THERMOELECTRIC PRODUCTS Catalog NO.

Air Conditioners



About TECA

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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

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

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 semicon ductor 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.

				AHP	- 120	0	x	нс
AHP	Air Cooled Heat Pump, "AHP" side heat exchanger inside and	air conditioners mount through d the hot side heat exchanger o	an enclosure wall with the cold utside of the enclosure.					
FHP	Flush mounted Heat Pump, "F	Flush mounted Heat Pump, "FHP" Air Cooled air conditioners that do not intrude into enclosure.						
IHP	Internal mounted Heat Pump, '	'IHP" Air Cooled air conditioners	s that do not protrude outside enc	losure.				
LHP	Liquid Cooled Heat Pump, "LH	P" air conditioners require flow	of coolant to remove heat.					
FAMILY	COOLING CAPACITY	INPUT VOLTAGE	DIMENSIONS INCHES	1				
250	129 BTU/HR	12, 24 VDC	6 X 4.8 X 6.6		_			
270	161 BTU/HR	12, 24 VDC	6 X 4.8 X 6.6					
401	180 BTU/HR	120, 240 VAC	10 X 5.8 X 8.8					
450	207 BTU/HR	24 VDC	10 X 5.8 X 7.8					
470	315 BTU/HR	24 VDC	10 X 5.8 X 7.8					
451	342 BTU/HR	120, 240 VAC	10 X 5.8 X 8.8					
570	303 BTU/HR	24 VDC	10 X 5.8 X 7.8					
590	460 BTU/HR	24 VDC	10 X 5.8 X 7.8					
690	460 BTU/HR	24 VDC	10 X 5.8 X 7.8					
750	430 BTU/HR	120, 240 VAC; 24 VDC	12 X 6 X 9					
1200	530 BTU/HR	120, 240 VAC; 24 VDC	15 X 7.3 X 8.2					
1500	1000 BTU/HR	120/240 VAC; 24 VDC	15 X 12 X 9.2					
1800	1100 BTU/HR	120, 240 VAC; 24 VDC	18 X 12.3 X 9.7					
2200	1400-2060 BTU/HR	120, 240 VAC; 24 VDC	20.5 X 13 X 8.5					
3200	2250-2610 BTU/HR	120, 240 VAC	20.5 X 19 X 8.5					
4200	2330-3600 BTU/HR	120, 240 VAC	20.5 X 25 X 8.5					
6200	4300-5200 BTU/HR	120, 240 VAC	20.5 X 37 X 8.5	5				
FF	These air conditioners are suita	able for indoor, Nema-12 applica	ations.					
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 sealed.							
ХМ	One step more rugged is the XM line of products. Also Nema-4X, these products use military grade fans on both the hot (environemnt) side and the cold (enclosure) side. These products can typically handle more shock and vibration, especially along the fans							
EP	Suitable for Hazardous Locatio	ns CI D2 and Nema-12 indoor a	opplications.					
ХР	Suitable for Hazardous Locatio	ons CI D2 and Nema-4X outdoor	s/harsh environments.					
СХР	Suitable for Hazardous Locations CI D1 & ATEX Zone 1 and Nema-4X outdoors/harsh environments (no ATEX approvals).							
HC	These products are capable of	heating and cooling.						_

1-888-TECA-USA (832-2872)

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

Temperatures: 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 types 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 32 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 an 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 (sponge) 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.



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-1202XEHC 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-1202XEHC provides reliable thermal management within a harsh environment. The AHP-1202XEHC 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 a 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.

Ratings and Performance Curves

Understanding

Different Performance Curves

Description

MODEL

MOUNTING STYLE

ENVIRONMENTS SERVED

RATINGS



TECA's traditional performance curve (AHP-1200)



Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 3 Phase, 240 VAC, 3 Wire Delta High Capacity 5660 - 6000 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 ambients by as much as 10%
- · Virtually maintenance free
- No compressor
- · Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- 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

240 VAC

11 AMPS

1.5 AMP

50/60 Hz

POWER INPUTS

Voltage, 3 Phase Delta Current, Active Current, ECO-Mode Frequency

PERFORMANCE RATINGS



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

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-6263	0-K5JD-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-6263	0-K55D-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-6263HC	0-K5ID-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-6263HC	0-K55D-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-6263XE	0-K5JD-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-6263XE	0-K55D-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-6263XEHC	0-K5ID-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-6263XEHC	0-K55D-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-6263X	0-K5JD-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-6263X	0-K55D-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-6263XHC	0-K5ID-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-6263XHC	0-K55D-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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







Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 3 Phase, 240 VAC, 3 Wire Delta 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 ambients by as much as 10%
- Virtually maintenance free
- No compressor
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- · Mounts and operates in any orientation
- · Integral temperature controller
- 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

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

CONFIGURATIONS

MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-6253	0-K4JD-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-6253	0-K45D-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-6253HC	0-K4ID-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-6253HC	0-K45D-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-6253XE	0-K4JD-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-6253XE	0-K45D-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-6253XEHC	0-K4ID-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-6253XEHC	0-K45D-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-6253X	0-K4JD-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-6253X	0-K45D-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-6253XHC	0-K4ID-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-6253XHC	0-K45D-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA







Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 240 VAC Input

High Efficiency

5200 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 ambients by as much as 10%
- Virtually maintenance free
- No compressor
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- · Weight 170 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	9.2 AMPS
Current, ECO-Mode	1.5 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	5196 BTU/HR
	1524 WATTO
Jooling (Din 3168)	1524 WATTS
Cooling COP (at L35 L35)	0.7
Heating (Traditional)	> 7365 BTU/HR
Heating (Din 3168)	> 2160 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-mode)	45 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

CONFIGURATIONS					
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	
AHP-6252	0-K4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52	
AHP-6252	0-K452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52	
AHP-6252HC	0-K4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52	
AHP-6252HC	0-K452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52	
AHP-6252XE	0-K4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56	
AHP-6252XE	0-K452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56	
AHP-6252XEHC	0-K4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56	
AHP-6252XEHC	0-K452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56	
AHP-6252X	0-K4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56	
AHP-6252X	0-K452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56	
AHP-6252XHC	0-K4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56	
AHP-6252XHC	0-K452-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56	

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







1-888-TECA-USA (832-2872)



Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 4340 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 ambients by as much as 10%
- Virtually maintenance free
- No compressor
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- · Mounts and operates in any orientation
- · Integral temperature controller
- Weight 170 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

CONFIGURATIONS

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

PERFORMANCE RATINGS

Cooling (Traditional)	4340 BTU/HR
Cooling (Din 3168)	1273 WATTS
Cooling COP (at L35 L35)	0.76
Heating (Traditional)	> 5524 BTU/HR
Heating (Din 3168)	> 1620 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-mode)	45 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

MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-6250	0-K4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-6250	0-K450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-6250HC	0-K4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-6250HC	0-K450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-6250XE	0-K4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-6250XE	0-K450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-6250XEHC	0-K4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-6250XEHC	0-K450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-6250X	0-K4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-6250X	0-K450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-6250XHC	0-K4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-6250XHC	0-K450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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







www.thermoelectric.com

1-888-TECA-USA (832-2872)

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 ambients by as much as 10%
- Virtually maintenance free
- No compressor
- · Environmentaly 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

240 VAC
12.5 AMPS
0.9 AMP
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



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

CONFIGURAT	IONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-4252	0-J5J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-4252	0-J552-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-4252HC	0-J5I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-4252HC	0-J552-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-4252XE	0-J5J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-4252XE	0-J552-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-4252XEHC	0-J5I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-4252XEHC	0-J552-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-4252X	0-J5J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-4252X	0-J552-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-4252XHC	0-J5I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-4252XHC	0-J552-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA

1-888-TECA-USA (832-2872)





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

Mounting Cutout 23.20X18.90 [589X480]



AHP-4252 | Air Conditioner/Heat Exchanger

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

240 VAC Input High Efficiency 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
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- · Mounts and operates in any orientation
- Integral temperature controller •
- · Weight 110 LBS.

CONTROL TEMPERATURES

35 °C
25 0
23 C
10 °C
5 °C
-40/+65 °C
-10/+60 °C

POWER INPUTS

Voltage	240 VAC
Current, Active	4.0 AMPS
Erequency	0.9 AIVIP
riequency	50/00 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

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

CONFIGURAT	IONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-4252	0-J4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-4252	0-J452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-4252HC	0-J4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-4252HC	0-J452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-4252XE	0-J4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-4252XE	0-J452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-4252XEHC	0-J4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-4252XEHC	0-J452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-4252X	0-J4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-4252X	0-J452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-4252XHC	0-J4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-4252XHC	0-J452-3-000	Heat/Cool, Mil, grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA





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

Mounting Cutout 23.20X18.90 [589X480]



Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 2490 BTU/HR

- 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
- · Environmentaly 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

CONFIGURAT	IONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-4250	0-J4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-4250	0-J450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-4250HC	0-J4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-4250HC	0-J450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-4250XE	0-J4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-4250XE	0-J450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-4250XEHC	0-J4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-4250XEHC	0-J450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-4250X	0-J4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-4250X	0-J450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-4250XHC	0-J4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-4250XHC	0-J450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA





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

Mounting Cutout 23.20X18.90 [589X480]

-12.10 [307]

Air Conditioner - Air Cooled



Air Conditioner/Heat Exchanger

Air Cooled 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% ٠
- Virtually maintenance free •
- No compressor ٠
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation ٠
- 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 Delta	240 VAC
Current, Active (per phase)	2.9 AMPS
Current, ECO-Mode	0.70 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	2973 BTU/HR
Cooling (Din 3168)	872 WATTS
Cooling COP (at L35 L35)	0.72
Heating (Traditional)	> 4100 BTU/HR
Heating (Din 3168)	> 1205 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	18 W/°C

CONFIGURATIONS



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-3253	0-I4JD-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-3253	0-I45D-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3253HC	0-I4ID-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-3253HC	0-I45D-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3253XE	0-I4JD-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-3253XE	0-I45D-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3253XEHC	0-I4ID-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-3253XEHC	0-I45D-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3253X	0-I4JD-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-3253X	0-I45D-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-3253XHC	0-I4ID-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-3253XHC	0-I45D-3-000	Heat/Cool, Mil, grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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







Air Conditioner/Heat Exchanger

Air Cooled 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
- · Environmentaly 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

CONFIGURATIONS



INCLUDES

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



CONTIGURAT	IUNS			
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-3254	0-I4JE-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-3254	0-I45E-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3254HC	0-I4IE-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-3254HC	0-I45E-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3254XE	0-I4JE-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-3254XE	0-I45E-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3254XEHC	0-I4IE-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-3254XEHC	0-I45E-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3254X	0-I4JE-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-3254X	0-I45E-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-3254XHC	0-I4IE-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-3254XHC	0-I45E-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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







Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 240 VAC Input High Efiiciency 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
- · Environmentaly 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

ONFIDIDATION

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

PERFORMANCE RATINGS

Cooling (Traditional)	2610 BTU/HR
Cooling (Din 3168)	765 WATTS
Cooling COP (at L35 L35)	0.70
Heating (Traditional)	> 3765 BTU/HR
Heating (Din 3168)	> 1104 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



250 VDC configuration for crane applications available

CONFIGURATIONS				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-3252	0-I4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-3252	0-I452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3252HC	0-I4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-3252HC	0-I452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3252XE	0-I4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-3252XE	0-I452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3252XEHC	0-I4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-3252XEHC	0-I452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3252X	0-I4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-3252X	0-I452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-3252XHC	0-I4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-3252XHC	0-I452-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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





Mounting hardware and gasket included but not shown Dimensions: Inches [Millimeters] Mounting Cutout —— 17.20X18.90 [437X480]

Air Conditioner - Air Cooled



Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 2250 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
- · Environmentaly 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

PERFORMANCE RATINGS

Cooling (Traditional)	2250 BTU/HR
Cooling (Din 3168)	660 WATTS
Cooling COP (at L35 L35)	0.78
Heating (Traditional)	> 2780 BTU/HR
Heating (Din 3168)	> 815 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



250 VDC configuration for crane applications available

CONFIGURAT	IONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-3250	0-I4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-3250	0-I450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3250HC	0-I4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-3250HC	0-I450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-3250XE	0-I4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-3250XE	0-I450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3250XEHC	0-I4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-3250XEHC	0-I450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-3250X	0-I4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-3250X	0-I450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-3250XHC	0-I4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-3250XHC	0-I450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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





Dimensions: Inches [Millimeters]

17.20X18.90 [437X480]

Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 240 VAC Input

High Capacity

2060 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
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- · Integral temperature controller
- Weight 60 LBS.

CONTROL TEMPERATURES

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

POWER INPUTS

Voltago	240.VAC
voltage	240 070
Current, Nominal Cool Mode	6.5 AIVIPS
Circuit Breaker, Cool Mode Max.	10 AMPS
Current, Nominal Heat Mode	7.5 AMPS
Circuit Breaker, Heat Mode Max.	15 AMPS
Current, ECO-Mode	0.5 AMPS
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	2060 BTU/HR
Cooling (Din 3168)	605 WATTS
Cooling COP (at L35 L35)	0.4
Heating (Traditional)	> 5320 BTU/HR
Heating (Din 3168)	> 1560 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C

CONFIGURATIONS



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

CONFIGURAT				
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-2252	0-H5J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-2252	0-H552-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-2252HC	0-H5I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-2252HC	0-H552-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-2252XE	0-H5J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-2252XE	0-H552-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-2252XEHC	0-H5I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-2252XEHC	0-H552-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-2252X	0-H5J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-2252X	0-H552-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-2252XHC	0-H5I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-2252XHC	0-H552-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

PERFORMANCE CURVE Cooling Capacity (BTU/HR) 341 511 682 852 1023 1193 1364 1535 1705 1875 2064 2216 0 170 5 9 0 0 -5 -9 Temperature Differential (C) Temperature Differential (F) -10 -18 -15 -27 -20 -36 -25 -45 -30 -54 -35 -63 - 35 C Ambient 50 C Ambient -72 -40 400 50 100 150 200 250 300 350 450 500 550 0 600 650 Cooling Capacity (Watts)

Equation of	Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)		
Ambient Temp 35°C 50		50°C	
Enclosure Air	y=.061x-36.9	y=.061x-39	
Cold Sink	y=.045x-36.9	y=.045x-39	

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 Δ T
RATING (DIN 3168)
605 Watts L35 L35
395 Watts L35 L50
\bigwedge

Air Conditioner - Air Cooled



Air Flow Pattern

DIMENSIONS



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

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Equation of line: y=ΔT(°C) x=Capacity (Watts)			
Ambient Temp	35°C	50°C	
Enclosure Air	y=.061x-36.9	y=.061x-39	
Cold Sink	y=.045x-36.9	y=.045x-39	

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 ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentaly friendly and safe •
- Stainless Steel exterior housing •
- · Mounts and operates in any orientation
- Integral temperature controller ٠
- · Weight 60 LBS.

CONTROL TEMPERATURES

Asting Castlers	25.00
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	10.8 AMPS
Current, ECO-Mode	1 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	1880 BTU/HR
Cooling (Din 3168)	550 WATTS
Cooling COP (at L35 L35)	0.42
Heating (Traditional)	> 4000 BTU/HR
Heating (Din 3168)	> 1200 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C

INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode) •
- Mounting gasket •
- Mounting hardware ٠
- Power input cord •
- Circuit breaker •



250 VDC configuration for crane applications available

CONFIGURATIONS				
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-2250	0-H5J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-2250	0-H550-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-2250HC	0-H5I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-2250HC	0-H550-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-2250XE	0-H5J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-2250XE	0-H550-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-2250XEHC	0-H5I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-2250XEHC	0-H550-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-2250X	0-H5J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-2250X	0-H550-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-2250XHC	0-H5I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-2250XHC	0-H550-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



Equation of line: y= ΔT (°C) x=Capacity (Watts)			
Ambient Temp 35°C 50°C			
Enclosure Air	y=.062x-34.2	y=.062x-35.4	
Cold Sink	y=.046x-34.2	y=.046x-35.4	

	Air Conditioner - Air Cooled
	AHP-2250
	MOUNTING STYLE
_	Through Mounted
	ENVIRONMENTS SERVED
	NEMA-12 IP 52
	NEMA-4,4X IP 56
	RATING (TRADITIONAL)
	1880 BTU/hr @ 0 °F ΔT
	2490 BTU/hr @ +20 °F Δ T
	RATING (DIN 3168)
	550 Watts L35 L35
_	330 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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

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Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 1400 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
- · Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- · Integral temperature controller
- Weight 60 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	3.6 AMPS
Current, ECO-Mode	1 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	1400 BTU/HR		
Cooling (Din 3168)	410 WATTS		
Cooling COP (at L35 L35)	0.95		
Heating (Traditional)	> 1640 BTU/HR		
Heating (Din 3168)	> 480 WATTS		
Heating COP	> 1.0		
Heat Exchanger (ECO-Mode)	12.5 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

CONFIGURATIONS				
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-2250	0-H4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
AHP-2250	0-H450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-2250HC	0-H4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
AHP-2250HC	0-H450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
AHP-2250XE	0-H4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
AHP-2250XE	0-H450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-2250XEHC	0-H4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
AHP-2250XEHC	0-H450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
AHP-2250X	0-H4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
AHP-2250X	0-H450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
AHP-2250XHC	0-H4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
AHP-2250XHC	0-H450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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


Equation of line: y= \DeltaT (°C) x=Capacity (Watts)			
Ambient Temp 35°C 50°C			
Enclosure Air	y=.063x-25.7	y=.063x-26.5	
Cold Sink	y=.047x-25.7	y=.047x-26.5	

	Air Conditioner - Air Cooled
	AHP-2250
	MOUNTING STYLE
_	Through Mounted
	ENVIRONMENTS SERVED
	NEMA-12 IP 52
	NEMA-4,4X IP 56
	RATING (TRADITIONAL)
	1400 BTU/hr @ 0 °F Δ T
	1990 BTU/hr @ +20 °F ΔT
	RATING (DIN 3168)
	410 Watts L35 L35
_	180 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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



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
- · Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- · Integral temperature controller
- Weight 60 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	24 VDC
Current, Active	15 AMPS
Current, ECO-Mode	1.9 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	1/120 BTU/HR
	1420 010/110
Cooling (Din 3168)	417 WATTS
Cooling COP (at L35 L35)	1.16
Heating (Traditional)	> 1220 BTU/HR
Heating (Din 3168)	> 417 WATTS
Heating COP	1.16
Heat Exchanger (ECO-Mode)	12.5 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

CONFIGURATI	IONS			
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-2250	0-H4J5-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-2250	0-H455-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
AHP-2250HC	0-H4I5-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-2250HC	0-H455-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
AHP-2250XE	0-H4J5-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4, IP 56
AHP-2250XE	0-H455-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4, IP 56
AHP-2250XEHC	0-H4I5-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4, IP 56
AHP-2250XEHC	0-H455-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4, IP 56
AHP-2250X	0-H4J5-2-000	Cool only, Mil. grade hot side fans	TC-4F	NEMA-4X, IP 56
AHP-2250X	0-H455-2-000	Cool only, Mil. grade hot side fans	EXT*	NEMA-4X, IP 56
AHP-2250XHC	0-H4I5-3-000	Heat/Cool, Mil. grade hot side fans	TC-7F	NEMA-4X, IP 56
AHP-2250XHC	0-H455-3-000	Heat/Cool, Mil. grade hot side fans	EXT*	NEMA-4X, IP 56

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



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)			
Ambient Temp.	35 °C	50 °C	
Enclosure Air	y=.066x-27.5	y=.066x-28.3	
Cold Sink	y=.05x-27.5	y=.05x-28.3	

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



Air Flow Pattern

DIMENSIONS



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

Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4 100-240 VAC Input High Capacity 2400 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 82 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

Input Voltage	100 - 240 VAC
Current, Active	11 - 4.6 AMPS
Alternate Input Voltage	127 - 374 VDC
Current , ECO-Mode (@120 vac)	1.5 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	1100 Watts

