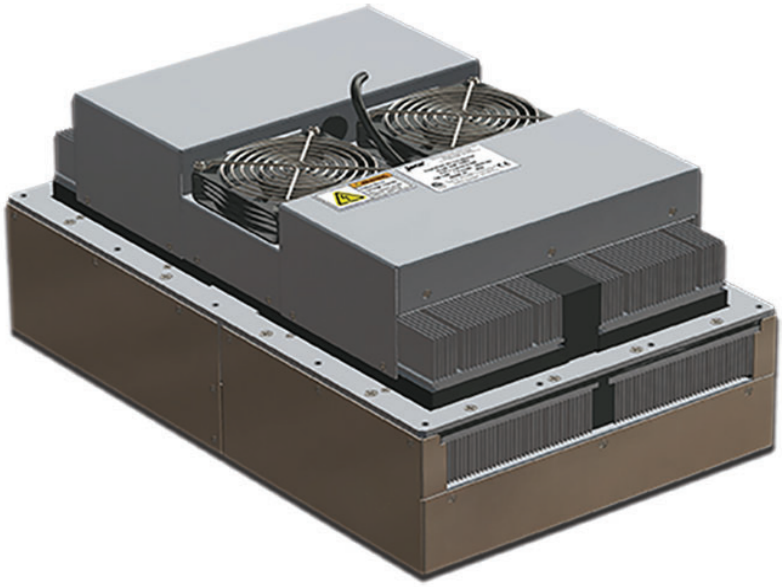
AHP-2259 | Air Conditioner/Heat Exchanger

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

POWER INPUTS

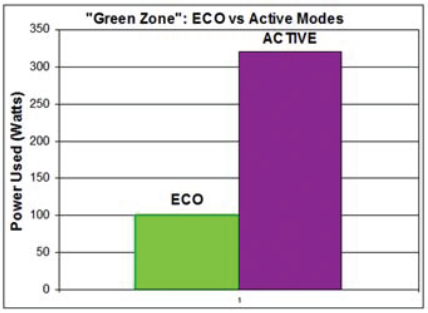
Voltage	100 - 240 VAC
Current, Active	4.5 - 1.8 AMPS
Current, ECO-Mode	1 AMP
Frequency	47 - 63 Hz
Power Consumption	320 Watts

INCLUDES

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

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



CONFIGURATIONS

MODEL	PART NUMBER	NOTES	External fan type	TEMP. CONTROL	ENVIRONMENT
AHP-2259	0-H4JB-0-000	Cool only	Industrial grade	TC-4F	NEMA-12, IP 52
AHP-2259	0-H45B-0-000	Cool only	Industrial grade	EXT*	NEMA-12, IP 52
AHP-2259HC	0-H4IB-1-000	Heat/Cool	Industrial grade	TC-7F	NEMA-12, IP 52
AHP-2259HC	0-H45B-1-000	Heat/Cool	Industrial grade	EXT*	NEMA-12, IP 52
AHP-2259HC	0-H4LB-1-000♣	Heat/Cool	Industrial grade	TC-5300	NEMA-12, IP 52
AHP-2259XE	0-H4JB-4-000	Cool only	Industrial grade, sealed	TC-4F	NEMA-4/4X, IP 56
AHP-2259XE	0-H45B-4-000	Cool only	Industrial grade, sealed	EXT*	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H4IB-5-000	Heat/Cool	Industrial grade, sealed	TC-7F	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H45B-5-000	Heat/Cool	Industrial grade, sealed	EXT*	NEMA-4/4X, IP 56
AHP-2259XEHC	0-H4LB-5-000♣	Heat/Cool	Industrial grade, sealed	TC-5300	NEMA-4/4X, IP 56
AHP-2259X	0-H4JB-2-000	Cool only	Military grade, sealed	TC-4F	NEMA-4X/Harsh Env. IP 56
AHP-2259X	0-H45B-2-000	Cool only	Military grade, sealed	EXT*	NEMA-4X/Harsh Env. IP 56
AHP-2259XHC	0-H4IB-3-000	Heat/Cool	Military grade, sealed	TC-7F	NEMA-4X/Harsh Env. IP 56
AHP-2259XHC	0-H45B-3-000	Heat/Cool	Military grade, sealed	EXT*	NEMA-4X/Harsh Env. IP 56

Full shock & vibration models available.

♣ Precise temperature control model

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

1-888-TECA-USA (832-2872)

teca®
ThermoElectric Cooling America Corporation
4048 W. Schubert Ave. Chicago, Illinois 60639

