

# AHP-4252

# Air Conditioner/Heat Exchanger

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

240 VAC Input  
High Capacity  
3810 BTU/HR

## FEATURES

- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- Lower profile intrusion into enclosure
- Central input cord for easy mounting
- Closed loop design
- Condensate control and evaporation system
- Increased efficiency at higher 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
- Agency approvals:
- UL 60335-1 & 2-40; CSA C22.2#60335-1 & 2-40; IEC 60335-1 & 2-40

## 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    | 12.5 AMPS |
| Current , ECO-Mode | 0.9 AMP   |
| Frequency          | 50/60 Hz  |

## PERFORMANCE RATINGS

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

## CONFIGURATIONS

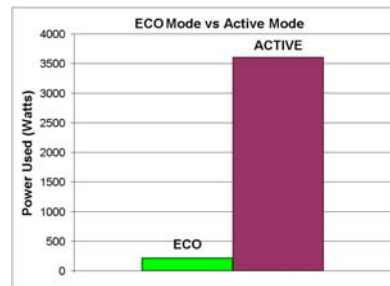
| MODEL        | PART NUMBER  | NOTES  | TEMPERATURE CONTROL | ENVIRONMENT          |
|--------------|--------------|--|---------------------|----------------------|
| AHP-4252     | 0-J5J2-0-000 | Cool only, industrial fans & power supply          | TC-4F               | NEMA-12, IP 52       |
| AHP-4252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

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

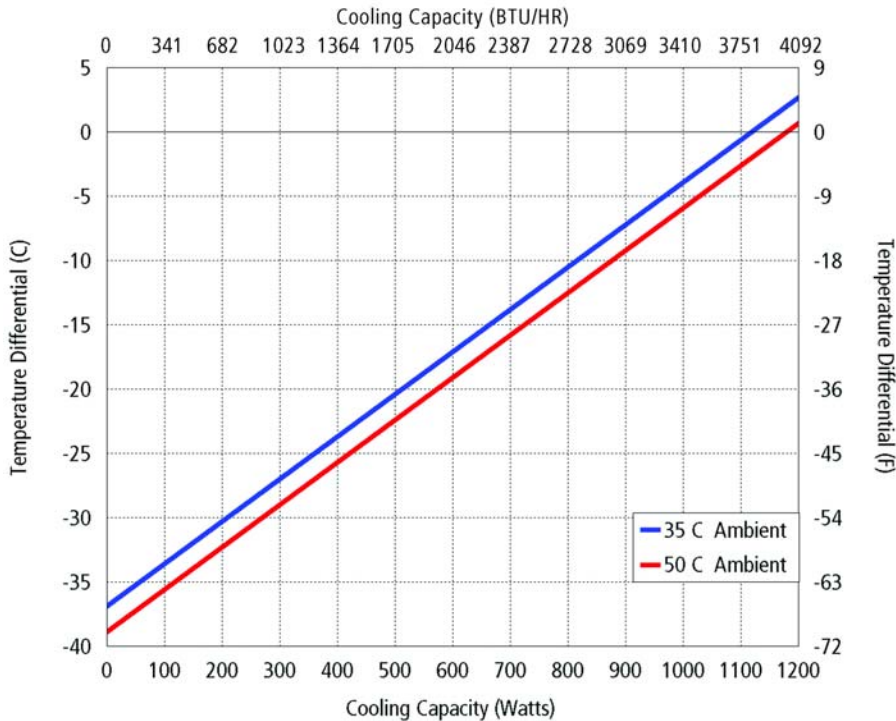


## INCLUDES

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



250 VDC configuration for crane applications available

**AHP-4252****PERFORMANCE CURVE**

| Equation of line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$ |                    |                    |
|--|--------------------|--------------------|
| Ambient Temp   | 35°C               | 50°C               |
| Enclosure Air  | $y = .033x - 36.9$ | $y = .033x - 38.9$ |
| Cold Sink  | $y = .025x - 36.9$ | $y = .025x - 38.9$ |

