



# FHP-2250

# Air Conditioner/Heat Exchanger

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

120 VAC Input  
High Efficiency  
1220 BTU/HR

## FEATURES

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

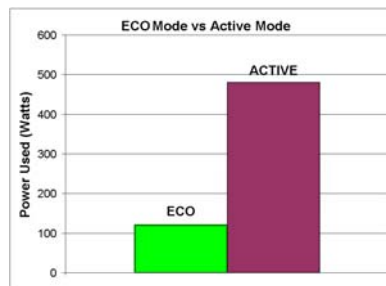
Voltage	120 VAC
Current, Active	3.6 AMPS
Current , ECO-Mode	1 AMP
Frequency	50/60 Hz

## PERFORMANCE RATINGS

Cooling (Traditional)	1220 BTU/HR
Cooling (Din 3168)	358 WATTS
Cooling COP (at L35 L35)	0.83
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
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-4/4X, IP 56
FHP-2250XE	7-H450-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4/4X, IP 56
FHP-2250XEHC	7-H4I0-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4/4X, IP 56
FHP-2250XEHC	7-H450-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4/4X, IP 56
FHP-2250X	7-H4J0-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X/Harsh, IP 56
FHP-2250X	7-H450-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X/Harsh, IP 56
FHP-2250XHC	7-H4I0-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X/Harsh, IP 56
FHP-2250XHC	7-H450-3-000	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

TECA

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

[www.thermoelectric.com](http://www.thermoelectric.com)

**FHP-2250****MOUNTING STYLE**

Flush Mounted

**ENVIRONMENTS SERVED**

NEMA-12 IP 52

NEMA-4,4X IP 56

**RATING (TRADITIONAL)**

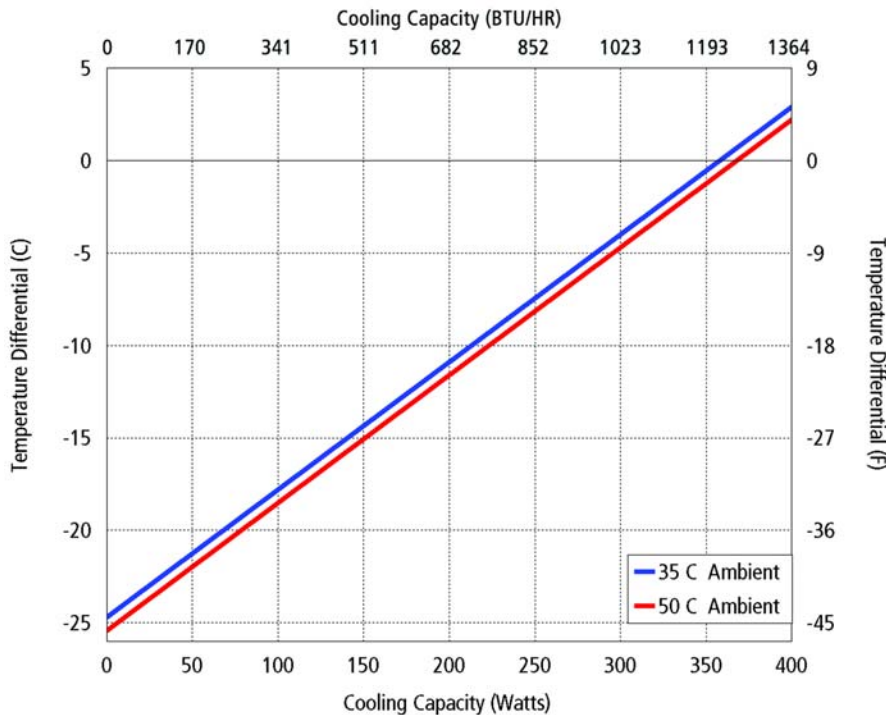
1220 BTU/hr @ 0 °F ΔT

1770 BTU/hr @ +20 °F ΔT

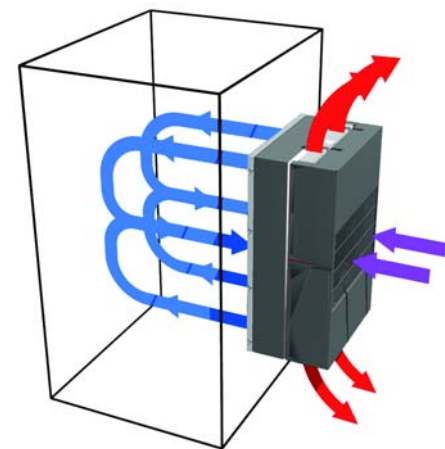
**RATING (DIN 3168)**

358 Watts L35 L35

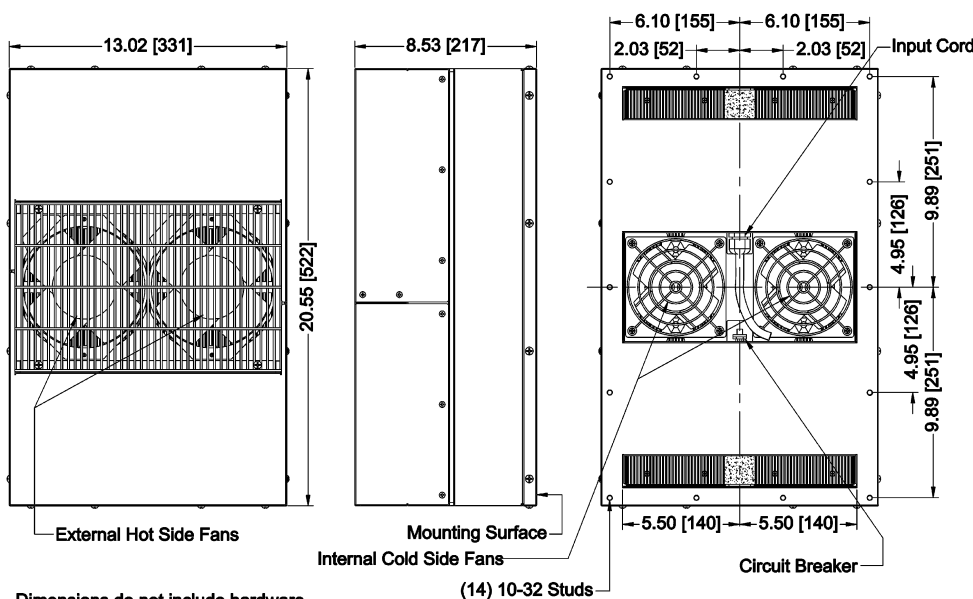
150 Watts L35 L50



Equation of line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Enclosure Air	$y = .069x - 24.7$	$y = .069x - 25.4$
Cold Sink	$y = .053x - 24.7$	$y = .053x - 25.4$



Air Flow Pattern

**DIMENSIONS**

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

**MOUNTING CUTOUT DIMENSIONS**