PERFORMANCE RATINGS

Cooling (Traditional)	2400 BTU/HR
Cooling (Din 3168)	705 WATTS
Cooling COP (at L35 L35)	0.64
Heating (Traditional)	> 1200 BTU/HR
Heating (Din 3168)	> 352 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C

<image>

INCLUDES

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



200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATIO	ONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-3259	0-I5JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-3259	0-I55B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
AHP-3259HC	0-I5IB-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-3259HC	0-I55B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
AHP-3259XE	0-I5JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4, IP 56
AHP-3259XE	0-I55B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4, IP 56
AHP-3259XEHC	0-I5IB-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4, IP 56
AHP-3259XEHC	0-I55B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4, IP 56

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



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)			
Ambient Temp 35°C 50°C			
Enclosure Air	y=.04x-28.2	y=.04x-29.5	
Cold Sink	y=.029x-28.2	y=.029x-29.5	

Air Cond	itioner -	Air Co	oled	
AHP	325	59		
MOUNTIN	IG STYL	E		
Thro	ough Mo	unted		
ENVIRON	MENTS	SERVED	,	
NEM	MA-12	IP 52		
NEM	MA-4	IP 56		
RATING (raditio	onal)		
240	0 BTU/h	nr @ 0 °	'F Δ T	
RATING (DIN 316	8)		
705	Watts	L35 L35		
330) Watts	L35 L50		

Air Flow Pattern

DIMENSIONS

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Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4 100-240 VAC Input High Capacity 1820 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

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

Input Voltage	100 - 240 VAC
Current, Active	8.4 - 3.5 AMPS
Alternate Input Voltage	127 - 374 VDC
Current , ECO-Mode	1 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	840 Watts

PERFORMANCE RATINGS

Cooling (Traditional)	1820 BTU/HR
Cooling (Din 3168)	534 WATTS
Cooling COP (at L35 L35)	0.65
Heating (Traditional)	> 2780 BTU/HR
Heating (Din 3168)	> 816 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C

INCLUDES

- Power supplyTemperature control
- Temperature controller
 Power saving heat exchanger mode
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord

200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATI	ONS				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	
AHP-2259	0-H5JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52	
AHP-2259	0-H55B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52	
AHP-2259HC	0-H5IB-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52	
AHP-2259HC	0-H55B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52	
AHP-2259XE	0-H5JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4, IP 56	
AHP-2259XE	0-H55B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4, IP 56	
AHP-2259XEHC	0-H5IB-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4, IP 56	
AHP-2259XEHC	0-H55B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4, IP 56	
AHP-2259HC AHP-2259XE AHP-2259XE AHP-2259XEHC AHP-2259XEHC	0-H55B-1-000 0-H5JB-4-000 0-H55B-4-000 0-H51B-5-000 0-H55B-5-000	Heat/Cool, industrial fans Cool only, sealed hot side fans Cool only, sealed hot side fans Heat/Cool, sealed hot side fans Heat/Cool, sealed hot side fans	EXT* TC-4F EXT* TC-7F EXT*	NEMA-12, IP 52 NEMA-4, IP 56 NEMA-4, IP 56 NEMA-4, IP 56 NEMA-4, IP 56	

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

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)						
Ambient Temp 35°C 50°C						
Enclosure Air	y=.06x-32	y=.06x-33.5				
Cold Sink	y=.044x-32	y=.044x-33.5				

Air Conditioner - Air Cooled	
AHP-2259	
MOUNTING STYLE	
Through Mounted	
ENVIRONMENTS SERVED	
NEMA-12 IP 52	
NEMA-4 IP 56	
RATING (TRADITIONAL)	
1820 BTU/hr @ 0 °F Δ T	
RATING (DIN 3168)	
534 Watts L35 L35	
280 Watts L35 L50	

Air Flow Pattern

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

AHP-2259 Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4

100 - 240 VAC Input High Efficiency 1330 BTU/HR

FEATURES

- High efficiency thermoelectric design ٠
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure ٠
- Central input cord for easy mounting ٠
- Closed loop design ٠
- Condensate control and evaporation system •
- Compact
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free ٠
- No compressor ٠
- Environmentaly friendly and safe ٠
- Stainless Steel exterior housing ٠
- Mounts and operates in any orientation
- Integral temperature controller •
- Weight 55 LBS.

CONTROL TEMPERATURES

35 °C
25 °C
10 °C
5 °C
-40/+65 °C
-10/+60 °C

POWER INPUTS

Input Voltage	100 - 240 VAC
Current, Active	3.0 - 1.3 AMPS
Alternate Input voltage	127 - 374 VDC
Current , ECO-Mode	1 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	320 Watts

PERFORMANCE RATINGS

Cooling (Traditional)	1330 BTU/HR
Cooling (Din 3168)	390 WATTS
Cooling COP (at L35 L35)	1.35
Heating (Traditional)	> 980 BTU/HR
Heating (Din 3168)	> 290 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C

INCLUDES

• Power supply

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

200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATIONS						
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT		
AHP-2259	0-H4JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52		
AHP-2259	0-H45B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52		
AHP-2259HC	0-H4IB-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52		
AHP-2259HC	0-H45B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52		
AHP-2259XE	0-H4JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4, IP 56		
AHP-2259XE	0-H45B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4, IP 56		
AHP-2259XEHC	0-H4IB-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4, IP 56		
AHP-2259XEHC	0-H45B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4, IP 56		

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

y=.046x-24.2

Air Conditioner - Air Cooled

Air Flow Pattern

y=.046x-25.6

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

Cold Sink

Air Conditioner

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

MODEL	PART NUMBER	VOLTAGE VAC 50/60 HZ	CURRENT AMPS.	WEIGHT LBS.(KG)	TEMP. Control	OPERATING AMBIENT TEMPERATURE RANGE °C	OPERATING ENCLOSURE TEMPERATURE RANGE °C	ENVIRONMENT
AHP-1800	0-0180-0-000	120	8.0	46(21)	TC-6F	-40/+70	-10/+60	NEMA-12
AHP-1800	0-0150-0-000	120	8.0	46(21)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1800	0-01F0-0-000	120	8.0	46(21)	TC-1F	-40/+70	-10/+60	NEMA-12
AHP-1800HC	0-0130-1-000	120	8.0	46(21)	TC-3F	-40/+70	-10/+60	NEMA-12
AHP-1800HC	0-0150-1-000	120	8.0	46(21)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1802	0-0182-0-000	240	5.0	46(21)	TC-6F	-40/+70	-10/+60	NEMA-12
AHP-1802	0-0152-0-000	240	5.0	46(21)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1802	0-01F2-0-000	240	5.0	46(21)	TC-1F	-40/+70	-10/+60	NEMA-12
AHP-1802HC	0-0132-1-000	240	5.0	46(21)	TC-3F	-40/+70	-10/+60	NEMA-12
AHP-1802HC	0-0152-1-000	240	5.0	46(21)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1801	0-0181-0-000	120/240	8.0/5.0	46(21)	TC-6F	-40/+70	-10/+60	NEMA-12
AHP-1801	0-01F1-0-000	120/240	8.0/5.0	46(21)	TC-1F	-40/+70	-10/+60	NEMA-12
AHP-1801HC	0-0131-1-000	120/240	8.0/5.0	46(21)	TC-3F	-40/+70	-10/+60	NEMA-12
AHP-1800XE	0-0180-4-000	120	8.0	47(21.4)	TC-6F	-40/+70	-10/+60	NEMA-4
AHP-1800XE	0-0150-4-000	120	8.0	47(21.4)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1800XE	0-01F0-4-000	120	8.0	47(21.4)	TC-1F	-40/+70	-10/+60	NEMA-4
AHP-1800XEHC	0-0130-5-000	120	8.0	47(21.4)	TC-3F	-40/+70	-10/+60	NEMA-4
AHP-1800XEHC	0-0150-5-000	120	8.0	47(21.4)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1802XE	0-0182-4-000	240	5.0	52(23.6)	TC-6F	-40/+70	-10/+60	NEMA-4
AHP-1802XE	0-0152-4-000	240	5.0	52(23.6)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1802XE	0-01F2-4-000	240	5.0	52(23.6)	TC-1F	-40/+70	-10/+60	NEMA-4
AHP-1802XEHC	0-0132-5-000	240	5.0	52(23.6)	TC-3F	-40/+70	-10/+60	NEMA-4
AHP-1802XEHC	0-0152-5-000	240	5.0	52(23.6)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1800X	0-0180-2-000	120	8.0	47(21.4)	TC-6F	-40/+70	-10/+60	NEMA-4X
AHP-1800X	0-0150-2-000	120	8.0	47(21.4)	EXT*	-40/+70	-10/+60	NEMA-4X
AHP-1800X	0-01F0-2-000	120	8.0	47(21.4)	TC-1F	-40/+70	-10/+60	NEMA-4X
AHP-1800XHC	0-0130-3-000	120	8.0	47(21.4)	TC-3F	-40/+70	-10/+60	NEMA-4X
AHP-1800XHC	0-0150-3-000	120	8.0	47(21.4)	EXT*	-40/+70	-10/+60	NEMA-4X
AHP-1801X	0-0181-2-0000	120/240	8.0/6.0	47(21.4)	TC-6F	-40/+70	-10/+60	NEMA-4X
AHP-1801X	0-01F1-2-000	120/240	8.0/6.0	47(21.4)	TC-1F	-40/+70	-10/+60	NEMA-4X
AHP-1801XHC	0-0131-3-000	120/240	8.0/6.0	47(21.4)	TC-3F	-40/+70	-10/+60	NEMA-4X

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

Consult factory for shock and vibration models www.thermoelectric.com

TECA

Equation of line: y=ΔT(°C) x=Capacity (Watts)				
Ambient Temp	20°C	40°C	60°C	
Enclosure Air	y=.122x-37.0	y=.122x-39.7	y=.122x-42.3	
Cold Sink	y=.09x-37.0	y=.09x-39.7	y=.09x-42.3	

Air Conditioner - Air Cooled				
AHP-1800				
MOUNTING STYLE				
Through Mounted				
ENVIRONMENTS SERVED				
NEMA-12 IP 52				
NEMA-4,4X IP 56				
RATING (TRADITIONAL)				
1100 BTU/hr @ 0 °F ΔT				
1420 BTU/hr @ +20 °F Δ T				
RATING (DIN 3168)				
322 Watts L35 L35				
210 Watts L35 L50				

DIMENSIONS

www.thermoelectric.com

1-888-TECA-USA (832-2872)

AHP-1800 Air Conditioner

Through Mounted

NEMA-12, 4, 4X

Air Cooled

24 VDC Input High Efficiency 1100 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
- Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Operating ambient temperature range -40/+70 °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) Cooling (Din 3168) Cooling COP (at L35 L35) Heating (Traditional) Heating (Din 3168) Heating COP 1100 BTU/HR 322 WATTS 0.74 > 1473 BTU/HR > 432 WATTS > 1.0

INCLUDES

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

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-1800	0-0195-0-000	Cool only	None	NEMA-12, IP 52
AHP-1800	0-0185-0-000	Cool only	TC-6F	NEMA-12, IP 52
AHP-1800	0-01F5-0-000	Cool only	TC-1F	NEMA-12, IP 52
AHP-1800	0-0155-0-000	Cool only	EXT*	NEMA-12, IP 52
AHP-1800HC	0-0135-1-000	Heat/Cool	TC-3F	NEMA-12, IP 52
AHP-1800HC	0-0115-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52
AHP-1800HC	0-0155-1-000	Heat/Cool	EXT*	NEMA-12, IP 52
AHP-1800HC	0-01H5-1-000	Heat/Cool	TC-4600	NEMA-12, IP 52
AHP-1800XE	0-0195-4-000	Cool only	None	NEMA-4, IP 56
AHP-1800XE	0-0185-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1800XE	0-01F5-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1800XE	0-0155-4-000	Cool only	EXT*	NEMA-4, IP 56

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

CONTROL TEMPERATURES

Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C
TC-1F	-	-	35
TC-6F	-	-	25 or 35
TC-3F	10	-	35
TC-7F	10	25	35

250 VDC configuration for crane applications available

MODEL	Part Number	NOTES	Temperaturi Control	e environment
AHP-1800XEHC	0-0135-5-000	Heat/Cool	TC-3F	NEMA-4, IP 56
AHP-1800XEHC	0-0115-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56
AHP-1800XEHC	0-0155-5-000	Heat/Cool	EXT*	NEMA-4, IP 56
AHP-1800XEHC	0-01H5-5-000	Heat/Cool	TC-4600	NEMA-4, IP 56
AHP-1800X	0-0195-2-000	Cool only	None	NEMA-4X, IP 56
AHP-1800X	0-0185-2-000	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1800X	0-01F5-2-000	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1800X	0-0155-2-000	Cool only	EXT*	NEMA-4X, IP 56
AHP-1800XHC	0-0135-3-000	Heat/Cool	TC-3F	NEMA-4X, IP 56
AHP-1800XHC	0-0115-3-000	Heat/Cool	TC-7F	NEMA-4X, IP 56
AHP-1800XHC	0-0155-3-000	Heat/Cool	EXT*	NEMA-4X, IP 56
AHP-1800XHC	0-01H5-3-000	Heat/Cool	TC-4600	NEMA-4X, IP 56

Consult factory for full shock and vibration models

Equation of line: $y=\Delta T$ (°C) x=Capacity (Watts)					
Ambient Temp 20°C 40°C 60°C					
Enclosure Air	y=.129x-38.1	y=.129x-40.1	y=.129x-42.0		
Cold Sink	y=.09x-38.1	y=.09x-40.1	y=.09x-42.0		

Air Conditioner - Air Cooled

AHP-1800

 MOUNTING STYLE

 Through Mounted

 ENVIRONMENTS SERVED

 NEMA-12
 IP 52

 NEMA-4,4X
 IP 56

 RATING (TRADITIONAL)

 1100 BTU/hr @ 0 °F ΔT

 1420 BTU/hr @ +20 °F ΔT

 322 Watts L35 L35

 210 Watts L35 L50

DIMENSIONS

Air Conditioner

Air Cooled Through Mounted NEMA-12, 4, 4X 48 VDC Input High Efficiency 1100 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
- Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 55 LBS.

POWER INPUTS	
Voltage	48 VDC
Current, Active	9 AMPS
Current, ECO-Mode	1 AMPS

PERFORMANCE RATINGS

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

INCLUDES

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

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-1800	0-0196-0-000	Cool only	None	NEMA-12, IP 52
AHP-1800	0-0186-0-000	Cool only	TC-6F	NEMA-12, IP 52
AHP-1800	0-01F6-0-000	Cool only	TC-1F	NEMA-12, IP 52
AHP-1800	0-0156-0-000	Cool only	EXT*	NEMA-12, IP 52
AHP-1800HC	0-0136-1-000	Heat/Cool	TC-3F	NEMA-12, IP 52
AHP-1800HC	0-0116-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52
AHP-1800HC	0-0156-1-000	Heat/Cool	EXT*	NEMA-12, IP 52
AHP-1800XE	0-0196-4-000	Cool only	None	NEMA-4, IP 56
AHP-1800XE	0-0186-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1800XE	0-01F6-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1800XE	0-0156-4-000	Cool only	EXT*	NEMA-4, IP 56

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

CONTROL TEMPERATURES

Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C
TC-1F	-	-	35
TC-6F	-	-	25 or 35
TC-3F	10	-	35
TC-7F	10	25	35

250 VDC configuration for crane applications available

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-1800XEHC	0-0136-5-000	Heat/Cool	TC-3F	NEMA-4, IP 56
AHP-1800XEHC	0-0116-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56
AHP-1800XEHC	0-0156-5-000	Heat/Cool	EXT*	NEMA-4, IP 56
AHP-1800X	0-0196-2-000	Cool only	None	NEMA-4X, IP 56
AHP-1800X	0-0186-2-000	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1800X	0-01F6-2-000	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1800X	0-0156-2-000	Cool only	EXT*	NEMA-4X, IP 56
AHP-1800XHC	0-0136-3-000	Heat/Cool	TC-3F	NEMA-4X, IP 56
AHP-1800XHC	0-0116-3-000	Heat/Cool	TC-7F	NEMA-4X, IP 56
AHP-1800XHC	0-0156-3-000	Heat/Cool	EXT*	NEMA-4X, IP 56

Consult factory for full shock and vibration models

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)					
Ambient Temp 20°C 40°C 60°C					
Enclosure Air	y=.129x-38.1	y=.129x-40.1	y=.129x-42.0		
Cold Sink	y=.09x-38.1	y=.09x-40.1	y=.09x-42.0		

Air Conditioner - Air Cooled

AHP-1800

 MOUNTING STYLE

 Through Mounted

 ENVIRONMENTS SERVED

 NEMA-12
 IP 52

 NEMA-4,4X
 IP 56

 RATING (TRADITIONAL)

 1100 BTU/hr
 @ 0 °F ΔT

 RATING (DIN 3168)

 322 Watts
 L35 L35

 210 Watts
 L35 L50

DIMENSIONS

Hazardous Location Air Conditioner AHP-1800

Air Cooled Through Mounted NEMA-12, 4X, Class I Div 2

120 VAC, 240 VAC Input 1100 BTU/HR 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

SPECIFICATION	SPECIFICATIONS								
MODEL	PART NUMBER	Voltage Vac 50/60 Hz	CURRENT AMPS.	WEIGHT LBS.(KG)	TEMP. Control	OPERATING AMBIENT TEMPERATURE RANGE °C	OPERATING ENCLOSURE TEMPERATURE RANGE °C	ENVIRONMENT	
AHP-1800EP	0-0180-0-002	120	8.0	46(21)	TC-6F	-40/+63	-10/+60	NEMA-12	
AHP-1800EP	0-01F0-0-002	120	8.0	46(21)	TC-1F	-40/+63	-10/+60	NEMA-12	
AHP-1800EP-1	0-0170-0-004	120	8.0	46(21)	EXT*	-40/+63	-10/+60	NEMA-12	
AHP-1800EPHC	0-0130-1-003	120	8.0	46(21)	TC-3F	-40/+63	-10/+60	NEMA-12	
AHP-1800EPHC-1	0-0170-1-006	120	8.0	46(21)	EXT*	-40/+63	-10/+60	NEMA-12	
AHP-1801EP	0-0181-0-002	120/240	8.0/5.0	46(21)	TC-6F	-40/+63	-10/+60	NEMA-12	
AHP-1801EP	0-01F1-0-002	120/240	8.0/5.0	46(21)	TC-1F	-40/+63	-10/+60	NEMA-12	
AHP-1801EP-1	0-0171-0-002	120/240	8.0/5.0	46(21)	EXT*	-40/+63	-10/+60	NEMA-12	
AHP-1801EPHC	0-0131-1-003	120/240	8.0/5.0	46(21)	TC-3F	-40/+63	-10/+60	NEMA-12	
AHP-1801EPHC-1	0-0131-1-006	120/240	8.0/5.0	46(21)	EXT*	-40/+63	-10/+60	NEMA-12	
AHP-1800XP	0-0180-2-002	120	8.0	47(21.4)	TC-6F	-40/+75	-10/+60	NEMA-4X	
AHP-1800XP	0-01F0-2-002	120	8.0	47(21.4)	TC-1F	-40/+75	-10/+60	NEMA-4X	
AHP-1800XP-1	0-0170-2-004	120	8.0	47(21.4)	EXT*	-40/+75	-10/+60	NEMA-4X	
AHP-1800XPHC	0-0130-3-003	120	8.0	47(21.4)	TC-3F	-40/+75	-10/+60	NEMA-4X	
AHP-1800XPHC-1	0-0170-3-006	120	8.0	47(21.4)	EXT*	-40/+75	-10/+60	NEMA-4X	
AHP-1801XP	0-0181-2-002	120/240	8.0/5.0	47(21.4)	TC-6F	-40/+75	-10/+60	NEMA-4X	
AHP-1801XP	0-01F1-2-002	120/240	8.0/5.0	47(21.4)	TC-1F	-40/+75	-10/+60	NEMA-4X	
AHP-1801XP-1	0-0171-2-005	120/240	8.0/5.0	47(21.4)	EXT*	-40/+75	-10/+60	NEMA-4X	
AHP-1801XPHC	0-0131-3-003	120/240	8.0/5.0	47(21.4)	TC-3F	-40/+75	-10/+60	NEMA-4X	
AHP-1801XPHC-1	0-0171-3-004	120/240	8.0/5.0	47(21.4)	EXT*	-40/+75	-10/+60	NEMA-4X	
* Unit is set for 5-32 VD	C external signal relay(s) included			(Consult factory for	shock and vibrat	ion models	

Equation of line: y=∆T(°C) x=Capacity (Watts)							
Ambient Temp 20°C 40°C 60°C							
Enclosure Air	y=.122x-37.0	y=.122x-39.7	y=.122x-42.3				
Cold Sink	y=.09x-37.0	y=.09x-39.7	y=.09x-42.3				

AHP-1800EP					
MOUNTING STYLE					
Through Mounted					
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					

Air Conditioner - Air Cooled

DIMENSIONS

www.thermoelectric.com

1-888-TECA-USA (832-2872)

AHP-1802XP

European

Air Cooled Through Mounted

Hazardous Location

Air Conditioner

950 BTU/HR

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) Active Cooling (TC-3F)	25 °C or 35 °C 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.