**MOUNTING STYLE**

Through Mounted

**ENVIRONMENTS SERVED**

NEMA-12 IP 52

NEMA-4,4X IP 56

**RATING (TRADITIONAL)**

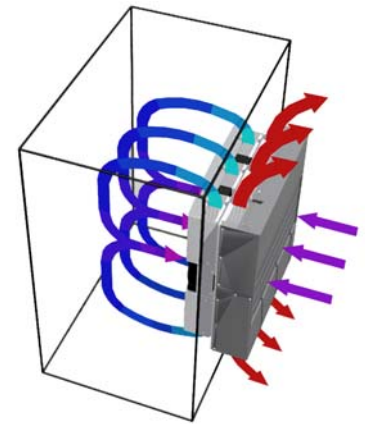
3810 BTU/hr @ 0 °F ΔT

4960 BTU/hr @ +20 °F ΔT

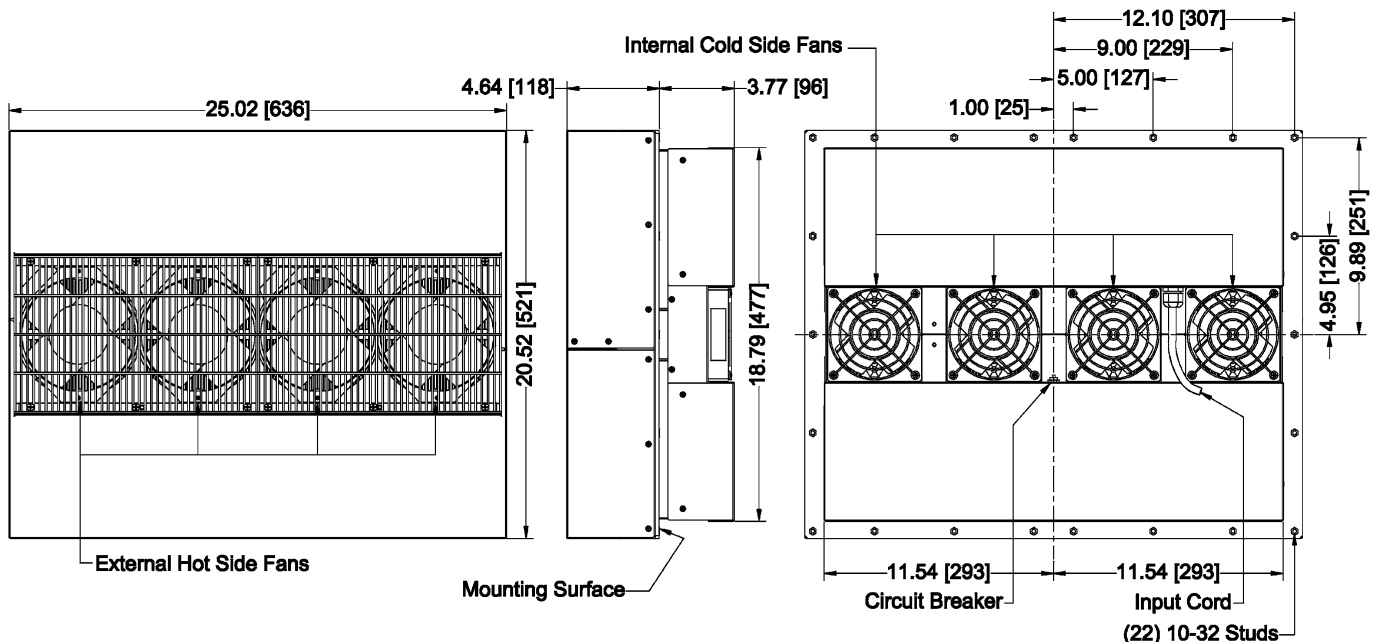
**RATING (DIN 3168)**

1120 Watts L35 L35

720 Watts L35 L50



Air Flow Pattern

**DIMENSIONS**

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