



IHP-450

Internal Mount Air Conditioner/Heat Exchanger

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

24 VDC
High Efficiency
157 BTU/HR

FEATURES

- Compact (only 17.4" X 8" X 7.8")
- Mounts and operates in any orientation, inside enclosure
- Available in two installation styles:
 - **Style A:** Installs from inside of the enclosure
 - **Style B:** Installs from outside of the enclosure
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel housing
- Efficient heat exchanger mode (ECO-Mode)
- Weight 16 LBS.

CONTROL TEMPERATURES

Active Cooling	35 °C
Heat Exchanger (ECO-Mode)	25 °C
Active Heating	10 °C
Typical Hysteresis	5 °C
Operating Ambient	-40/+70 °C
Operating Enclosure	-10/+60 °C

POWER INPUTS

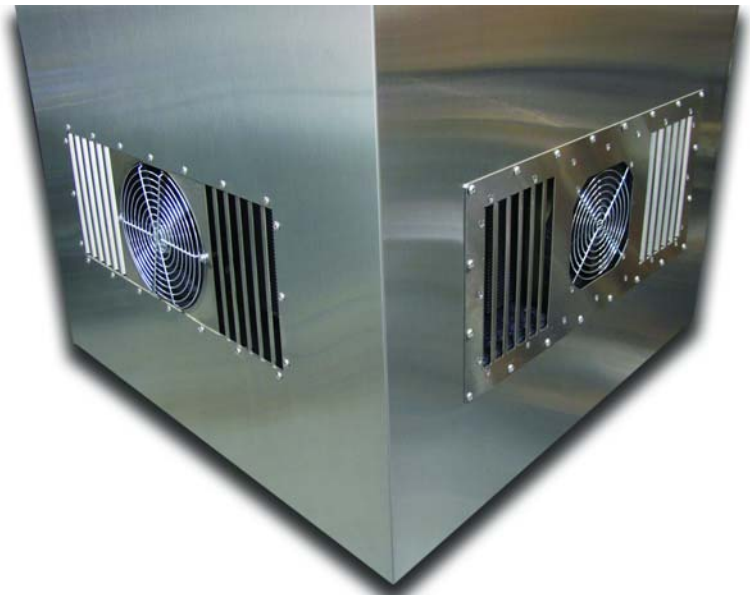
Voltage	24 VDC
Current, Active	2.3 AMPS
Current, ECO-Mode	0.3 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	157 BTU/HR
Cooling (Din 3168)	46 WATTS
Cooling COP (at L35 L35)	0.83
Heating (Traditional)	> 188 BTU/HR
Heating (Din 3168)	> 55 WATTS
Heating COP	> 1.0

INCLUDES

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



Picture above shows both installation styles
Shown on the left is the **Style A** (installs from inside of the enclosure)
Shown on the right is the **Style B** (installs from outside of the enclosure)

IHP-450

MOUNTING STYLE

Internal Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

RATING (TRADITIONAL)

157 BTU/hr @ 0 °F ΔT

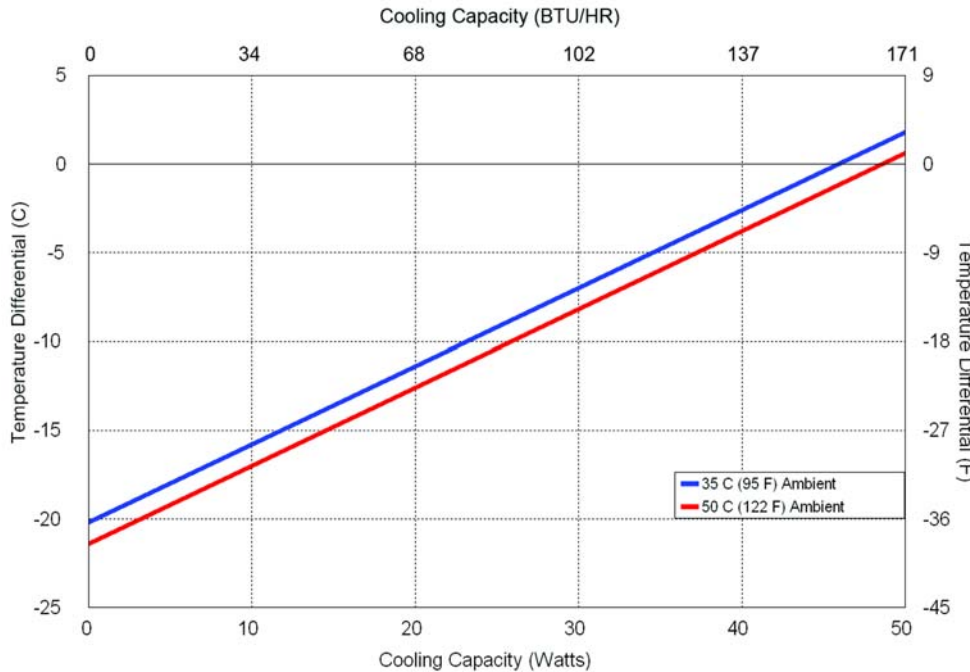
243 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

