AHP-2259 | Air Conditioner/Heat Exchanger

green ZONE

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

100 - 240 VAC Input
High Efficiency
1330 BTU/HR

FEATURES

- High efficiency 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 55 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	4.5 - 1.8 AMPS
Alternate Input voltage	127 - 374 VDC
Current , ECO-Mode	1 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	320 Watts

PERFORMANCE RATINGS

Cooling (Traditional)	1330 BTU/HR
Cooling (Din 3168)	390 WATTS
Cooling COP (at L35 L35)	0.87
Heating (Traditional)	> 980 BTU/HR
Heating (Din 3168)	> 290 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	12.5 W/°C
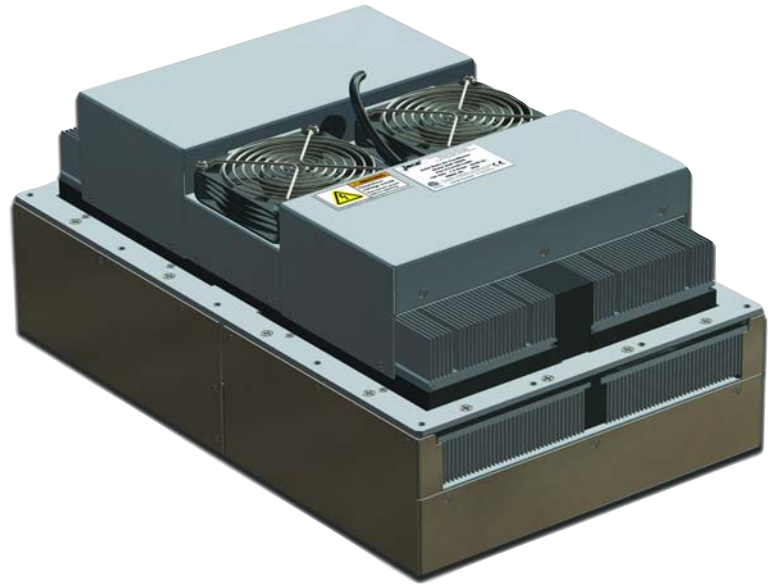
INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord

"Green Zone": ECO vs Active Modes
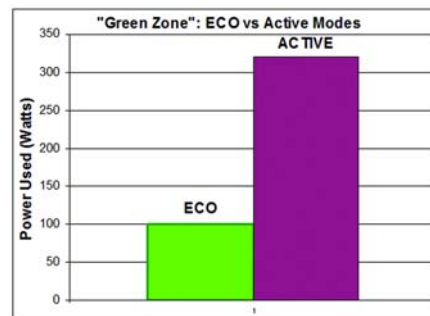
200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-2259	0-H4JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-2259	0-H45B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
AHP-2259HC	0-H4IB-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-2259HC	0-H45B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
AHP-2259XE	0-H4JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4/4X, IP 56
AHP-2259XE	0-H45B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H4IB-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H45B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
AHP-2259XEHC†	0-H4LB-5-000	Heat/Cool, sealed hot side fans	TC-5300D	NEMA-4/4X, IP 56
AHP-2259HC†	0-H4LB-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

MOUNTING STYLE
Through Mounted

ENVIRONMENTS SERVED

NEMA-12	IP 52
NEMA-4/4X	IP 56

RATING (TRADITIONAL)
1330 BTU/hr @ 0 °F ΔT

RATING (DIN 3168)
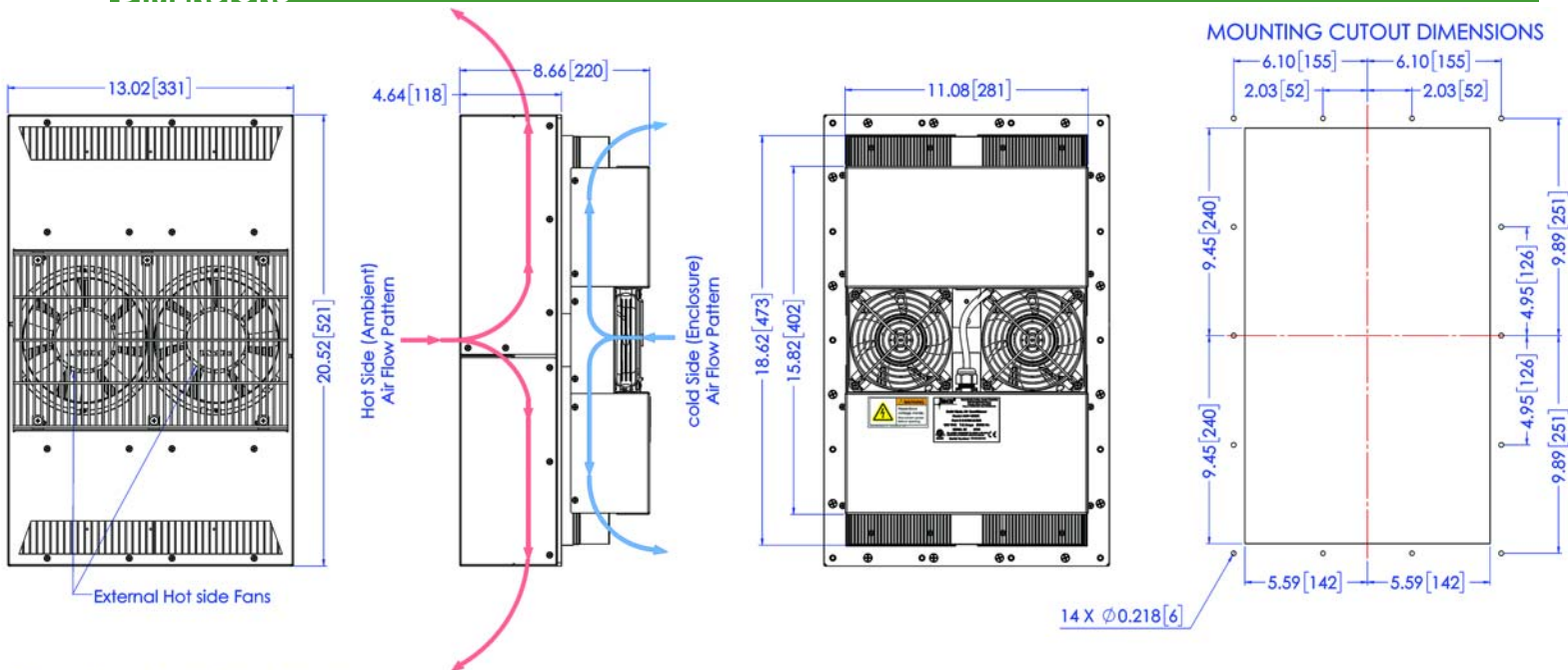390 Watts L35 L35
170 Watts L35 L50

