



# AHP-1800 Air Conditioner

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

24 VDC Input  
High Efficiency  
1100 BTU/HR



## FEATURES

- High capacity thermoelectric design
- Lower profile intrusion into enclosure
- Closed loop design
- Condensate control and evaporation system
- Compact
- Increased efficiency at higher ambients by as much as 12%
- Virtually maintenance free
- No compressor
- Environmentally friendly and safe
- Stainless Steel exterior housing
- Mounts and operates in any orientation
- Integral temperature controller
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Easy to use Pivot Clean feature
- Weight 55 LBS.

## POWER INPUTS

Voltage 24 VDC  
Current, Active 18 AMPS  
Current, ECO-Mode 1.9 AMPS

## PERFORMANCE RATINGS

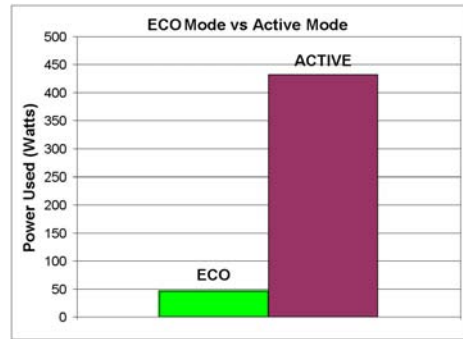
Cooling (Traditional) 1100 BTU/HR  
Cooling (Din 3168) 322 WATTS  
Cooling COP (at L35 L35) 0.74  
Heating (Traditional) > 1473 BTU/HR  
Heating (Din 3168) > 432 WATTS  
Heating COP > 1.0

## INCLUDES

- Temperature controller
- Mounting gasket
- Mounting hardware
- Power input leads

## CONTROL TEMPERATURES

Temp. Control	Active Heat °C	ECO-Mode °C	Active Cool °C
TC-1F	-	-	35
TC-6F	-	-	25 or 35
TC-3F	10	-	35
TC-7F	10	25	35



250 VDC configuration for crane applications available

## CONFIGURATIONS

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-1800	0-0195-0-000	Cool only	None	NEMA-12, IP 52
AHP-1800	0-0185-0-000	Cool only	TC-6F	NEMA-12, IP 52
AHP-1800	0-01F5-0-000	Cool only	TC-1F	NEMA-12, IP 52
AHP-1800	0-0155-0-000	Cool only	EXT*	NEMA-12, IP 52
AHP-1800HC	0-0135-1-000	Heat/Cool	TC-3F	NEMA-12, IP 52
AHP-1800HC	0-0115-1-000	Heat/Cool	TC-7F	NEMA-12, IP 52
AHP-1800HC	0-0155-1-000	Heat/Cool	EXT*	NEMA-12, IP 52
AHP-1800HC	0-01H5-1-000	Heat/Cool	TC-4600	NEMA-12, IP 52
AHP-1800XE	0-0195-4-000	Cool only	None	NEMA-4, IP 56
AHP-1800XE	0-0185-4-000	Cool only	TC-6F	NEMA-4, IP 56
AHP-1800XE	0-01F5-4-000	Cool only	TC-1F	NEMA-4, IP 56
AHP-1800XE	0-0155-4-000	Cool only	EXT*	NEMA-4, IP 56

MODEL	PART NUMBER	NOTES	TEMPERATURE CONTROL	ENVIRONMENT
AHP-1800XEHC	0-0135-5-000	Heat/Cool	TC-3F	NEMA-4, IP 56
AHP-1800XEHC	0-0115-5-000	Heat/Cool	TC-7F	NEMA-4, IP 56
AHP-1800XEHC	0-0155-5-000	Heat/Cool	EXT*	NEMA-4, IP 56
AHP-1800XEHC	0-01H5-5-000	Heat/Cool	TC-4600	NEMA-4, IP 56
AHP-1800X	0-0195-2-000	Cool only	None	NEMA-4X, IP 56
AHP-1800X	0-0185-2-000	Cool only	TC-6F	NEMA-4X, IP 56
AHP-1800X	0-01F5-2-000	Cool only	TC-1F	NEMA-4X, IP 56
AHP-1800X	0-0155-2-000	Cool only	EXT*	NEMA-4X, IP 56
AHP-1800XHC	0-0135-3-000	Heat/Cool	TC-3F	NEMA-4X, IP 56
AHP-1800XHC	0-0115-3-000	Heat/Cool	TC-7F	NEMA-4X, IP 56
AHP-1800XHC	0-0155-3-000	Heat/Cool	EXT*	NEMA-4X, IP 56
AHP-1800XHC	0-01H5-3-000	Heat/Cool	TC-4600	NEMA-4X, IP 56

