

AHP-451 Air Conditioner

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

120 VAC or 240 VAC
340 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
- Easy to use Pivot Clean feature
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 16 LBS.

CONTROL TEMPERATURES

Active Cooling (TC-1F, TC-3F)	35 °C
Active Heating (TC-3F)	10 °C
Typical Hysteresis	5 °C
Operating Ambient	-40/+70 °C
Operating Enclosure	-10/+60 °C

POWER INPUTS

Voltage	120 or 240 VAC
Current, Active	1.3 / 0.71 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	342 BTU/HR
Cooling (Din 3168)	102 WATTS
Cooling COP (at L35 L35)	0.65

INCLUDES

- Temperature controller
- Mounting gasket
- Mounting hardware
- Integral power input cord

CONFIGURATIONS

MODEL	PART NUMBER	NOTES	VOLTAGE VAC	CURRENT AMPS	TEMPERATURE CONTROL	ENVIRONMENT
AHP-451	0-F090-0-000	Cool only	120	1.3	None	Nema-12, IP 52
AHP-451	0-F0F0-0-000	Cool only	120	1.3	TC-1F	Nema-12, IP 52
AHP-451	0-F050-0-000	Cool only	120	1.3	EXT*	Nema-12, IP 52
AHP-451HC	0-F030-1-000	Heat/Cool	120	1.3	TC-3F	Nema-12, IP 52
AHP-451XE	0-F090-4-000	Cool only	120	1.3	None	Nema-4/4X, IP 56
AHP-451XE	0-F0F0-4-000	Cool only	120	1.3	TC-1F	Nema-4/4X, IP 56
AHP-451XE	0-F050-4-000	Cool only	120	1.3	EXT*	Nema-4/4X, IP 56
AHP-451XEHC	0-F030-5-000	Heat/Cool	120	1.3	TC-3F	Nema-4/4X, IP 56
AHP-452	0-F092-0-000	Cool only	240	0.70	None	Nema-12, IP 52
AHP-452	0-F0F2-0-000	Cool only	240	0.70	TC-1F	Nema-12, IP 52
AHP-452	0-F052-0-000	Cool only	240	0.70	EXT*	Nema-12, IP 52
AHP-452HC	0-F032-1-000	Heat/Cool	240	0.70	TC-3F	Nema-12, IP 52
AHP-452XE	0-F092-4-000	Cool only	240	0.70	None	Nema-4/4X, IP 56
AHP-452XE	0-F0F2-4-000	Cool only	240	0.70	TC-1F	Nema-4/4X, IP 56
AHP-452XE	0-F052-4-000	Cool only	240	0.70	EXT*	Nema-4/4X, IP 56
AHP-452XEHC	0-F032-5-000	Heat/Cool	240	0.70	TC-3F	Nema-4/4X, IP 56

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

AHP-451

MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4/4X IP 56

RATING (TRADITIONAL)

340 BTU/hr @ 0 °F ΔT

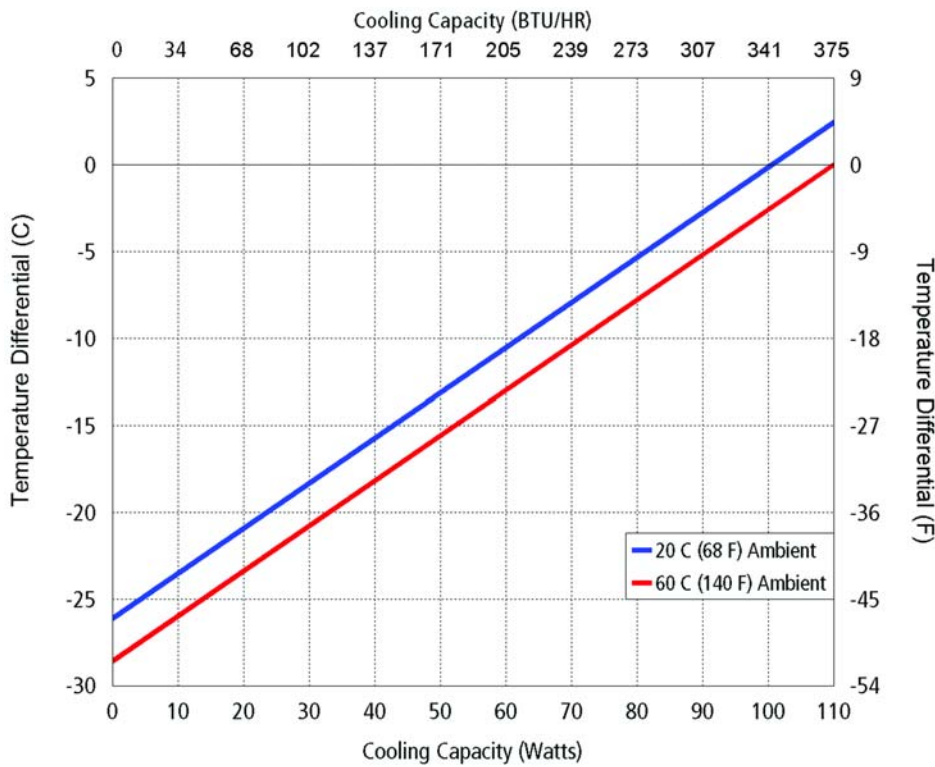
486 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