PERFORMANCE CURVE

Cooling Capacity (BTU/HR)

Temperature Differential (C) / Temperature Differential (F)

- 35 C Ambient
- 50 C Ambient

Cooling Capacity (Watts)
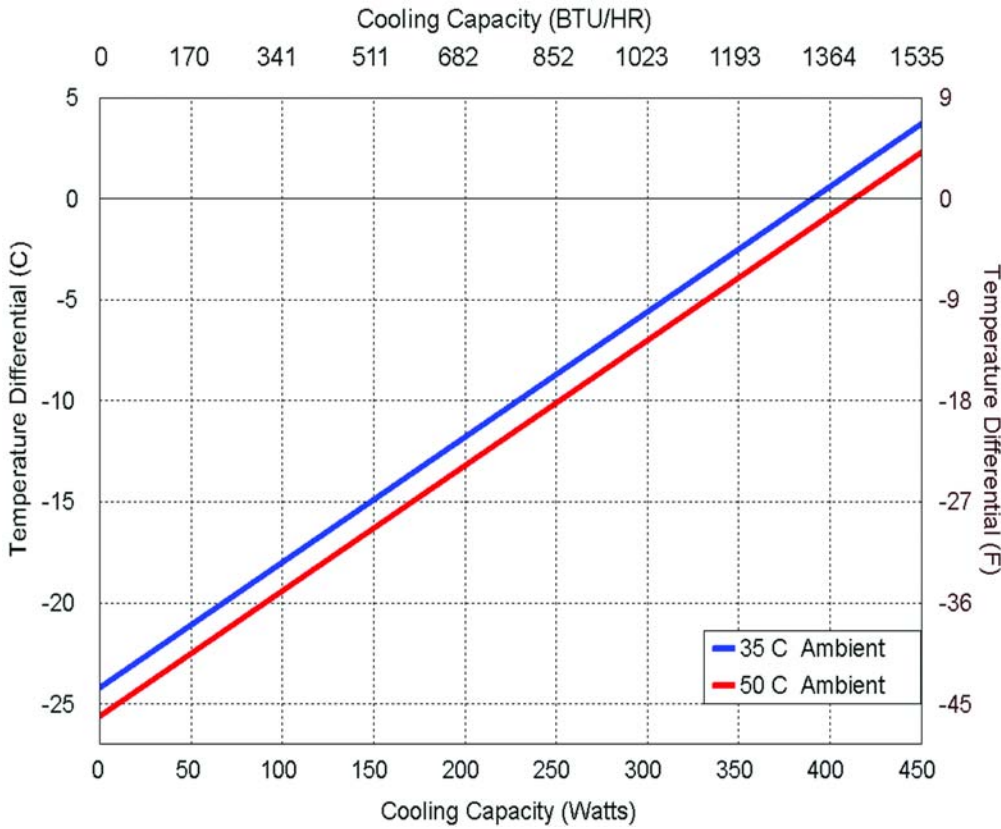
Equation of line: y=ΔT(°C) x=Capacity (Watts)		
Ambient Temp	**35°C**	**50°C**
Enclosure Air	y=.062x-24.2	y=.062x-25.6
Cold Sink	y=.046x-24.2	y=.046x-25.6
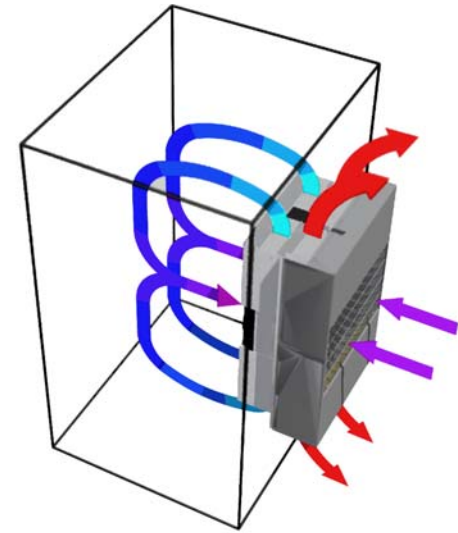
Air Flow Pattern

DIMENSIONS

13.02[331]

4.64[118]

8.66[220]

11.08[281]

20.52[521]

Hot Side (Ambient) Air Flow Pattern

cold Side (Enclosure) Air Flow Pattern

18.62[473]

15.82[402]

External Hot side Fans

MOUNTING CUTOUT DIMENSIONS

6.10[155]   6.10[155]
2.03[52]   2.03[52]

9.45[240]   9.89[251]
4.95[126]
4.95[126]
9.45[240]   9.89[251]

5.59[142]   5.59[142]

14 X Ø0.218[6]

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