<td>21 LBS.</td>
</tr>
</tbody>
</table>

**CONTROL TEMPERATURES**

<table>
<thead>
<tr>
<th>Temp. Control</th>
<th>Active Heat °C</th>
<th>ECO-Mode °C</th>
<th>Active Cool °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
</tbody>
</table>

**INCLUDES**
- Integral power supply
- Mounting gasket and hardware
- Power input cord
- In/Out 1/4-18 NPT connectors for coolant

**CONFIGURATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHP-1200XE</td>
<td>2-3090-4-000</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>LHP-1200XE</td>
<td>2-3080-4-000</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>LHP-1200XE</td>
<td>2-30F0-4-000</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>LHP-1200XE</td>
<td>2-3050-4-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>LHP-1200XEHC</td>
<td>2-3030-5-000</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-4X, IP 56</td>
</tr>
<tr>
<td>LHP-1200XEHC</td>
<td>2-3050-5-000</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-4X, IP 56</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Fluid Temp</th>
<th>20°C</th>
<th>40°C</th>
<th>60°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Air</td>
<td>$y=0.25x-44.0$</td>
<td>$y=0.25x-46.0$</td>
<td>$y=0.25x-48.0$</td>
</tr>
<tr>
<td>Cold Sink</td>
<td>$y=0.19x-44.0$</td>
<td>$y=0.19x-46.0$</td>
<td>$y=0.19x-48.0$</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- Liquid Input 1/4-18 NPT: 2.50 [64]
- Input Power Cable: 1.75 [44]
- (12) 10-32 Stud
- 13.00 [330] *
- 15.00 [381]
- 7.38 [187]
- 6.55 [166] *
- 3.10 [79]
- 4.10 [104]
- 5.50 [140] *
- Temp. Adjustment (TC-6F models)

**MOUNTING CUTOUT DIMENSIONS**

- 3.125 [79]
- 3.125 [79]
- 3.125 [79]
- 6.62 [168]
- 3.24 [83]
- 12X0.218 [36]
- 2.88 [73]
- 2.88 [73]
- 5.76 [146]

* Dimension does not include hardware. Mounting hardware and gasket included but not shown.
† Dimension applies to XP versions.
Dimensions: Inches [Millimeters]

www.teca-eu.com 1-888-TECA-USA (832-2872) TECA
LHP-1200XP Liquid Cooled Air Conditioner

Liquid Cooled
Through Mounted
NEMA-4, 4X, CID2, CID1 & ATEX Zone 1
(No Agency Approvals)

FEATURES
- Compact, (only 15” L X 8” W X 7.3” D)
- Can be mounted entirely inside purged enclosure or maintain purge when wall mounted
- Mounts and operates in any orientation: horizontal, vertical, etc.
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Operating ambient/coolant temperature range 0/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 21 LBS.

INPUTS
- Voltage 120 VAC
- Current, Active 3.7 AMPS
- Coolant Flow > 0.3 GPM (1.0 LPM)

PERFORMANCE RATINGS
- Cooling (Traditional) 613 BTU/HR
- Cooling (Din 3168) 180 WATTS
- Cooling COP (at L35 L35) 0.41
- Weight 21 LBS.

INPUTS
- Voltage 120 VAC
- Current, Active 3.7 AMPS
- Coolant Flow > 0.3 GPM (1.0 LPM)

CONTROL TEMPERATURES

<table>
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<tr>
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<th>Active Cool °C</th>
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<tbody>
<tr>
<td>TC-1F</td>
<td>-</td>
<td>-</td>
<td>35</td>
</tr>
<tr>
<td>TC-6F</td>
<td>-</td>
<td>-</td>
<td>25 or 35</td>
</tr>
<tr>
<td>TC-3F</td>
<td>10</td>
<td>-</td>
<td>35</td>
</tr>
</tbody>
</table>

INCLUDES
- Integral power supply
- Mounting gasket and hardware
- Power input cord
- In/Out 1/4-18 NPT connectors for coolant

CONFIGURATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PART NUMBER</th>
<th>NOTES</th>
<th>TEMPERATURE CONTROL</th>
<th>ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHP-1200XP</td>
<td>2-3090-2-027</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-4X IP 56, CI D2</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3080-2-028</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-4X IP 56, CI D2</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3080-2-029</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-4X IP 56, CI D2</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3050-2-030</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-4X IP 56, CI D2</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3030-3-031</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-4X IP 56, CI D2</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3050-3-032</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-4X IP 56, CI D2</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3090-2-021</td>
<td>Cool only</td>
<td>None</td>
<td>NEMA-4X IP 56, CI D1 ATEX Zone 1</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3080-2-022</td>
<td>Cool only</td>
<td>TC-6F</td>
<td>NEMA-4X IP 56, CI D1 ATEX Zone 1</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3080-2-023</td>
<td>Cool only</td>
<td>TC-1F</td>
<td>NEMA-4X IP 56, CI D1 ATEX Zone 1</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3050-2-024</td>
<td>Cool only</td>
<td>EXT*</td>
<td>NEMA-4X IP 56, CI D1 ATEX Zone 1</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3030-3-025</td>
<td>Heat/Cool</td>
<td>TC-3F</td>
<td>NEMA-4X IP 56, CI D1 ATEX Zone 1</td>
</tr>
<tr>
<td>LHP-1200XP</td>
<td>2-3050-3-026</td>
<td>Heat/Cool</td>
<td>EXT*</td>
<td>NEMA-4X IP 56, CI D1 ATEX Zone 1</td>
</tr>
</tbody>
</table>

