

IHP-470

Air Cooled
Internal Mounted
Nema-4, 4X

Internal Mount Air Conditioner/Heat Exchanger

24 VDC
228 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	7.0 AMPS
Current, ECO-Mode	0.3 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	228 BTU/HR
Cooling (Din 3168)	67 WATTS
Cooling COP (at L35 L35)	0.40
Heating (Traditional)	> 572 BTU/HR
Heating (Din 3168)	> 168 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-470

MOUNTING STYLE

Internal Mounted

ENVIRONMENTS SERVED

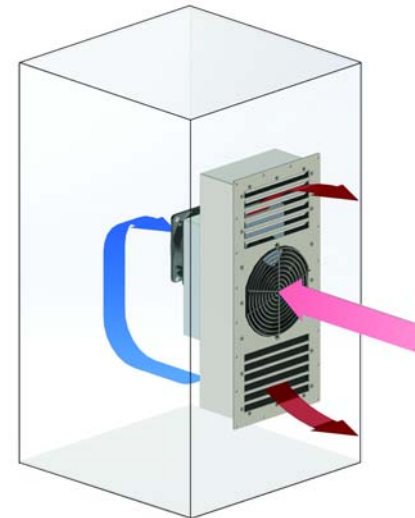
NEMA-4,4X IP 56

RATING (TRADITIONAL)

228 BTU/hr @ 0 °F ΔT
315 BTU/hr @ +20 °F ΔT

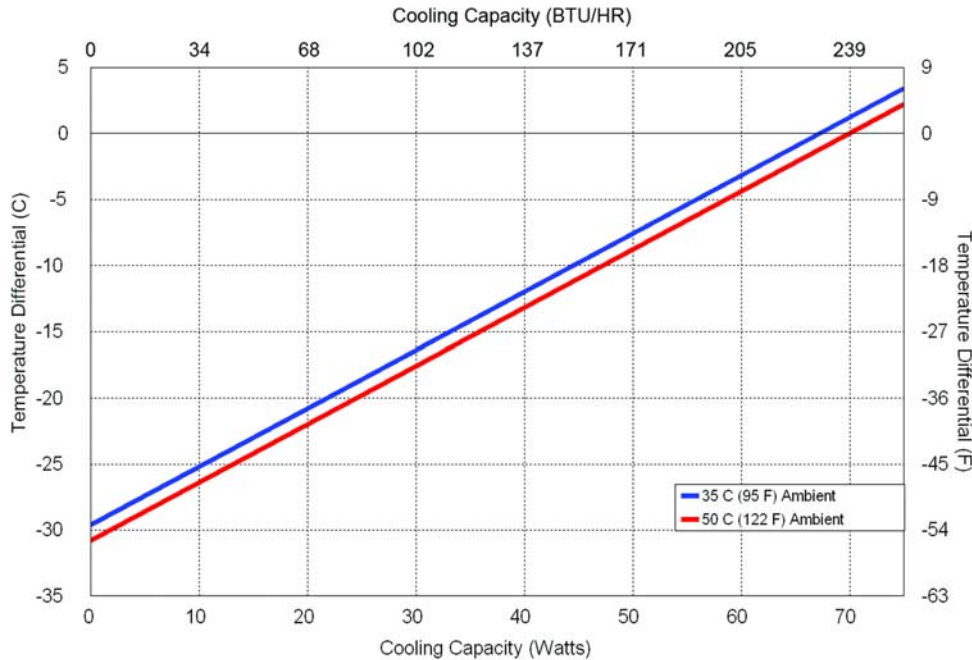
RATING (DIN 3168)

67 Watts L35 L35
36 Watts L35 L50



Air Flow Pattern

PERFORMANCE CURVE



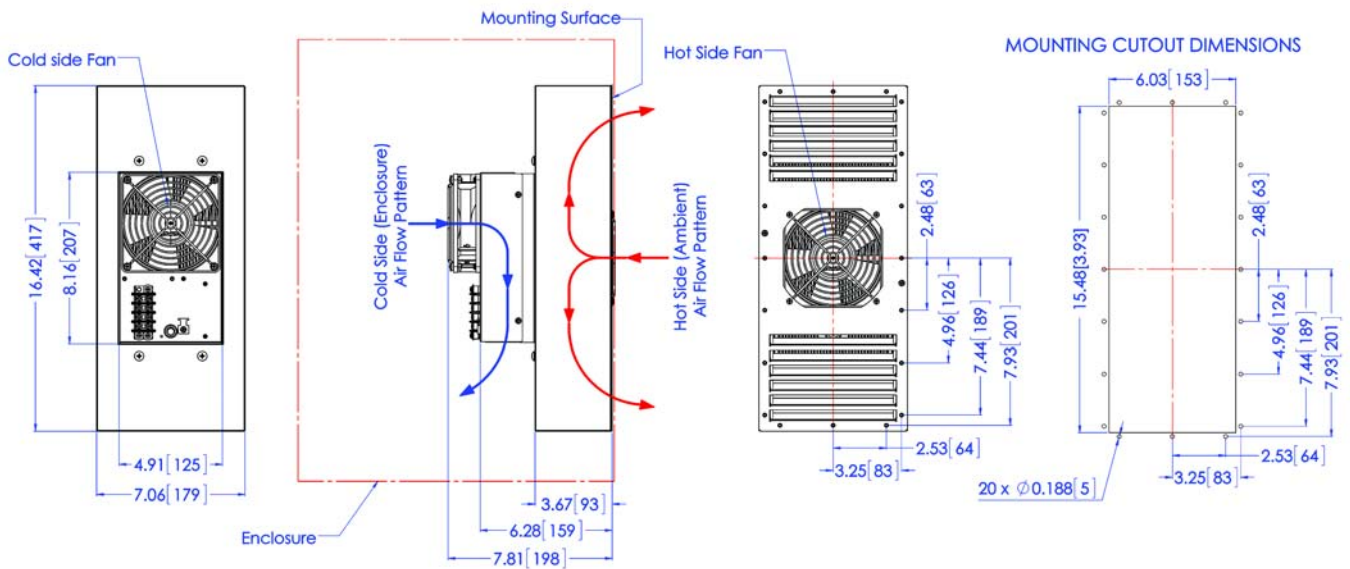
Equation of Line: $y = \Delta T(^{\circ}C) \quad x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
IHP-470	$y = .44x - 29.6$	$y = .44x - 30.8$