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	
AHP-1802XP	0-0182-2-007	Cool only	TC-6F	
AHP-1802XP	0-0172-3-009	Cool Only	EXT*	
AHP-1802XPHC	0-0132-3-008	Heat/Cool	TC-3F	
AHP-1802XPHC	0-0172-3-010	Heat/Cool	EXT*	

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

INCLUDES

- Semi-Centrifugal duct fan, DN 220, AC, explosion proof, zones 1and 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

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)							
Ambient Temp 25°C 50°C							
y=.123x-35.0	y=.123x-40.0						
y=.09x-35.0	y=.09x-40.0						
	e: y=∆T(°C) x=Capacit 25°C y=.123x-35.0 y=.09x-35.0						

Air Conditioner - Air Cooled

AHP-1802XP

MOUNT	ING STYLE
T	nrough Mounted
ENVIRO	NMENTS SERVED
IF	254
Z	one 1, Zone 2
E	x II 2 G
Т	1 - T3
RATING	(TRADITIONAL)
9	50 BTU/hr @ 0 °F ΔT
1	210 BTU/hr @ +20 °F ΔT
RATING	(DIN 3168)
2	80 Watts L35 L35
1	60 Watts L35 L50

Air Flow Pattern

DIMENSIONS

www.thermoelectric.com

1-888-TECA-USA (832-2872)

AHP-1501 Air Conditioner

Air Cooled Through Mounted NEMA-12 & NEMA-4 120/240 VAC Input 1000 BTU/HR

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 hher 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/+70 °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

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	MODEL	PART NUMBER	NOTES	TEMPERATUR CONTROL	RE ENVIRONMENT
AHP-1501	0-2181-0-000	Cool only	TC-6F	NEMA-12, IP 52	AHP-1501XE	0-2181-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1501	0-21F1-0-000	Cool only	TC-1F	NEMA-12, IP 52	AHP-1501XE	0-21F1-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1501	0-2151-0-000	Cool only	EXT*	NEMA-12, IP 52	AHP-1501XE	0-2151-4-000	Cool only	EXT*	NEMA-4, IP 56
AHP-1501HC	0-2131-1-000	Heat/Cool	TC-3F	NEMA-12, IP 52	AHP-1501XEHC	0-2131-5-000	Heat/Cool	TC-3F	NEMA-4, IP 56
AHP-1501HC	0-2151-1-000	Heat/Cool	EXT*	NEMA-12, IP 52	AHP-1501XEHC	0-2151-5-000	Heat/Cool	EXT*	NEMA-4, IP 56

CE

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

CONTROL TEMPERATURES							
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C				
TC-1F	-	-	35				
TC-6F	-	-	25 or 35				
TC-3F	10	-	35				

250 VDC configuration for crane applications available

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

Air 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

 300 Watts L35 L35

187 Watts L35 L50

Air Flow Pattern

AHP-1501 DIMENSIONS

*Dimension does not include hardware and sealant.

Mounting hardware, drip pan and gasket included but not shown. Dimensions: Inches [Millimeters]

Air Conditioner

Air Cooled Through Mounted NEMA-12 & NEMA-4 24 VDC Input High Efficiency 1000 BTU/HR

FEATURES

- Mounts in multi-unit array for incremental capacity
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at hher 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/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 48 LBS.

DUM	ED.	IND	ITC	

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

PERFORMANCE RATINGS

fts
U/HR
ATTS
ł

INCLUDES

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

CONFIGURATIONS

CONTROL TEMPERATURES							
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C				
TC-1F	-	-	35				
TC-6F	-	-	25 or 35				
TC-3F	10	-	35				
TC-7F	10	25	35				

250 VDC configuration for crane applications available

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-1501	0-2185-0-000	Cool only	TC-6F	NEMA-12, IP 52	AHP-1501XE	0-2185-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1501	0-21F5-0-000	Cool only	TC-1F	NEMA-12, IP 52	AHP-1501XE	0-21F5-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1501	0-2155-0-000	Cool only	EXT*	NEMA-12, IP 52	AHP-1501XE	0-2155-4-000	Cool only	EXT*	NEMA-4, IP 56
AHP-1501HC	0-2135-1-000	Cool only	TC-3F	NEMA-12, IP 52	AHP-1501XEHC	0-2135-5-000	Cool only	TC-3F	NEMA-4, IP 56
AHP-1501HC	0-2115-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52	AHP-1501XEHC	0-2115-5-000	Heat/Coo	l TC-7F	NEMA-4, IP 56
AHP-1501HC	0-2155-1-000	Heat/Cool	EXT*	NEMA-12, IP 52	AHP-1501XEHC	0-2155-5-000	Heat/Coo	l EXT*	NEMA-4, IP 56
AHP-1501HC	0-21H5-1-000	Heat/Cool	TC-4600	NEMA-12, IP 52	AHP-1501XEHC	0-21H5-5-000	Heat/Coo	l TC-4600	NEMA-4, IP 56

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

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

Air 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

 1300 BTU/hr
 +20 °F ΔT

 300 Watts
 L35 L35

187 Watts L35 L50

Air Flow Pattern

AHP-1501 DIMENSIONS

Mounting hardware, drip pan and gasket included but not shown. Dimensions: Inches [Millimeters]

Air Conditioner

Air Cooled Through Mounted NEMA-12 & NEMA-4

48 VDC Input High Efficiency 1000 BTU/HR

FEATURES

- Mounts in multi-unit array for incremental capacity •
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at hher ambients by as much as 10%
- Virtually maintenance-free operation •
- Environmentally friendly and safe ٠
- No compressor, fluorocarbons or filters •
- Stainless steel exterior housing •
- Operating ambient temperature range -40/+70 °C •
- Operating enclosure temperature range -10/+60 °C •

1 AMPS

Weight 48 LBS. •

Current, ECO-Mode

POWER INPUTS	
Voltage	24 VDC
Current, Active	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 ٠
- Mounting hardware •
- Power in

CONFI

Power input leads							
					250 VDC	configuration	n for
CONFIGU	IRATIONS						
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	MODEL	PART NUMBER	NO
AHP-1501	0-2186-0-000	Cool only	TC-6F	NEMA-12, IP 52	AHP-1501XE	0-2186-4-000	Cool
AHP-1501	0-21F6-0-000	Cool only	TC-1F	NEMA-12, IP 52	AHP-1501XE	0-21F6-4-000	Cool
AHP-1501	0-2156-0-000	Cool only	EXT*	NEMA-12, IP 52	AHP-1501XE	0-2156-4-000	Cool
AHP-1501HC	0-2136-1-000	Cool only	TC-3F	NEMA-12, IP 52	AHP-1501XEHC	0-2136-5-000	Cool
AHP-1501HC	0-2116-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52	AHP-1501XEHC	0-2116-5-000	Heat

NEMA-12, IP 52

CONTROL TEMPERATURES							
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C				
TC-1F	-	-	35				
TC-6F	-	-	25 or 35				
TC-3F	10	-	35				
TC-7F	10	25	35				

crane applications available

MODEL	PART NUMBER	NOTES T	EMPERATUR CONTROL	E ENVIRONMENT
AHP-1501XE	0-2186-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1501XE	0-21F6-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1501XE	0-2156-4-000	Cool only	EXT*	NEMA-4, IP 56
AHP-1501XEHC	0-2136-5-000	Cool only	TC-3F	NEMA-4, IP 56
AHP-1501XEHC	0-2116-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56
AHP-1501XEHC	0-2156-5-000	Heat/Cool	EXT*	NEMA-4, IP 56

0-2156-1-000 * Unit is set for 5-32 VDC external signal, relay(s) included

Heat/Cool

EXT*

AHP-1501HC

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

Air 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

 RATING (DIN 3168)

 300 Watts
 L35 L35

 187 Watts
 L35 L50

AHP-1501 DIMENSIONS

*Dimension does not include hardware and sealant.

Mounting hardware, drip pan and gasket included but not shown. Dimensions: Inches [Millimeters]

Air Conditioner

120 VAC, 240 VAC Input

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

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

OPTIONS

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

MODEL	PART NUMBER	VOLTAGE VAC 50/60HZ	CURRENT AMPS.	WEIGHT LBS.(KG)	TEMP. CONTROL	OPERATING AMBIENT TEMPERATURE AMBIENT °C	OPERATING ENCLOSURE TEMPERATURE RANGE °C	ENVIRONMENT
AHP-1200FF	0-3090-0-000	120	4.0	21(9.5)	None	-40/+70	-10/+60	NEMA-12
AHP-1200FF	0-3080-0-000	120	4.0	21(9.5)	TC-6F	-40/+70	-10/+60	NEMA-12
AHP-1200FF	0-30F0-0-000	120	4.0	21(9.5)	TC-1F	-40/+70	-10/+60	NEMA-12
AHP-1200FF	0-3050-0-000	120	4.0	21(9.5)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1200FFHC	0-3030-1-000	120	4.0	21(9.5)	TC-3F	-40/+70	-10/+60	NEMA-12
AHP-1200FFHC	0-3050-1-000	120	4.0	21(9.5)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1201FF	0-3081-0-000	120/240	4.0/2.2	29(13.2)	TC-6F	-40/+70	-10/+60	NEMA-12
AHP-1201FF	0-3051-0-000	120/240	4.0/2.2	29(13.2)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1201FF	0-30F1-0-000	120/240	4.0/2.2	29(13.2)	TC-1F	-40/+70	-10/+60	NEMA-12
AHP-1201FFHC	0-3031-1-000	120/240	4.0/2.2	29(13.2)	TC-3F	-40/+70	-10/+60	NEMA-12
AHP-1201FFHC	0-3051-1-000	120/240	4.0/2.2	29(13.2)	EXT*	-40/+70	-10/+60	NEMA-12
AHP-1200XE	0-3080-4-000	120	5.0	23(10.4)	TC-6F	-40/+70	-10/+60	NEMA-4
AHP-1200XE	0-3050-4-000	120	5.0	23(10.4)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1200XE	0-30F0-4-000	120	5.0	23(10.4)	TC-1F	-40/+70	-10/+60	NEMA-4
AHP-1200XEHC	0-3030-5-000	120	5.0	23(10.4)	TC-3F	-40/+70	-10/+60	NEMA-4
AHP-1200XEHC	0-3050-5-000	120	5.0	23(10.4)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1202XE	0-3082-4-000	240	2.5	30(13.6)	TC-6F	-40/+70	-10/+60	NEMA-4
AHP-1202XE	0-3052-4-000	240	2.5	30(13.6)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1202XE	0-30F2-4-000	240	2.5	30(13.6)	TC-1F	-40/+70	-10/+60	NEMA-4
AHP-1202XEHC	0-3032-5-000	240	2.5	30(13.6)	TC-3F	-40/+70	-10/+60	NEMA-4
AHP-1202XEHC	0-3052-5-000	240	2.5	30(13.6)	EXT*	-40/+70	-10/+60	NEMA-4
AHP-1200X	0-3090-2-000	120	4.0	23(10.4)	None	-40/+70	-10/+60	NEMA-4X
AHP-1200X	0-3080-2-000	120	4.0	23(10.4)	TC-6F	-40/+70	-10/+60	NEMA-4X
AHP-1200X	0-3050-2-000	120	4.0	23(10.4)	EXT*	-40/+70	-10/+60	NEMA-4X
AHP-1200X	0-30F0-2-000	120	4.0	23(10.4)	TC-1F	-40/+70	-10/+60	NEMA-4X
AHP-1200XHC	0-3030-3-000	120	4.0	23(10.4)	TC-3F	-40/+70	-10/+60	NEMA-4X
AHP-1200XHC	0-3050-3-000	120	4.0	23(10.4)	EXT*	-40/+70	-10/+60	NEMA-4X
AHP-1200XM	0-3080-2-100	120	4.0	23(10.4)	TC-6F	-40/+70	-10/+60	NEMA-4X
AHP-1200XM	0-3050-2-100	120	4.0	23(10.4)	EXT*	-40/+70	-10/+60	NEMA-4X
AHP-1200XMHC	0-3030-3-001	120	4.0	23(10.4)	TC-3F	-40/+70	-10/+60	NEMA-4X
AHP-1200XMHC	0-3050-3-001	120	4.0	23(10.4)	EXT*	-40/+70	-10/+60	NEMA-4X

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

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)					
Ambient Temp	20°C	40°C	60°C		
Enclosure Air	y=.266x-39.5	y=.266x-41.0	y=.266x-42.5		
Cold Sink	y=.173x-39.5	y=.173x-41.0	y=.173x-42.5		

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 ΔT
670 BTU/hr @ +20 °F Δ T
RATING (DIN 3168)
154 Watts L35 L35
100 Watts L35 L50

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DIMENSIONS

www.thermoelectric.com

Dimensions: Inches [Millimeters]

1-888-TECA-USA (832-2872)

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
- Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Oprerating ambient temperature range -40/+70 °C
- Oprerating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 18 LBS.

POWER INPUTS

24 VDC
9.0 AMPS
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

MODEL	PART NUMBER	NOTES TE	MPERATURE CONTROL	ENVIRONMENT	MODEL	PART NUMBER	NOTES T	EMPERATURE CONTROL	ENVIRONMENT
AHP-1200	0-3095-0-000	Cool only	None	NEMA-12, IP 52	AHP-1200X	0-3095-2-000	Cool only	/ None	NEMA-4X, IP 56
AHP-1200	0-3085-0-000	Cool only	TC-6F	NEMA-12, IP 52	AHP-1200X	0-3085-2-000	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1200	0-30F5-0-000	Cool only	TC-1F	NEMA-12, IP 52	AHP-1200X	0-30F5-2-000	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1200	0-3055-0-000	Cool only	EXT*	NEMA-12, IP 52	AHP-1200X	0-3055-2-000	Cool only	EXT*	NEMA-4X, IP 56
AHP-1200HC	0-3035-1-000	Heat/Cool	TC-3F	NEMA-12, IP 52	AHP-1200XHC	0-3035-3-000	Heat/Coo	l TC-3F	NEMA-4X, IP 56
AHP-1200HC	0-30I5-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52	AHP-1200XHC	0-30I5-3-000	Heat/Coo	l TC-7F	NEMA-4X, IP 56
AHP-1200HC	0-3055-1-000	Heat/Cool	EXT*	NEMA-12, IP 52	AHP-1200XHC	0-3055-3-000	Heat/Coo	l EXT*	NEMA-4X, IP 56
AHP-1200HC	0-30H5-1-000	Heat/Cool	TC-4600	NEMA-12, IP 52	AHP-1200XHC	0-30H5-3-000	Heat/Coo	1 TC-4600	NEMA-4X, IP 56
AHP-1200XE	0-3095-4-000	Cool only	None	NEMA-4, IP 56	AHP-1200XM†	0-3095-2-041	Cool only	y None	NEMA-4X, IP 56
AHP-1200XE	0-3085-4-000	Cool only	TC-6F	NEMA-4, IP 56	AHP-1200XM†	0-3085-2-034	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1200XE	0-30F5-4-000	Cool only	TC-1F	NEMA-4, IP 56	AHP-1200XM†	0-30F5-2-035	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1200XE	0-3055-4-000	Cool only	EXT*	NEMA-4, IP 56	AHP-1200XM†	0-3055-2-036	Cool only	EXT*	NEMA-4X, IP 56
AHP-1200XEHC	0-3035-5-000	Heat/Cool	TC-3F	NEMA-4, IP 56	AHP-1200XMHC	† 0-3035-3-037	Heat/Coo	1 TC-3F	NEMA-4X, IP 56
AHP-1200XEHC	0-3015-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56	AHP-1200XMHC	† 0-3015-3-040	Heat/Coo	l TC-7F	NEMA-4X, IP 56
AHP-1200XEHC	0-3055-5-000	Heat/Cool	EXT*	NEMA-4, IP 56	AHP-1200XMHC	† 0-3055-3-038	Heat/Coo	l EXT*	NEMA-4X, IP 56
AHP-1200XEHC	0-30H5-5-000	Heat/Cool	TC-4600	NEMA-4, IP 56	AHP-1200XMHC	† 0-30H5-3-039	Heat/Coo	l TC-4600	NEMA-4X, IP 56
* Unit is set for 5-3	2 VDC external cigr	al relav(s) inc	hadad		+ Full shock and vib	ration models			

Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C
TC-1F	-	-	35
TC-6F	-	-	25 or 35
TC-3F	10	-	35
TC-7F	10	25	35

CONTROL TEMPERATURES

TECA

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)					
Ambient Temp	20°C	40°C	60°C		
Enclosure Air	y=.255x-39.0	y=.255x-41.0	y=.255x-42.0		
Cold Sink	y=.166x-39.0	y=.166x-41.0	y=.166x-42.0		

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 ΔT 670 BTU/hr @ +20 °F ΔT RATING (DIN 3168) 154 Watts L35 L35 100 Watts L35 L50

Air Flow Pattern

MOUNTING CUTOUT DIMENSIONS

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

Air Conditioner

Air Cooled Through Mounted NEMA-12, 4,4X 48 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
- Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Oprerating ambient temperature range -40/+70 °C
- Oprerating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 18 LBS.

