

# AHP-2259

# Air Conditioner/Heat Exchanger

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

100-240 VAC 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 ambient 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 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

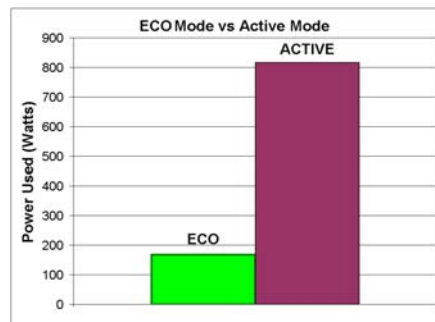
Input Voltage	100 - 240 VAC
Current, Active	8.4 - 3.5 AMPS
Alternate Input Voltage	127 - 374 VDC
Current , ECO-Mode	1 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	840 Watts

## PERFORMANCE RATINGS

Cooling (Traditional)	1820 BTU/HR
Cooling (Din 3168)	534 WATTS
Cooling COP (at L35 L35)	0.65
Heating (Traditional)	> 2780 BTU/HR
Heating (Din 3168)	> 816 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



200 - 277 VAC (254 - 420 VDC) Versions available

## CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-2259	0-H5JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-2259	0-H55B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
AHP-2259HC	0-H51B-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-2259HC	0-H55B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
AHP-2259XE	0-H5JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4/4X, IP 56
AHP-2259XE	0-H55B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H51B-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H55B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
AHP-2259XEHC†	0-H5LB-5-000	Heat/Cool, sealed hot side fans	TC-5300D	NEMA-4/4X, IP 56
AHP-2259HC†	0-H5LB-1-000	Heat/Cool, industrial fans	TC-5300D	NEMA-12, IP 52

