



# FHP-4250

# Air Conditioner/Heat Exchanger

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

48 VDC Input  
High Efficiency  
2500 BTU/HR



## FEATURES

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

## CONTROL TEMPERATURES

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

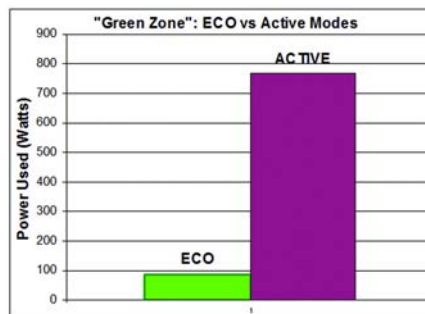
Voltage	48 VDC
Current, Active	16 AMPS
Current , ECO-Mode	1.8 AMP

## PERFORMANCE RATINGS

Cooling (Traditional)	2500 BTU/HR
Cooling (Din 3168)	733 WATTS
Cooling COP (at L35 L35)	0.95
Heating (Traditional)	> 2500 BTU/HR
Heating (Din 3168)	> 733 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	30 W/°C

## INCLUDES

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



250 VDC configuration for crane applications available

## CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-4250	7-J4J6-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-4250	7-J456-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4250HC	7-J4I6-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-4250HC	7-J456-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4250XE	7-J4J6-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4/4X, IP 56
FHP-4250XE	7-J456-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4/4X, IP 56
FHP-4250XEHC	7-J4I6-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4/4X, IP 56
FHP-4250XEHC	7-J456-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4/4X, IP 56
FHP-4250X	7-J4J6-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X/Harsh, IP 56
FHP-4250X	7-J456-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X/Harsh, IP 56
FHP-4250XHC	7-J4I6-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X/Harsh, IP 56
FHP-4250XHC	7-J456-3-000	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