\* Unit is set for 5-32 VC external signal, relay(s) included

Consult factory for full shock and vibration models

# AHP-1800

## MOUNTING STYLE

Through Mounted

## ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

## RATING (TRADITIONAL)

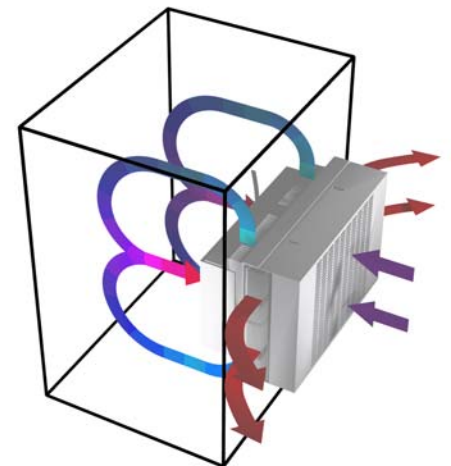
1100 BTU/hr @ 0 °F ΔT

1420 BTU/hr @ +20 °F ΔT

## RATING (DIN 3168)

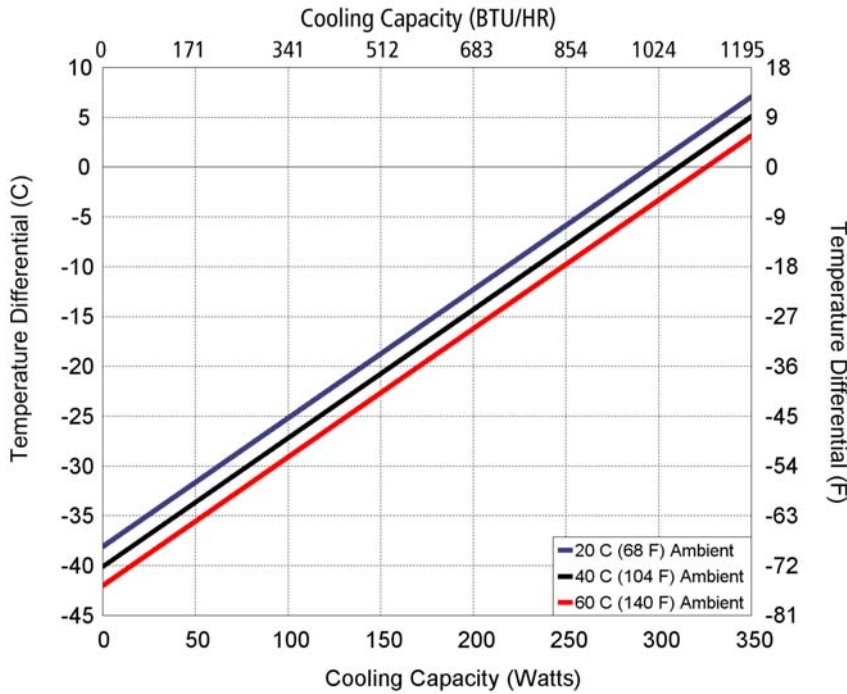
322 Watts L35 L35

210 Watts L35 L50



Air Flow Pattern

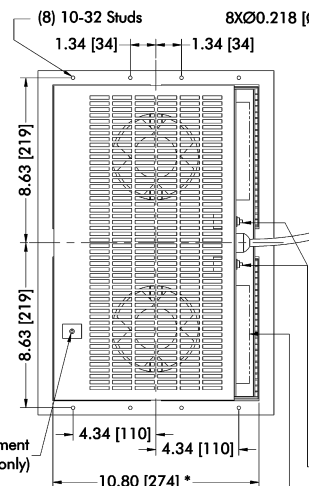
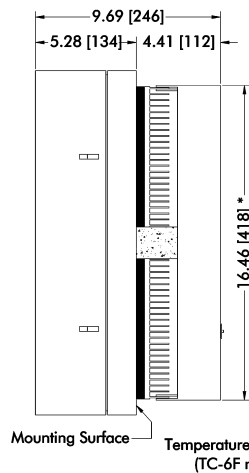
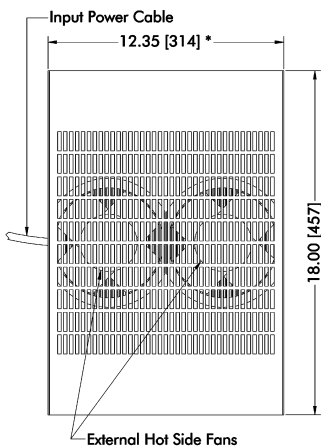
## PERFORMANCE CURVE



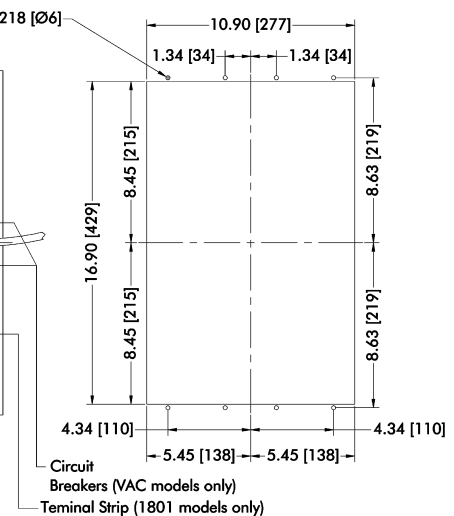
Equation of line:  $y = \Delta T(^{\circ}C)$   $x = \text{Capacity (Watts)}$

Ambient Temp	20°C	40°C	60°C
Enclosure Air	$y = .129x - 38.1$	$y = .129x - 40.1$	$y = .129x - 42.0$
Cold Sink	$y = .09x - 38.1$	$y = .09x - 40.1$	$y = .09x - 42.0$

## DIMENSIONS



## MOUNTING CUTOUT DIMENSIONS



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