



FHP-2259

Air Conditioner/Heat Exchanger

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

100 - 240 VAC Input
High Efficiency
1300 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 60 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

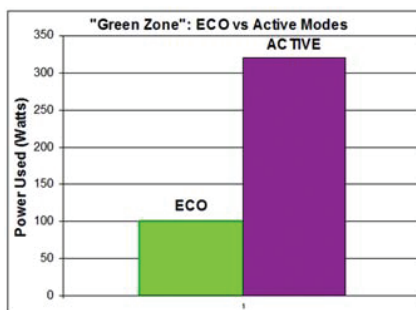
Voltage	100 - 240 VAC
Current, Active	4.5 - 1.8 AMPS
Current, ECO-Mode	1 AMP
Frequency	47 - 63 Hz
Power Consumption	320 Watts

INCLUDES

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

PERFORMANCE RATINGS

Cooling (Traditional)	1300 BTU/HR
Cooling (Din 3168)	381 WATTS
Cooling COP (at L35 L35)	0.85
Heating (Traditional)	>980 BTU/HR
Heating (Din 3168)	>290 WATTS
Heating COP	>1.0
Heat Exchanger (Eco-Mode)	12.5 W/°C



Full shock & vibration models available.

CONFIGURATIONS

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

♣ Precise temperature control model

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

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MOUNTING STYLE

Flush Mounted

ENVIRONMENTS SERVED

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

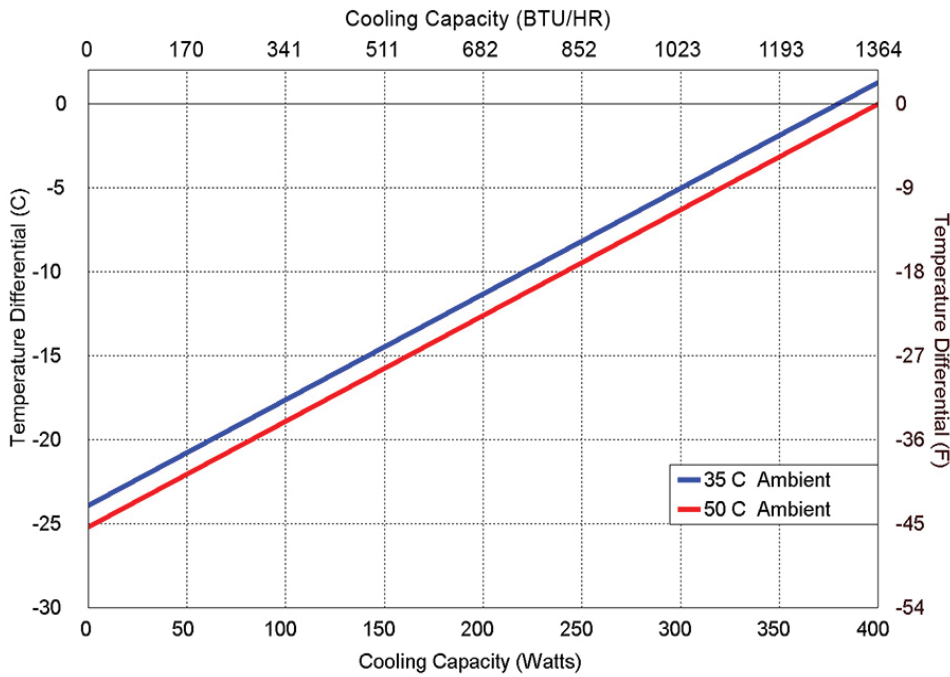
RATING (TRADITIONAL)

1300 BTU/hr @ 0°F ΔT

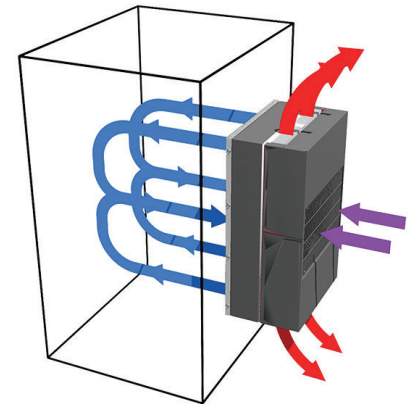
RATING (DIN 3168)