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-470XE	B-F0J5-4-001	Cool only, sealed hot side fan	A	TC-4F	NEMA-4/4X, IP 56
IHP-470XEHC	B-F095-5-001	Heat/Cool, sealed hot side fan	A	None*	NEMA-4/4X, IP 56
IHP-470XEHC	B-F0I5-5-001	Heat/Cool, sealed hot side fan	A	TC-7F	NEMA-4/4X, IP 56
IHP-470X	B-F0J5-2-001	Cool only, Mil. grade hot side fan	A	TC-4F	NEMA-4X/Harsh, IP 56
IHP-470XHC	B-F095-3-001	Heat/Cool, Mil. grade hot side fan	A	None*	NEMA-4X/Harsh, IP 56
IHP-470XHC	B-F0I5-3-001	Heat/Cool, Mil. grade hot side fan	A	TC-7F	NEMA-4X/Harsh, IP 56
IHP-470XE	B-F0J5-4-101	Heat/Cool, sealed hot side fan	B	TC-4F	NEMA-4/4X, IP 56
IHP-470XEHC	B-F095-5-101	Heat/Cool, sealed hot side fan	B	None*	NEMA-4/4X, IP 56
IHP-470XEHC	B-F0I5-5-101	Heat/Cool, sealed hot side fan	B	TC-7F	NEMA-4/4X, IP 56
IHP-470X	B-F0J5-2-101	Cool only, Mil. grade hot side fan	B	TC-4F	NEMA-4X/Harsh, IP 56
IHP-470XHC	B-F095-3-101	Heat/Cool, Mil. grade hot side fan	B	None*	NEMA-4X/Harsh, IP 56
IHP-470XHC	B-F0I5-3-101	Heat/Cool, Mil. grade hot side fan	B	TC-7F	NEMA-4X/Harsh, IP 56

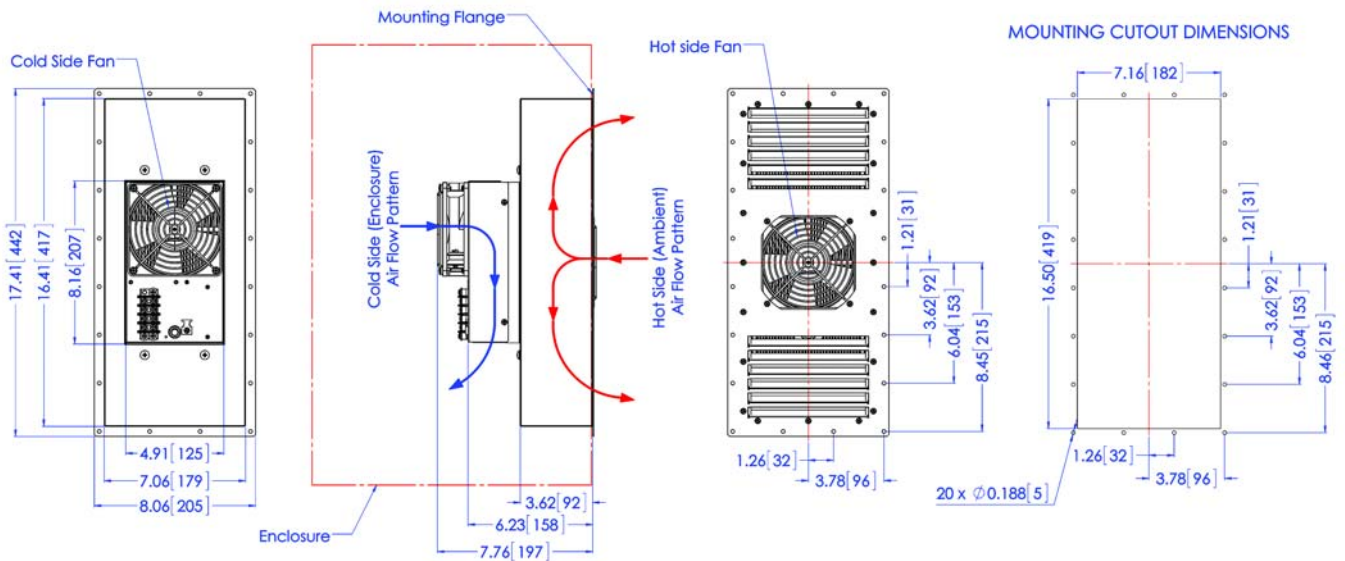
* For controller options contact TECA; Heating function via reverse polarity (controller dependent)

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]