

# AHP-470

# Air Conditioner/Heat Exchanger

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

24 VDC  
315 BTU/HR

## FEATURES

- Compact (only 10" X 5.84" X 7.75")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Low vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Virtually maintenance-free operation
- Stainless steel exterior housing
- Efficient heat exchanger mode (ECO-Mode)
- Easy to use Pivot Clean feature
- Weight 14 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

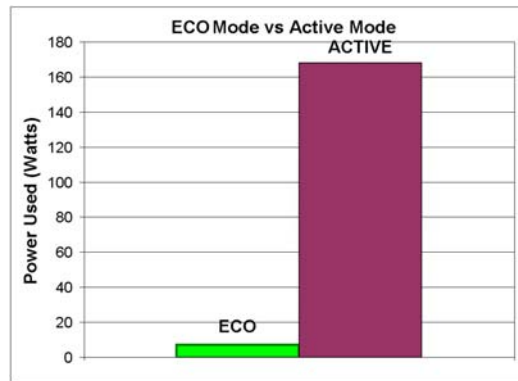
## PERFORMANCE RATINGS

Cooling (Traditional)	315 BTU/HR
Cooling (Din 3168)	95 WATTS
Cooling COP (at L35 L35)	056
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)



12 VDC configuration available

## CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-470	0-FOJ5-0-001	Cool only, industrial fans	TC-4F	NEMA-12, IP 52
AHP-470HC	0-F095-1-001	Heat/Cool, industrial fans	None*	NEMA-12, IP 52
AHP-470HC	0-FOI5-1-001	Heat/Cool, industrial fans	TC-7F	NEMA-12, IP 52
AHP-470XE	0-FOJ5-4-001	Cool only, sealed hot side fan	TC-4F	NEMA-4/4X, IP 56
AHP-470XEHC	0-F095-5-001	Heat/Cool, sealed hot side fan	None*	NEMA-4/4X, IP 56
AHP-470XEHC	0-FOI5-5-001	Heat/Cool, sealed hot side fan	TC-7F	NEMA-4/4X, IP 56
AHP-470X	0-FOJ5-2-001	Cool only, Mil. grade hot side fan	TC-4F	NEMA-4X/Harsh Env. IP 56
AHP-470XHC	0-F095-3-001	Heat/Cool, Mil. grade hot side fan	None*	NEMA-4X/Harsh Env. IP 56
AHP-470XHC	0-FOI5-3-001	Heat/Cool, Mil. grade hot side fan	TC-7F	NEMA-4X/Harsh Env. IP 56
AHP-470XM	0-FOJ5-2-011	Cool only, Mil. grade fans	TC-4F	NEMA-4X/Harsh Env. IP 56
AHP-470XMHC	0-F095-3-011	Heat/Cool, Mil. grade fans	None*	NEMA-4X/Harsh Env. IP 56
AHP-470XMHC	0-FOI5-3-011	Heat/Cool, Mil. grade fans	TC-7F	NEMA-4X/Harsh Env. IP 56

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

TECA

1-888-TECA-USA (832-2872)