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

Designed for Nema-4, Nema-4X, CID2, CID1 and ATEX Zone 1, not certified. ATEX certification will require full system approvals. All specifications subject to change without notice

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
**LHP-1200X**

**MOUNTING STYLE**
Through Mounted

**ENVIRONMENTS SERVED**
NEMA-4X, IP 56, CID2, CID1, Zone 1

**RATING (TRADITIONAL)**
- 613 BTU/hr @ 0 °F $\Delta T$
- 770 BTU/hr @ +20 °F $\Delta T$

**RATING (DIN 3168)**
- 180 Watts L35 L35
- 125 Watts L35 L50

---

**PERFORMANCE CURVE**

**DIMENSIONS**

- **Liquid Input 1/4-18 NPT**
  - 2.50 [64]
- **Input Power Cable**
  - 1.75 [44]
- **(12) 10-32 Stud**
  - 13.00 [330]
- **Internal Fan**
- **Temp. Adjustment** (TC-6F models)
- **MOUNTING CUTOUT DIMENSIONS**
  - 2.88 [73]
  - 6.62 [168]
  - 13.24 [336]

* Dimension does not include hardware. Mounting hardware and gasket included but not shown.
† Dimension applies to XF versions.
  - Dimensions: Inches [Millimeters]

---

**Fluid Temperature**

- **Enclosure Air**
  - $y = 0.25x - 44.0$
  - $y = 0.25x - 46.0$
  - $y = 0.25x - 48.0$
- **Cold Sink**
  - $y = 0.19x - 44.0$
  - $y = 0.19x - 46.0$
  - $y = 0.19x - 48.0$

---

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**Enclosure Heater**

**EH-2000/4000**

Enclosure Heaters  
Internal Mounted  
120 VAC, 240 VAC  
200 Watts, 400 Watts

---

**ENCLOSURE HEATERS**

TECA Enclosure heaters are the easiest and most cost effective way to add needed heat to enclosures.

These heaters come in 120 VAC and 240 VAC configurations in both 200 WATTS and 400 WATTS versions.

The integral thermostat reduces the complexity and the integral overheat safety ensures that the temperature rise is kept within safe margin.

**FEATURES**

- Power input cord
- Integral fan(s)
- Integral thermostatic control (temperature = 15 °C)
- Overheat safety circuit (temperature = 75 °C)
- Accessory threaded holes for installation

---

**DIMENSIONS**

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOTES</th>
<th>POWER RATING 50/60 HZ</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>WEIGHT LBS. (kg)</th>
<th>TEMP. CONTROL</th>
<th>OVERHEAT SAFETY</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH-2001</td>
<td>Single Fan</td>
<td>200</td>
<td>120</td>
<td>1.7</td>
<td>7 (3.2)</td>
<td>15 °C</td>
<td>75 °C</td>
</tr>
<tr>
<td>EH-2002</td>
<td>Single Fan</td>
<td>200</td>
<td>240</td>
<td>0.83</td>
<td>7 (3.2)</td>
<td>15 °C</td>
<td>75 °C</td>
</tr>
<tr>
<td>EH-4001</td>
<td>Dual Fan</td>
<td>400</td>
<td>120</td>
<td>3.4</td>
<td>7 (3.2)</td>
<td>15 °C</td>
<td>75 °C</td>
</tr>
<tr>
<td>EH-4002</td>
<td>Dual Fan</td>
<td>400</td>
<td>240</td>
<td>1.7</td>
<td>7 (3.2)</td>
<td>15 °C</td>
<td>75 °C</td>
</tr>
</tbody>
</table>
Drip pans are available for various air conditioners offered by TECA. These drip pans are made from Type 304 Stainless Steel and are available for either vertical or horizontal cold side fins. The drip pans include 3/8” ID hose, wicking cord and hose clamp.
**Accessories**

**Drip Pans**

**AHP-300 Series**

---

**DVA-300**

- Enclosure
- DVA-300 Fitting (3/8 ID)
- Hose & Wick not shown
- DVA-300 Drip Pan Body
- Deflector
- Drip Pan Length: 5.38”

