FHP-4250 | Air Conditioner/Heat Exchanger

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

48 VDC Input
High Capacity
3270 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, (-50/+70 °C XM versions)
Operating Enclosure	-10/+60 °C, (-46/+65 °C XM versions)

INCLUDES

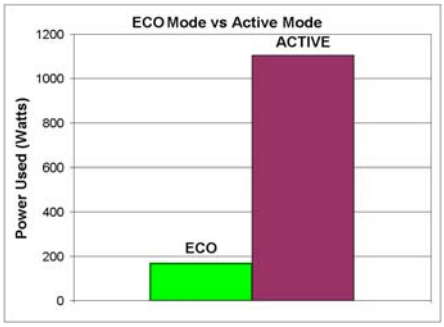
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input leads
- Circuit breaker

POWER INPUTS

Voltage	48 VDC
Current, Active	32 AMPS
Current , ECO-Mode	1.8 AMP

PERFORMANCE RATINGS

Cooling (Traditional)	3270 BTU/HR
Cooling (Din 3168)	959 WATTS
Cooling COP (at L35 L35)	0.62
Heating (Traditional)	> 3270 BTU/HR
Heating (Din 3168)	> 959 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	30 W/°C



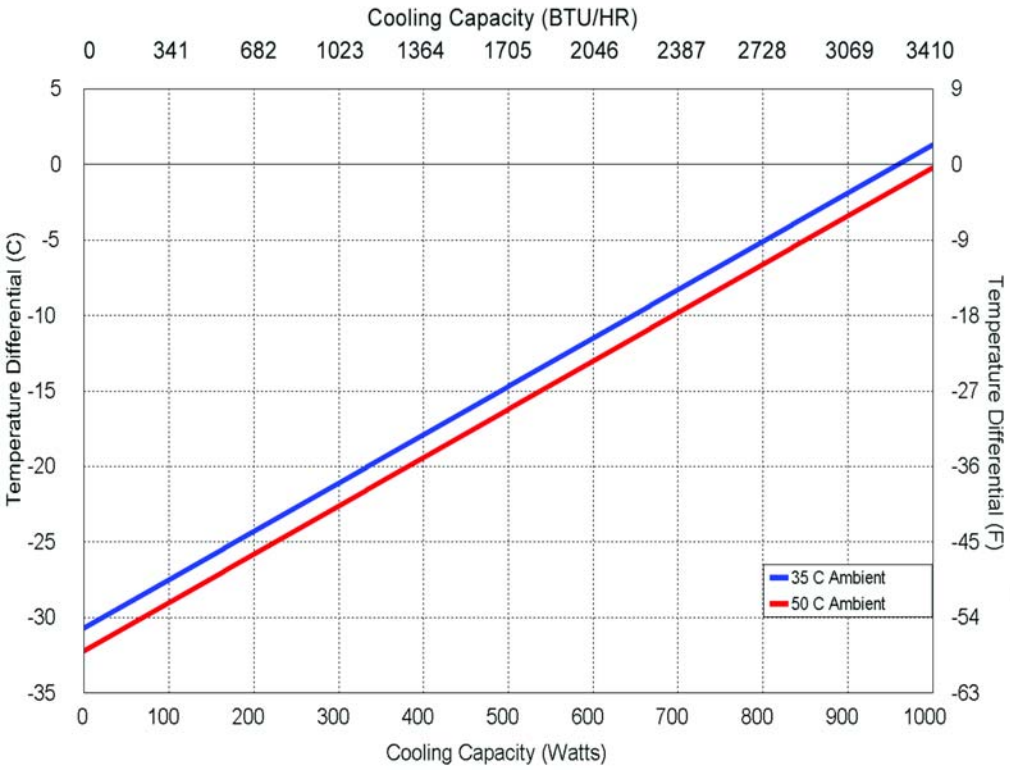
250 VDC configuration for crane applications available

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-4250	7-J5J6-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
FHP-4250	7-J556-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
FHP-4250HC	7-J5I6-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
FHP-4250HC	7-J556-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
FHP-4250XE	7-J5J6-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4/4X, IP 56
FHP-4250XE	7-J556-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
FHP-4250XEHC	7-J5I6-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4/4X, IP 56
FHP-4250XEHC	7-J556-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
FHP-4250X	7-J5J6-2-000	Cool only, Mil. grade hot side fans	TC-4F	NEMA-4X/Harsh, IP 56
FHP-4250X	7-J556-2-000	Cool only, Mil. grade hot side fans	EXT*	NEMA-4X/Harsh, IP 56
FHP-4250XHC	7-J5I6-3-000	Heat/Cool, Mil. grade hot side fans	TC-7F	NEMA-4X/Harsh, IP 56
FHP-4250XHC	7-J556-3-000	Heat/Cool, Mil. grade hot side fans	EXT*	NEMA-4X/Harsh, IP 56
FHP-4250XMHC	7-J5I6-3-001	Heat/Cool, Mil. grade hot & cold side fans	TC-7F	NEMA-4X/Harsh, IP 56