POWER INPUTS

Voltage	48 VDC
Current, Active	4.5 AMPS
Current , ECO-Mode	0.45 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

MODEL	PART NUMBER	NOTES TEM	IPERATURE ONTROL	ENVIRONMENT
AHP-1200	0-3096-0-000	Cool only	None	NEMA-12, IP 52
AHP-1200	0-3086-0-000	Cool only	TC-6F	NEMA-12, IP 52
AHP-1200	0-30F6-0-000	Cool only	TC-1F	NEMA-12, IP 52
AHP-1200	0-3056-0-000	Cool only	EXT*	NEMA-12, IP 52
AHP-1200HC	0-3036-1-000	Heat/Cool	TC-3F	NEMA-12, IP 52
AHP-1200HC	0-30I6-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52
AHP-1200HC	0-3056-1-000	Heat/Cool	EXT*	NEMA-12, IP 52
AHP-1200XE	0-3096-4-000	Cool only	None	NEMA-4, IP 56
AHP-1200XE	0-3086-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1200XE	0-30F6-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1200XE	0-3056-4-000	Cool only	EXT*	NEMA-4, IP 56
AHP-1200XEHC	0-3036-5-000	Heat/Cool	TC-3F	NEMA-4, IP 56
AHP-1200XEHC	C 0-30I6-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56
AHP-1200XEHC	C 0-3056-5-000	Heat/Cool	EXT*	NEMA-4, IP 56

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

CONTROL TEMPERATURES

Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C
TC-1F	-	-	35
TC-6F	-	-	25 or 35
TC-3F	10	-	35
TC-7F	10	25	35

MODEL	PART NUMBER	NOTES TEM C	IPERATUR ONTROL	E ENVIRONMENT
AHP-1200X	0-3096-2-000	Cool only	None	NEMA-4X, IP 56
AHP-1200X	0-3086-2-000	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1200X	0-30F6-2-000	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1200X	0-3056-2-000	Cool only	EXT*	NEMA-4X, IP 56
AHP-1200XHC	0-3036-3-000	Heat/Cool	TC-3F	NEMA-4X, IP 56
AHP-1200XHC	0-3016-3-000	Heat/Cool	TC-7F	NEMA-4X, IP 56
AHP-1200XHC	0-3056-3-000	Heat/Cool	EXT*	NEMA-4X, IP 56
AHP-1200XM†	0-3096-2-041	Cool only	None	NEMA-4X, IP 56
AHP-1200XM†	0-3086-2-034	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1200XM†	0-30F6-2-035	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1200XM†	0-3056-2-036	Cool only	EXT*	NEMA-4X, IP 56
AHP-1200XMHC	2† 0-3036-3-037	Heat/Cool	TC-3F	NEMA-4X, IP 56
AHP-1200XMHC	2† 0-3016-3-040	Heat/Cool	TC-7F	NEMA-4X, IP 56
AHP-1200XMHC	2† 0-3056-3-038	Heat/Cool	EXT*	NEMA-4X, IP 56
† Full shock and vib	oration models			

1-888-TECA-USA (832-2872)

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)						
Ambient Temp	20°C	40°C	60°C			
Enclosure Air	y=.255x-39.0	y=.255x-41.0	y=.255x-42.0			
Cold Sink	y=.166x-39.0	y=.166x-41.0	y=.166x-42.0			

AHP-1200
MOUNTING STYLE
Through Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4,4X IP 56
RATING (TRADITIONAL)
530 BTU/hr @ 0 °F ΔT
RATING (DIN 3168)
154 Watts L35 L35
100 Watts L35 L50

Air Conditioner - Air Cooled

Air Flow Pattern

DIMENSIONS

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

-+| 5.76 [146.30] |+-

MOUNTING CUTOUT DIMENSIONS

AHP-1200 Hazardous Location Air Conditioner

Air Cooled Through Mounted NEMA-12, 4X, Class I Div 2

120 VAC, 240 VAC Input 530 BTU/HR Hazardous Location

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

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PECIFICATIONS								
MODEL	PART NUMBER	VOLTAGE VAC 50/60HZ	CURRENT AMPS.	WEIGHT LBS.(KG)	TEMP. CONTROL	OPERATING AMBIENT TEMPERATURE AMBIENT °C	OPERATING ENCLOSURE TEMPERATURE RANGE °C	ENVIRONMENT
AHP-1200EP	0-3080-0-003	120	4.0	21(9.5)	TC-6F	-40/+63	-10/+60	NEMA-12
AHP-1200EP	0-30F0-0-004	120	4.0	21(9.5)	85°F (30°C)	-40/+63	-10/+60	NEMA-12
AHP-1200EP-1	0-3070-0-010	120	4.0	21(9.5)	EXT*	-40/+63	-10/+60	NEMA-12
AHP-1200EPHC	0-3030-1-007	120	4.0	21(9.5)	TC-3F	-40/+63	-10/+60	NEMA-12
AHP-1200EPHC-1	0-3070-1-009	120	4.0	21(9.5)	EXT*	-40/+63	-10/+60	NEMA-12
AHP-1201EP	0-3081-0-003	120/240	4.0/2.0	29(13.2)	TC-6F	-40/+63	-10/+60	NEMA-12
AHP-1201EP	0-30F1-0-004	120/240	4.0/2.0	29(13.2)	85°F (30°C)	-40/+63	-10/+60	NEMA-12
AHP-1201EP-1	0-3071-0-010	120/240	4.0/2.0	29(13.2)	EXT*	-40/+63	-10/+60	NEMA-12
AHP-1201EPHC	0-3031-1-007	120/240	4.0/2.0	29(13.2)	TC-3F	-40/+63	-10/+60	NEMA-12
AHP-1201EPHC-1	0-3071-1-009	120/240	4.0/2.0	29(13.2)	EXT*	-40/+63	-10/+60	NEMA-12
AHP-1200XP	0-3080-2-003	120	4.0	21(9.5)	TC-6F	-40/+71	-10/+60	NEMA-4X
AHP-1200XP	0-30F0-2-004	120	4.0	21(9.5)	85°F (30°C)	-40/+71	-10/+60	NEMA-4X
AHP-1200XP-1	0-3070-2-010	120	4.0	21(9.5)	EXT*	-40/+71	-10/+60	NEMA-4X
AHP-1200XPHC	0-3030-3-007	120	4.0	21(9.5)	TC-3F	-40/+71	-10/+60	NEMA-4X
AHP-1200XPHC-1	0-3070-3-009	120	4.0	21(9.5)	EXT*	-40/+71	-10/+60	NEMA-4X
AHP-1201XP	0-3081-2-014	120/240	4.0/2.0	29(13.2)	TC-6F	-40/+71	-10/+60	NEMA-4X
AHP-1201XP	0-30F1-2-020	120/240	4.0/2.0	29(13.2)	85°F (30°C)	-40/+71	-10/+60	NEMA-4X
AHP-1201XP-1	0-3071-2-012	120/240	4.0/2.0	29(13.2)	EXT*	-40/+71	-10/+60	NEMA-4X
AHP-1201XPHC	0-3031-3-011	120/240	4.0/2.0	29(13.2)	TC-3F	-40/+71	-10/+60	NEMA-4X
AHP-1201XPHC-1	0-3071-3-013	120/240	4.0/2.0	29(13.2)	EXT*	-40/+71	-10/+60	NEMA-4X

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

Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)						
Ambient Temp	20°C	40°C	60°C			
Enclosure Air	y=.266x-39.5	y=.266x-41.0	y=.266x-42.5			
Cold Sink	y=.173x-39.5	y=.173x-41.0	y=.173x-42.5			

Air Conditioner - Air Cooled

AHP-1200EP

MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

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

RATING (TRADITIONAL)

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

070 DT0/III @ +20

RATING (DIN 3168)

154 Watts L35 L35 100 Watts L35 L50

Air Flow Pattern

MOUNTING CUTOUT DIMENSIONS

DIMENSIONS

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

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

REOUIREMENTS

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

INCLUDES

- Mounting gasket and hardware
- Power input line cord

PERFORMANCE CURVE

Hazardous Location

Air Conditioner

LISTING & CLASSIFICATION:

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.

Air Conditioner - Air Cooled

	Through Mounted	
	Class I, Division 1	
	Groups B, C, D	
	307-680 BTU/hr	
_	NEMA-4/4X	

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

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

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

AHP-1200CXP

European

Air Cooled

Through Mounted Group II, Catagory 2 [1] G EExd p d [ia] ia IIB+H2 T4

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

Hazardous Location

Air Conditioner

LISTING & CLASSIFICATION:

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.

Directive 94/9/EC with reference to EN50014:1997/A2:1999, EN50016:2002.

Procedure XF011, XF013

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Group II, Category 2 [1] G EEx p d [ia] ia IIB+H2 T4 Ta=-20 °C to +40 °C

Air Conditioner - Air Cooled

AHP-1200CXP

Through Mounted Group II, Catagory 2 [1] G EEx p d [ia] ia IIB+H2 T4 307-680 BTU/hr

MODEL	PART NUMBER	NOTES	PERFORMANCE RATING (BTU/HR)	VOLTAGE (VAC 50/60 HZ)	CURRENT AMPS.	WEIGHT LBS.(KG)	TEMP. CONTROL	OPERATING AMBIENT (°C)
AHP-1200CXP	0-3070-2-018	Cool Only	307-680	120	4.0	39(17.7)	EXT*	-20/+40

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

DIMENSIONS



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

Air Conditioner/Heat Exchanger **AHP-690**

Air Cooled Through Mounted Nema-12, 4, 4X 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 ٠
- No compressor, fluorocarbons or filters ٠
- Virtually maintenance-free operation
- Stainless steel exterior housing •
- Efficient heat exchanger mode (ECO-Mode) •
- Easy to use Pivot Clean feature ٠
- Weight 15 LBS. ٠

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	14 AMPS
Current, ECO-Mode	0.5 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	
Juling (naununai)	407 DIU/HK
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

MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-690	0-M0J5-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-690HC	0-M095-1-000	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
AHP-690HC	0-M0I5-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-690XE	0-M0J5-4-000	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
AHP-690XEHC	0-M095-5-000	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
AHP-690XEHC	0-M0I5-5-000	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
AHP-690X	0-M0J5-2-000	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
AHP-690XHC	0-M095-3-000	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
AHP-690XHC	0-M0I5-3-000	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56
AHP-690XM	0-M0J5-2-001	Cool only, Mil. grade fans	TC-4F	NEMA-4X, IP 56
AHP-690XMHC	0-M095-3-001	Heat/Cool, Mil. grade fans	None*	NEMA-4X, IP 56
AHP-690XMHC	0-M0I5-3-001	Heat/Cool, Mil. grade fans	TC-7F	NEMA-4X, IP 56

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

TECA

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INCLUDES

- Temperature controller ٠
- · Mounting gasket
- · Mounting hardware
- · Power input leads
- Power saving heat exchanger mode (ECO-Mode)





	Air	Conditioner	- Air	Cooled
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AHP-690

Temperature Differential

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 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

 570 BTU/hr @ +20 °F ΔT

 137 Watts L35 L35

101 Watts L35 L50

Air Flow Pattern

MOUNTING CUTOUT DIMENSIONS

DIMENSIONS



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

Air Conditioner/Heat Exchanger AHP-690

Air Cooled Through Mounted

48 VDC 467 BTU/HR

Nema-12, 4, 4X

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	48 VDC
Current, Active	7 AMPS
Current, ECO-Mode	0.25 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	167 RTU/HR
cooling (nautional)	407 DT0/TIN
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

0-M0I6-3-001

CONFIGURATIONS



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

Heat/Cool, Mil. grade fans



AHP-690XMHC

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NEMA-4X, IP 56



INCLUDES

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



TC-7F



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

 RATING (DIN 3168)

 137 Watts
 L35 L35

 101 Watts
 L35 L50



Air Flow Pattern

MOUNTING CUTOUT DIMENSIONS

DIMENSIONS



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



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.

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	6.9 AMPS
Current, ECO-Mode	0.3 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	460 BTU/HR
Cooling (Din 3168)	137 WATTS
Cooling COP (at L35 L35)	0.85
Heating (Traditional)	> 562 BTU/HR
Heating (Din 3168)	> 165 WATTS
Heating COP	> 1.0

CONFIGURATIONS



INCLUDES

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



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

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

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www.thermoelectric.com

TECA



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 ΔT

 593 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

AHP-590	137	vvatts	L35 L35
	75	Watts	L35 L50



Air Flow Pattern

DIMENSIONS



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



AHP-590 Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 48 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.

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	48 VDC
Current, Active	3.5 AMPS
Current, ECO-Mode	0.15 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	460 BTU/HR
Cooling (Din 3168)	137 WATTS
Cooling COP (at L35 L35)	0.85
Heating (Traditional)	> 562 BTU/HR
Heating (Din 3168)	> 165 WATTS
Heating COP	> 1.0

CONFIGURATIONS



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-590	0-G0J6-0-001	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-590HC	0-G096-1-001	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
AHP-590HC	0-G0I6-1-001	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-590XE	0-G0J6-4-001	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
AHP-590XEHC	0-G096-5-001	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
AHP-590XEHC	0-G0I6-5-001	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
AHP-590X	0-G0J6-2-001	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
AHP-590XHC	0-G096-3-001	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
AHP-590XHC	0-G0I6-3-001	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56
AHP-590XM	0-G0J6-2-011	Cool only, Mil. grade fans	TC-4F	NEMA-4X, IP 56
AHP-590XMHC	0-G096-3-011	Heat/Cool, Mil. grade fans	None*	NEMA-4X, IP 56
AHP-590XMHC	0-G0I6-3-011	Heat/Cool, Mil. grade fans	TC-7F	NEMA-4X, IP 56

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

TECA

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Air Conditioner - A	Air Cooled
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AHP-590

 MOUNTING STYLE

 Through Mounted

 ENVIRONMENTS SERVED

 NEMA-12
 IP 52

 NEMA-4,4X
 IP 56

 RATING (TRADITIONAL)

 460 BTU/hr @ 0 °F ΔT

 RATING (DIN 3168)

 137 Watts L35 L35

 75 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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

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AHP-570 Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 24 VDC High Efficiency 305 BTU/HR

- 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

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INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-570	0-G0J5-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-570HC	0-G095-1-000	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
AHP-570HC	0-G0I5-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-570XE	0-G0J5-4-000	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
AHP-570XEHC	0-G095-5-000	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
AHP-570XEHC	0-G0I5-5-000	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
AHP-570X	0-G0J5-2-000	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
AHP-570XHC	0-G095-3-000	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
AHP-570XHC	0-G0I5-3-000	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56
AHP-570XM	0-G0J5-2-010	Cool only, Mil. grade fans	TC-4F	NEMA-4X, IP 56
AHP-570XMHC	0-G095-3-010	Heat/Cool, Mil. grade fans	None*	NEMA-4X, IP 56
AHP-570XMHC	0-G0I5-3-010	Heat/Cool, Mil. grade fans	TC-7F	NEMA-4X, IP 56

* For controller options contact TECA; Heating function via reverse polarity (controller dependent) | TECA 1-888-TECA-USA (832-2872)



_	Air Conditioner - Air Cooled			
	AHP-570			
	MOUNTING STYLE			
_	Through Mounted			
	ENVIRONMENTS SERVED			
	NEMA-12 IP 52			
_	NEMA-4,4X IP 56			
	RATING (TRADITIONAL)			
	AHP-570 305 BTU/hr @ 0 °F Δ T			
	432 BTU/hr @ +20 °F Δ	Γ		
	RATING (DIN 3168)			
	AHP-570 90 Watts L35 L35			
	40 Watts L35 L50			



Air Flow Pattern



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

DIMENSIONS

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AHP-451 Air Conditioner

Air Cooled Through Mounted Nema-12 120 VAC or 240 VAC 340 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
- 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

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• Weight 16 LBS.

CONTROL TEMPERATURES

Active Cooling (TC-TF, TC-3F)	35 °C
Active Heating (TC-3F)	10 °C
Typical Hysteresis	5 °C
Operating Ambient	-40/+70 °C
Operating Enclosure	-10/+60 °C

POWER INPUTS

Voltage	120 or 240 VAC
Current, Active	1.3 / 0.71 AMPS



PERFORMANCE RATINGS	
Cooling (Traditional)	342 BTU/HR
Cooling (Din 3168)	102 WATTS
Cooling COP (at L35 L35)	0.65

INCLUDES

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

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

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

www.thermoelectric.com

CONFIGURATIONS



Air Conditioner - Air Cooled

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

Air Flow Pattern

DIMENSIONS



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

Air Conditioner

Air Cooled Through Mounted Nema-12

AHP-401

120 VAC or 240 VAC 220 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
- 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

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

POWER INPUTS

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



PERFORMANCE RATINGS	
Cooling (Traditional)	220 BTU/HR
Cooling (Din 3168)	65 WATTS
Cooling COP (at L35 L35)	0.45

INCLUDES

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

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

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

www.thermoelectric.com

CONFIGURATIONS



Air Conditioner - Air Cooled

AHP-401

MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

RATING (TRADITIONAL)

220 BTU/hr @ 0 °F ΔT 275 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

65 Watts L35 L35 45 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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

AHP-470 Air Conditioner/Heat Exchanger

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

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	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)	056
Heating (Traditional)	> 572 BTU/HR
Heating (Din 3168)	> 168 WATTS
Heating COP	> 1.0

CONFIGURATIONS

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INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	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-F0I5-1-001	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-F0I5-5-001	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-F0I5-3-001	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-F0I5-3-011	Heat/Cool, Mil. grade fans	TC-7F	NEMA-4X, IP 56

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

1-888-TECA-USA (832-2872)



Air Conditioner - Air Cooled

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 ΔT

 405 BTU/hr @ +20 °F ΔT

 RATING (DIN 3168)

 AHP-470
 95 Watts L35 L35

 62 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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



AHP-450 Air Conditioner/Heat Exchanger

Air Cooled Through Mounted Nema-12, 4, 4X 24 VDC High Efficiency 210 BTU/HR

- 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

FEATURES

- 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	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

CONFIGURATIONS

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INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-450	0-F0J5-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-450HC	0-F095-1-000	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
AHP-450HC	0-F0I5-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-450XE	0-F0J5-4-000	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
AHP-450XEHC	0-F095-5-000	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
AHP-450XEHC	0-F0I5-5-000	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
AHP-450X	0-F0J5-2-000	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
AHP-450XHC	0-F095-3-000	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
AHP-450XHC	0-F0I5-3-000	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56
AHP-450XM	0-F0J5-2-010	Cool only, Mil. grade fans	TC-4F	NEMA-4X, IP 56
AHP-450XMHC	0-F095-3-010	Heat/Cool, Mil. grade fans	None*	NEMA-4X, IP 56
AHP-450XMHC	0-F0I5-3-010	Heat/Cool, Mil. grade fans	TC-7F	NEMA-4X, IP 56

* For controller options contact TECA; Heating function via reverse polarity (controller dependent) | TECA 1-888-TECA-USA (832-2872)



Air Conditioner - Air Cooled

AHP-450

 MOUNTING STYLE

 Through Mounted

 ENVIRONMENTS SERVED

 NEMA-12
 IP 52

 NEMA-4,4X
 IP 56

 RATING (TRADITIONAL)

 AHP-450
 210 BTU/hr @ 0 °F ΔT

 297 BTU/hr @ +20 °F ΔT

 297 BTU/hr @ +20 °F ΔT

 AHP-450
 62 Watts L35 L35

 28 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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

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AHP-270 Air Conditioner

Air Cooled Through Mounted Nema-12, 4, 4X 12 VDC, 24 VDC 161 BTU/HR

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 TEMPERA	TURES
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

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						
MODEL	Part Number	NOTES	HEAT Watts	VOLTAGE VDC	CURRENT AMPS	ENVIRONMENT
AHP-270FF	0-L094-1-001	Industrial Fans	100	12	8.3	NEMA-12, IP 52
AHP-270FF	0-L095-1-001	Industrial Fans	100	24	4.1	NEMA-12, IP 52
AHP-270XE	0-L094-5-001	Sealed Hot Side Fan	100	12	8.3	NEMA-4, IP 56
AHP-270XE	0-L095-5-001	Sealed Hot Side Fan	100	24	4.1	NEMA-4, IP 56
AHP-270X	0-L094-3-001	Mil. Grade Hot Side Fan	100	12	8.3	NEMA-4X, IP 56
AHP-270X	0-L095-3-001	Mil. Grade Hot Side Fan	100	24	4.1	NEMA-4X, IP 56

Heat function via reverse polarity (controller dependent)



	Air Conditioner - Air Cooled		
	AHP-270		
	MOUNTING STYLE		
_	Through Mounted		
	ENVIRONMENTS SERVED		
	NEMA-12 IP 52		
_	NEMA-4,4X IP 56		
	RATING (TRADITIONAL)		
	161 BTU/hr @ 0 °F Δ T		
	198 BTU/hr @ +20 °F Δ T		
	RATING (DIN 3168)		
	47 Watts L35 L35		
	35 Watts L35 L50		



Air Flow Pattern

DIMENSIONS



Mounting Surface

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

MOUNTING CUTOUT DIMENSIONS







AHP-250 Air Conditioner

Air Cooled Through Mounted Nema-12, 4, 4X 12 VDC, 24 VDC 129 BTU/HR

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 TEMPERA	TURES
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

MODEL PART NUMBER NOTES HEAT VOLTAGE CURRENT ENVIRONMENT	
Watts VDC AMPS	
AHP-250FF 0-L094-1-000 Industrial Fans 100 12 6 NEMA-12, IP 5	
AHP-250FF 0-L095-1-000 Industrial Fans 100 24 3 NEMA-12, IP 5	ļ
AHP-250XE 0-L094-5-000 Sealed Hot Side Fan 100 12 6 NEMA-4, IP 56	
AHP-250XE 0-L095-5-000 Sealed Hot Side Fan 100 24 3 NEMA-4, IP 56	
AHP-250X 0-L094-3-000 Mil. Grade Hot Side Fan 100 12 6 NEMA-4X, IP 5	5
AHP-250X 0-L095-3-000 Mil. Grade Hot Side Fan 100 24 3 NEMA-4X, IP 5	5

Heat function via reverse polarity (controller dependent)



Air Conditioner - Air	Cooled
AHP-250	
MOUNTING STYLE	
Through Mo	ounted
ENVIRONMENTS SERV	VED
NEMA-12	IP 52
NEMA-4,4X	IP 56
RATING (TRADITIONA	L)
129 BTU/hr	@ 0 °F ΔT
162 BTU/hr (@ +20 °F ΔT

38 Watts L35 L35

28 Watts L35 L50

RATING (DIN 3168)

Air Flow Pattern

DIMENSIONS





MOUNTING CUTOUT DIMENSIONS

2.02 [51]

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

2.38 [61] - -2.38 [61]

4

0



IHP-2259 Air Conditioner/Heat Exchanger

Air Cooled Internal Mounted Nema-12, 4

100 - 240 VAC Universal Input High Efficiency 1040 BTU/HR

FEATURES

- High efficiency thermoelectric design ٠
- Power saving air to air heat exchanger mode (ECO-Mode) •
- Heavy duty full perimeter mounting
- Easy installation from exterior of the enclosure
- Closed loop design
- Condensate control and evaporation system ٠
- Increased efficiency at higher ambients by as much as 10% ٠
- Virtually maintenance free ٠
- No compressor
- Environmentally friendly and safe •
- Stainless Steel exterior housing
- Mounts flush with no protrusion outside of the enclosure ٠
- Integral or remote temperature controller •
- Weight 66 LBS.