---

**DHA-300**

- Enclosure
- DHA-300 Fitting (3/8 ID)
- Hose & Wick not shown
- DHA-300 Drip Pan Body
- Drip Pan Length: 10”

---

TECA 1-888-TECA-USA (832-2872) www.teca-usa.com
Accessories  Drip Pans  AHP-400/500 Series

DVA-500

DHA-500

www.teca-eu.com  1-888-TECA-USA (832-2872)
## Accessories Drip Pans AHP/LHP-1200 Series

### DVA-1200

- DVA-1200 Fitting (3/8 ID)
- Hose & Wick not shown
- DVA-1200 Drip Pan Body
- Drip Pan Deflector
- Drip Pan Length: 7.3"

### DHA-1200

- DHA-1200 Fitting (3/8 ID)
- Hose & Wick not shown
- Drip Pan Body
- Drip Pan Length: 15"
Accessories  Drip Pans  AHP-1501 Series

DVA-1501

Enclosure

DVA-1501 Fitting (3/8 ID)
Hose & Wick not shown

DVA-1501 Drip Pan Body
Deflector
Drip Pan Length: 11.1"

DHA-1501

Enclosure

DHA-1501 Drip Pan
Installation Screw
Drip Pan Length: 14.1"
Accessories  Drip Pans  AHP-1800 Series

**DVA-1200**

- Enclosure
- DVA-1800 Fitting (3/8 ID)
- Hose & Wick not shown
- DVA-1800 Drip Pan Body
- Deflector
- Drip Pan Installation Screw
- Drip Pan Length: 16.6"

**DHA-1200**

- Enclosure
- DHA-1800 Fitting (3/8 ID)
- Hose & Wick not shown
- DHA-1800 Drip Pan Body
- Drip Pan Length: 12.3"
Accessories  Drip Pans AHP-2200/3200/4200/6200 Series

**DVA-2200, 3200, 4200, 6200**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>USED WITH</th>
<th>A (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVA-2200</td>
<td>AHP-2200</td>
<td>13</td>
</tr>
<tr>
<td>DVA-3200</td>
<td>AHP-3200</td>
<td>19</td>
</tr>
<tr>
<td>DVA-4200</td>
<td>AHP-4200</td>
<td>25</td>
</tr>
<tr>
<td>DVA-6200</td>
<td>AHP-6200</td>
<td>37</td>
</tr>
</tbody>
</table>

**DHA-2200, 3200, 4200, 6200**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>USED WITH</th>
<th>B (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHA-2200</td>
<td>AHP-2200</td>
<td>11.6</td>
</tr>
<tr>
<td>DHA-3200</td>
<td>AHP-3200</td>
<td>17.6</td>
</tr>
<tr>
<td>DHA-4200</td>
<td>AHP-4200</td>
<td>23.6</td>
</tr>
<tr>
<td>DHA-6200</td>
<td>AHP-6200</td>
<td>35.6</td>
</tr>
</tbody>
</table>
OVERVIEW

The D100 and D200 Condensate Discharge units allow accumulated water to drain out the bottom of an enclosure. The UL-approved discharge units also function as an air pressure equalizer, reducing the harmful effects of temperature-induced vacuums that could pull water and moisture into the enclosure.

FEATURES

- Uses gravity to remove collected liquids
- One-way mechanical shut-off when pressure is equalized prevents water and contaminants from entering the enclosure
- Helps reduce corrosion that can limit the life of internal electrical and electronic components
- Installs in a 7/8-in. hole in the bottom of enclosure with provided nut or in a 1/2-in. NPT/NPS threaded conduit hub
- Installs in the bottom of mild steel, aluminum, stainless steel or non-metallic enclosures
- Maintains enclosure’s NEMA rating when properly installed
- Available in Stainless Steel and Non-Metallic Polyester material
- UL 508A Listed; Type 4, 4X; File No. E617

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOTE</th>
<th>D INCHES</th>
<th>D Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-100</td>
<td>Non-Metallic</td>
<td>1.25</td>
<td>32</td>
</tr>
<tr>
<td>D-200</td>
<td>Stainless Steel</td>
<td>1.38</td>
<td>35</td>
</tr>
</tbody>
</table>

DIMENSIONS
Accessories  Covers & Mounting Bracket

**COVERS**

Optional hot side covers are available for AHP-300 and AHP-301 series of thermoelectric air conditioners. These covers are made from **brush finished Stainless Steel Type 304**.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>USED WITH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-300</td>
<td>AHP-300</td>
</tr>
<tr>
<td>CR-301</td>
<td>AHP-301</td>
</tr>
</tbody>
</table>

Dimensions: Inches [Millimeters]

**MOUNTING BRACKET**

Optional mounting bracket is available for AHP-1800 series of thermoelectric air conditioners. This mounting bracket attaches to existing threaded holes on the side of the unit and improves the mounting of the air conditioner on non-metallic the enclosure.

