FHP-2259 | Air Conditioner/Heat Exchanger

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

100-240 VAC Input
High Capacity
1660 BTU/HR

FEATURES

- High capacity thermoelectric design
- Power saving air to air heat exchanger mode (ECO-Mode)
- Heavy duty full perimeter mounting
- No 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 66 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	8.4 - 3.5 AMPS
Alternate Input Voltage	127 - 374 VDC
Current , ECO-Mode	1 AMP
Frequency	47 - 63 / 440 Hz
Power Consumption	840 Watts

PERFORMANCE RATINGS

Cooling (Traditional)	1660 BTU/HR
Cooling (Din 3168)	486 WATTS
Cooling COP (at L35 L35)	0.58
Heating (Traditional)	> 2780 BTU/HR
Heating (Din 3168)	> 816 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
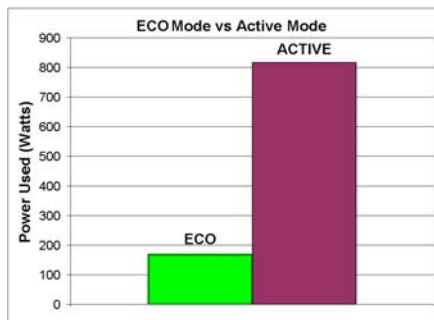
200 - 277 VAC (254 - 420 VDC) Versions available

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-2259	7-H5JB-0-000	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
FHP-2259	7-H55B-0-000	Cool only, industrial fans	EXT*	NEMA-12, IP 52
FHP-2259HC	7-H5IB-1-000	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
FHP-2259HC	7-H55B-1-000	Heat/Cool, industrial fans	EXT*	NEMA-12, IP 52
FHP-2259XE	7-H5JB-4-000	Cool only, sealed hot side fans	TC-4F	NEMA-4/4X, IP 56
FHP-2259XE	7-H55B-4-000	Cool only, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
FHP-2259XEHC	7-H5IB-5-000	Heat/Cool, sealed hot side fans	TC-7F	NEMA-4/4X, IP 56
FHP-2259XEHC	7-H55B-5-000	Heat/Cool, sealed hot side fans	EXT*	NEMA-4/4X, IP 56
FHP-2259XEHC†	7-H5LB-5-000	Heat/Cool, sealed hot side fans	TC-5300D	NEMA-4/4X, IP 56
FHP-2259HC†	7-H5LB-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

PERFORMANCE CURVE

FHP-2259

MOUNTING STYLE
Flush Mounted

ENVIRONMENTS SERVED

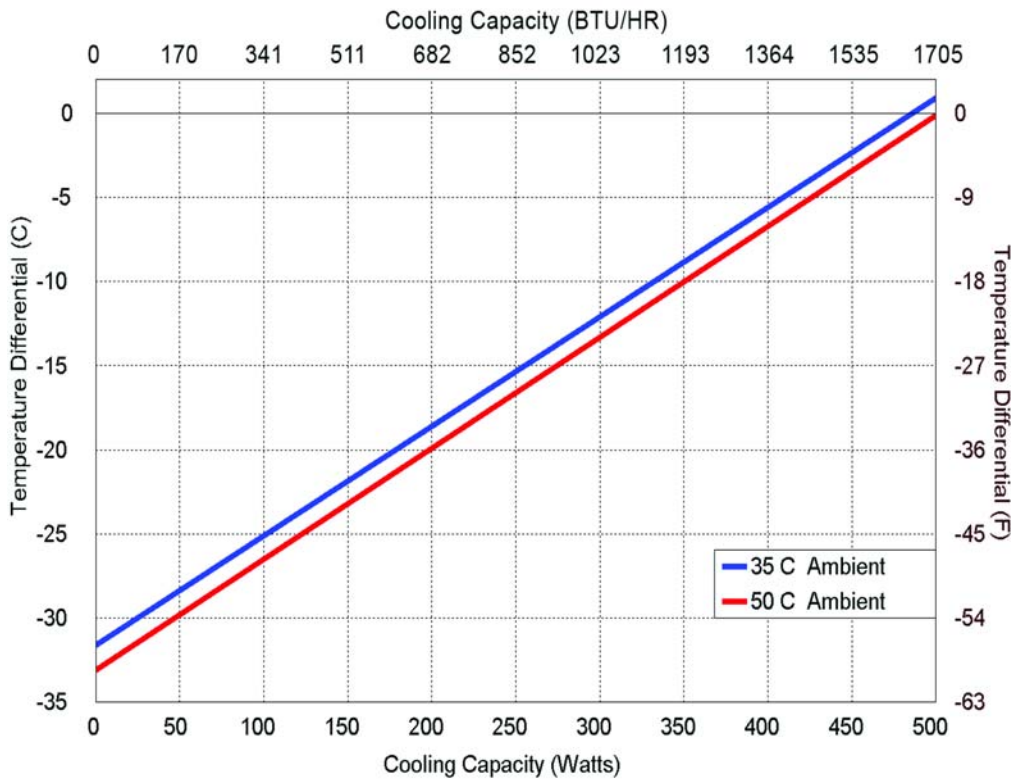|	
NEMA-12	IP 52
NEMA-4/4X	IP 56

RATING (TRADITIONAL)
1660 BTU/hr @ 0 °F ΔT

RATING (DIN 3168)
486 Watts L35 L35
276 Watts L35 L50

Air Flow Pattern

Equation of line: y=ΔT(°C) x=Capacity (Watts)		
Ambient Temp	**35°C**	**50°C**
Enclosure Air	y=.065x-31.6	y=.065x-33
Cold Sink	y=.048x-31.6	y=.048x-33