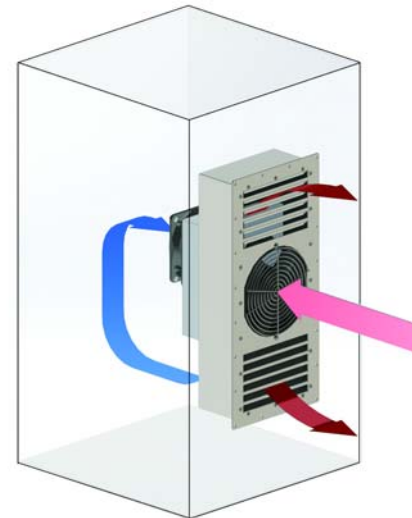
46 Watts L35 L35

14 Watts L35 L50

PERFORMANCE CURVE



Equation of Line: $y = \Delta T(^{\circ}C)$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
IHP-450	$y = .44x - 20.2$	$y = .44x - 21.4$



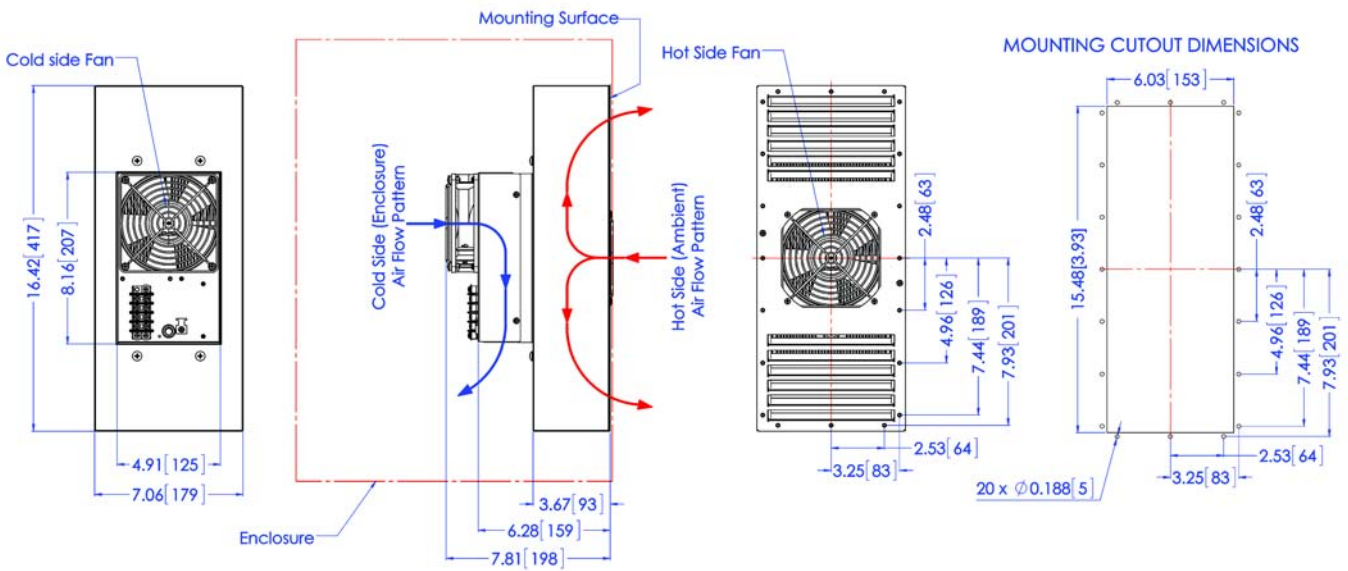
Air Flow Pattern

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-450	B-F0J5-0-000	Cool only, industrial fans	A	TC-4F	NEMA-12, IP 52
IHP-450HC	B-F095-1-000	Heat/Cool, industrial fans	A	None*	NEMA-12, IP 52
IHP-450HC	B-F0I5-1-000	Heat/Cool, industrial fans	A	TC-7F	NEMA-12, IP 52
IHP-450XE	B-F0J5-4-000	Cool only, sealed hot side fan	A	TC-4F	NEMA-4, IP 56
IHP-450XEHC	B-F095-5-000	Heat/Cool, sealed hot side fan	A	None*	NEMA-4, IP 56
IHP-450XEHC	B-F0I5-5-000	Heat/Cool, sealed hot side fan	A	TC-7F	NEMA-4, IP 56
IHP-450X	B-F0J5-2-000	Cool only, Mil. grade hot side fan	A	TC-4F	NEMA-4X, IP 56
IHP-450XHC	B-F095-3-000	Heat/Cool, Mil. grade hot side fan	A	None*	NEMA-4X, IP 56
IHP-450XHC	B-F0I5-3-000	Heat/Cool, Mil. grade hot side fan	A	TC-7F	NEMA-4X, IP 56