Part Number: MA-1800
Dimensions: Inches [Millimeters]
**TC-4600**

**Temperature Controller**

**PWM Temperature Control**

**RS-232 Comms.**

### FEATURES

- Full H-Bridge Control
- Fully PC Programmable
- P,I,D or On/Off Control
- PC Configurable Alarm Circuit
- 0-36VDC Output Using Split Power Supply
- RS232 Communications
- RoHS Compliant
- Set Temperature range of -40°C to 250°C dependent on sensor selection

### OVERVIEW

The TC-4600 is a bi-directional (heat/cool), H-bridge controller designed to control thermoelectric cooling/heating units with the option to set as unidirectional. The controller accepts an input voltage of 12-36VDC. The output voltage can range from 0 to 36VDC if a split supply is used. The load circuit is pulse width modulated at 2.7KHz and delivers a load of 0.1 to 25 Amps. Temperature resolution for this controller is 0.01°C, providing exceptional control stability in a well designed thermal system.

The H-bridge configuration allows for a seamless transition between heating and cooling. Using a PC with an RS232 interface, the controller can be set for any of the following control configurations: On/Off control, differential temperature control, manual control or any combination of PID control. The user friendly software requires no programming experience to set up the controller. The RS232 interface has 1500 VAC isolation from all the electronic circuitry minimizing the interference from noise or errant signals. Once the controller is set up, the computer may be disconnected and the controller becomes a stand alone unit. If the computer is left connected, it can be used for data acquisition in a half duplex mode.

The temperature may also be set through the optional display or through a remote potentiometer. The PC software also provides for several alarm types and the controller has 3 outputs for alarms with a 5VDC output rated for 25mA of current. In the set up menu the alarm function may be set as no alarm, tracking alarm, fixed value alarm or computer controlled alarm. The menu also offers selections for latching and for maintaining or cutting the power during an alarm. The alarm sensor may by the control temperature sensor or a secondary sensor.

### ACCESSORIES

- Model TC-4600D Display: 4 Digit temperature readout for displaying set temperature or actual temperature with capability to adjust the set temperature.
- HS optional Heat Sink: Recommended for applications using 15A of load or greater.
- Thermistor-K: 2000 Ω +/− 2% at 25 °C, best for (-20 °C to 30 °C) range
- Thermistor-Z: 10000 Ω +/− 2% at 25 °C, best for (0 °C to 50 °C) range

### SPECIFICATIONS

- Input Voltage: 12VDC to 36VDC
- Output Voltage: 0 to 36VDC with split supply
- Load Current: 0.1A to 25A
- Bandwidth: 0.1°C to 50°C
- Integral: 0 to 10 repeats per minute
- Derivative: 0 to 10 minutes
- PWM Base Frequency: 2.7 KHz
- Ambient Temperature range: -20°C to 70°C
- Power Dissipation: <10 Watts
- Process Control Rate: 90 times per second
- Output Power Resolution: ±0.2%

### PART NUMBER AND ORDERING

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PART NUMBER</th>
<th>COMM</th>
<th>OPERATING VOLTAGE VDC</th>
<th>SWITCHING VOLTAGE VDC</th>
<th>MAX SWITCHING CURRENT AMPS</th>
<th>HEAT SINK</th>
<th>SENSOR</th>
<th>SENSOR RANGE (°C)</th>
<th>DISPLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-4600</td>
<td>46-440-41-000</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>15*</td>
<td>none</td>
<td>Thermistor-K</td>
<td>-20 to 30</td>
<td>none</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-440-41-001</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>15*</td>
<td>none</td>
<td>Thermistor-K</td>
<td>-20 to 30</td>
<td>included</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-440-51-000</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>15*</td>
<td>none</td>
<td>Thermistor-Z</td>
<td>0 to 50</td>
<td>none</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-440-51-001</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>15*</td>
<td>none</td>
<td>Thermistor-Z</td>
<td>0 to 50</td>
<td>included</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-44P-41-000</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>25</td>
<td>included</td>
<td>Thermistor-K</td>
<td>-20 to 30</td>
<td>none</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-44P-41-001</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>25</td>
<td>included</td>
<td>Thermistor-K</td>
<td>-20 to 30</td>
<td>included</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-44P-51-000</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>25</td>
<td>included</td>
<td>Thermistor-Z</td>
<td>0 to 50</td>
<td>included</td>
</tr>
<tr>
<td>TC-4600</td>
<td>46-44P-51-001</td>
<td>RS-232</td>
<td>12-36</td>
<td>0.36</td>
<td>25</td>
<td>included</td>
<td>Thermistor-Z</td>
<td>0 to 50</td>
<td>included</td>
</tr>
</tbody>
</table>

* Can switch up to 25 AMPS if used with heat sink

**TECA**

1-888-TECA-USA (832-2872)  www.teca-usa.com
**TC-4600**

**PWM Temperature Controller**

### DISPLAY

**DIMENSIONS**

**Mounting Without Heat Sink**

- **0.97 [25]**
- **2.00 [51]**
- **3.70 [94] Max.**
- **1.47 [37]**

**Mounting With Heat Sink**

- **4.88 [124]**
- **9.00 [229]**

(4) 6-32 Threaded Inserts
0.188 [4.8] Max Depth.