CONTROL TEMPERATURES

35 °C
25 °C
10 °C
5 °C
-40/+65 °C
-10/+60 °C

POWER INPUTS

Input Voltage	100 - 240 VAC
Current, Active	5.0 - 2.1 AMPS
Alternate Input voltage	127 - 374 VDC
Current , ECO-Mode (120 VAC)	1 AMP
Frequency	47 - 63 / 440 Hz
Nominal Power Consumption	500 Watts

PERFORMANCE RATINGS

Cooling (Traditional)	1040 BTU/HR
Cooling (Din 3168)	305 WATTS
Cooling COP (at L35 L35)	0.6
Heating (Traditional)	> 1530 BTU/HR
Heating (Din 3168)	> 450 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C



INCLUDES • Power supply

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



200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATI	ONS				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	
IHP-2259	B-H4JB-0-100	Cool only, industrial fans	TC-4F	NEMA-12, IP 52	
IHP-2259	B-H45B-0-100	Cool only, industrial fans	EXT*	NEMA-12, IP 52	
IHP-2259HC	B-H4IB-1-100	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52	
IHP-2259HC	B-H45B-1-100	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52	
IHP-2259XE	B-H4JB-4-100	Cool only, sealed hot side fans	TC-4F	NEMA-4, IP 56	
IHP-2259XE	B-H45B-4-100	Cool only, sealed hot side fans	EXT*	NEMA-4, IP 56	
IHP-2259XEHC	B-H4IB-5-100	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4, IP 56	
IHP-2259XEHC	B-H45B-5-100	Heat/Cool, sealed hot side fans	EXT*	NEMA-4, IP 56	

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



Equation of line: y=ΔT(°C) x=Capacity (Watts)			
Ambient Temp	35°C	50°C	
Enclosure Air	y=.062x-18.9	y=.062x-20.2	
Cold Sink	y=.046x-18.9	y=.046x-20.2	

Air Conditioner - Air Cooled IHP-2259 MOUNTING STYLE Internal Mounted ENVIRONMENTS SERVED NEMA-12 IP 52 NEMA-4 IP 56 RATING (TRADITIONAL) 1040 BTU/hr @ 0 °F ΔT RATING (DIN 3168) 305 Watts L35 L35 84 Watts L35 L50



Air Flow Pattern

DIMENSIONS



Dimensions: Inches [Millimeters]

MOUNTING CUTOUT DIMENSIONS

Internal Mount Air Conditioner/Heat Exchanger

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

IHP-690

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

392 BTU/HR 115 WATTS 0.44 > 900 BTU/HR > 264 WATTS > 1.0

PERFORMANCE RATINGS

Cooling (Traditional)	
Cooling (Din 3168)	
Cooling COP (at L35 L35)	
Heating (Traditional)	
Heating (Din 3168)	
Heating COP	

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)



Air Conditioner - Air Cooled

IHP-690

MOUNTING STYLE

Internal Mounted

ENVIRO	NMENTS SER	VED
	NEMA-12	IP 52
	NEMA-4	IP 56
RATING	(TRADITIONA	AL)
	392 BTU/hr	@ 0 °F Δ T
	511 BTU/hr	@ +20 °F ΔT
RATING	(DIN 3168)	
	115 Watts	L35 L35

75 Watts L35 L50



Air Flow Pattern

SPECIFICATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-690	B-M0J5-0-000	Cool only, industrial fans	А	TC-4F	NEMA-12, IP 52
IHP-690HC	B-M095-1-000	Heat/Cool, industrial fans	А	None*	NEMA-12, IP 52
IHP-690HC	B-M0I5-1-000	Heat/Cool, industrial fans	А	TC-7F	NEMA-12, IP 52
IHP-690XE	B-M0J5-4-000	Cool only, sealed hot side fan	А	TC-4F	NEMA-4, IP 56
IHP-690XEHC	B-M095-5-000	Heat/Cool, sealed hot side fan	А	None*	NEMA-4, IP 56
IHP-690XEHC	B-M0I5-5-000	Heat/Cool, sealed hot side fan	А	TC-7F	NEMA-4, IP 56
IHP-690	B-M0J5-0-100	Cool only, industrial fans	В	TC-4F	NEMA-12, IP 52
IHP-690HC	B-M095-1-100	Heat/Cool, industrial fans	В	None*	NEMA-12, IP 52
IHP-690HC	B-M0I5-1-100	Heat/Cool, industrial fans	В	TC-7F	NEMA-12, IP 52
IHP-690XE	B-M0J5-4-100	Cool only, sealed hot side fan	В	TC-4F	NEMA-4, IP 56
IHP-690XEHC	B-M095-5-100	Heat/Cool, sealed hot side fan	В	None*	NEMA-4, IP 56
IHP-690XEHC	B-M0I5-5-100	Heat/Cool, sealed hot side fan	В	TC-7F	NEMA-4, IP 56

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

IHP-690

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]

Internal Mount IHP-590 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

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	6.9 AMPS
Current, ECO-Mode	0.3 AMPS

315 BTU/HR 92 WATTS 0.56 > 562 BTU/HR > 165 WATTS > 1.0

PERFORMANCE RATINGS

Cooling	(Traditional)
Cooling	(Din 3168)
Cooling	COP (at L35 L35)
Heating	(Traditional)
Heating	(Din 3168)
Heating	COP

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)



Air Conditioner - Air Cooled
IHP-590
MOUNTING STYLE
Internal Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4,4X IP 56
RATING (TRADITIONAL)
315 BTU/hr @ 0 °F Δ T
479 BTU/hr @ +20 °F ΔT
RATING (DIN 3168)
92 Watts L35 L35
32 Watts L35 L50

Air Flow Pattern

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-590	B-G0J5-0-001	Cool only, industrial fans	А	TC-4F	NEMA-12, IP 52
IHP-590HC	B-G095-1-001	Heat/Cool, industrial fans	А	None*	NEMA-12, IP 52
IHP-590HC	B-G0I5-1-001	Heat/Cool, industrial fans	А	TC-7F	NEMA-12, IP 52
IHP-590XE	B-G0J5-4-001	Cool only, sealed hot side fan	А	TC-4F	NEMA-4, IP 56
IHP-590XEHC	B-G095-5-001	Heat/Cool, sealed hot side fan	А	None*	NEMA-4, IP 56
IHP-590XEHC	B-G0I5-5-001	Heat/Cool, sealed hot side fan	А	TC-7F	NEMA-4, IP 56
IHP-590X	B-G0J5-2-001	Cool only, Mil. grade hot side fan	А	TC-4F	NEMA-4X, IP 56
IHP-590XHC	B-G095-3-001	Heat/Cool, Mil. grade hot side fan	А	None*	NEMA-4X, IP 56
IHP-590XHC	B-G0I5-3-001	Heat/Cool, Mil. grade hot side fan	А	TC-7F	NEMA-4X, IP 56
IHP-590	B-G0J5-0-101	Cool only, industrial fans	В	TC-4F	NEMA-12, IP 52
IHP-590HC	B-G095-1-101	Heat/Cool, industrial fans	В	None*	NEMA-12, IP 52
IHP-590HC	B-G0I5-1-101	Heat/Cool, industrial fans	В	TC-7F	NEMA-12, IP 52
IHP-590XE	B-G0J5-4-101	Cool only, sealed hot side fan	В	TC-4F	NEMA-4, IP 56
IHP-590XEHC	B-G095-5-101	Heat/Cool, sealed hot side fan	В	None*	NEMA-4, IP 56
IHP-590XEHC	B-G0I5-5-101	Heat/Cool, sealed hot side fan	В	TC-7F	NEMA-4, IP 56
IHP-590X	B-G0J5-2-101	Cool only, Mil. grade hot side fan	В	TC-4F	NEMA-4X, IP 56
IHP-590XHC	B-G095-3-101	Heat/Cool, Mil. grade hot side fan	В	None*	NEMA-4X, IP 56
IHP-590XHC	B-G0I5-3-101	Heat/Cool, Mil. grade hot side fan	В	TC-7F	NEMA-4X, IP 56

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

IHP-590

DIMENSIONS (Style A: Installs from inside of the enclosure)



Dimensions do not include hardware Mounting hardware and gasket included but not shown Diemnsions: 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]



Internal Mount IHP-570 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

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

240 BTU/HR 70 WATTS 0.97 > 245 BTU/HR > 72 WATTS > 1.0

PERFORMANCE RATINGS

Cooling	(Traditional)
Cooling	(Din 3168)
Cooling	COP (at L35 L35)
Heating	(Traditional)
Heating	(Din 3168)
Heating	COP

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 Lin	e: y= Δ T(°C) x=0	Capacity (Watts)
Ambient Temp	35°C	50°C
IHP-570	y=.29x-20.1	y=.29x-21.3

|--|

IHP-570

MOUNTING STYLE

Internal Mounted

ENVIRONMENTS SERVED					
NEMA-12	IP 52				
NEMA-4,4X	IP 56				
RATING (TRADITIONAL)					

240 BTU/hr @ 0 °F ΔT 367 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

70 Watts L35 L35 22 Watts L35 L50



Air Flow Pattern

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-570	B-G0J5-0-000	Cool only, industrial fans	А	TC-4F	NEMA-12, IP 52
IHP-570HC	B-G095-1-000	Heat/Cool, industrial fans	А	None*	NEMA-12, IP 52
IHP-570HC	B-G0I5-1-000	Heat/Cool, industrial fans	А	TC-7F	NEMA-12, IP 52
IHP-570XE	B-G0J5-4-000	Cool only, sealed hot side fan	А	TC-4F	NEMA-4, IP 56
IHP-570XEHC	B-G095-5-000	Heat/Cool, sealed hot side fan	А	None*	NEMA-4, IP 56
IHP-570XEHC	B-G0I5-5-000	Heat/Cool, sealed hot side fan	А	TC-7F	NEMA-4, IP 56
IHP-570X	B-G0J5-2-000	Cool only, Mil. grade hot side fan	А	TC-4F	NEMA-4X, IP 56
IHP-570XHC	B-G095-3-000	Heat/Cool, Mil. grade hot side fan	А	None*	NEMA-4X, IP 56
IHP-570XHC	B-G0I5-3-000	Heat/Cool, Mil. grade hot side fan	А	TC-7F	NEMA-4X, IP 56
IHP-570	B-G0J5-0-100	Cool only, industrial fans	В	TC-4F	NEMA-12, IP 52
IHP-570HC	B-G095-1-100	Heat/Cool, industrial fans	В	None*	NEMA-12, IP 52
IHP-570HC	B-G0I5-1-100	Heat/Cool, industrial fans	В	TC-7F	NEMA-12, IP 52
IHP-570XE	B-G0J5-4-100	Cool only, sealed hot side fan	В	TC-4F	NEMA-4, IP 56
IHP-570XEHC	B-G095-5-100	Heat/Cool, sealed hot side fan	В	None*	NEMA-4, IP 56
IHP-570XEHC	B-G0I5-5-100	Heat/Cool, sealed hot side fan	В	TC-7F	NEMA-4, IP 56
IHP-570X	B-G0J5-2-100	Cool only, Mil. grade hot side fan	В	TC-4F	NEMA-4X, IP 56
IHP-570XHC	B-G095-3-100	Heat/Cool, Mil. grade hot side fan	В	None*	NEMA-4X, IP 56
IHP-570XHC	B-G0I5-3-100	Heat/Cool, Mil. grade hot side fan	В	TC-7F	NEMA-4X, IP 56

* For controller options contact TECA; Heating function via reverse polarity (controller dependent)
IHP-570

DIMENSIONS (Style A: Installs from inside of the enclosure)



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

DIMENSIONS (Style A: Installs from outside of the enclosure)



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

Internal Mount IHP-470 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

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	7.0 AMPS
Current, ECO-Mode	0.3 AMPS

PERFORMANCE RATINGS

Cooling (Traditional) Cooling (Din 3168) Cooling COP (at L35 L35) Heating (Traditional) Heating (Din 3168) Heating COP

228 BTU/HR 67 WATTS 0.40 > 572 BTU/HR > 168 WATTS > 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)

www.thermoelectric.com

1-888-TECA-USA (832-2872)

PERFORMANCE CURVE



Equation of Line:	$y=\Delta T(^{\circ}C)$	x=Capacity (Watts)
Ambient Temp	35°C	50°C
IHP-470	y=.44x-29.0	б y=.44x-30.8

IHP-470

MOUNTING STYLE

Internal Mounted

ENVIRONMENTS SERVED					
	NEMA-12	IP 52			
	NEMA-4,4X	IP 56			
RATING (TRADITIONAL)					
	228 BTU/hr	@ 0 °F Δ T			

315 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

67 Watts L35 L35 36 Watts L35 L50



Air Flow Pattern

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-470	B-F0J5-0-001	Cool only, industrial fans	А	TC-4F	NEMA-12, IP 52
IHP-470HC	B-F095-1-001	Heat/Cool, industrial fans	А	None*	NEMA-12, IP 52
IHP-470HC	B-F0I5-1-001	Heat/Cool, industrial fans	А	TC-7F	NEMA-12, IP 52
IHP-470XE	B-F0J5-4-001	Cool only, sealed hot side fan	А	TC-4F	NEMA-4, IP 56
IHP-470XEHC	B-F095-5-001	Heat/Cool, sealed hot side fan	А	None*	NEMA-4, IP 56
IHP-470XEHC	B-F0I5-5-001	Heat/Cool, sealed hot side fan	А	TC-7F	NEMA-4, IP 56
IHP-470X	B-F0J5-2-001	Cool only, Mil. grade hot side fan	А	TC-4F	NEMA-4X, IP 56
IHP-470XHC	B-F095-3-001	Heat/Cool, Mil. grade hot side fan	А	None*	NEMA-4X, IP 56
IHP-470XHC	B-F0I5-3-001	Heat/Cool, Mil. grade hot side fan	А	TC-7F	NEMA-4X, IP 56
IHP-470	B-F0J5-0-101	Cool only, industrial fans	В	TC-4F	NEMA-12, IP 52
IHP-470HC	B-F095-1-101	Heat/Cool, industrial fans	В	None*	NEMA-12, IP 5
IHP-470HC	B-F0I5-1-101	Heat/Cool, industrial fans	В	TC-7F	NEMA-12, IP 52
IHP-470XE	B-F0J5-4-101	Cool only, sealed hot side fan	В	TC-4F	NEMA-4, IP 56
IHP-470XEHC	B-F095-5-101	Heat/Cool, sealed hot side fan	В	None*	NEMA-4, IP 56
IHP-470XEHC	B-F0I5-5-101	Heat/Cool, sealed hot side fan	В	TC-7F	NEMA-4, IP 56
IHP-470X	B-F0J5-2-101	Cool only, Mil. grade hot side fan	В	TC-4F	NEMA-4X, IP 56
IHP-470XHC	B-F095-3-101	Heat/Cool, Mil. grade hot side fan	В	None*	NEMA-4X, IP 56
IHP-470XHC	B-F0I5-3-101	Heat/Cool, Mil. grade hot side fan	В	TC-7F	NEMA-4X, IP 56

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

IHP-470

DIMENSIONS (Style A: Installs from inside of the enclosure)



Dimensions do not include hardware Mounting hardware and gasket included but not shown Diemnsions: 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]



Internal Mount IHP-450 Air Conditioner/Heat Exchanger

n Int E M

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

24 VDC High Efficiency 157 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

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

157 BTU/HR 46 WATTS 0.83 > 188 BTU/HR > 55 WATTS > 1.0

PERFORMANCE RATINGS

Cooling (Traditional)	
Cooling (Din 3168)	
Cooling COP (at L35 L	35)
Heating (Traditional)	
Heating (Din 3168)	
Heating COP	

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



Air	Conditioner	- Air	Cooled	

IHP-450

MOUNTING STYLE

Internal Mounted

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

RATING (TRADITIONAL)

157 BTU/hr @ 0 °F ΔT 243 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

46 Watts L35 L35 14 Watts L35 L50



Air Flow Pattern

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-450	B-F0J5-0-000	Cool only, industrial fans	А	TC-4F	NEMA-12, IP 52
IHP-450HC	B-F095-1-000	Heat/Cool, industrial fans	А	None*	NEMA-12, IP 52
IHP-450HC	B-F0I5-1-000	Heat/Cool, industrial fans	А	TC-7F	NEMA-12, IP 52
IHP-450XE	B-F0J5-4-000	Cool only, sealed hot side fan	А	TC-4F	NEMA-4, IP 56
IHP-450XEHC	B-F095-5-000	Heat/Cool, sealed hot side fan	А	None*	NEMA-4, IP 56
IHP-450XEHC	B-F0I5-5-000	Heat/Cool, sealed hot side fan	А	TC-7F	NEMA-4, IP 56
IHP-450X	B-F0J5-2-000	Cool only, Mil. grade hot side fan	А	TC-4F	NEMA-4X, IP 56
IHP-450XHC	B-F095-3-000	Heat/Cool, Mil. grade hot side fan	А	None*	NEMA-4X, IP 56
IHP-450XHC	B-F0I5-3-000	Heat/Cool, Mil. grade hot side fan	А	TC-7F	NEMA-4X, IP 56
IHP-450	B-F0J5-0-100	Cool only, industrial fans	В	TC-4F	NEMA-12, IP 52
IHP-450HC	B-F095-1-100	Heat/Cool, industrial fans	В	None*	NEMA-12, IP 52
IHP-450HC	B-F0I5-1-100	Heat/Cool, industrial fans	В	TC-7F	NEMA-12, IP 52
IHP-450XE	B-F0J5-4-100	Cool only, sealed hot side fan	В	TC-4F	NEMA-4, IP 56
IHP-450XEHC	B-F095-5-100	Heat/Cool, sealed hot side fan	В	None*	NEMA-4, IP 56
IHP-450XEHC	B-F0I5-5-100	Heat/Cool, sealed hot side fan	В	TC-7F	NEMA-4, IP 56
IHP-450X	B-F0J5-2-100	Cool only, Mil. grade hot side fan	В	TC-4F	NEMA-4X, IP 56
IHP-450XHC	B-F095-3-100	Heat/Cool, Mil. grade hot side fan	В	None*	NEMA-4X, IP 56
IHP-450XHC	B-F0I5-3-100	Heat/Cool, Mil. grade hot side fan	В	TC-7F	NEMA-4X, IP 56

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

IHP-450

DIMENSIONS (Style A: Installs from inside of the enclosure)



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

DIMENSIONS (Style A: Installs from outside of the enclosure)



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



Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 3 Phase, 240 VAC, 3 Wire Delta High Capacity 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
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- 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	11 AMPS
Current, ECO-Mode	1.5 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

CONFIGURATIONS

Cooling (Traditional)	4970 BTU/HR
Cooling (Din 3168)	1458 WATTS
Cooling COP (at L35 L35)	0.32
Heating (Traditional)	> 15000 BTU/HR
Heating (Din 3168)	> 4570 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-mode)	45 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

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-6263	7-K5JD-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-6263	7-K55D-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6263HC	7-K5ID-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-6263HC	7-K55D-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6263XE	7-K5JD-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-6263XE	7-K55D-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6263XEHC	7-K5ID-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-6263XEHC	7-K55D-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6263X	7-K5JD-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-6263X	7-K55D-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-6263XHC	7-K5ID-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-6263XHC	7-K55D-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA



Air Conditioner - Air Cooled

DIMENSIONS



www.thermoelectric.com

1-888-TECA-USA (832-2872)

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 ambients by as much as 10%
- · Virtually maintenance free
- No compressor
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- · Integral temperature controller
- Weight 180 LBS.

