AHP-2250 | Air Conditioner/Heat Exchanger

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

48 VDC Input
High Capacity
1820 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
- Compact
- Increased efficiency at higher ambients by as much as 10%
- Virtually maintenance free
- No compressor
- Environmentaly friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 60 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 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	1820 BTU/HR
Cooling (Din 3168)	534 WATTS
Cooling COP (at L35 L35)	0.74
Heating (Traditional)	> 1820 BTU/HR
Heating (Din 3168)	> 534 WATTS
Heating COP	1.16
Heat Exchanger (ECO-Mode)	12.5 W/°C

INCLUDES

- Power input leads
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
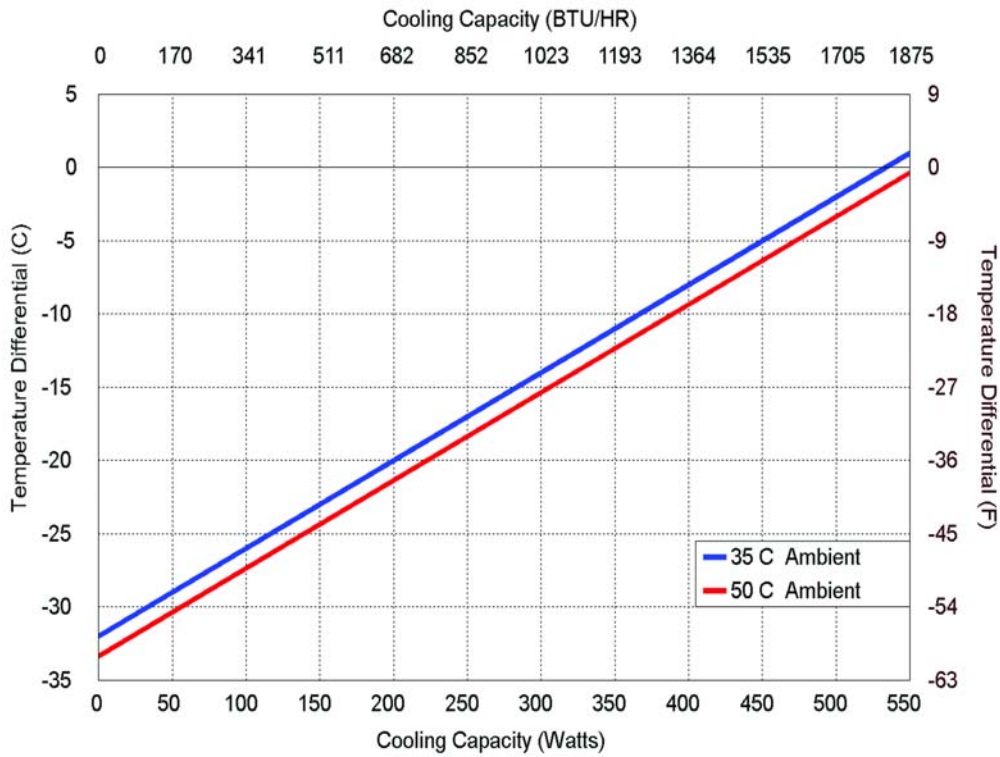- Mounting hardware
- Circuit breaker
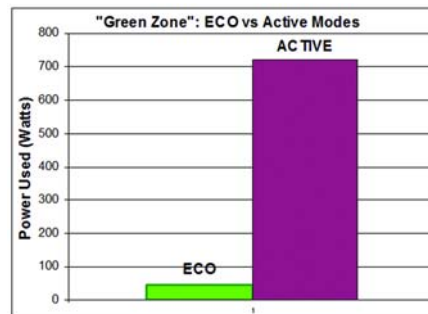
250 VDC configuration for crane applications available