(4) 10-32 Threaded Holes

Dimensions: Inches [Millimeters]
**OVERVIEW**

The TC-3400 temperature controller series simplifies your temperature control requirements. The controller options reduce system complexity and the cost of control loop ownership. The TC-3400 is a high performance PID temperature controller in space-saving, panel-mount 1/32 DIN size EIA 485 communications and standard NEMA-4X IP66 sealing make the TC-3400 versatile and suitable for wide range of environments.

**FEATURES**

**Advanced PID Control Algorithm**
- Offers TRU-Tune™ + adaptive control to provide tighter control for demanding applications
- Provides auto-tune for fast, efficient start up

**Configuration**
- Systems come preconfigured for PID cooling application
- “Canned” configuration for different applications available

**Parameter Save and Restore Memory**
- Reduce service requirement and down time

**Heat-Cool Operation**
- Provides application flexibility with accurate temperature and process control

**P3T Armor Sealing System**
- NEMA-4X and IP66 offers water and dust resistance that can be cleaned and washed down
- Backed up by UL 50 independent certification to NEMA-4X specification

**SPECIFICATIONS**

**Line Voltage/Power:**
- 85 to 264V~(ac), 47 to 63Hz
- 12 to 40Vdc OR 20 to 28V~(ac), +10/-15 percent; 50/60Hz, ±5 percent
- 10VA maximum power consumption
- Data retention upon power failure via nonvolatile memory
- Compliant with SEMI F47-0200, Figure R1-1 voltage sag requirements @ 24V~(ac) or higher

**Environment:**
- -18 to 65°C (0-149°F) operating temperature
- -40 to 85°C (-40-185°F) storage temperature
- 0 to 90 percent RH, non-condensing

**Accuracy:**
- Calibration accuracy and sensor conformity ±0.1 percent of span, ±1°C @ the calibrated ambient temperature and rated line voltage
- Types R, S, B; 0.2 percent
- Type T below -50°C; 0.2 percent
- Calibration ambient temperature @ 25°C ±3°C (77°F±5°F)
- Accuracy span 540°C (1000°F) minimum
- Temperature stability ±0.1°C/°C (±0.1°F/°F) rise in ambient maximum

**Agency Approvals:**
- UL®/EN 61010 Listed
- UL® 1604 Class 1 div. 2
- UL® 50, NEMA 4X, EN 60529 IP66
- CSA 610110 CE
- RoHS, WEEE.

**Controller:**
- Auto-tune with TRU-TUNE™ + adaptive control algorithm
- Control sampling rates: input 10Hz, outputs 10Hz

**Wiring Termination:**
- Input, power and controller output terminals are touch safe removable 12 to 22 AWG

**Universal Input:**
- Thermocouple, grounded or ungrounded sensors >20MΩ input impedance
- 3µA open sensor detection
- Maximum of 200MΩ source resistance
- RTD 2- or 3-wire, platinum, 100Ω and 1000Ω @ 0°C calibration to DIN curve (0.00385Ω/°C)

**Serial Communications:**
- Isolated communications EIA 485
- Industry standard RS-485 Modbus® RTU
- RS-232 via RS-485/232 converter
PID Temperature Controller

TC-3400

PART NUMBER AND ORDERING

34 - x x x - x x x - x x x

Input voltage
0: Universal AC - 85 to 264Vac, 47 to 63 Hz
4: 12/24Vdc - 12 to 40Vdc, 20 to 28Vac

Functions
2: Heat/Cool - No relay
3: Cooling with relay (package defined below)
4: Heating/Cooling with relays (package defined below)

Switching Volts & Amps
A: None, drive signal only - no relays
B: Cool only, VAC switching, 120/240Vac, 10 Amps
C: Cool Only, VDC switching, 0-100 VDC, 12 Amps
D: Cool Only, VDC switching, 0-100 VDC, 20 Amps
E: Cool Only, VDC switching, 0-100 VDC, 40 Amps
F: Heat/Cool, VDC switching, 0-100 VDC, 12 Amps
G: Heat/Cool, VDC switching, 0-100 VDC, 20 Amps
H: Heat/Cool, VDC switching, 0-100 VDC, 40 Amps
I: Heat/Cool, Heat: 120/240 Vac, 10 amps Cool: VDC switching, 0-100 VDC, 12 Amps
J: Heat/Cool, Heat: 120/240 Vac, 10 amps Cool: VDC switching, 0-100 VDC, 20 Amps
K: Heat/Cool, Heat: 120/240 Vac, 10 amps Cool: VDC switching, 0-100 VDC, 40 Amps
L: Heat/Cool, Heat: 0-100 VDC, 12 Amps Cool: VAC switching, 120/240 Vac, 10 amps
M: Heat/Cool, Heat: 0-100 VDC, 20 Amps Cool: VAC switching, 120/240 Vac, 10 amps
N: Heat/Cool, Heat: 0-100 VDC, 40 Amps Cool: VAC switching, 120/240 Vac, 10 amps
O: Heat/Cool, Reverse Polarity, 0-100 VDC, 12 Amps
P: Heat/Cool, Reverse Polarity, 0-100 VDC, 20 Amps
Q: Heat/Cool, Reverse Polarity, 0-100 VDC, 40 Amps
R: Heat/Cool, VAC switching, 120/240 Vac, 10 amps