381 Watts L35 L35
162 Watts L35 L50

PERFORMANCE CURVE

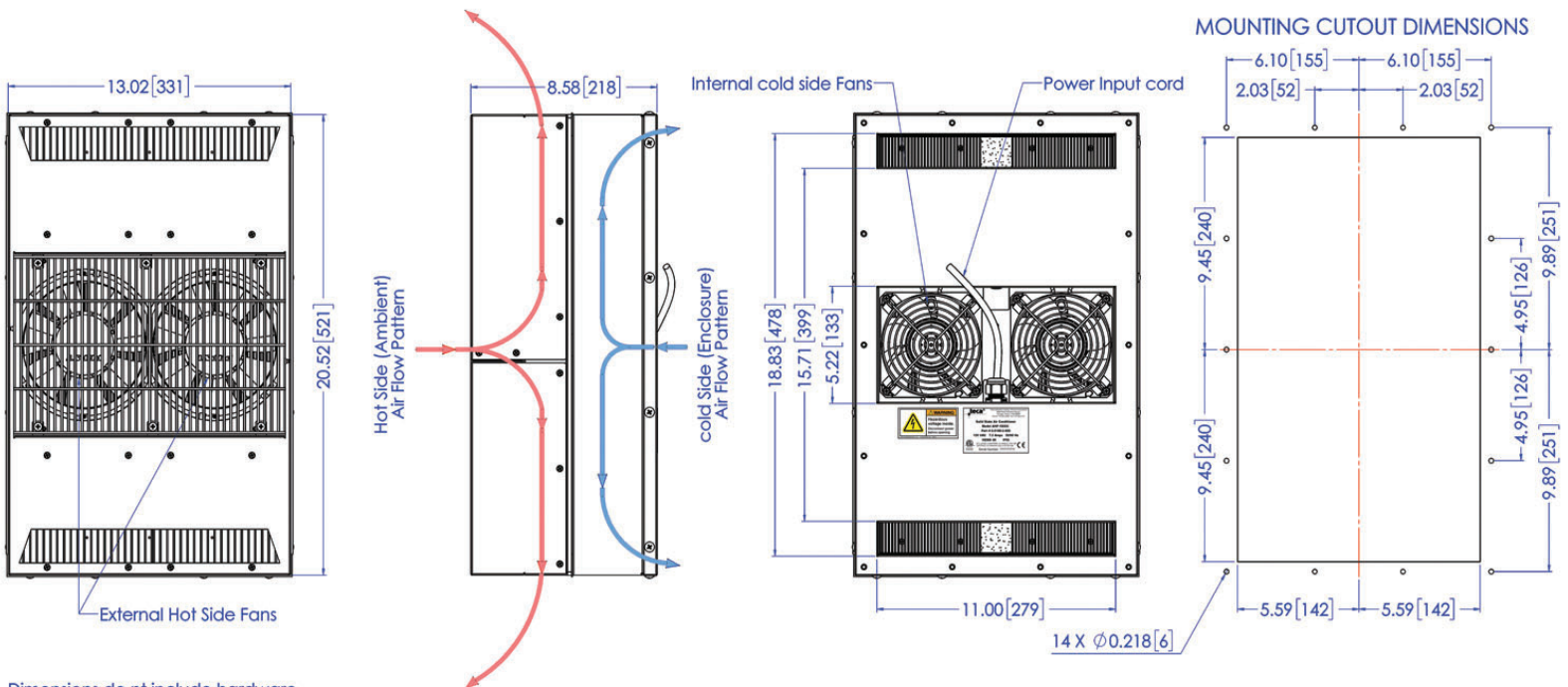


Equation of line: $y = \Delta T(^{\circ}C) \quad x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Enclosure Air	$y = .063x - 23.9$	$y = .063x - 25.2$
Cold Sink	$y = .047x - 23.9$	$y = .047x - 25.2$



Air Flow Pattern

DIMENSIONS



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