DIMENSIONS

13.02[331]
20.52[521]
External Hot Side Fans

8.58[218]
Hot Side (Ambient) Air Flow Pattern
cold Side (Enclosure) Air Flow Pattern

Internal cold side Fans
Power Input cord
18.83[478]
15.71[399]
5.22[133]
11.00[279]
14 X ∅0.218[6]

MOUNTING CUTOUT DIMENSIONS
6.10[155]   6.10[155]
2.03[52]   2.03[52]
9.45[240]
9.45[240]
4.95[126]
4.95[126]
9.89[251]
9.89[251]
5.59[142]   5.59[142]
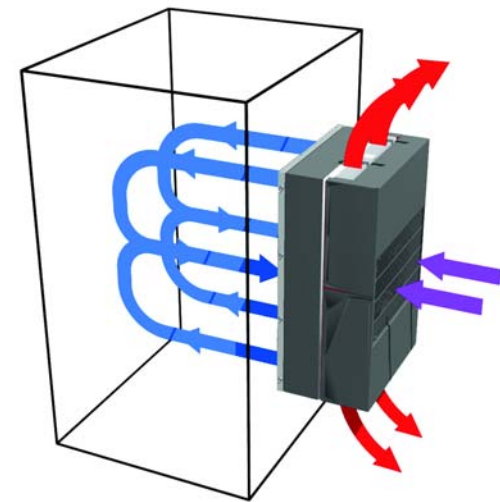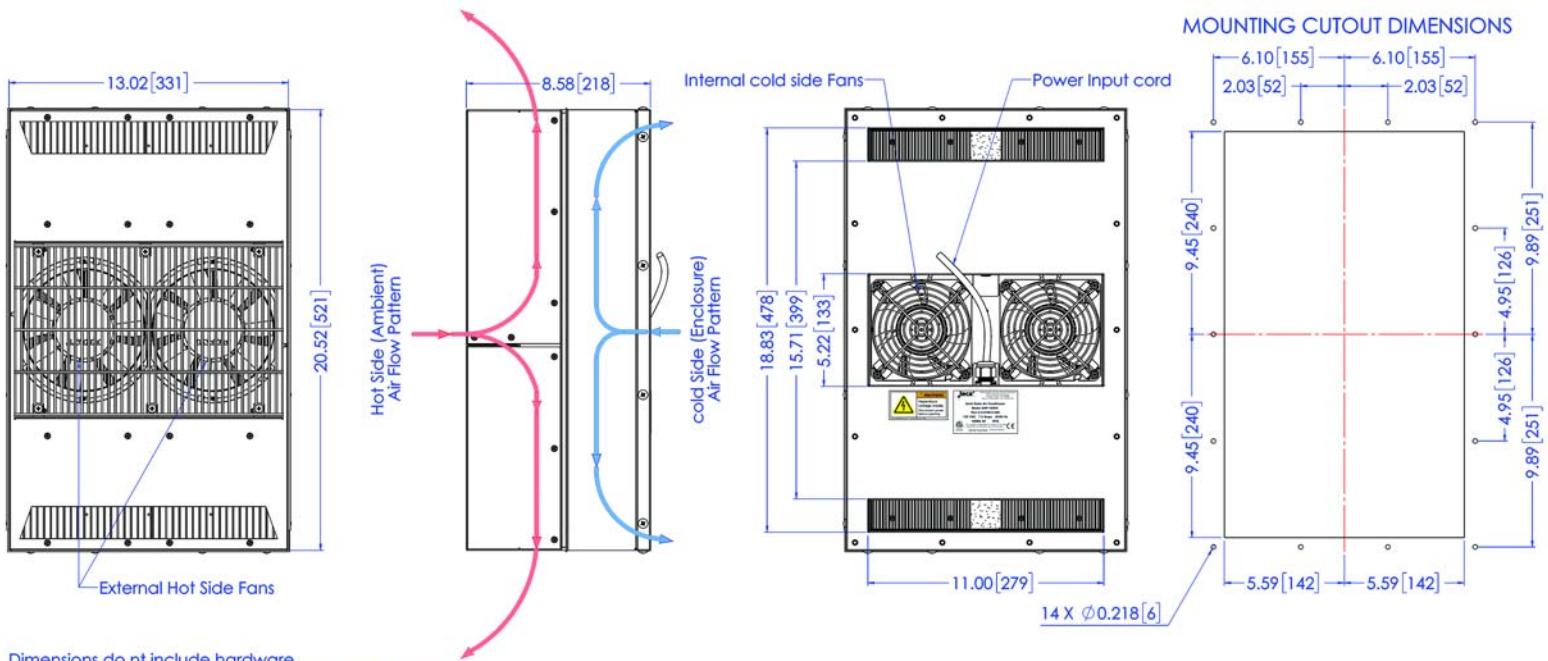
Dimensions do nt include hardware
Mounting gasket and hardware included but not shown
Dimensions: Inches [Millimeters]