Sensor
0: None
1: 3-Wire RTD - RTD-Probe
2: 1-type thermocouple (ring mount)

Communications
0: Basic communications used with standard EZ Zone Configurator allows the user to configure all the set up parameters including the ability to change set point, monitor the process temperature and initiate an Auto Tune
1: RS-232 complete communication for use with standard EZ Zone Configurator and optional SpecView or third party software, includes RS-232/RS-485 adapter
2: RS-485 complete communication for use with standard EZ Zone Configurator and optional SpecView or third party software

Options

DIMENSIONS AND CUTOUT

Front

Recommended panel spacing

22.4 mm (0.88 in)

panel thickness 1.53 to 9.52 mm (0.060 to 0.375)

21.6 mm (0.85 in)

Back

21.6 mm (0.85 in)

Top

15.9 mm 0.63 in

101.6 mm 4.00 in

31.2 mm 1.23 in

30.9 mm 1.22 in

53.3 mm 2.10 in

45.2 mm (1.78 in)

4.00 in
**OVERVIEW**

The TC-3500 temperature controller series simplifies your temperature control requirements.

This controller reduces system complexity and set up cost. The TC-3500 is a high performance PID temperature controller in space-saving, panel-mount size. RS485 with MODBUS-RTU (JBUS) protocol and IP 65 mounted in panel with gasket suitable for wide range of environments.

For use with reverse polarity AHP-300FFHC, AHP-300XEHC, AHP-300XHC, AHP-150FFHC, AHP-150XEHC.

**SPECIFICATIONS**

**Mechanical Data:**
- Housing Self-extinguishing plastic, UL 94 V0
- Dimensions 35x78 mm - depth 75,5 mm
- Weight 130 g approx
- Connections 2,5 mm2 screw terminal block
- Mounting Flush in panel in 29x71 mm hole
- Front panel protection IP 65 mounted in panel with gasket

**Electrical Data:**
- Power supply 12…24 VDC +/- 10
- Power consumption 4 VA approx.

**Input Sensor:**
- PTC Thermistor (included)

**Functional Data:**
- Control PID double action
- PID functions AUTO TUNING FAST, SELF TUNING, FUZZY OVERSHOOT CONTROL
- Multi Set Point Up to 4 programmable Set Points
- Overall accuracy +/-0,5% full scale (TC S :+/- 1% fs)
- Unit of measurement °C / °F, programmable
- Max. cold junction compensation drift 0,1°C/°C with operating temperature 0…50°C after warm-up time of 20 min.
- Sampling rate 8 sample per second
- Serial communication RS485 with MODBUS-RTU (JBUS) protocol
- Communication rate 1200…38400 baud, programmable
- Display 4 red digit h=12 mm
- Parameters access Protected by password
- Operating temperature 0…50°C
- Operating humidity 30…95 RH% without condensation

TC-3500 Temperature Controller

PID Temperature Control

**OVERVIEW**

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For use with reverse polarity AHP-300FFHC, AHP-300XEHC, AHP-300XHC, AHP-150FFHC, AHP-150XEHC.
## PART NUMBER AND ORDERING

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PART NUMBER</th>
<th>SWITCHING VOLTAGE</th>
<th>SWITCHING CURRENT</th>
<th>COMMUNICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-3500</td>
<td>35-44S-30-000</td>
<td>12/24</td>
<td>7</td>
<td>None</td>
</tr>
<tr>
<td>TC-3500</td>
<td>35-44S-32-000</td>
<td>12/24</td>
<td>7</td>
<td>RS-485</td>
</tr>
</tbody>
</table>

## DIMENSIONS AND CUTOUT

![Dimensions Diagram](image)

Dimensions: Inches [Millimeters]

- Panel cut out
  - Width: 3.10 [78] inches
  - Height: 2.52 [64] inches

- BRACKETS
  - Width: 1.38 [35] inches
  - Height: 0.22 [5.5] inches

- MIN. CLEARANCE ON BACK PANEL (NO ELECTRICAL CONNEC-IONS)
  - Width: 1.10 [28] inches
  - Height: 0.75 [19] inches