CONFIGURATIONS

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

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

PERFORMANCE CURVE

MOUNTING STYLE
Through Mounted

ENVIRONMENTS SERVED
NEMA-12   IP 52
NEMA-4,4X   IP 56

RATING (TRADITIONAL)
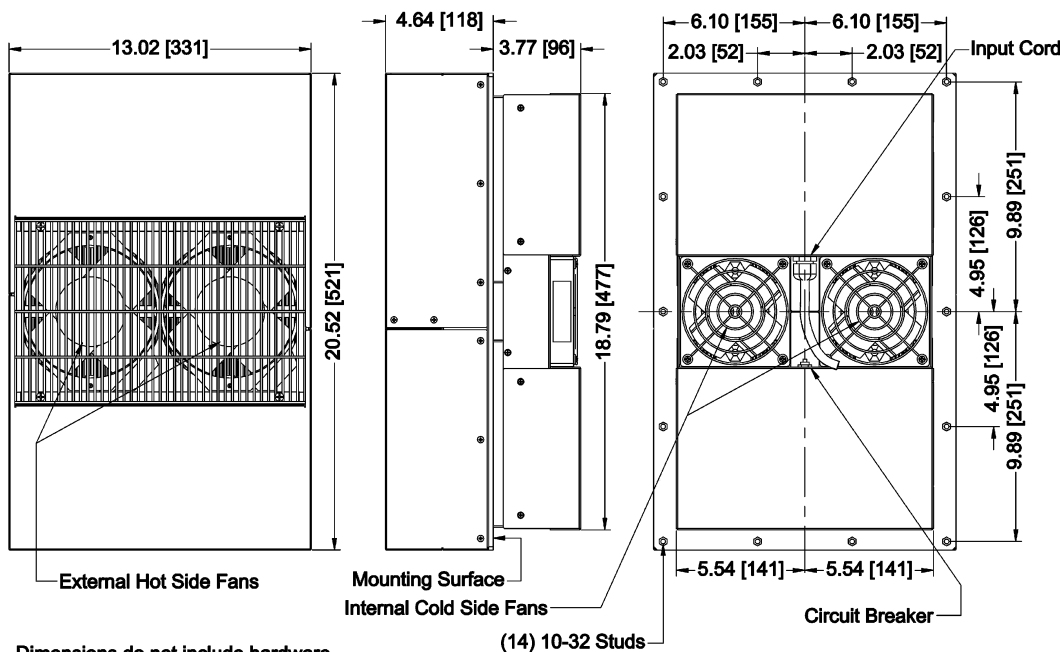1820 BTU/hr @ 0 °F ΔT

RATING (DIN 3168)
534 Watts L35 L35
280 Watts L35 L50

Cooling Capacity (BTU/HR)

- 35 C Ambient
- 50 C Ambient

Cooling Capacity (Watts)

Equation of line: y=ΔT(°C) x=Capacity (Watts)		
Ambient Temp	**35°C**	**50°C**
Enclosure Air	y=.06x-32	y=.06x-33.5
Cold Sink	y=.044x-32	y=.044x-33.5
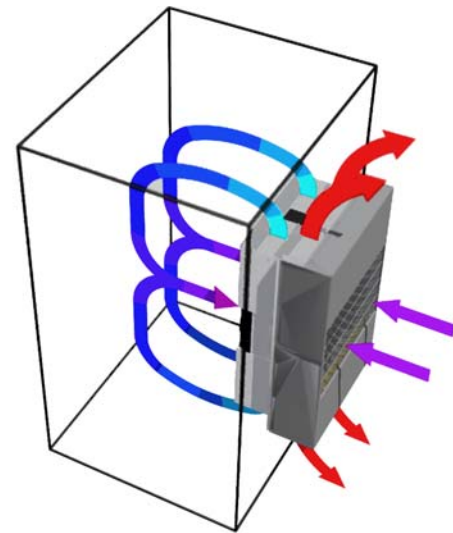
Air Flow Pattern

DIMENSIONS

13.02 [331]
4.64 [118]
3.77 [96]
6.10 [155]
6.10 [155]
2.03 [52]
2.03 [52]
Input Cord
20.52 [521]
18.79 [477]
9.89 [251]
4.95 [126]
4.95 [126]
9.89 [251]
5.54 [141]
5.54 [141]

External Hot Side Fans
Mounting Surface
Internal Cold Side Fans
(14) 10-32 Studs
Circuit Breaker

MOUNTING CUTOUT DIMENSIONS

6.10 [155]
6.10 [155]
2.03 [52]
2.03 [52]
9.45 [240]
9.45 [240]
4.95 [126]
4.95 [126]
9.89 [251]
9.89 [251]
5.59 [142]
5.59 [142]
(14) Ø0.218 [Ø6]

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