† Precise temperature control model

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

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## MOUNTING STYLE

Through Mounted

## ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4/4X IP 56

## RATING (TRADITIONAL)

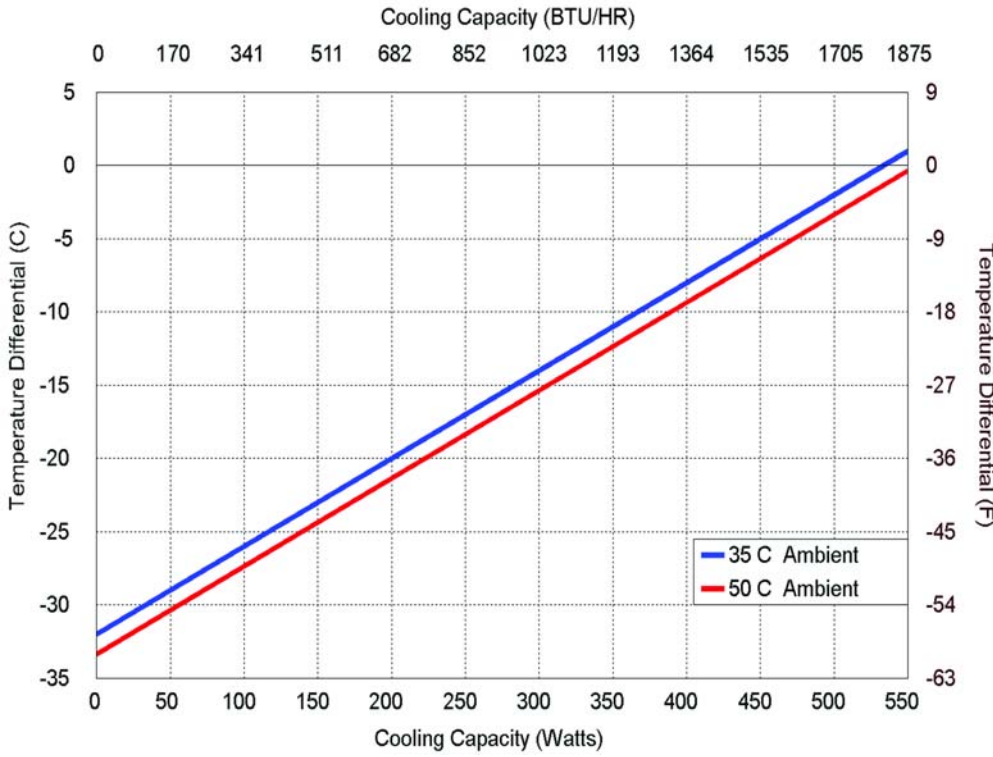
1820 BTU/hr @ 0 °F ΔT

## RATING (DIN 3168)

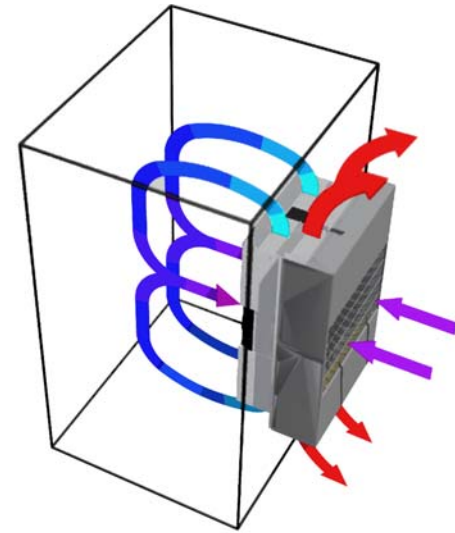
534 Watts L35 L35

280 Watts L35 L50

## PERFORMANCE CURVE

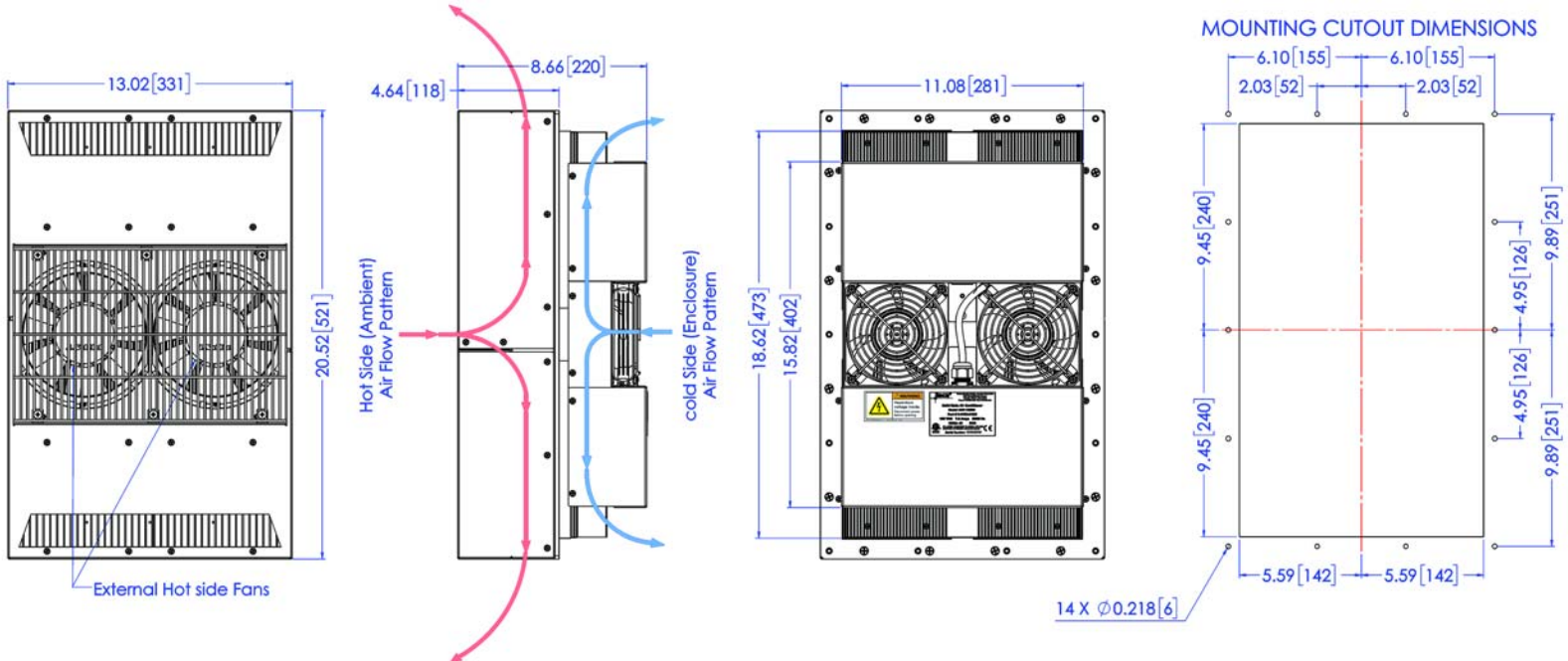


Equation of line: $y = \Delta T(^{\circ}C)$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Enclosure Air	$y = .06x - 32$	$y = .06x - 33.5$
Cold Sink	$y = .044x - 32$	$y = .044x - 33.5$



Air Flow Pattern

## DIMENSIONS



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