- MIN. CLEARANCE OFF SIDE PANEL (NO ELECTRICAL CON-NECTIONS)
  - Width: 1.34 [34] inches
  - Height: 1.54 [39] inches

- MIN. CLEARANCE ON TOP PANEL (NO ELECTRICAL CON-NNECTIONS)
  - Width: 2.79 [71] inches
  - Height: 0.47 [12] inches
# Power Temperature Controllers

## TC-1F POWER TEMPERATURE SWITCHES
Models TC-1F power temperature controller, with small tolerance and reset differential, are the simplest and most cost effective way to control a cooling or heating device (VAC or VDC) without a need for a relay. For circuits that have higher current draw simply use them in conjunction with a solid state relay.

<table>
<thead>
<tr>
<th>Part Numbers:</th>
<th>Mode</th>
<th>Part Number</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool</td>
<td>TC-1C-XX</td>
<td>switch closes on temperature rise</td>
<td></td>
</tr>
<tr>
<td>Heat</td>
<td>TC-1H-XX</td>
<td>switch closes on temperature drop</td>
<td></td>
</tr>
</tbody>
</table>


Example: TC-TC-20 and TC-1H-10

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-1F</td>
<td>6F-00A-00-000</td>
<td>No Relay</td>
</tr>
<tr>
<td>TC-1F</td>
<td>6F-00T-00-000</td>
<td>VAC Version</td>
</tr>
<tr>
<td>TC-1F</td>
<td>6F-00D-00-000</td>
<td>12/24 VDC</td>
</tr>
</tbody>
</table>

### TC-6F COOL ONLY WITH ECO-MODE
Model TC-6F is similar to TC-1F plus it has a 2nd power switch for heat exchanger mode (ECO-Mode). The active cool set point for TC-6F is 35 °C and for heat exchanger mode (ECO-Mode) is 25 °C.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-6F</td>
<td>6F-24G-00-000</td>
<td>24 VDC</td>
</tr>
<tr>
<td>TC-6F</td>
<td>6F-34G-00-000</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>

### TC-4F HEAT AND COOL
Model TC-4F (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:

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-4F</td>
<td>4F-44G-00-000</td>
<td>48 VDC</td>
</tr>
</tbody>
</table>

### TC-7F HEAT/COOL WITH ECO-MODE
Model TC-7F (Heat/Cool) thermostat incorporates the same technology as the TC-3F. It contains a single setting each for both heating and cooling and a heat exchanger mode (ECO-Mode).

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC-7F</td>
<td>7F-24G-00-000</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>

For custom variations of any of the controls, contact TECA.
### Single Relay

- **Cool only, DC Drive, VAC switching, 120/240 VAC, 10 AMPS**
  - Part #: RELAY - B

- **Cool only, DC Drive, VDC switching, 0-100 VDC, 12 AMPS**
  - Part #: RELAY - C

- **Cool only, DC Drive, VDC switching, 0-100 VDC, 20 AMPS**
  - Part #: RELAY - D

- **Cool only, DC Drive, VDC switching, 0-100 VDC, 40 AMPS**
  - Part #: RELAY - E

- **Cool only AC Drive, VAC switching, 120/240 VAC, 10 AMPS**
  - Part #: RELAY - T

### Dual Relay

- **Heat/Cool, VDC switching, 0-100 VDC, 12 AMPS**
  - Part #: RELAY - F

- **Heat/Cool, VDC switching, 0-100 VDC, 20 AMPS**
  - Part #: RELAY - G

- **Heat/Cool, VDC switching, 0-100 VDC, 40 AMPS**
  - Part #: RELAY - H

- **Heat/Cool, Heat: 120/240 VAC, 10 AMPS**
  - Cool: 0-100 VDC, 12 AMPS
  - Part #: RELAY - I

- **Heat/Cool, Heat: 120/240 VAC, 10 AMPS**
  - Cool: 0-100 VDC, 20 AMPS
  - Part #: RELAY - J

- **Heat/Cool, Heat: 120/240 VAC, 10 AMPS**
  - Cool: 0-100 VDC, 40 AMPS
  - Part #: RELAY - K

- **Heat/Cool, Heat: 0-100 VDC, 12 AMPS**
  - Cool: 120/240 VAC, 10 AMPS
  - Part #: RELAY - L

- **Heat/Cool, Heat: 0-100 VDC, 20 AMPS**
  - Cool: 120/240 VAC, 10 AMPS
  - Part #: RELAY - M

- **Heat/Cool, Heat: 0-100 VDC, 40 AMPS**
  - Cool: 120/240 VAC, 10 AMPS
  - Part #: RELAY - N