FHP-4250

PERFORMANCE CURVE



Equation of line: y=ΔT(°C) x=Capacity (Watts)		
Ambient Temp	**35°C**	**50°C**
Enclosure Air	y=.032x-30.7	y=.032x-32.2
Cold Sink	y=.024x-30.7	y=.024x-32.2

MOUNTING STYLE

Flush Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

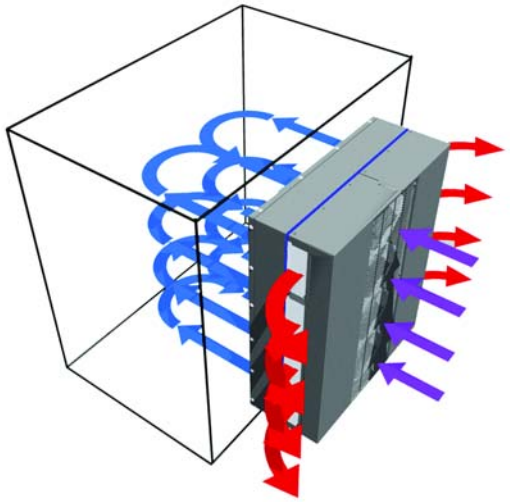
RATING (TRADITIONAL)

3270 BTU/hr @ 0 °F ΔT

RATING (DIN 3168)

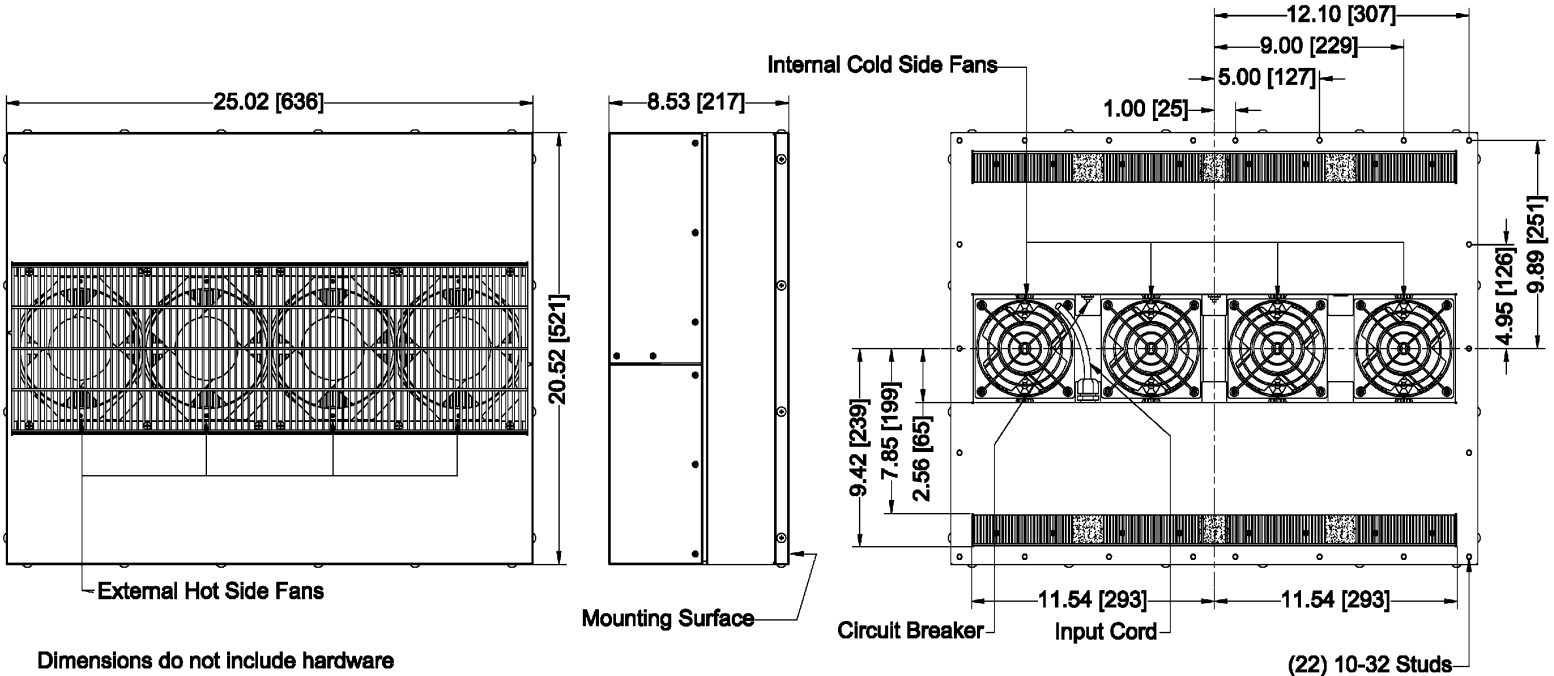
959 Watts L35 L35

490 Watts L35 L50



Air Flow Pattern

DIMENSIONS



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