CONTROL TEMPERATURES

35 °C 25 °C 10 °C 5 °C -40/+65 °C -10/+60 °C
-10/+00 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)	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

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

CONFIGURAT	TONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-6253	7-K4JD-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-6253	7-K45D-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6253HC	7-K4ID-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-6253HC	7-K45D-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6253XE	7-K4JD-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-6253XE	7-K45D-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6253XEHC	7-K4ID-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-6253XEHC	7-K45D-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6253X	7-K4JD-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-6253X	7-K45D-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-6253XHC	7-K4ID-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-6253XHC	7-K45D-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA



DIMENSIONS



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
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- 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	240 VAC
Current, Active	9.2 AMPS
Current, ECO-Mode	1.5 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	4480 BTU/HR
Cooling (Din 3168)	1315 WATTS
Cooling COP (at L35 L35)	0.60
Heating (Traditional)	> 7365 BTU/HR
Heating (Din 3168)	> 2160 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-mode)	45 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

CONFIGURA				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-6252	7-K4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-6252	7-K452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6252HC	7-K4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-6252HC	7-K452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6252XE	7-K4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-6252XE	7-K452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6252XEHC	7-K4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-6252XEHC	7-K452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6252X	7-K4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-6252X	7-K452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-6252XHC	7-K4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-6252XHC	7-K452-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA



DIMENSIONS



www.thermoelectric.com

1-888-TECA-USA (832-2872)

Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 120 VAC Input High Capacity 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
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- · Integral temperature controller
- Weight 170 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

PERFORMANCE RATINGS

Cooling (Traditional)	3820 BTU/HR
Cooling (Din 3168)	1120 WATTS
Cooling COP (at L35 L35)	0.67
Heating (Traditional)	> 5524 BTU/HR
Heating (Din 3168)	> 1620 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-mode)	45 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

CONFIGURATIONS				
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-6250	7-K4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-6250	7-K450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6250HC	7-K4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-6250HC	7-K450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-6250XE	7-K4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-6250XE	7-K450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6250XEHC	7-K4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-6250XEHC	7-K450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-6250X	7-K4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-6250X	7-K450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-6250XHC	7-K4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-6250XHC	7-K450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



DIMENSIONS



www.thermoelectric.com

1-888-TECA-USA (832-2872)

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
- · Environmentaly 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	240 VAC
Current, Active Current, ECO-Mode	12.5 AMPS 0.9 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

CONFIGURATIONS

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

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

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-4252	7-J5J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-4252	7-J552-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4252HC	7-J5I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-4252HC	7-J552-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4252XE	7-J5J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-4252XE	7-J552-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-4252XEHC	7-J5I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-4252XEHC	7-J552-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-4252X	7-J5J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-4252X	7-J552-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-4252XHC	7-J5I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-4252XHC	7-J552-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



Air Flow Pattern

-12.10 [307]-

DIMENSIONS



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



Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 240 VAC Input High Efficiency 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
- · Environmentaly 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	240 VAC
Current, Active	4.0 AMPS
Current, ECO-Mode	0.9 AMP
Frequency	50/60 Hz
PERFORMANCE RATINGS	
Cooling (Traditional)	2615 BTU/HR
Cooling (Din 3168)	767 WATTS

Cooling (Din 3168)	767 WAITS
Cooling COP (at L35 L35)	0.80
Heating (Traditional)	> 3270 BTU/HR
Heating (Din 3168)	> 960 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

CONFIGURATIONS				
MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-4252	7-J4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-4252	7-J452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4252HC	7-J4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-4252HC	7-J452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4252XE	7-J4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-4252XE	7-J452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-4252XEHC	7-J4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-4252XEHC	7-J452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-4252X	7-J4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-4252X	7-J452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-4252XHC	7-J4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-4252XHC	7-J452-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



y=.027x-26.8



DIMENSIONS



y=.027x-27.5

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

Cold Sink



Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 2408 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
- · Environmentaly 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 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	2408 BTU/HR
Cooling (Din 3168)	706 WATTS
Cooling (OP (at 135135)	0.98
Heating (Traditional)	> 2455 BTU/HR
Heating (Din 3168)	> 720 WATTS
Heating COP	> 10
Heat Exchanger (ECO-Mode)	30 W/°C

- 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

CONFIGURA				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-4250	7-J4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-4250	7-J450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4250HC	7-J4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-4250HC	7-J450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4250XE	7-J4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-4250XE	7-J450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-4250XEHC	7-J4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-4250XEHC	7-J450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-4250X	7-J4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-4250X	7-J450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-4250XHC	7-J4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-4250XHC	7-J450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA



y=.026x-24



Air Conditioner - Air Cooled

DIMENSIONS



y=.026x-25

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

Cold Sink

Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 3 Phase, 240 VAC, 3 Wire Delta High Capacity 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
- · Environmentaly friendly and safe
- · Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- · Weight 93 LBS.

Current , ECO-Mode

CONFICUENTIONS

Frequency

CONTROL TEMPERATURES

Active Cooling	35 ℃
Heat Exchanger (ECO-Mode)	25 ℃
Active Heating	10 ℃
Typical Hysteresis	5 ℃
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

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

0.70 AMP

50/60 Hz

INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-3253	7-I4JD-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-3253	7-I45D-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3253HC	7-I4ID-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-3253HC	7-I45D-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3253XE	7-I4JD-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-3253XE	7-I45D-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3253XEHC	7-I4ID-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-3253XEHC	7-I45D-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3253X	7-I4JD-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-3253X	7-I45D-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-3253XHC	7-I4ID-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-3253XHC	7-I45D-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



Air Flow Pattern

9.10 [231]

Air Conditioner - Air Cooled

DIMENSIONS



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

Air Conditioner/Heat Exchanger

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

3 Phase, 208 VAC, 4 Wire Wye High Capacity 2235 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
- · Environmentaly 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 Wye	208 VAC
Current, Active (per phase)	2.6 AMPS
Current, ECO-Mode	0.70 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	2235 BTU/HR
Cooling (Din 3168)	655 WATTS
Cooling COP (at L35 L35)	0.61
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



CONFIGURATIONS				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-3254	7-I4JE-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-3254	7-I45E-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3254HC	7-I4IE-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-3254HC	7-I45E-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3254XE	7-I4JE-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-3254XE	7-I45E-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3254XEHC	7-I4IE-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-3254XEHC	7-I45E-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3254X	7-I4JE-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-3254X	7-I45E-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-3254XHC	7-I4IE-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-3254XHC	7-I45E-3-000	Heat/Cool Mil grade hot side fans & power supply	EXT*	NEMA-4X IP 56

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

TECA



Air Flow

9.10 [231]

Air Conditioner - Air Cooled

DIMENSIONS



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

Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 240 VAC Input High Capacity 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
- · Environmentaly 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)	
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

NOTES



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

TEMPERATURE

ODEL	PART NUMBER

			CONTROL	
FHP-3252	7-I4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-3252	7-I452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3252HC	7-I4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-3252HC	7-I452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3252XE	7-I4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-3252XE	7-I452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3252XEHC	7-I4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-3252XEHC	7-I452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3252X	7-I4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-3252X	7-I452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-3252XHC	7-I4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-3252XHC	7-I452-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA

www.thermoelectric.com

ENVIRONMENT



y=.034x-30.9

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



Air Flow Pattern

DIMENSIONS



y=.034x-32

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

Cold Sink

Mounting Cutout: 17.20X18.90 [437X480]



Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 1978 BTU/HR

- 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
- · Environmentaly 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	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

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

CONFIGURAL	IONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-3250	7-I4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-3250	7-I450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3250HC	7-I4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-3250HC	7-I450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-3250XE	7-I4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-3250XE	7-I450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3250XEHC	7-I4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-3250XEHC	7-I450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-3250X	7-I4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-3250X	7-I450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-3250XHC	7-I4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-3250XHC	7-I450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



Air Conditioner - Air Cooled

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



9.10 [231]

DIMENSIONS



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

www.thermoelectric.com

Mounting Cutout: 17.20X18.90 [437X480]

9.10 [231]

Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 240 VAC Input High Capacity 1875 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

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

240 VAC

6.5 AMPS

0.5 AMP

50/60 Hz

POWER INPUTS

Voltage	
Current, Active	
Current, ECO-Mode	
Frequency	

PERFORMANCE RATINGS

CONFIGURATIONS

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

Power supply

- 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

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-2252	7-H5J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-2252	7-H552-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2252HC	7-H5I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-2252HC	7-H552-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2252XE	7-H5J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-2252XE	7-H552-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2252XEHC	7-H5I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-2252XEHC	7-H552-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2252X	7-H5J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-2252X	7-H552-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-2252XHC	7-H5I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-2252XHC	7-H552-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA

PERFORMANCE CURVE



y=.050x-36.4

Air Conditioner - Air Cooled
FHP-2252
MOUNTING STYLE
Flush Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4,4X IP 56
RATING (TRADITIONAL)
1875 BTU/hr @ 0 °F Δ T
2480 BTU/hr @ +20 °F ΔT
RATING (DIN 3168)
550 Watts L35 L35

355 Watts L35 L50

Air Flow Pattern

DIMENSIONS

Cold Sink



y=.050x-38.5

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

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

35 °C
25 °C
10 °C
5 °C
-40/+65 °C
-10/+60 °C

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

Power supply

· Temperature controller

INCLUDES

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



250 VDC configuration for crane applications available

CONFIGURATIONS				
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-2250	7-H5J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-2250	7-H550-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2250HC	7-H5I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-2250HC	7-H550-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2250XE	7-H5J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-2250XE	7-H550-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2250XEHC	7-H5I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-2250XEHC	7-H550-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2250X	7-H5J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-2250X	7-H550-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-2250XHC	7-H5I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-2250XHC	7-H550-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA

1-888-TECA-USA (832-2872)

PERFORMANCE CURVE



Equation of line: $y = \Delta I(C) x = Capacity (watts)$			
Ambient Temp	35°C	50°C	
Enclosure Air	y=.067x-33.7	y=.067x-34.9	
Cold Sink	y=.051x-33.7	y=.051x-33.7	

FHP-2250
MOUNTING STYLE
Flush Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4,4X IP 56
RATING (TRADITIONAL)
1715 BTU/hr @ 0 °F Δ T
2280 BTU/hr @ +20 °F ΔT
RATING (DIN 3168)
503 Watts L35 L35
275 Watts L35 L50

Air Conditioner - Air Cooled



Air Flow Pattern

DIMENSIONS



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



Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 120 VAC Input High Efficiency 1220 BTU/HR

- 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

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	3.6 AMPS
Current, ECO-Mode	1 AMP
Frequency	50/60 Hz

PERFORMANCE RATINGS

Cooling (Traditional)	1220 BTU/HR
Cooling (Din 3168)	358 WATTS
Cooling COP (at L35 L35)	0.83
leating (Traditional)	> 1640 BTU/HR
leating (Din 3168)	> 480 WATTS
leating COP	> 1.0
leat Exchanger (ECO-Mode)	12.5 W/°C
leat Exchanger (ECO-Mode)	12.5 W/

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

CONFIGURAT	TONS			
MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-2250	7-H4J0-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-2250	7-H450-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2250HC	7-H4I0-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-2250HC	7-H450-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2250XE	7-H4J0-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-2250XE	7-H450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2250XEHC	7-H4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-2250XEHC	7-H450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2250X	7-H4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-2250X	7-H450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-2250XHC	7-H4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-2250XHC	7-H450-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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

TECA


Equation of line, $y = \Delta I(C) = Capacity (watts)$					
	Ambient Temp	35°C	50°C		
	Enclosure Air	y=.069x-24.7	y=.069x-25.4		
	Cold Sink	y=.053x-24.7	y=.053x-25.4		

FHP-2250
MOUNTING STYLE
Flush Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4,4X IP 56
RATING (TRADITIONAL)
1220 BTU/hr @ 0 °F Δ T
1770 BTU/hr @ +20 °F Δ T
RATING (DIN 3168)
358 Watts L35 L35
150 Watts L35 L50

Air Conditioner - Air Cooled



Air Flow Pattern

MOUNTING CUTOUT DIMENSIONS

DIMENSIONS



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 24 VDC Input High Efficiency 1250 BTU/HR

- 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

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

CONFICUENTION

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

PERFORMANCE RATINGS

Cooling (Traditional)	1250 BTU/HR
Cooling (Din 3168)	367 WATTS
Cooling COP (at L35 L35)	1.02
Heating (Traditional)	> 1220 BTU/HR
Heating (Din 3168)	> 367 WATTS
Heating COP	> 1.02
Heat Exchanger (ECO-Mode)	12.5 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

		NOTEC	TEMPERATURE	
MODEL	PART NUMBER	NOTES	CONTROL	ENVIRONMENT
FHP-2250	7-H4J5-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-2250	7-H455-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2250HC	7-H4I5-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-2250HC	7-H455-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-2250XE	7-H4J5-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4, IP 56
FHP-2250XE	7-H455-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2250XEHC	7-H4I5-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4, IP 56
FHP-2250XEHC	7-H455-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4, IP 56
FHP-2250X	7-H4J5-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X, IP 56
FHP-2250X	7-H455-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56
FHP-2250XHC	7-H4I5-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X, IP 56
FHP-2250XHC	7-H455-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X, IP 56

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



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)				
Ambient Temp	35°C	50°C		
Enclosure Air	y=.072x-26.4	y=.072x-27.1		
Cold Sink	y=.056x-26.4	y=.056x-27.1		

Air Conditioner - Air Cooled				
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 Δ T				
RATING (DIN 3168)				
367 Watts L35 L35				
168 Watts L35 L50				



Air Flow Pattern

DIMENSIONS



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

FHP-1501

Air Conditioner

Air Cooled Flush Mounted NEMA-12, NEMA-4 120/240 VAC Input 950 BTU/HR

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.

DOW/ER INDUTS	
Voltage Current, Active	120/240 VAC 8.0/5.5 AMPS
PERFORMANCE RATINGS	
Cooling (Traditional)	950 BTU/HR

278 WATTS

0.29

INCLUDES

• Integral power supply

Cooling (Din 3168)

Cooling COP (at L35 L35)

- Mounting gasket and hardware
- Power input cord
- Condensate control system

CONFIGURATIONS

ý	

CONTROL TEMPERATURES						
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C			
TC-1F	-	-	35			
TC-6F	-	-	25 or 35			
TC-3F	10	-	35			



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-1501	7-2181-0-000	Cool only, industrial fans	TC-6F	NEMA-12, IP 52
FHP-1501	7-21F1-0-000	Cool only, industrial fans	TC-1F	NEMA-12, IP 52
FHP-1501	7-2151-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
FHP-1501HC	7-2131-1-000	Heat/Cool, industrial fans	TC-3F	NEMA-12, IP 52
FHP-1501HC	7-2151-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
FHP-1501XE	7-2181-4-000	Cool only, sealed hot side fan	TC-6F	NEMA-4, IP 56
FHP-1501XE	7-21F1-4-000	Cool only, sealed hot side fan	TC-1F	NEMA-4, IP 56
FHP-1501XE	7-2151-4-000	Cool only, sealed hot side fan	EXT*	NEMA-4, IP 56
FHP-1501XEHC	7-2131-5-000	Heat/Cool, sealed hot side fan	TC-3F	NEMA-4, IP 56
FHP-1501XEHC	7-2151-5-000	Heat/Cool, sealed hot side fan	EXT*	NEMA-4, IP 56

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

1-888-TECA-USA (832-2872)



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)					
Ambient Temp 20°C 40°C 60°C					
Enclosure Air	y=.117x-30.6	y=.117x-32.6	y=.117x-35.0		
Cold Sink	y=.093x-30.6	y=.093x-32.6	y=.093x-35.0		

FHP-150)1
MOUNTING STYL	.E
Flush Moun	ted
ENVIRONMENTS	SERVED
NEMA-12	IP 52
NEMA-4	IP 56
RATING (TRADIT	ONAL)
950 BTU/hr	@ 0 °F ΔT
1270 BTU/ł	nr @ +20 °F Δ T
RATING (DIN 316	68)
278 Watts	L35 L35
162 Watts	L35 L50



Air Flow Pattern

DIMENSIONS



FHP-1501 Air Conditioner

Air Cooled Flush Mounted NEMA-12, NEMA-4

24 VDC Input 950 BTU/HR

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 ٠
- 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

CONFIGURATIONS

				10,		10
ΓIN	GS			IN	ICLUDE	S
	950 BTU/HR			• M	ounting	gasket
	278 WATTS			• Pc	wer inpl	ut leads
5)	0.64			• Co	ondensat	e contr
	1470 BTU/HR					
	430 WATTS					
5)	> 1.0					
				-		
				4	250 VDC	config
		DONINGUT	1		D4 D7	



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



CONTROL TEMPERATURES					
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C		
TC-1F	-	-	35		
TC-6F	-	-	25 or 35		
TC-3F	10	-	35		
TC-7F	10	25	35		

- and hardware
- rol system

uration for crane applications available

IT	MODEL	PART NUMBER	NOTES 1	EMPERATURE CONTROL	ENVIRONMENT
52	FHP-1501XE	7-2185-4-000	Cool only	TC-6F	NEMA-4, IP 56
52	FHP-1501XE	7-21F5-4-000	Cool only	TC-1F	NEMA-4, IP 56
52	FHP-1501XE	7-2155-4-000	Cool only	EXT*	NEMA-4, IP 56
52	FHP-1501XEHC	7-2135-5-000	Cool only	TC-3F	NEMA-4, IP 56
52	FHP-1501XEHC	7-2115-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56
52	FHP-1501XEHC	7-2155-5-000	Heat/Cool	EXT*	NEMA-4, IP 56
52	FHP-1501XEHC	7-21H5-5-000	Heat/Cool	TC-4600	NEMA-4, IP 56



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)					
Ambient Temp	20°C	40°C	60°C		
Enclosure Air	y=.117x-30.6	y=.117x-32.6	y=.117x-35.0		
Cold Sink	y=.093x-30.6	y=.093x-32.6	y=.093x-35.0		

MOUNTING STY	LE
Flush Mou	nted
ENVIRONMENTS	5 SERVED
NEMA-12	IP 52
NEMA-4	IP 56
RATING (TRADIT	'IONAL)
950 BTU/hr	@ 0 °F ΔT
1270 BTU/	hr @ +20 °F ΔT
RATING (DIN 31	68)
278 Watts	L35 L35
162 Watts	L35 L50



Air Flow Pattern

DIMENSIONS



FHP-1501 Air Conditioner

Air Cooled Flush Mounted NEMA-12, NEMA-4 48 VDC Input 950 BTU/HR

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	48 VDC
Current, Active	9 AMPS

