

FHP-2250

Air Conditioner/Heat Exchanger

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

48 VDC Input
High Efficiency
1610 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 |

POWER INPUTS

| | |
|--------------------|---------|
| Voltage | 48 VDC |
| Current, Active | 15 AMPS |
| Current , ECO-Mode | 0.9 AMP |

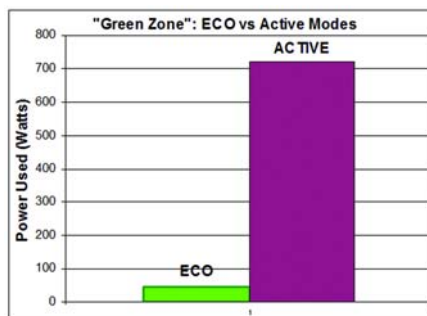
PERFORMANCE RATINGS

| | |
|---------------------------|---------------|
| Cooling (Traditional) | 1610 BTU/HR |
| Cooling (Din 3168) | 472 WATTS |
| Cooling COP (at L35 L35) | 0.66 |
| Heating (Traditional) | > 1610 BTU/HR |
| Heating (Din 3168) | > 472 WATTS |
| Heating COP | > 1.02 |
| Heat Exchanger (ECO-Mode) | 12.5 W/°C |



INCLUDES

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



250 VDC configuration for crane applications available

CONFIGURATIONS

| MODEL | PART NUMBER | NOTES | TEMPERATURE CONTROL | ENVIRONMENT |
|--------------|--------------|--|---------------------|----------------------|
| FHP-2250 | 7-H5J6-0-000 | Cool only, industrial fans & power supply | TC-4F | NEMA-12, IP 52 |
| FHP-2250 | 7-H556-0-000 | Cool only, industrial fans & power supply | EXT* | NEMA-12, IP 52 |
| FHP-2250HC | 7-H5I6-1-000 | Heat/Cool, industrial fans & power supply | TC-7F | NEMA-12, IP 52 |
| FHP-2250HC | 7-H556-1-000 | Heat/Cool, industrial fans & power supply | EXT* | NEMA-12, IP 52 |
| FHP-2250XE | 7-H5J6-4-000 | Cool only, sealed hot side fans & power supply | TC-4F | NEMA-4/4X, IP 56 |
| FHP-2250XE | 7-H556-4-000 | Cool only, sealed hot side fans & power supply | EXT* | NEMA-4/4X, IP 56 |
| FHP-2250XEHC | 7-H5I6-5-000 | Heat/Cool, sealed hot side fans & power supply | TC-7F | NEMA-4/4X, IP 56 |
| FHP-2250XEHC | 7-H556-5-000 | Heat/Cool, sealed hot side fans & power supply | EXT* | NEMA-4/4X, IP 56 |
| FHP-2250X | 7-H5J6-2-000 | Cool only, Mil. grade hot side fans & power supply | TC-4F | NEMA-4X/Harsh, IP 56 |
| FHP-2250X | 7-H556-2-000 | Cool only, Mil. grade hot side fans & power supply | EXT* | NEMA-4X/Harsh, IP 56 |
| FHP-2250XHC | 7-H5I6-3-000 | Heat/Cool, Mil. grade hot side fans & power supply | TC-7F | NEMA-4X/Harsh, IP 56 |
| FHP-2250XHC | 7-H556-3-000 | 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

FHP-2250

MOUNTING STYLE

Flush Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

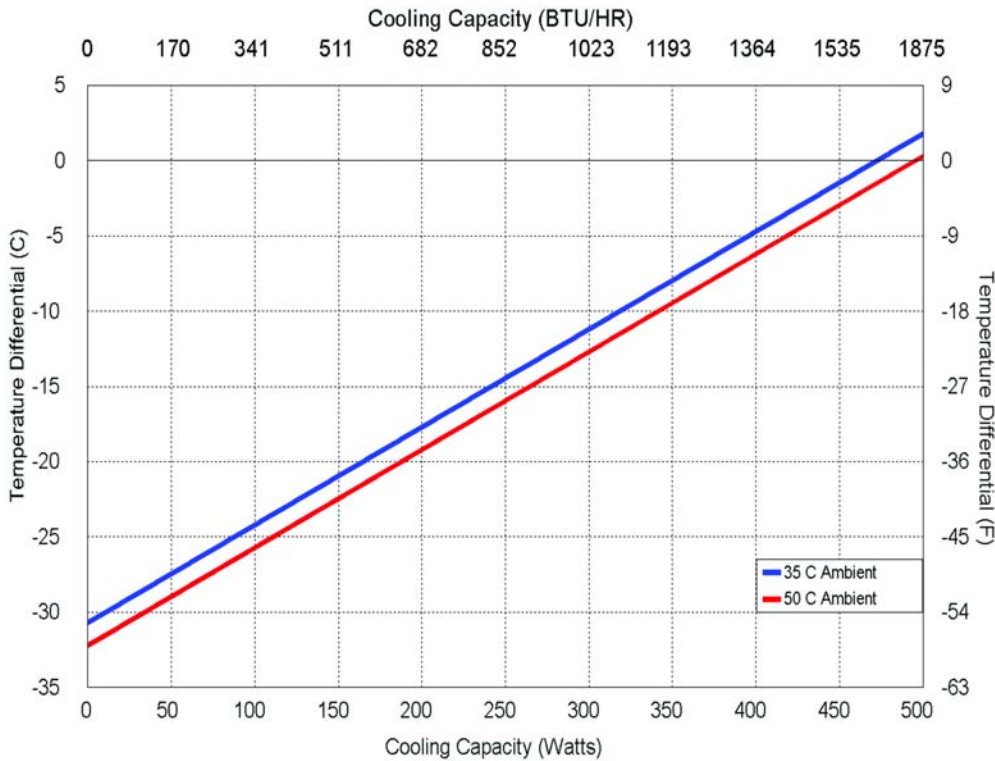
RATING (TRADITIONAL)