- **Heat/Cool, VAC switching, 120/240 VAC, 10 AMPS**
  - Part #: RELAY - R

### Quad (H-Bridge)

- **Heat/Cool, reverse polarity, 0-100 VDC, 12 AMPS**
  - Part #: RELAY - O

- **Heat/Cool, reverse polarity, 0-100 VDC, 20 AMPS**
  - Part #: RELAY - P

- **Heat/Cool, reverse polarity, 0-100 VDC, 40 AMPS**
  - Part #: RELAY - Q
## Temperature Controller Accessories

### SENSORS, CABLES, ADAPTERS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RTD-Surface</strong></td>
<td>Surface mounting 3 wire RTD with connector</td>
</tr>
<tr>
<td><strong>RTD-Probe</strong></td>
<td>6” long, 1/8 DIA, 3 wire RTD with connector</td>
</tr>
<tr>
<td><strong>Probe-1/4NPT</strong></td>
<td>RTD-Probe with male 1/4 NPT compression fitting</td>
</tr>
<tr>
<td><strong>Probe-3/8NPT</strong></td>
<td>RTD-Probe with male 3/8 NPT compression fitting</td>
</tr>
<tr>
<td><strong>Thermocouple Wire (specify length in feet)</strong></td>
<td>“T” type: WIRE-T-XXX, “J” type: WIRE-J-XXX</td>
</tr>
<tr>
<td><strong>RTD Wire (specify length in feet)</strong></td>
<td>3 conductor cable: WIRE-RTD-XXX</td>
</tr>
<tr>
<td><strong>C-USB</strong></td>
<td>RS-232 to USB converter</td>
</tr>
<tr>
<td><strong>C-485/232</strong></td>
<td>RS-485 to RS-232 and RS-232 to RS-485 converter</td>
</tr>
<tr>
<td><strong>C-RS232</strong></td>
<td>RS-232 cable</td>
</tr>
</tbody>
</table>
### SPECIFICATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INPUT VOLTAGE</th>
<th>OUTPUT VOLTAGE</th>
<th>DC OUTPUT POWER</th>
<th>OUTPUT CURRENT</th>
<th>WEIGHT</th>
<th>WORKING TEMPERATURE °C</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS150F-12</td>
<td>88-132 OR 176-264*</td>
<td>12</td>
<td>150</td>
<td>12.5</td>
<td>1.76</td>
<td>-10 - 60</td>
<td>7.96X4.4X2</td>
</tr>
<tr>
<td>AS150F-24</td>
<td>88-132 OR 176-264*</td>
<td>24</td>
<td>150</td>
<td>6.5</td>
<td>1.76</td>
<td>-10 - 60</td>
<td>7.96X4.4X2</td>
</tr>
<tr>
<td>SP300-12</td>
<td>90-264</td>
<td>12</td>
<td>300</td>
<td>24</td>
<td>2.6</td>
<td>-10 - 50</td>
<td>8.6X4.6X2</td>
</tr>
<tr>
<td>SP300-24</td>
<td>90-264</td>
<td>24</td>
<td>300</td>
<td>12.5</td>
<td>2.6</td>
<td>-10 - 50</td>
<td>8.6X4.6X2</td>
</tr>
<tr>
<td>SP500-24</td>
<td>90-264</td>
<td>24</td>
<td>500</td>
<td>20.8</td>
<td>3.3</td>
<td>0 - 70</td>
<td>9.2X4.25X2.5</td>
</tr>
<tr>
<td>SP800-24</td>
<td>90-264</td>
<td>24</td>
<td>800</td>
<td>33</td>
<td>3.3</td>
<td>0 - 70</td>
<td>9.2X4.25X2.5</td>
</tr>
</tbody>
</table>

* Input voltage range is switch selectable.

## DIMENSIONS

### AS-150F

- Dimensions: Inches [Millimeters]
- 7.74 [196.5], 7.67 [192.0], 6.74 [171.0], 7.84 [199.0], 5.07 [128.0], 0.79 [20.0], 0.24 [6.0], 3.94 [100.0], 0.17 [4.3], 0.33 [8.3], 1.37 [34.9], 0.37 [9.4], 1.87 [47.6], 1.97 [49.9], 6.26 [159.0], 0.48 [12.2], 0.08 [2.0], 0.79 [20.0], 3 X M3

### SP-300

- Dimensions: Inches [Millimeters]
- 1.28 [32.5], 0.30 [7.6], 0.55 [14.0], 4.63 [117.0], 1.08 [27.5], 1.09 [27.5], 5.91 [150.0], 6.99 [177.5], 5 X 90-MS-6.5X 3mm

### SP-500, SP-800

- Dimensions: Inches [Millimeters]
- 1.28 [32.5], 0.30 [7.6], 0.55 [14.0], 4.63 [117.0], 1.08 [27.5], 1.09 [27.5], 5.91 [150.0], 6.99 [177.5], 5 X 90-MS-6.5X 3mm

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Helpful Information

Ordering information:

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