IHP-450	B-F0J5-0-100	Cool only, industrial fans	B	TC-4F	NEMA-12, IP 52
IHP-450HC	B-F095-1-100	Heat/Cool, industrial fans	B	None*	NEMA-12, IP 52
IHP-450HC	B-F0I5-1-100	Heat/Cool, industrial fans	B	TC-7F	NEMA-12, IP 52
IHP-450XE	B-F0J5-4-100	Cool only, sealed hot side fan	B	TC-4F	NEMA-4, IP 56
IHP-450XEHC	B-F095-5-100	Heat/Cool, sealed hot side fan	B	None*	NEMA-4, IP 56
IHP-450XEHC	B-F0I5-5-100	Heat/Cool, sealed hot side fan	B	TC-7F	NEMA-4, IP 56
IHP-450X	B-F0J5-2-100	Cool only, Mil. grade hot side fan	B	TC-4F	NEMA-4X, IP 56
IHP-450XHC	B-F095-3-100	Heat/Cool, Mil. grade hot side fan	B	None*	NEMA-4X, IP 56
IHP-450XHC	B-F0I5-3-100	Heat/Cool, Mil. grade hot side fan	B	TC-7F	NEMA-4X, IP 56

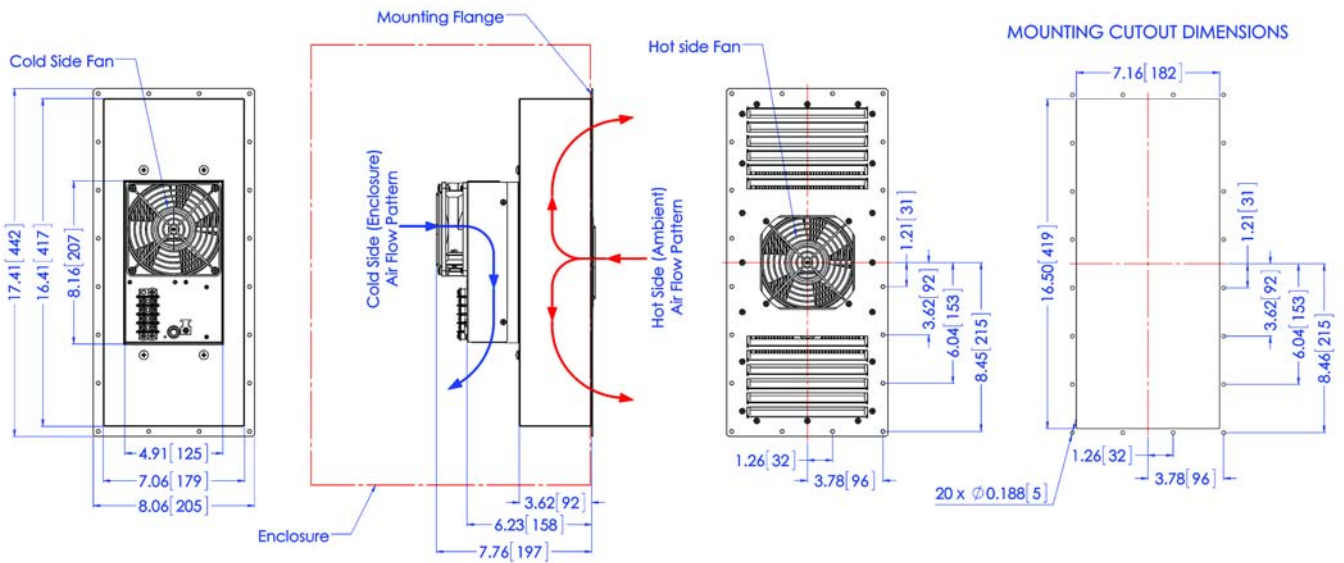
* For controller options contact TECA; Heating function via reverse polarity (controller dependent)

DIMENSIONS (Style A: Installs from inside of the enclosure)



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

DIMENSIONS (Style B: Installs from outside of the enclosure)



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