1610 BTU/hr @ 0 °F ΔT

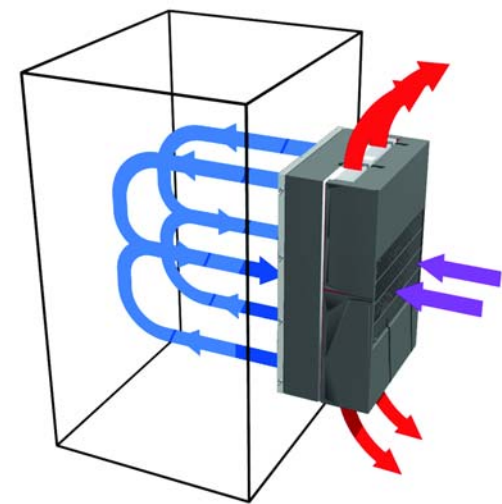
RATING (DIN 3168)

472 Watts L35 L35

265 Watts L35 L50

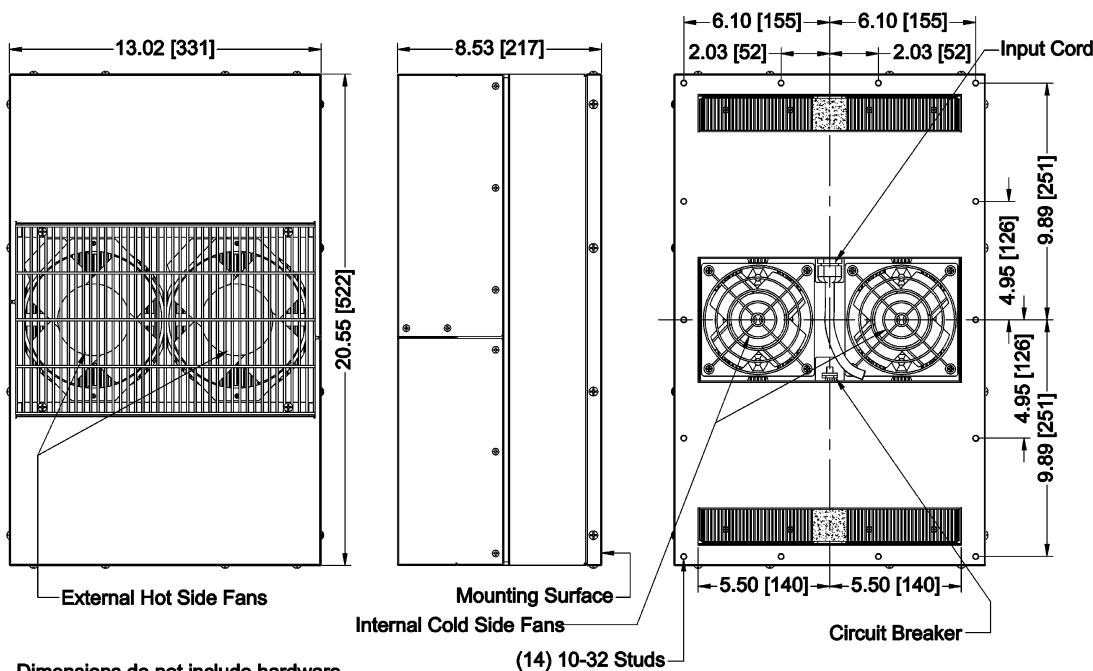


| Equation of line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$ | | |
|--|--------------------|--------------------|
| Ambient Temp | 35°C | 50°C |
| Enclosure Air | $y = .065x - 30.7$ | $y = .065x - 32.2$ |
| Cold Sink | $y = .048x - 30.7$ | $y = .048x - 32.2$ |



Air Flow Pattern

DIMENSIONS



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

MOUNTING CUTOUT DIMENSIONS

