



# FHP-4252

# Air Conditioner/Heat Exchanger

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

240 VAC Input  
High Efficiency  
2615 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
- Increased efficiency at higher ambients
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Agency approvals:
- UL 60335-1 & 2-40; CSA C22.2#60335-1 & 2-40; IEC 60335-1 & 2-40

## 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

Voltage	240 VAC
Current, Active	4.0 AMPS
Current , ECO-Mode	0.9 AMP
Frequency	50/60 Hz

## PERFORMANCE RATINGS

Cooling (Traditional)	2615 BTU/HR
Cooling (Din 3168)	767 WATTS
Cooling COP (at L35 L35)	0.80
Heating (Traditional)	> 3270 BTU/HR
Heating (Din 3168)	> 960 WATTS
Heating COP	> 1.0
Heat Exchanger (ECO-Mode)	30 W/°C

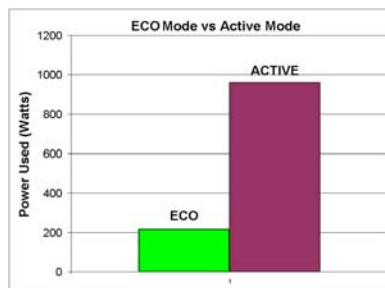
## CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
FHP-4252	7-J4J2-0-000	Cool only, industrial fans & power supply	TC-4F	NEMA-12, IP 52
FHP-4252	7-J452-0-000	Cool only, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4252HC	7-J4I2-1-000	Heat/Cool, industrial fans & power supply	TC-7F	NEMA-12, IP 52
FHP-4252HC	7-J452-1-000	Heat/Cool, industrial fans & power supply	EXT*	NEMA-12, IP 52
FHP-4252XE	7-J4J2-4-000	Cool only, sealed hot side fans & power supply	TC-4F	NEMA-4/4X, IP 56
FHP-4252XE	7-J452-4-000	Cool only, sealed hot side fans & power supply	EXT*	NEMA-4/4X, IP 56
FHP-4252XEHC	7-J4I2-5-000	Heat/Cool, sealed hot side fans & power supply	TC-7F	NEMA-4/4X, IP 56
FHP-4252XEHC	7-J452-5-000	Heat/Cool, sealed hot side fans & power supply	EXT*	NEMA-4/4X, IP 56
FHP-4252X	7-J4J2-2-000	Cool only, Mil. grade hot side fans & power supply	TC-4F	NEMA-4X/Harsh, IP 56
FHP-4252X	7-J452-2-000	Cool only, Mil. grade hot side fans & power supply	EXT*	NEMA-4X/Harsh, IP 56
FHP-4252XHC	7-J4I2-3-000	Heat/Cool, Mil. grade hot side fans & power supply	TC-7F	NEMA-4X/Harsh, IP 56
FHP-4252XHC	7-J452-3-000	Heat/Cool, Mil. grade hot side fans & power supply	EXT*	NEMA-4X/Harsh, IP 56

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

## INCLUDES

- Power supply
- Temperature controller
- Power saving heat exchanger mode (ECO-Mode)
- Mounting gasket
- Mounting hardware
- Power input cord
- Circuit breaker