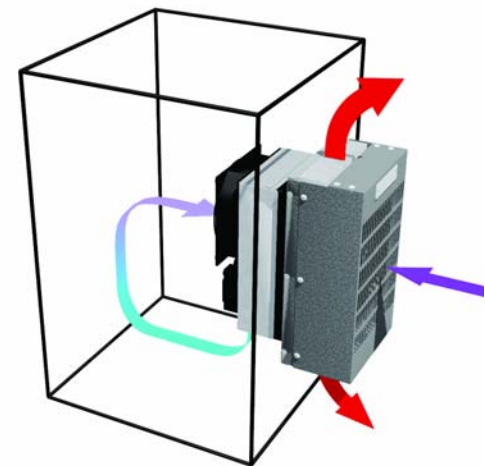
102 Watts L35 L35

50 Watts L35 L50

PERFORMANCE CURVE

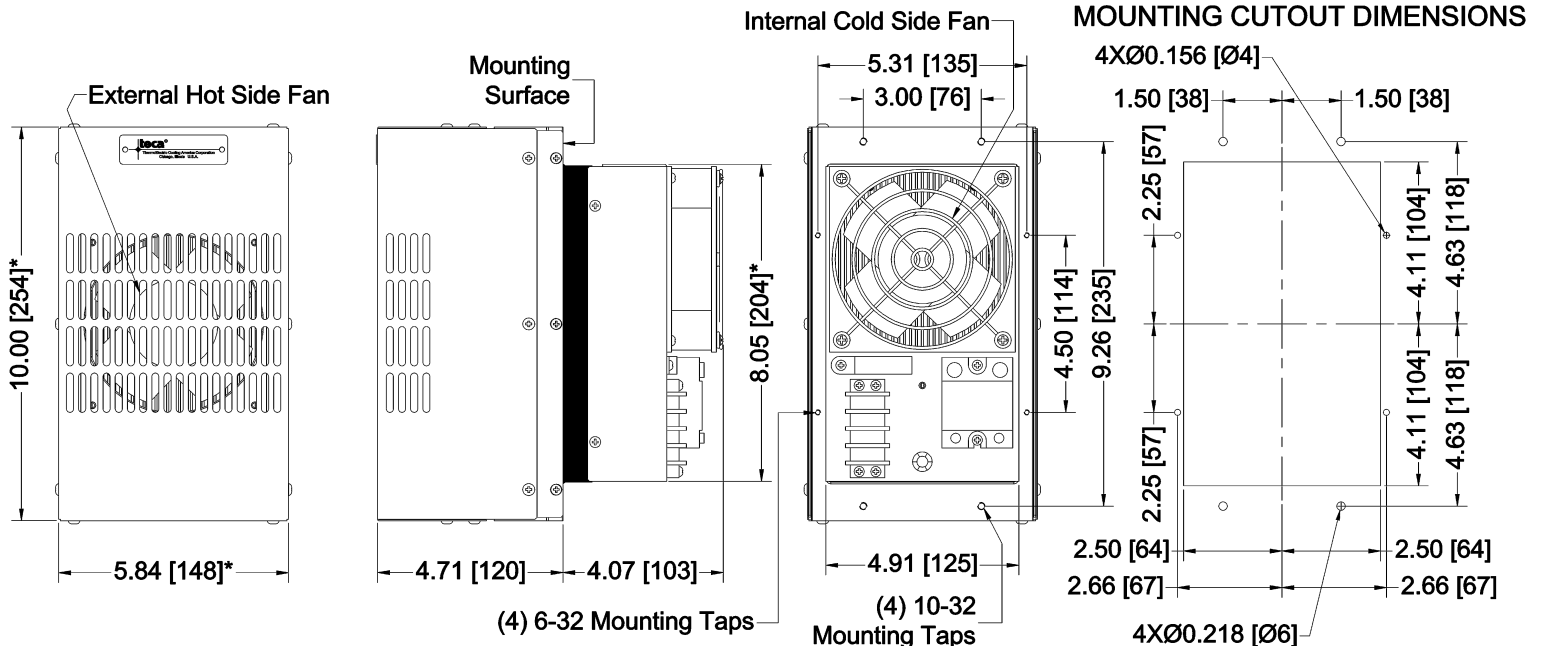


Equation of Line: $y = \Delta T(^{\circ}C)$ $x = \text{Capacity (Watts)}$		
Ambient Temp	20°C	60°C
Enclosure Air	$y = .26x - 26.1$	$y = .26x - 28.6$



Air Flow Pattern

DIMENSIONS



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