

# IHP-690

# Internal Mount Air Conditioner/Heat Exchanger

Air Cooled  
Internal Mounted  
Nema-4/4X

24 VDC  
390 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 17 LBS.

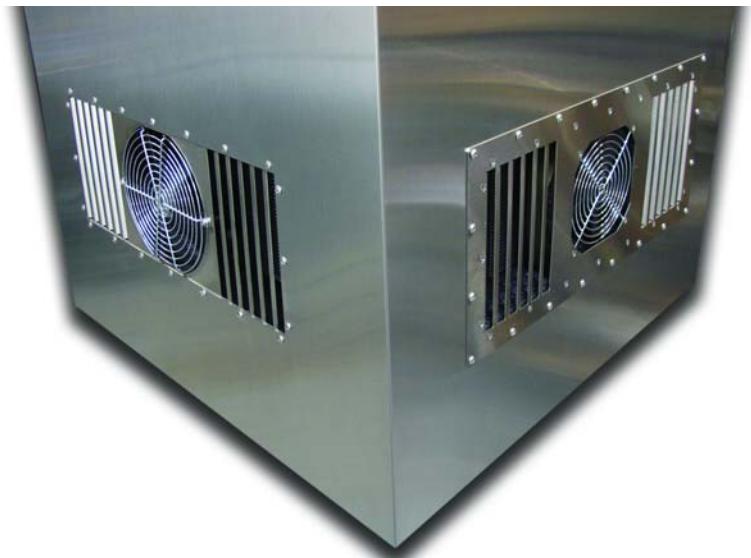


## CONTROL TEMPERATURES

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	15 AMPS
Current, ECO-Mode	0.5 AMPS



## PERFORMANCE RATINGS

Cooling (Traditional)	392 BTU/HR
Cooling (Din 3168)	115 WATTS
Cooling COP (at L35 L35)	0.44
Heating (Traditional)	> 900 BTU/HR
Heating (Din 3168)	> 264 WATTS
Heating COP	> 1.0

## INCLUDES

- Temperature controller
- Mounting gasket and 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-690****MOUNTING STYLE**

