AHP-3259 | Air Conditioner/Heat Exchanger

Air Cooled
Through Mounted
Nema-12, 4

100-240 VAC Input
High Capacity
2400 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 82 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	11 - 4.6 AMPS
Alternate Input Voltage	127 - 374 VDC
Current , ECO-Mode (@120 vac)	1.5 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	1100 Watts

## PERFORMANCE RATINGS

Cooling (Traditional)	2400 BTU/HR
Cooling (Din 3168)	705 WATTS
Cooling COP (at L35 L35)	0.64
Heating (Traditional)	> 1200 BTU/HR
Heating (Din 3168)	> 352 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

ECO Mode vs Active Mode
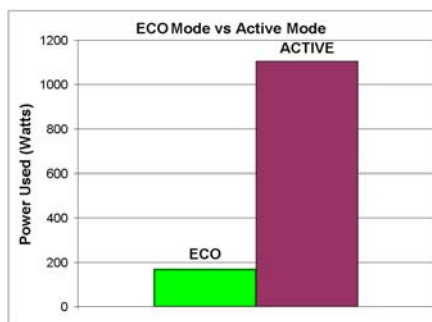
200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-3259	0-I5JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-3259	0-I55B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
AHP-3259HC	0-I5IB-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-3259HC	0-I55B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
AHP-3259XE	0-I5JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4, IP 56
AHP-3259XE	0-I55B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4, IP 56
AHP-3259XEHC	0-I5IB-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4, IP 56
AHP-3259XEHC	0-I55B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4, IP 56
AHP-3259XEHC†	0-I5LB-5-000	Heat/Cool, sealed hot side fans	TC-5300D	NEMA-4, IP56

† Precise temperature control model   * 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	IP 56

RATING (TRADITIONAL)

2400 BTU/hr @ 0 °F ΔT

RATING (DIN 3168)

705 Watts L35 L35

330 Watts L35 L50

Cooling Capacity (BTU/HR)

Cooling Capacity (Watts)

- 35 C Ambient
- 50 C Ambient
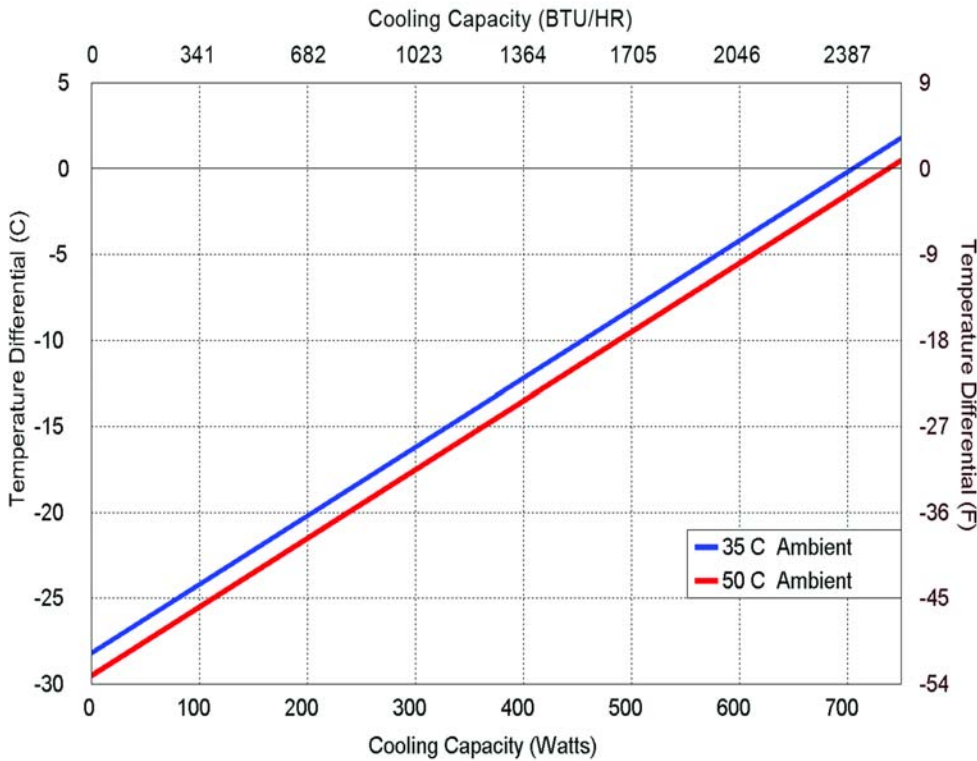
Equation of line: y=ΔT(°C) x=Capacity (Watts)		
Ambient Temp	**35°C**	**50°C**
Enclosure Air	y=.04x-28.2	y=.04x-29.5
Cold Sink	y=.029x-28.2	y=.029x-29.5
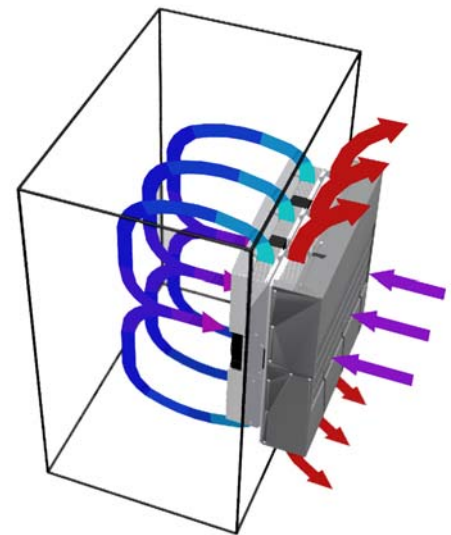
Air Flow Pattern

DIMENSIONS

19.02 [483]

8.66 [220]

4.64 [118]

20.52 [521]

Hot Side (Ambient) Air Flow Pattern

cold Side (Enclosure) Air Flow Pattern

17.08 [434]

18.67 [474]

15.82 [402]

External Hot side Fans

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

Internal Cold Side Fans

MOUNTING CUTOUT DIMENSIONS

9.10 [231]   9.10 [231]

6.00 [152]   6.00 [152]

2.00 [51]   2.00 [51]

9.45 [240]

9.45 [240]

4.95 [126]   4.95 [126]

9.89 [251]

9.89 [251]

8.59 [218]   8.59 [218]

18 X Ø0.218 [6]