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## MOUNTING STYLE

Flush Mounted

## ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

## RATING (TRADITIONAL)

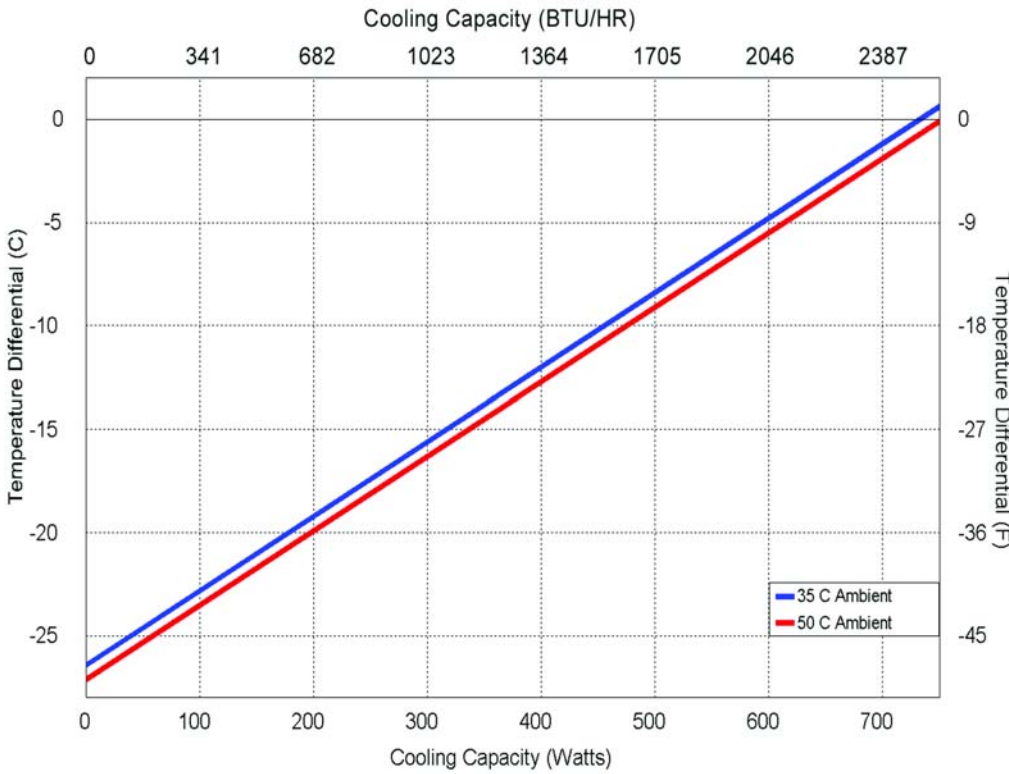
2500 BTU/hr @ 0 °F ΔT

## RATING (DIN 3168)

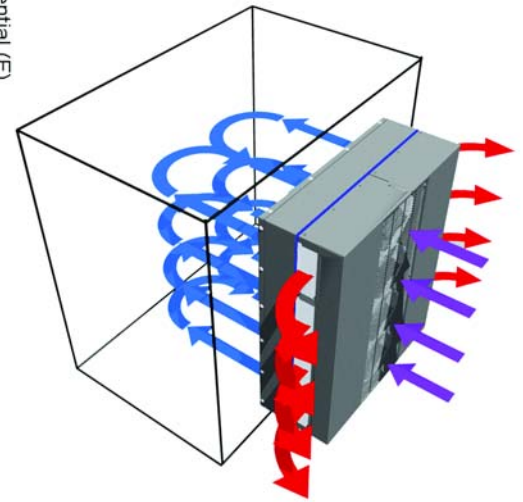
733 Watts L35 L35

336 Watts L35 L50

## PERFORMANCE CURVE

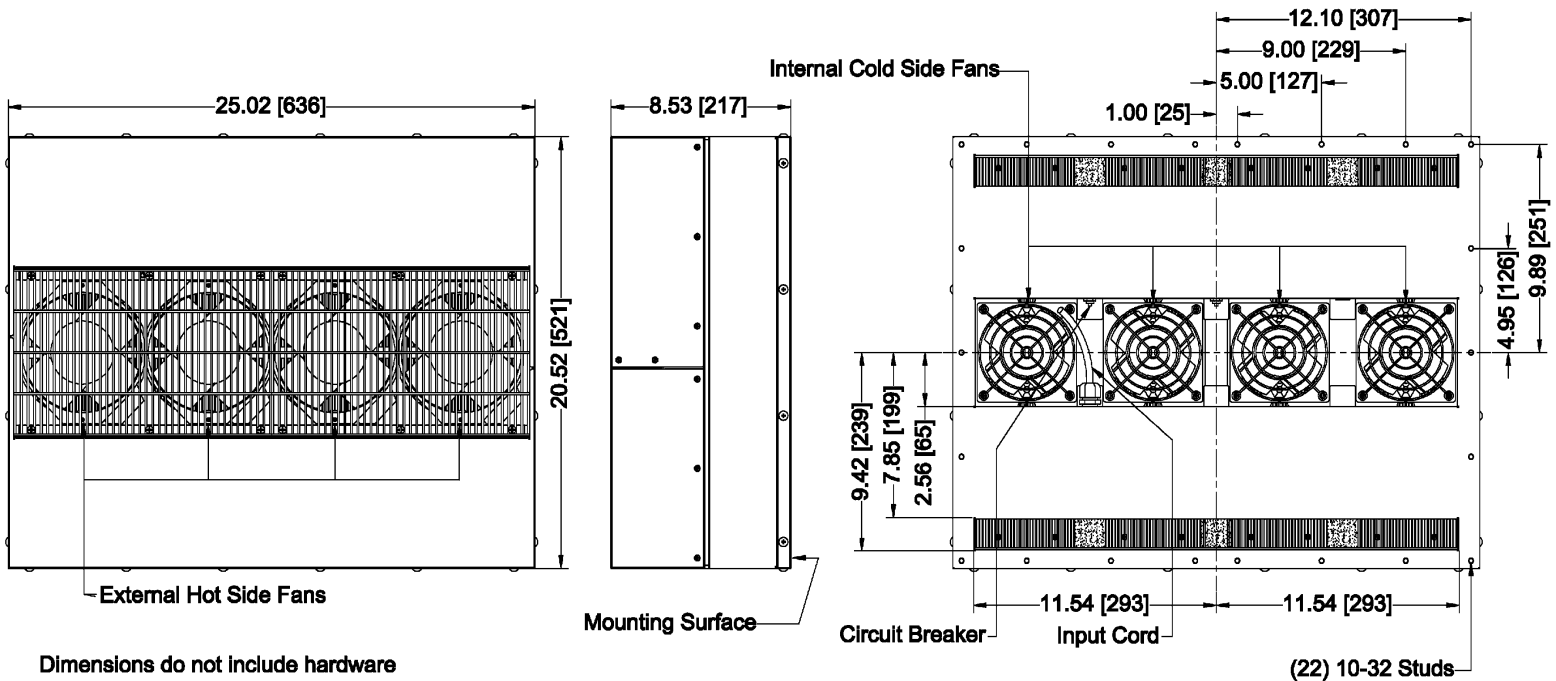


Equation of line: $y = \Delta T(^{\circ}C)$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Enclosure Air	$y = .036x - 26.4$	$y = .036x - 27.1$
Cold Sink	$y = .028x - 26.4$	$y = .028x - 27.1$



Air Flow Pattern

## DIMENSIONS



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