www.thermoelectric.com

# AHP-470

## MOUNTING STYLE

Through Mounted

## ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

## RATING (TRADITIONAL)

AHP-470 315 BTU/hr @ 0 °F ΔT

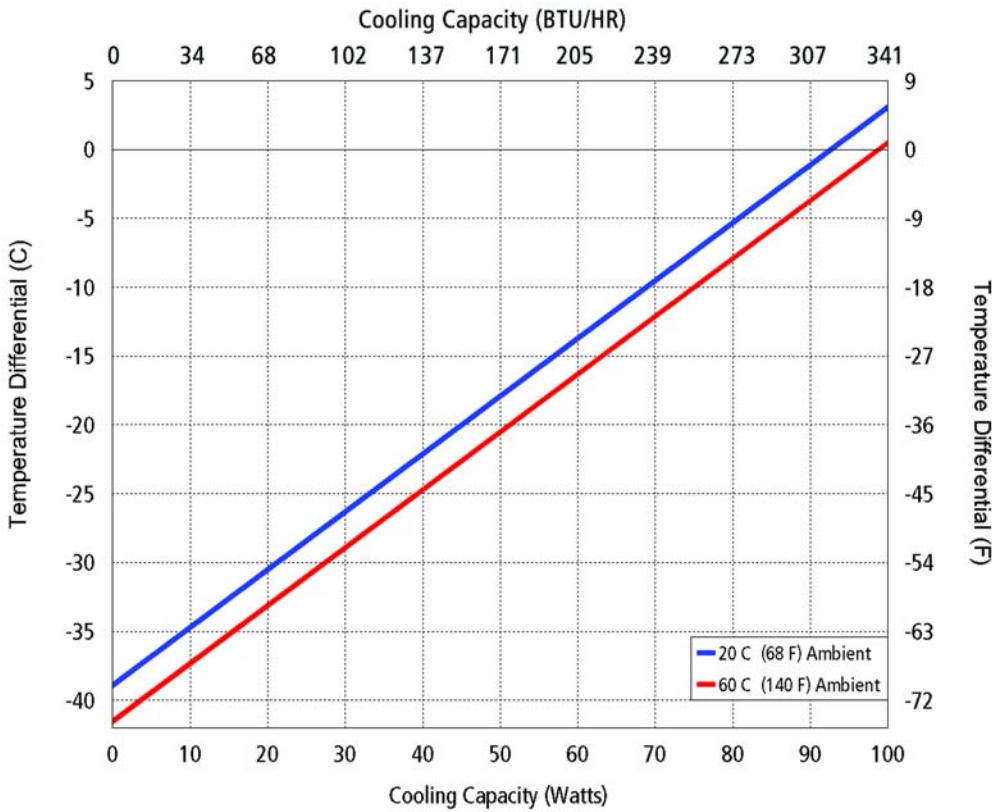
405 BTU/hr @ +20 °F ΔT

## RATING (DIN 3168)

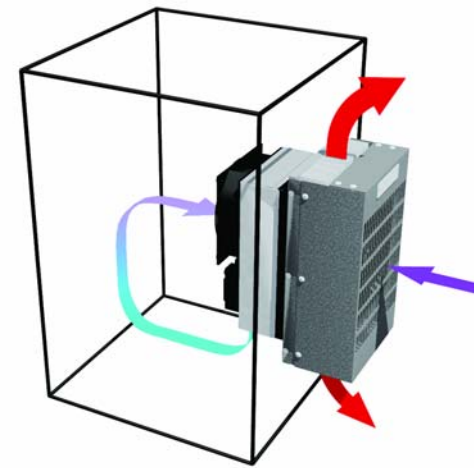
AHP-470 95 Watts L35 L35

62 Watts L35 L50

## PERFORMANCE CURVE

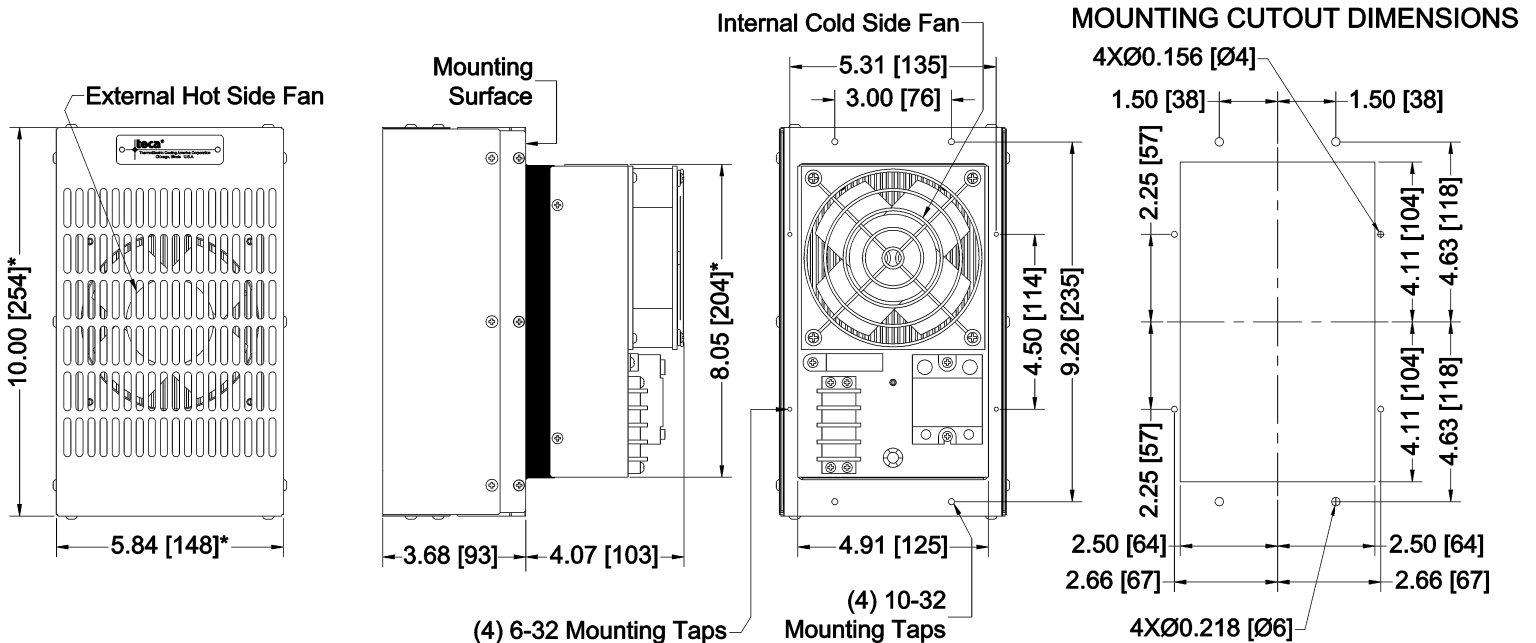


Equation of Line: $y = \Delta T(^{\circ}C) \quad x = \text{Capacity (Watts)}$		
Ambient Temp	20°C	60°C
AHP-470	$y = .42x - 38.9$	$y = .42x - 41.5$



Air Flow Pattern

## DIMENSIONS



\* Dimension does not include hardware and sealant.  
Mounting hardware and gasket included but not shown.  
Dimensions: Inches [Millimeters]