PER	FORM	IANCE	RATIN	IGS

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

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-1501	7-2186-0-000	Cool only	TC-6F	NEMA-12, IP 52
FHP-1501	7-21F6-0-000	Cool only	TC-1F	NEMA-12, IP 52
FHP-1501	7-2156-0-000	Cool only	EXT*	NEMA-12, IP 52
FHP-1501HC	7-2136-1-000	Cool only	TC-3F	NEMA-12, IP 52
FHP-1501HC	7-2116-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52
FHP-1501HC	7-2156-1-000	Heat/Cool	EXT*	NEMA-12, IP 52

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-1501XE	7-2186-4-000	Cool only	TC-6F	NEMA-4, IP 56
FHP-1501XE	7-21F6-4-000	Cool only	TC-1F	NEMA-4, IP 56
FHP-1501XE	7-2156-4-000	Cool only	EXT*	NEMA-4, IP 56
FHP-1501XEHC	7-2136-5-000	Cool only	TC-3F	NEMA-4, IP 56
FHP-1501XEHC	7-2116-5-000	Heat/Cool	l TC-7F	NEMA-4, IP 56
FHP-1501XEHC	7-2156-5-000	Heat/Cool	l EXT*	NEMA-4, IP 56

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



CONTROL TEMPERATURES						
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C			
TC-1F	-	-	35			
TC-6F	-	-	25 or 35			
TC-3F	10	-	35			
TC-7F	10	25	35			

INCLUDES

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

250 VDC configuration for crane applications available



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)				
Ambient Temp	20°C	40°C	60°C	
Enclosure Air	y=.117x-30.6	y=.117x-32.6	y=.117x-35.0	
Cold Sink	y=.093x-30.6	y=.093x-32.6	y=.093x-35.0	

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 ΔT
RATING (DIN 3168)

278 Watts L35 L35 162 Watts L35 L50

Air Flow Pattern

DIMENSIONS



Air Conditioner

Air Cooled Flush Mounted NEMA-12, NEMA-4

FHP-750

120 VAC, 240 VAC Input 430 BTU/HR

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

Voltage	120/240 VAC
Current, Active (Nema-12)	4.0/2.5 AMPS
Current, Active XE (Nema-4)	5.0/2.5 AMPS

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



CONTROL TEMPERATURES					
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C		
TC-1F	-	-	35		
TC-6F	-	-	25 or 35		



MODEL	PART NUMBER	VOLTAGE VAC	CURRENT AMPS	TEMPERATURE CONTROL	ENVIRONMENT	MODEL	PART NUMBER	VOLTAGE VAC	CURRENT AMPS	TEMPERATURE CONTROL	ENVIRONMENT
FHP-750	7-A580-0-000	120	4.0	TC-6F	NEMA-12, IP 52	FHP-750XE	7-A580-4-000	120	5.0	TC-6F	NEMA-4, IP 56
FHP-750	7-A5F0-0-000	120	4.0	TC-1F	NEMA-12, IP 52	FHP-750XE	7-A5F0-4-000	120	5.0	TC-1F	NEMA-4, IP 56
FHP-750	7-A550-0-000	120	4.0	EXT*	NEMA-12, IP 52	FHP-750XE	7-A550-4-000	120	5.0	EXT*	NEMA-4, IP 56
FHP-752	7-A582-0-000	240	2.5	TC-6F	NEMA-12, IP 52	FHP-752XE	7-A582-4-000	240	2.5	TC-6F	NEMA-4, IP 56
FHP-752	7-A5F2-0-000	240	2.5	TC-1F	NEMA-12, IP 52	FHP-752XE	7-A5F2-4-000	240	2.5	TC-1F	NEMA-4, IP 56
FHP-752	7-A552-0-000	240	2.5	EXT*	NEMA-12, IP 52	FHP-752XE	7-A552-4-000	240	2.5	EXT*	NEMA-4, IP 56

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





Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)				
Ambient Temp	20°C	40°C	60°C	
Enclosure Air	y=.29x-34.5	y=.29x-36.5	y=.29x-38.5	
Cold Sink	y=.18x-34.5	y=.18x-36.5	y=.18x-38.5	

	Air Conditioner - Air Cooled
	FHP-750
	MOUNTING STYLE
-	Flush Mounted
	ENVIRONMENTS SERVED
	NEMA-12 IP 52
_	NEMA-4 IP 56
	RATING (TRADITIONAL)
	430 BTU/hr @ 0 °F ΔT
	560 BTU/hr @ +20 °F ΔT
-	RATING (DIN 3168)
	125 Watts L35 L35
_	78 Watts L35 L50
	ENVIRONMENTS SERVED NEMA-12 IP 52 NEMA-4 IP 56 RATING (TRADITIONAL) 430 BTU/hr @ 0 °F ΔT 560 BTU/hr @ +20 °F ΔT RATING (DIN 3168) 125 Watts L35 L35 78 Watts L35 L50

Air Flow Pattern

DIMENSIONS



FHP-750 Air Conditioner

Air Cooled Flush Mounted NEMA-12, NEMA-4 24 VDC Input 430 BTU/HR

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

CONFIGURATIONS



CONTROL TEMPERATURES				
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C	
TC-1F	-	-	35	
TC-6F	-	-	25 or 35	

INCLUDES

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

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-750	7-A585-0-000	Cool only, industrial fans	TC-6F	NEMA-12, IP 52
FHP-750	7-A5F5-0-000	Cool only, industrial fans	TC-1F	NEMA-12, IP 52
FHP-750	7-A555-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
FHP-750HC	7-A595-1-000	Heat/Cool, industrial fans	EXT†	NEMA-12, IP 52
FHP-750XE	7-A585-4-000	Cool only, sealed hot side fan	TC-6F	NEMA-4, IP 56
FHP-750XE	7-A5F5-4-000	Cool only, sealed hot side fan	TC-1F	NEMA-4, IP 56
FHP-750XE	7-A555-4-000	Cool only, sealed hot side fan	EXT*	NEMA-4, IP 56
FHP-750XEHC	7-A595-5-000	Heat/Cool, sealed hot side fan	EXT†	NEMA-4, IP 56

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

 \dagger Unit can be used with external H-Bridge and controller



Equation of line: y= $\Delta T(^{\circ}C) = Capacity (Watts)$				
Ambient Temp	20°C	40°C	60°C	
Enclosure Air	y=.29x-34.5	y=.29x-36.5	y=.29x-38.5	
Cold Sink	y=.18x-34.5	y=.18x-36.5	y=.18x-38.5	

HOUNTING STY	L E Dited
ENVIRONMENTS	SERVED
NEMA-12	IP 52
NEMA-4	IP 56
Rating (tradit	ional)
430 BTU/hr	@ 0 °F Δ T
560 BTU/hi	·@+20 °F ΔT
RATING (DIN 310	58)
125 Watts	L35 L35
78 Watts L	.35 L50
78 Watts L	.35 L50

Air Flow Pattern

DIMENSIONS



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

FHP-750 Air Conditioner

Air Cooled Flush Mounted NEMA-12, NEMA-4 48 VDC Input 430 BTU/HR

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	48 VDC
Current, Active	4.5 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

CONFIGURATIONS



CONTROL TEMPERATURES				
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C	
TC-1F	-	-	35	
TC-6F	-	-	25 or 35	

INCLUDES

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

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-750	7-A586-0-000	Cool only, industrial fans	TC-6F	NEMA-12, IP 52
FHP-750	7-A5F6-0-000	Cool only, industrial fans	TC-1F	NEMA-12, IP 52
FHP-750	7-A556-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
FHP-750HC	7-A596-1-000	Heat/Cool, industrial fans	EXT†	NEMA-12, IP 52
FHP-750XE	7-A586-4-000	Cool only, sealed hot side fan	TC-6F	NEMA-4, IP 56
FHP-750XE	7-A5F6-4-000	Cool only, sealed hot side fan	TC-1F	NEMA-4, IP 56
FHP-750XE	7-A556-4-000	Cool only, sealed hot side fan	EXT*	NEMA-4, IP 56
FHP-750XEHC	7-A596-5-000	Heat/Cool, sealed hot side fan	EXT†	NEMA-4, IP 56

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

 \dagger Unit can be used with external H-Bridge and controller



Equation of line: $y=\Delta T(^{\circ}C) x=Capacity$ (Watts)				
Ambient Temp	20°C	40°C	60°C	
Enclosure Air	y=.29x-34.5	y=.29x-36.5	y=.29x-38.5	
Cold Sink	y=.18x-34.5	y=.18x-36.5	y=.18x-38.5	

Air Conditioner -	Air Cooled
FHP-750	
MOUNTING STYL	E
Flush Mount	ted
ENVIRONMENTS	SERVED
NEMA-12	IP 52
NEMA-4	IP 56
RATING (TRADITI	ONAL)
430 BTU/hr	@ 0 °F ΔT
RATING (DIN 316	8)
125 Watts I	_35 L35
78 Watts La	35 L50



Air Flow Pattern

DIMENSIONS



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



Air Conditioner/Heat Exchanger FHP-590

24 VDC High Efficiency 415 BTU/HR

Air Cooled

Flush Mounted

Nema-12, 4, 4X

- **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 ٠
- Environmentally safe
- No compressor, fluorocarbons or filters •
- Virtually maintenance-free operation ٠
- Stainless steel exterior housing .
- Efficient heat exchanger mode (ECO-Mode) ٠
- Weight 16 LBS. ٠

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	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

CONFIGURATIONS



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-590	7-G0J5-0-001	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
FHP-590HC	7-G095-1-001	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
FHP-590HC	7-G0I5-1-001	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
FHP-590XE	7-G0J5-4-001	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
FHP-590XEHC	7-G095-5-001	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
FHP-590XEHC	7-G0I5-5-001	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
FHP-590X	7-G0J5-2-001	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
FHP-590XHC	7-G095-3-001	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
FHP-590XHC	7-G0I5-3-001	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56

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





Air	Conditioner	- Air	Cooled
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FHP-590

 MOUNTING STYLE

 Flush Mounted

 ENVIRONMENTS SERVED

 NEMA-12
 IP 52

 NEMA-4
 IP 56

 RATING (TRADITIONAL)

 415 BTU/hr @ 0 °F ΔT

 563 BTU/hr @ +20 °F ΔT

 563 BTU/hr @ +20 °F ΔT

 124 Watts L35 L35

 68 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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



FHP-590 Air Conditioner/Heat Exchanger



Air Cooled Flush Mounted Nema-12, 4, 4X 48 VDC High Efficiency 415 BTU/HR

- 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

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	48 VDC
Current, Active	3.5 AMPS
Current, ECO-Mode	0.15 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

CONFIGURATIONS



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	
FHP-590	7-G0J6-0-001	Cool only, industrial fans	TC-4F	NEMA-12, IP 52	
FHP-590HC	7-G096-1-001	Heat/Cool, industrial fans	None*	NEMA-12, IP 52	
FHP-590HC	7-G0I6-1-001	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52	
FHP-590XE	7-G0J6-4-001	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56	
FHP-590XEHC	7-G096-5-001	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56	
FHP-590XEHC	7-G0I6-5-001	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56	
FHP-590X	7-G0J6-2-001	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56	
FHP-590XHC	7-G096-3-001	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56	
FHP-590XHC	7-G0I6-3-001	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56	

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





Air Conditioner - Air Cooled

FHP-590

 MOUNTING STYLE

 Flush Mounted

 ENVIRONMENTS SERVED

 NEMA-12
 IP 52

 NEMA-4
 IP 56

 RATING (TRADITIONAL)

 415 BTU/hr
 @ 0 °F ΔT

 RATING (DIN 3168)

 124 Watts
 L35 L35

 68 Watts
 L35 L50



Air Flow Pattern

DIMENSIONS



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



FHP-570 Air Conditioner/Heat Exchanger

24 VDC **High Efficiency** 250 BTU/HR

Air Cooled

Flush Mounted

Nema-12, 4, 4X

- **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 ٠
- Environmentally safe
- No compressor, fluorocarbons or filters ٠
- Virtually maintenance-free operation
- Stainless steel exterior housing ٠
- Efficient heat exchanger mode (ECO-Mode) ٠
- Weight 16 LBS. ٠

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)	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



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-570	7-G0J5-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
FHP-570HC	7-G095-1-000	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
FHP-570HC	7-G0I5-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
FHP-570XE	7-G0J5-4-000	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
FHP-570XEHC	7-G095-5-000	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
FHP-570XEHC	7-G0I5-5-000	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
FHP-570X	7-G0J5-2-000	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
FHP-570XHC	7-G095-3-000	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
FHP-570XHC	7-G0I5-3-000	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56

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



FHP-570

	MOUNTING STYLE				
_	Flush Mounted				
	ENVIRONMENTS SERVED				
		NEMA-12	IP 52		
_		NEMA-4	IP 56		
	RATING	(TRADITION	IAL)		
		250 BTU/hr	@ 0 °F ΔT		
		372 BTU/hr	@ +20 °F ΔT		
	RATING	(DIN 3168)			
		75 Watts La	35 L35		
		27 Watts L	35 L50		



Air Flow Pattern

DIMENSIONS



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

Air Conditioner

Air Cooled Flush Mounted Nema-12

FHP-451

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

POWER INPUTS

CONFIGURATIONS

Voltage	120 or 240 VAC
Current, Active	1.3 / 0.71 AMPS



PER	FORM	ANCE	RATIN	IGS

Cooling (Traditional)	342
Cooling (Din 3168)	102
Cooling COP (at L35 L35)	

102 WATTS 0.65

BTU/HR

INCLUDES

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

MODEL	PART NUMBER	NOTES	VOLTAGE VAC	CURRENT AMPS	TEMPERATURE CONTROL	
FHP-451	7-F090-0-000	Cool only	120	1.3	None	
FHP-451	7-F080-0-000	Cool only	120	1.3	TC-6F	
FHP-451	7-F0F0-0-000	Cool only	120	1.3	TC-1F	
FHP-451	7-F050-0-000	Cool only	120	1.3	EXT*	
FHP-451HC	7-F030-1-000	Heat/Cool	120	1.3	TC-3F	
FHP-452	7-F092-0-000	Cool only	240	0.70	None	
FHP-452	7-F082-0-000	Cool only	240	0.70	TC-6F	
FHP-452	7-F0F2-0-000	Cool only	240	0.70	TC-1F	
FHP-452	7-F052-0-000	Cool only	240	0.70	EXT*	
FHP-452HC	7-F032-1-000	Heat/Cool	240	0.70	TC-3F	

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



Air Conditioner - Air Cooled
FHP-451
MOUNTING STYLE
Flush Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
RATING (TRADITIONAL)
300 BTU/hr @ 0 °F ΔT
447 BTU/hr @ +20 °F Δ T
RATING (DIN 3168)
91 Watts L35 L35
38 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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

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

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

POWER INPUTS

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



PERFORMANCE RATINGS	
Cooling (Traditional)	

190 BTU/HR
56 WATTS
0.38

INCLUDES

• Temperature controller

Cooling (Din 3168) Cooling COP (at L35 L35)

- Mounting gasket
- Mounting hardware
- Integral power input cord

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	VOLTAGE VAC	CURRENT AMPS	TEMPERATURE CONTROL
FHP-401	7-F090-0-001	Cool only	120	1.2	None
FHP-401	7-F080-0-001	Cool only	120	1.2	TC-6F
FHP-401	7-F0F0-0-001	Cool only	120	1.2	TC-1F
FHP-401	7-F050-0-001	Cool only	120	1.2	EXT*
FHP-401HC	7-F030-1-001	Heat/Cool	120	1.2	TC-3F
FHP-402	7-F092-0-001	Cool only	240	0.65	None
FHP-402	7-F082-0-001	Cool only	240	0.65	TC-6F
FHP-402	7-F0F2-0-001	Cool only	240	0.65	TC-1F
FHP-402	7-F052-0-001	Cool only	240	0.65	EXT*
FHP-402HC	7-F032-1-001	Heat/Cool	240	0.65	TC-3F

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



Equation of Lin	e: $y=\Delta T(^{\circ}C)$	x=Capacity (Watts)
Ambient Temp	30°C	50°C
Enclosure Air	y=.69x-38	y=.69x-39

Air Conditioner - Air Cooled

FHP-401

MOUNTING STYLE

Flush Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

RATING (TRADITIONAL)

190 BTU/hr @ 0 °F ΔT 240 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

56 Watts L35 L35 35 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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

FHP-470 Air Conditioner/Heat Exchanger

Air Cooled Flush Mounted Nema-12, 4, 4X 24 VDC 260 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

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	7.0 AMPS
Current, ECO-Mode	0.3 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	259 BTU/HR
Cooling (Din 3168)	80 WATTS
Cooling COP (at L35 L35)	0.48
Heating (Traditional)	> 572 BTU/HR
Heating (Din 3168)	> 168 WATTS
Heating COP	> 1.0

CONFIGURATIONS



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	
FHP-470	7-F0J5-0-001	Cool only, industrial fans	TC-4F	NEMA-12, IP 52	
FHP-470HC	7-F095-1-001	Heat/Cool, industrial fans	None*	NEMA-12, IP 52	
FHP-470HC	7-F0I5-1-001	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52	
FHP-470XE	7-F0J5-4-001	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56	
FHP-470XEHC	7-F095-5-001	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56	
FHP-470XEHC	7-F0I5-5-001	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56	
FHP-470X	7-F0J5-2-001	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56	
FHP-470XHC	7-F095-3-001	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56	
FHP-470XHC	7-F0I5-3-001	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56	_

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



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
 360 BTU/hr @ +20 °F ΔT

 80 Watts L35 L35
 40 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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



Air Conditioner/Heat Exchanger FHP-450

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

24 VDC Hgh Efficiency 180 BTU/HR

- **FFATURFS** Compact (only 10" X 5.84" X 7.97") ٠
- Mounts and operates in any orientation: ٠ horizontal, vertical, etc.
- Low vibration and noise ٠
- No moving parts except fans •
- Environmentally safe ٠
- No compressor, fluorocarbons or filters ٠
- Virtually maintenance-free operation ٠
- Stainless steel exterior housing ٠
- 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)	197 BTU/HR
Cooling (Din 3168)	53 WATTS
Cooling COP (at L35 L35)	0.96
Heating (Traditional)	> 188 BTU/HR
Heating (Din 3168)	> 55 WATTS
Heating COP	> 1.0

CONFIGURATIONS



INCLUDES

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



MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-450	7-F0J5-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
FHP-450HC	7-F095-1-000	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
FHP-450HC	7-F0I5-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
FHP-450XE	7-F0J5-4-000	Cool only, sealed hot side fan	TC-4F	NEMA-4, IP 56
FHP-450XEHC	7-F095-5-000	Heat/Cool, sealed hot side fan	None*	NEMA-4, IP 56
FHP-450XEHC	7-F0I5-5-000	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4, IP 56
FHP-450X	7-F0J5-2-000	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X, IP 56
FHP-450XHC	7-F095-3-000	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X, IP 56
FHP-450XHC	7-F0I5-3-000	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X, IP 56

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



	Air	Conditioner	- Air	Cooled
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FHP-450

Flush Mounted
ENVIRONMENTS SERVED
NEMA-12 IP 52
NEMA-4 IP 56
RATING (TRADITIONAL)
180 BTU/hr $@$ 0 °F Δ T
280 BTU/hr @ +20 °F Δ T
RATING (DIN 3168)
53 Watts L35 L35
15 Watts L35 L5



Air Flow Pattern

DIMENSIONS



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

LHP-1200XE

Liquid Cooled Air Conditioner

Liquid Cooled Through Mounted NEMA-4, 4X 120 VAC Input 615 BTU/HR

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.

CONFIGURATIONS

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.