Internal Mounted

**ENVIRONMENTS SERVED**

NEMA-4 IP 56

**RATING (TRADITIONAL)**

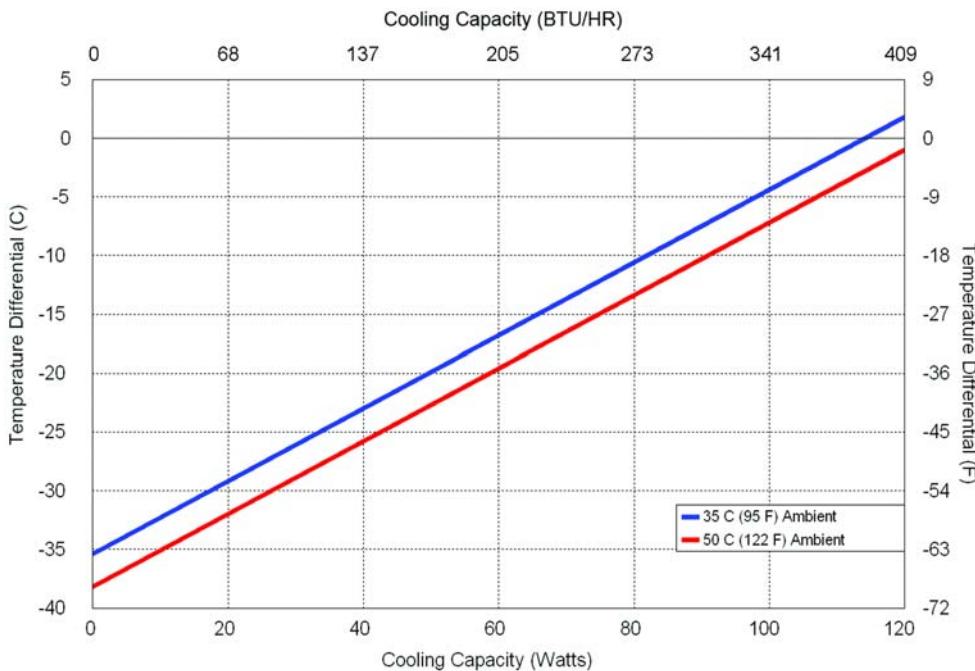
392 BTU/hr @ 0 °F ΔT

511 BTU/hr @ +20 °F ΔT

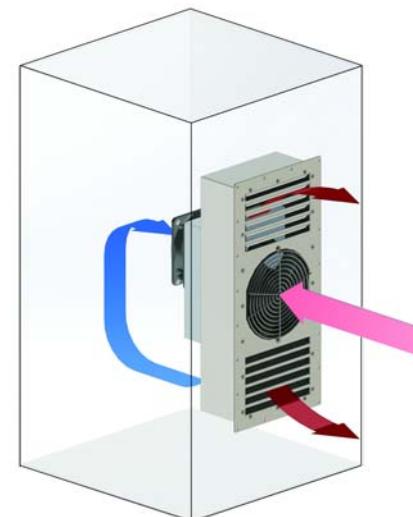
**RATING (DIN 3168)**

115 Watts L35 L35

75 Watts L35 L50

**PERFORMANCE CURVE**

Equation of Line: $y = \Delta T (°C)$ $x = \text{Capacity (Watts)}$	
Ambient Temp	35°C 50°C
IHP-690	$y = .31x - 35.4$ $y = .31x - 38.2$

