

AHP-4259

Air Conditioner/Heat Exchanger

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

100 - 240 VAC Input
High Capacity
3410 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
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Weight 110 LBS.

CONTROL TEMPERATURES

Active Cooling	35°C
Heat Exchanger	25°C
Active Heating	10°C
Typical Hysteresis	5°C
Operating Ambient	-40/+65°C
Operating Enclosure	-10/+60°C

POWER INPUTS

Voltage	100 - 240 VAC
Current, Active	15 - 6.5 AMPS
Current, ECO-Mode	1.5 AMP
Frequency	47 - 63 Hz
Power Consumption	1500 Watts

INCLUDES

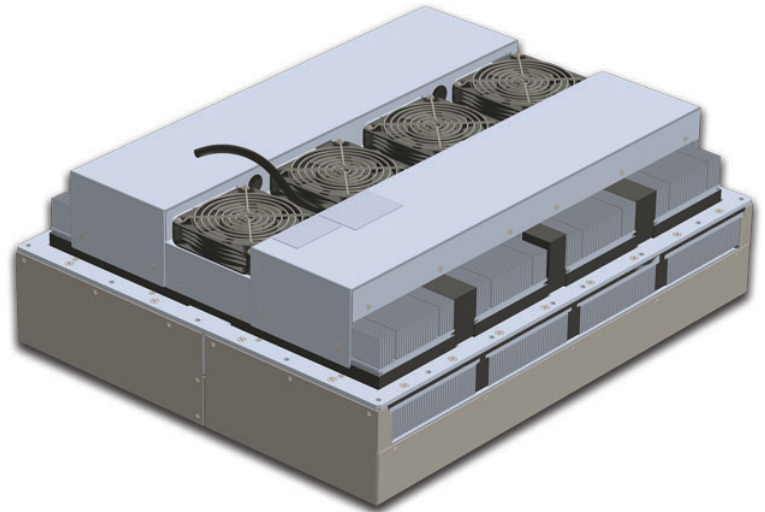
- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads
- Power saving heat exchanger mode (ECO-Mode)

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	External fan type	TEMP. CONTROL	ENVIRONMENT
AHP-4259	0-J5JB-0-000	Cool only	Industrial grade	TC-4F	NEMA-12, IP 52
AHP-4259	0-J55B-0-000	Cool only	Industrial grade	EXT*	NEMA-12, IP 52
AHP-4259HC	0-J5IB-1-000	Heat/Cool	Industrial grade	TC-7F	NEMA-12, IP 52
AHP-4259HC	0-J55B-1-000	Heat/Cool	Industrial grade	EXT*	NEMA-12, IP 52
AHP-4259HC	0-J5LB-1-000♣	Heat/Cool	Industrial grade	TC-5300	NEMA-12, IP 52
AHP-4259XE	0-J5JB-4-000	Cool only	Industrial grade, sealed	TC-4F	NEMA-4/4X, IP 56
AHP-4259XE	0-J55B-4-000	Cool only	Industrial grade, sealed	EXT*	NEMA-4/4X, IP 56
AHP-4259XEHC	0-J5IB-5-000	Heat/Cool	Industrial grade, sealed	TC-7F	NEMA-4/4X, IP 56
AHP-4259XEHC	0-J55B-5-000	Heat/Cool	Industrial grade, sealed	EXT*	NEMA-4/4X, IP 56
AHP-4259XEHC	0-J5LB-5-000♣	Heat/Cool	Industrial grade, sealed	TC-5300	NEMA-4/4X, IP 56
AHP-4259X	0-J5JB-2-000	Cool only	Military grade, sealed	TC-4F	NEMA-4X/Harsh Env. IP 56
AHP-4259X	0-J55B-2-000	Cool only	Military grade, sealed	EXT*	NEMA-4X/Harsh Env. IP 56
AHP-4259XHC	0-J5IB-3-000	Heat/Cool	Military grade, sealed	TC-7F	NEMA-4X/Harsh Env. IP 56
AHP-4259XHC	0-J55B-3-000	Heat/Cool	Military grade, sealed	EXT*	NEMA-4X/Harsh Env. IP 56