CONTROL TEMPERATURES					
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C		
TC-1F	-	-	35		
TC-6F	-	-	25 or 35		
TC-3F	10	-	35		

INCLUDES

- · Integral power supply
- Mounting gasket and hardware
- · Power input cord
- In/Out 1/4-18 NPT connectors for coolant

MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT	
LHP-1200XE	2-3090-4-000	Cool only	None	NEMA-4X, IP 56	
LHP-1200XE	2-3080-4-000	Cool only	TC-6F	NEMA-4X, IP 56	
LHP-1200XE	2-30F0-4-000	Cool only	TC-1F	NEMA-4X, IP 56	
LHP-1200XE	2-3050-4-000	Cool only	EXT*	NEMA-4X, IP 56	
LHP-1200XEHC	2-3030-5-000	Heat/Cool	TC-3F	NEMA-4X, IP 56	
LHP-1200XEHC	2-3050-5-000	Cool only	EXT*	NEMA-4X, IP 56	

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



Air Conditioner - Liquid Cooled

LHP-1200XE MOUNTING STYLE Through Mounted ENVIRONMENTS SERVED NEMA-4X IP 56 RATING (TRADITIONAL) 615 BTU/hr @ 0 °F ΔT 770 BTU/hr @ +20 °F ΔT RATING (DIN 3168) 180 Watts L35 L35 125 Watts L35 L50



DIMENSIONS



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

† Dimension applies to XP versions. Dimensions: Inches [Millimeters]

LHP-1200XP

Liquid Cooled Air Conditioner

Liquid Cooled Through Mounted NEMA-4, 4X, CID2, CID1 & ATEX Zone 1 (No Agency Approvals)

120 VAC Input 613 BTU/HR

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.

INPUIS	
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.

CONFIGURATIONS

MODEL	Part Number	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
LHP-1200XP	2-3090-2-027	Cool only	None	NEMA-4X IP 56, CI D2
LHP-1200XP	2-3080-2-028	Cool only	TC-6F	NEMA-4X IP 56, CI D2
LHP-1200XP	2-30F0-2-029	Cool only	TC-1F	NEMA-4X IP 56, CID2
LHP-1200XP	2-3050-2-030	Cool only	EXT*	NEMA-4X IP 56, CI D2
LHP-1200XPHC	2-3030-3-031	Heat/Cool	TC-3F	NEMA-4X IP 56, CI D2
LHP-1200XPHC	2-3050-3-032	Heat/Cool	EXT*	NEMA-4X IP 56, CI D2
LHP-1200XP	2-3090-2-021	Cool only	None	NEMA-4X IP 56, CI D1 ATEX Zone 1
LHP-1200XP	2-3080-2-022	Cool only	TC-6F	NEMA-4X IP 56, CI D1 ATEX Zone 1
LHP-1200XP	2-30F0-2-023	Cool only	TC-1F	NEMA-4X IP 56, CI D1 ATEX Zone 1
LHP-1200XP	2-3050-2-024	Cool only	EXT*	NEMA-4X IP 56, CI D1 ATEX Zone 1
LHP-1200XPHC	2-3030-3-025	Heat/Cool	TC-3F	NEMA-4X IP 56, CI D1 ATEX Zone 1
LHP-1200XPHC	2-3050-3-026	Heat/Cool	EXT*	NEMA-4X IP 56, CI D1 ATEX Zone 1

* 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



CONTROL TEMPERATURES					
Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C		
TC-1F	-	-	35		
TC-6F	-	-	25 or 35		
TC-3F	10	-	35		

INCLUDES

- Integral power supply
- · Mounting gasket and hardware
- Power input cord
- In/Out 1/4-18 NPT connectors for coolant



Air Conditioner - Liquid Cooled

LHP-1200X MOUNTING STYLE Through Mounted ENVIRONMENTS SERVED NEMA-4X IP 56, CID2, CID1, Zone 1 RATING (TRADITIONAL) 613 BTU/hr @ 0 °F ΔT 770 BTU/hr @ +20 °F ΔT RATING (DIN 3168) 180 Watts L35 L35 125 Watts L35 L50

Air Flow Pattern

DIMENSIONS



Dimension does not include hardware. Mounting hardware and gasket included but not shown.
 Dimension applies to XP versions.

Dimensions: Inches [Millimeters]

EH-2000/4000 Enclosure Heater

Enclosure Heaters Internal Mounted 120 VAC, 240 VAC 200 Watts, 400 Watts

ENLCLOSURE 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

MODEL	NOTES	POWER RATING WATTS	VOLTAGE VAC 50/60 HZ	CURRENT AMPS.	WEIGHT LBS. (kg)	TEMP. Control	OVERHEAT SAFETY	
EH-2001	Single Fan	200	120	1.7	7 (3.2)	15 °C	75 °C	
EH-2002	Single Fan	200	240	0.83	7 (3.2)	15 °C	75 °C	
EH-4001	Dual Fan	400	120	3.4	7 (3.2)	15 °C	75 °C	
EH-4002	Dual Fan	400	240	1.7	7 (3.2)	15 °C	75 °C	

Accessories Drip Pans AHP-150 Series

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


Accessories Drip Pans AHP-400/500 Series

DVA-500



_DHA-500 Fitting (3/8 ID) Hose & Wick not shown -DHA-500 Drip Pan Body

Drip Pan Length: 10"



Accessories Drip Pans AHP-1501 Series



Accessories Drip Pans AHP-1800 Series



Accessories Drip Pans AHP-2200/3200/4200/6200 Series



www.thermoelectric.com

1-888-TECA-USA (832-2872)

D-100, D-200 Condensate Discharge

NEMA-4, 4X

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-Metalic Polyester material
- UL 508A Listed; Type 4, 4X; File No. E617

SPECIFICATIONS

MODEL	NOTE	D INCHES	D Millimeters
D-100	Non-Metalic	1.25	32
D-200	Stainless Steel	1.38	35

DIMENSIONS





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**.



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.



www.thermoelectric.com

TC-4600

PWM Temperature Control RS-232 Comms. Pulse Width Modulating Temperature Controller

Temperature Controller

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 ou puts 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.

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

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 to50°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%

			NG							
MODEL NUMBER	PART NUMBER	COMMS	OPERATING VOLTAGE VDC	SWITCHING VOLTAGE VDC	MAX. SWITCHING CURRENT AMPS.	HEAT SINK	SENSOR	SENSOR RANGE (°C)	DISPLAY	
TC-4600	46-44O-41-000	RS-232	12-36	0-36	15*	none	Thermistor-K	-20 to 30	none	
TC-4600	46-440-41-001	RS-232	12-36	0-36	15*	none	Thermistor-K	-20 to 30	included	
TC-4600	46-44O-51-000	RS-232	12-36	0-36	15*	none	Thermistor-Z	0 to 50	none	
TC-4600	46-440-51-001	RS-232	12-36	0-36	15*	none	Thermistor-Z	0 to 50	included	
TC-4600	46-44P-41-000	RS-232	12-36	0-36	25	included	Thermistor-K	-20 to 30	none	
TC-4600	46-44P-41-001	RS-232	12-36	0-36	25	included	Thermistor-K	-20 to 30	included	
TC-4600	46-44P-51-000	RS-232	12-36	0-36	25	included	Thermistor-Z	0 to 50	none	
TC-4600	46-44P-51-001	RS-232	12-36	0-36	25	included	Thermistor-Z	0 to 50	included	

* Can switch up to 25 AMPS if used with heat sink

DT NUMBER AND ORDER

www.thermoelectric.com

PWM | Temperature Controller

TC-4600



www.thermoelectric.com

Temperature Controller

PID Temperature Control

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 requirment 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 requirments @ 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 $\pm 0.1^{\circ}\text{C/}^{\circ}\text{C}~(\pm 0.1^{\circ}\text{F/}^{\circ}\text{F})$ 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, W.E.E.E.

Controller:

- Auto-tune with TRU-TUNE[™] + adaptive control algorithm
- Control sampling rates: input 10Hz, outputs 10Hz





Wiring Termination:

 Input, power and controller ouput 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 200Ω source resistance
- RTD 2- or 3-wire, platinum, 100Ω and 1000Ω @ 0°C calibration to DIN curve (0.00385Ω /Ω/°C)

Serial Communications:

- Isolated communications EIA 485
- Industry standard RS-485 Modbus® RTU
- RS-232 via RS-485/232 converter

PART NUMBER AND ORDERING

TC-3400

	34 -	x	X	x	-	x	X	-	X	X	Т
Input voltage											
D: 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											
3: Cool only, VAC switching, 120/240Vac, 10 Amps											
C: Cool Only, VDC switching, 0-100 VDC, 12 Amps											
): Cool Only, VDC switching, 0-100 VDC, 20 Amps											
: Cool Only, VDC switching, 0-100 VDC, 40 Amps											
: Heat/Cool, VDC switching, 0-100 VDC, 12 Amps											
: Heat/Cool, VDC switching, 0-100 VDC, 20 Amps											
I: Heat/Cool, VDC switching, 0-100 VDC, 40 Amps											
Heat/Cool, Heat: 120/240 VAC, 10 amps Cool: VDC switching, 0-100 VDC, 12 A	mps										
: Heat/Cool, Heat: 120/240 VAC, 10 amps Cool: VDC switching, 0-100 VDC, 20 A	imps										
: Heat/Cool, Heat: 120/240 VAC, 10 amps Cool: VDC switching, 0-100 VDC, 40 A	Amps										
: Heat/Cool, Heat: 0-100 VDC, 12 Amps Cool: VAC switching, 120/240 VAC, 10 a	amps										
I: Heat/Cool, Heat: 0-100 VDC, 20 Amps Cool: VAC switching, 120/240 VAC, 10	amps										
I: Heat/Cool, Heat: 0-100 VDC, 40 Amps Cool: VAC switching, 120/240 VAC, 10	amps										
): Heat/Cool, Reverse Polarity, 0-100 VDC, 12 Amps											
: Heat/Cool, Reverse Polarity, 0-100 VDC, 20 Amps											
2: Heat/Cool, Reverse Polarity, 0-100 VDC, 40 Amps											
R: Heat/Cool, VAC switching, 120/240 VAC, 10 amps											
ensor											
2 Miles DTD, DTD, Dto backs											
: 3- WITE KID - KID-PFODE											
2: I type thermocouple (ring mount)											
Communications											
D: Basic communications used with standard EZ Zone Configurator allows the u the process temperature and initiate an Auto Tune	user to configure al	ll the set u	p parame	eters includ	ling the a	ability to o	change se	et point, n	nonitor		
1: RS-232 complete communication for use with standard EZ Zone Configurator an	nd optional SpecV	iew or thi	rd party s	oftware, ir	ncludes F	S-232/RS	-485 ada	pter			
2: RS-485 complete communication for use with standard EZ Zone Configurator an	nd optional SpecV	iew or thi	rd party s	oftware							
Options ————————————————————————————————————											

DIMENSIONS AND CUTOUT



TC-3500 Temperature Controller

PID Temperature Control

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

PID **Temperature Controller**



PART NUMBER AND ORDERING

MODEL NUMBER	PART NUMBER	SWITCHING VOLTAGE VDC	SWITCHING CURRENT AMPS (MAX.)	COMMUNICATIONS
TC-3500	35-44S-30-000	12/24	7	None
TC-3500	35-44S-32-000	12/24	7	RS-485

DIMENSIONS AND CUTOUT



Dimensions: Inches [Millimeters]

Power | Temperature Controllers



TC-4F COOL ONLY WITH ECO-MODE

Model TC-4F is simillar to TC-1F plus it has a 2nd power switch for heat exchanger mode (ECO-Mode). The active cool set point for TC-4F is 35 °C and for heat exchanger mode (ECO-Mode) is 25 °C.

MODEL NUMBER	PART NUMBER	NOTES	HX TEMP. °C	COOL TEMP. °C	RESET (MAX) °C	RESET (TYP) °C	OPERATING VOLTAGE	SWITCHING VOLTAGE	ACTIVE MODE SWITCHING CURRENT	ECO-MODE SWITCHING CURRENT
TC-4F-DC	4F-24G-00-000	24 VDC	25 +/- 3	35 +/- 3	6.5	3	24 VDC	24 VDC	.02 - 20 ADC	1.3 ADC

TC-6F COOL ONLY

Model TC-6F (Cool Only) thermostat is designed using two temperature power switches in conjunction with a solid state relay. A three position switch is provided to adjust temperature settings.

MODEL NUMBER	PART NUMBER	NOTES	TEMP @ T1 °C	TEMP @ T2 °C	T1-T2 (MAX) °C	RESET (TYP) °C	RESET °C	TEMP @ T3	OPERATING VOLTAGE	SWITCHING VOLTAGE	SWITCHING CURRENT
TC-6F	6F-00A-00-000	No Relay	35 +/- 5	25 +/- 5	10 +/- 3	6.5	3	Continuous On	NA	NA	NA
TC-6F-AC	6F-03T-00-000	VAC Version	35 +/- 5	25 +/- 5	10 +/- 3	6.5	3	Continuous On	85-250 VAC	24-280 VAC	10
TC-6F-DC	6F-43D-00-000	12/24 VDC	35 +/- 5	25 +/- 5	10 +/- 3	6.5	3	Continuous On	12/24 VDC	0-100 VDC	.02-20 ADC
TC-6F-DC	6F-33D-00-000	48 VDC	35 +/- 5	25 +/- 5	10 +/- 3	6.5	3	Continuous On	48 VDC	0-100 VDC	.02-20 ADC

TC-3F HEAT AND COOL

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

MODEL NUMBER	PART NUMBER	NOTES	COOL TEMP. °C	HEAT TEMP. °C	RESET (MAX) °C	RESET (TYP) °C	OPERATING VOLTAGE	SWITCHING VOLTAGE	SWITCHING CURRENT	
TC-3F-AC	3F-04R-00-000	VAC Version	35 +/- 5	15 +/- 5	6.5	3	85-280 VAC	24-280 VAC	10 AMPS	
TC-3F-DC	3F-44G-00-000	12/24 VDC	35 +/- 5	15 +/- 5	6.5	3	3.5-32 VDC	0-100 VDC	.02 - 20 ADC	
TC-3F-DC*	3F-44P-00-000	12/24 VDC	35 +/- 5	15 +/- 5	6.5	3	3.5-32 VDC	0-100 VDC	.02 - 20 ADC	

* H-Bridge relays included

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).

MODEL NUMBER	PART NUMBER	NOTES	COOL TEMP. °C	HX TEMP. °C	HEAT TEMP. °C	RESET (MAX) °C	RESET (TYP) °C	OPERATING VOLTAGE	SWITCHING VOLTAGE	SWITCHING CURRENT
TC-7F-DC	7F-24G-00-000	24 VDC	35 +/- 3	25 +/- 3	10 +/- 3	6.5	3	24 VDC	24 VDC	.02 - 20 ADC

H-Bridge relays included

For custom variations of any of the controls, contact TECA.

SOLID STATE RELAYS | H-BRIDGE

SINGLE RELAY



RELAYS

Relays H-Bridges

DESCRIPTION

Cool only, DC Drive, VAC switching, 120/240 VAC, 10 AMPS	Relay - B
Cool only, DC Drive, VDC switching, 0-100 VDC, 12 AMPS	Relay - C
Cool only, DC Drive, VDC switching, 0-100 VDC, 20 AMPS	RELAY - D
Cool only, DC Drive, VDC switching, 0-100 VDC, 40 AMPS	Relay - E
Cool only AC Drive, VAC switching, 120/240 VAC, 10 AMPS	RELAY - T

DESCRIPTION (3-32 VDC DRIVE) PART # Heat/Cool, VDC switching, 0-100 VDC, 12 AMPS RELAY - F Heat/Cool, VDC switching, 0-100 VDC, 20 AMPS RELAY - G Heat/Cool, VDC switching, 0-100 VDC, 40 AMPS RELAY - H Heat/Cool, Heat: 120/240 VAC, 10 AMPS RELAY - I Cool: 0-100 VDC, 12 AMPS Heat/Cool, Heat: 120/240 VAC, 10 AMPS RELAY - J Cool: 0-100 VDC, 20 AMPS Heat/Cool, Heat: 120/240 VAC, 10 AMPS RELAY - K Cool: 0-100 VDC, 40 AMPS Heat/Cool, Heat: 0-100 VDC, 12 AMPS RELAY - L Cool: 120/240 VAC, 10 AMPS Heat/Cool, Heat: 0-100 VDC, 20 AMPS RELAY - M Cool: 120/240 VAC, 10 AMPS Heat/Cool, Heat: 0-100 VDC, 40 AMPS RELAY - N Cool: 120/240 VAC, 10 AMPS Heat/Cool, VAC switching, 120/240 VAC, 10 AMPS RELAY - R

DESCRIPTION	(3-32 VDC DRIVE)	PART #
Heat/Cool, reverse polarit	y, 0-100 VDC, 12 AMPS	RELAY - O
Heat/Cool, reverse polarit	y, 0-100 VDC, 20 AMPS	RELAY - P
Heat/Cool, reverse polarit	y, 0-100 VDC, 40 AMPS	RELAY - Q





Temperature Controller Accessories

SENSORS, CABLES, ADAPTERS

TTYPE-Ring Surface mounting "T" type thermocouple with connector	O.
RTD-Surface Surface mounting 3 wire RTD with connector	
RTD-Probe 6" long, 1/8 DIA, 3 wire RTD with connector	O
Probe-1/4NPT RTD-Probe with male 1/4 NPT compression fitting	
Probe-3/8NPT RTD-Probe with male 3/8 NPT compression fitting	
Thermocouple Wire (specify length in feet) "T" type WIRE-T-XXX "J" type WIRE-J-XXX	0
RTD Wire (specify length in feet) 3 conductor cable WIRE-RTD-XXX	
C-USB RS-232 to USB converter	
C-485/232 RS-485 to RS-232 and RS-232 to RS-485 converter	
C-RS232 RS-232 cable	

SPECIFICATION

Supplies

POWER SUPPLIES

150, 300, 500, 800 WATTS

MODEL	INPUT VOLTAGE VAC 47-63 HZ	OUTPUT VOLTAGE VDC	DC OUTPUT POWER WATTS	OUTPUT CURRENT AMPS.	WEIGHT LBS.	WORKING TEMPERATURE °C 20-90%RH	DIMENSIONS L X W X H INCHES
AS150F-12	88-132 OR 176-264*	12	150	12.5	1.76	-10 - 60	7.96X4.4X2
AS150F-24	88-132 OR 176-264*	24	150	6.5	1.76	-10 - 60	7.96X4.4X2
SP300-12	90-264	12	300	24	2.6	-10 - 50	8.6X4.6X2
SP300-24	90-264	24	300	12.5	2.6	-10 - 50	8.6X4.6X2
SP500-24	90-264	24	500	20.8	3.3	0 - 70	9.2X4.25X2.5
SP800-24	90-264	24	800	33	3.3	0 - 70	9.2X4.25X2.5

* Input voltage range is switch selectable.

DIMENSIONS



SP-500, SP-800





Ordering information:

- By telephone during business hours, **773-342-4900** and **888-832-2872**. Monday – Friday 8 AM to 4:30 PM, Central Time.
- By fax or email 24 hours a day. Fax: 773-342-0191 email: sales@thermoelectric.com
- By mail on your purchase order or company letterhead. Thermoelectric Cooling America Corporation 4048 West Schubert, Chicago, Illinois 60639

All orders are subject to written acceptance on our form "Acceptance of Order" with our required terms and conditions, depending upon quantity, price, availability of parts and other considerations.

Prices:

- Prices are quoted F.O.B. Chicago and do not include sales or other taxes. Applicable taxes will be shown as a separate item on the invoice, as will charges for freight.
- Prices are in US Dollars and are subject to change without notice.

Terms:

 Terms of payment are 30 days after shipment, subject to approved credit. New accounts must furnish necessary credit references. Until credit has been established, payment in full with order or C.O.D. may be requested. American Express, Visa and Mastercard are accepted.



Cancellation, Schedule Changes:

- A charge of 15% of net price will be assessed for cancellation of formally accepted orders. Special part numbers containing a (CD or P) prefix are non-cancelable, non-returnable (NCNR). A 100% cancellation charge applies.
- Requests for schedule changes which defer delivery may be subject to price adjustments or other charges.

Returned Goods, Restocking Charges:

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

Limited Warranty

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

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