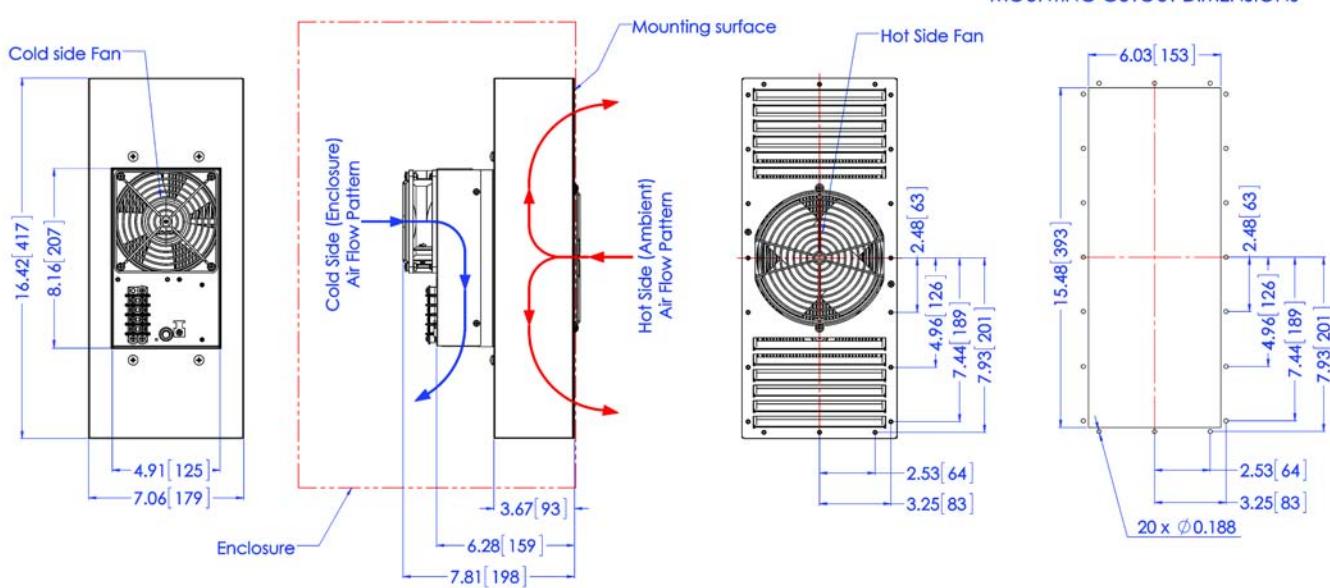


Air Flow Pattern

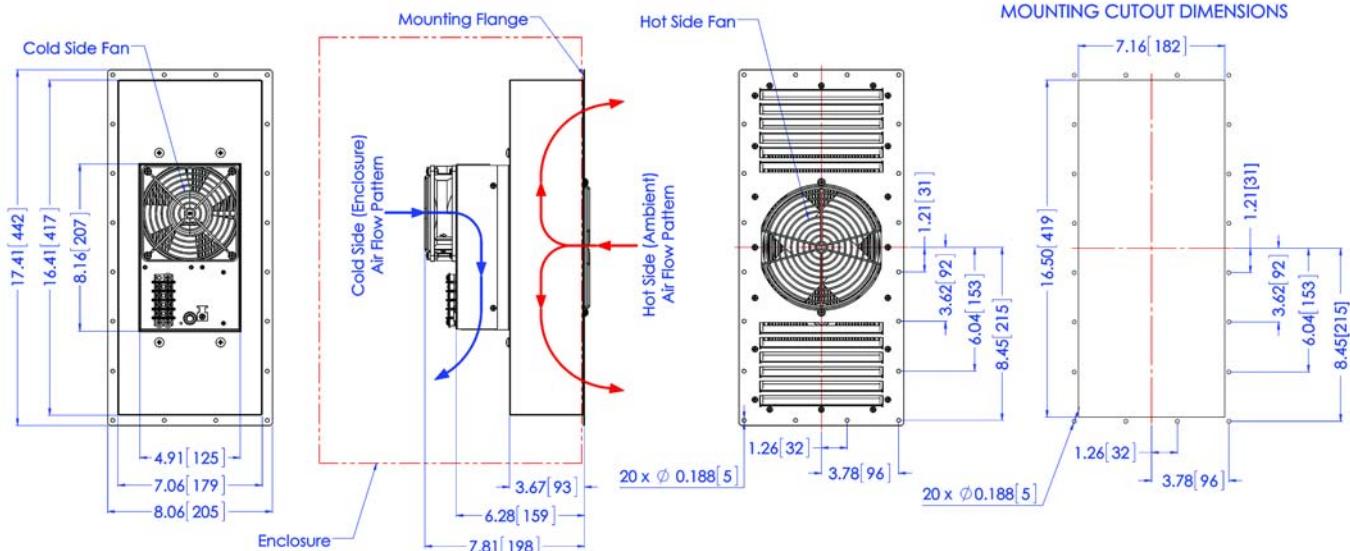
**SPECIFICATIONS**

MODEL	PART NUMBER	NOTES	INSTALLATION STYLE	TEMPERATURE CONTROL	ENVIRONMENT
IHP-690XE	B-M0J5-4-000	Cool only, sealed hot side fan	A	TC-4F	NEMA-4/4X, IP 56
IHP-690XEHC	B-M095-5-000	Heat/Cool, sealed hot side fan	A	None*	NEMA-4/4X, IP 56
IHP-690XEHC	B-M0I5-5-000	Heat/Cool, sealed hot side fan	A	TC-7F	NEMA-4/4X, IP 56
IHP-690XE	B-M0J5-4-100	Cool only, sealed hot side fan	B	TC-4F	NEMA-4/4X, IP 56
IHP-690XEHC	B-M095-5-100	Heat/Cool, sealed hot side fan	B	None*	NEMA-4/4X, IP 56
IHP-690XEHC	B-M0I5-5-100	Heat/Cool, sealed hot side fan	B	TC-7F	NEMA-4/4X, 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]