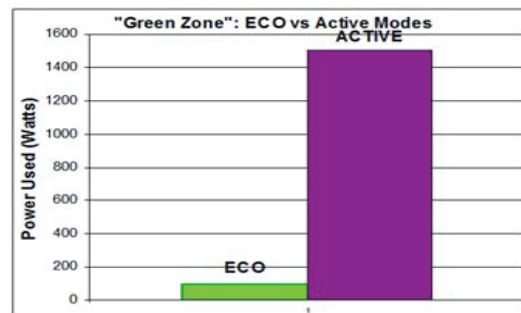
♣ Precise temperature control model

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



PERFORMANCE RATINGS

Cooling (Traditional)	3410 BTU/HR
Cooling (Din 3168)	1000 WATTS
Cooling COP (at L35 L35)	0.67
Heating (Traditional)	>5100 BTU/HR
Heating (Din 3168)	>1500 WATTS
Heating COP	>1.0
Heat Exchanger (Eco-Mode)	24 W/°C



Air Conditioner - Air Cooled

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MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

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

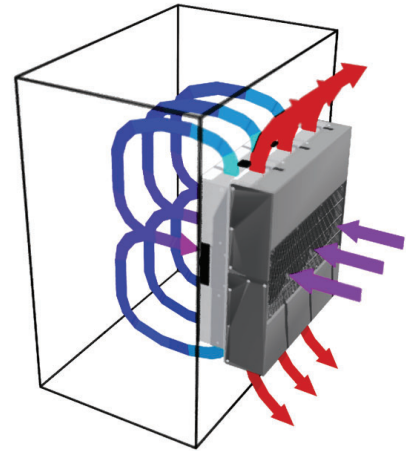
RATING (TRADITIONAL)

3410 BTU/hr @ 0°F ΔT

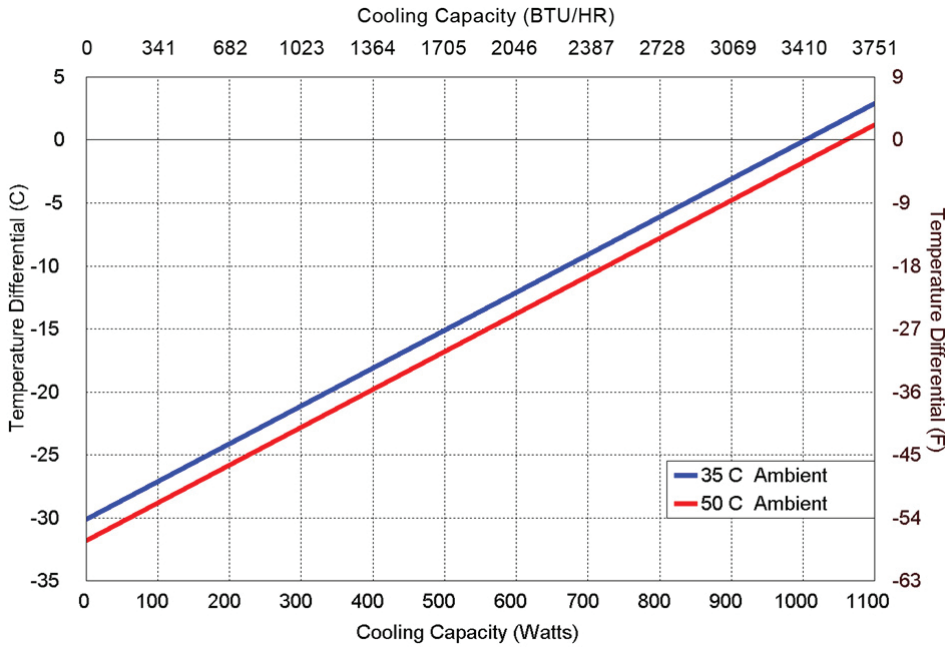
RATING (DIN 3168)

1000 Watts L35 L35
560 Watts L35 L50

AIR FLOW PATTERN



PERFORMANCE CURVE



EQUATION OF LINE

$y = \Delta T(^{\circ}C)$
 $x = \text{Capacity (Watts)}$

Ambient Temperature	35°C	50°C
Enclosure Air	$y = .03x - 30.1$	$y = .03x - 31.8$
Cold Sink	$y = .023x - 30.1$	$y = .023x - 31.8$

DIMENSIONS