250 VDC configuration for crane applications available



**FHP-4252****MOUNTING STYLE**

Flush Mounted

**ENVIRONMENTS SERVED**

NEMA-12 IP 52

NEMA-4,4X IP 56

**RATING (TRADITIONAL)**

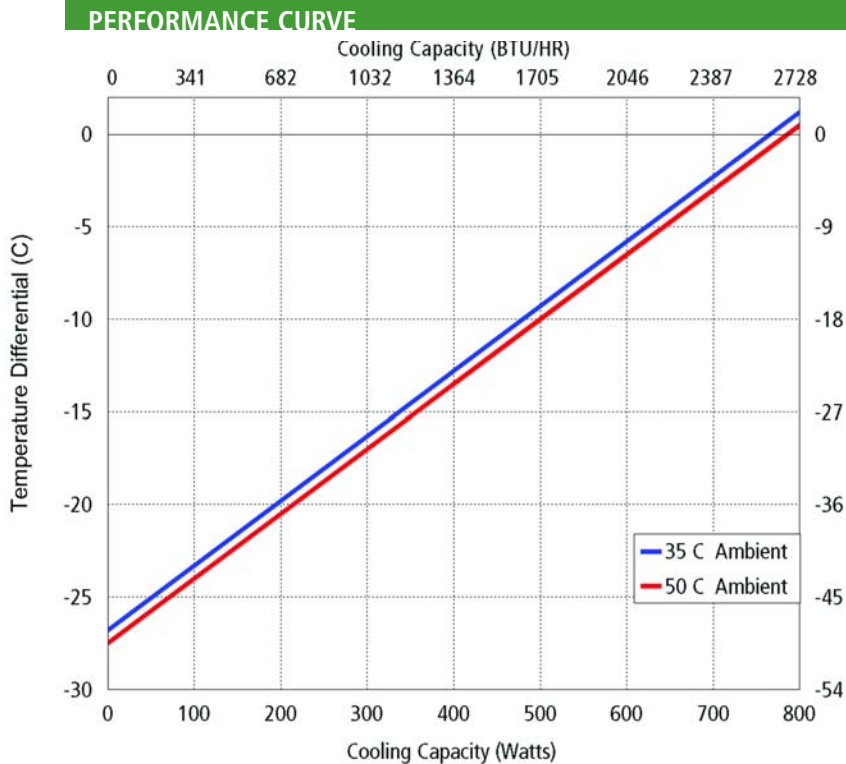
2615 BTU/hr @ 0 °F ΔT

3693 BTU/hr @ +20 °F ΔT

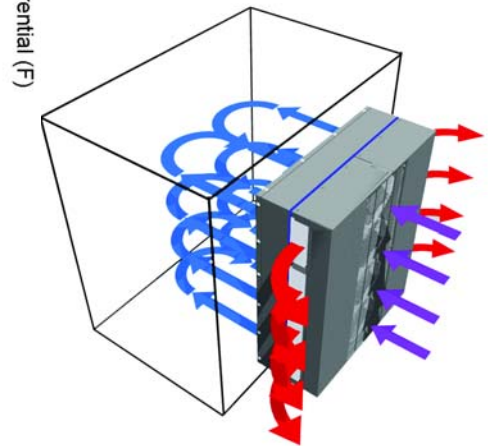
**RATING (DIN 3168)**

767 Watts L35 L35

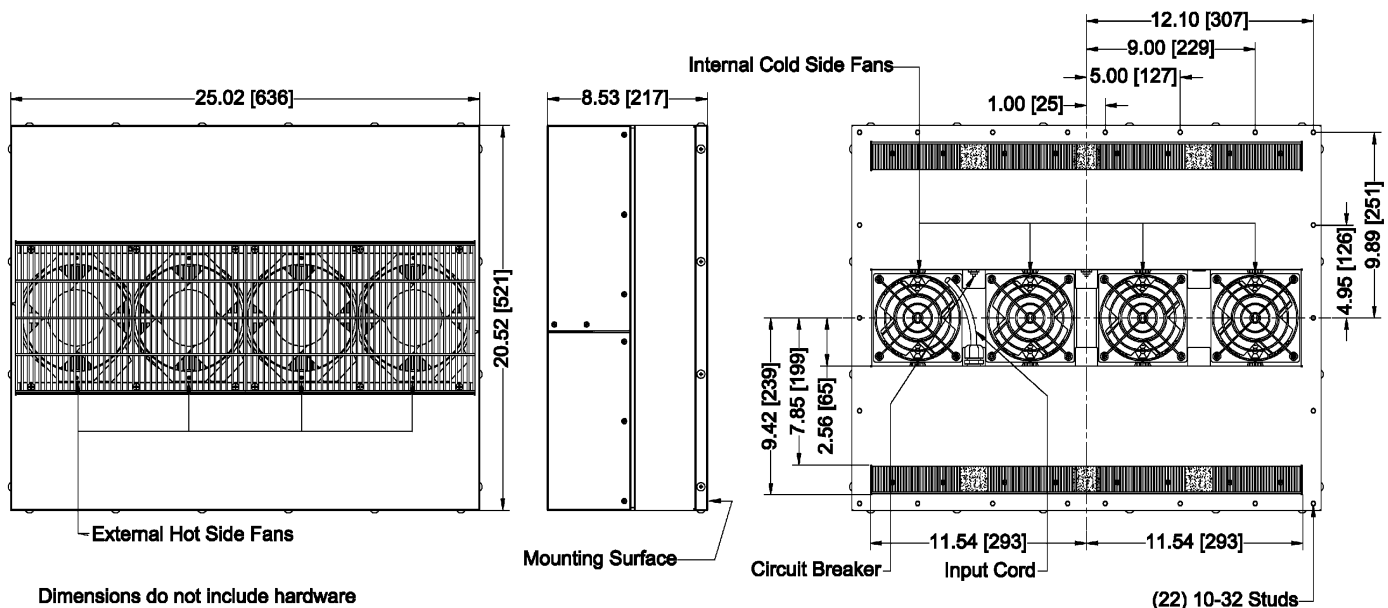
360 Watts L35 L50



Equation of line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Enclosure Air	$y = .035x - 26.8$	$y = .035x - 27.5$
Cold Sink	$y = .027x - 26.8$	$y = .027x - 27.5$



Air Flow Pattern

**DIMENSIONS**

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