www.thermoelectric.com

Air Conditioner - Air Cooled

AHP-2259

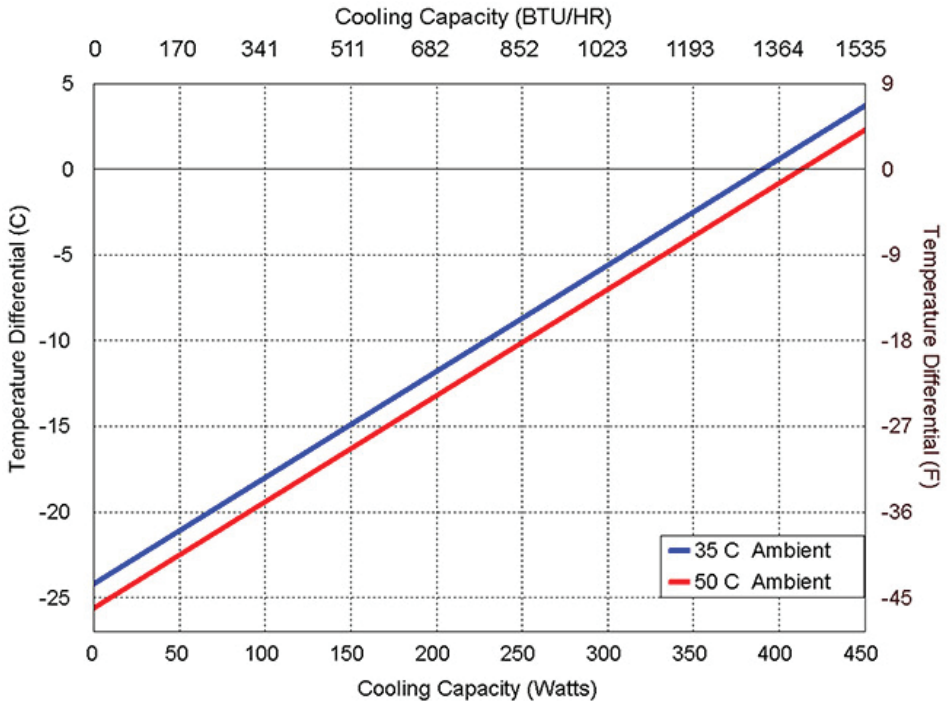
MOUNTING STYLE
Through Mounted

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

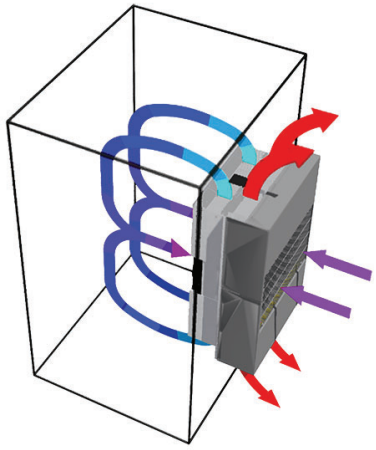


EQUATION OF LINE

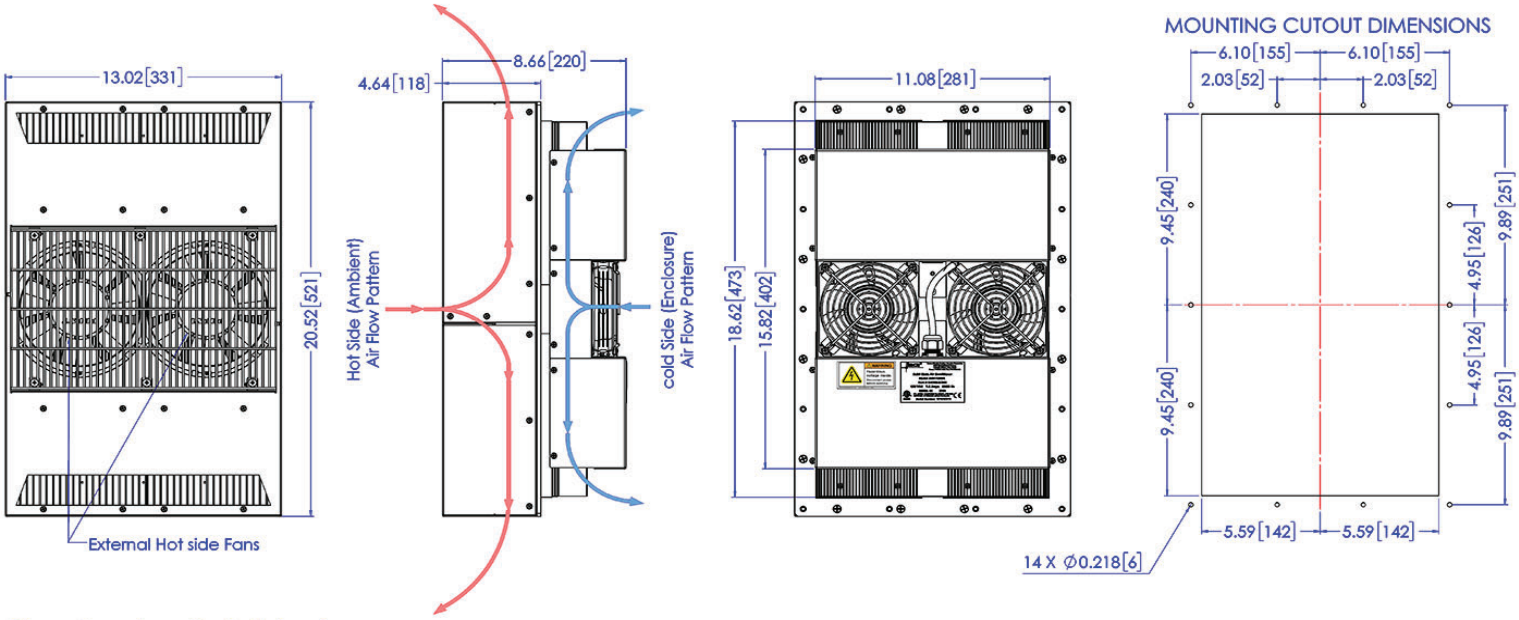
y = ΔT(°C)
x = Capacity (Watts)

Ambient Temperature	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



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