

AHP-270

Air Conditioner / Heat Exchanger

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

12 VDC, 24 VDC
161 BTU/HR

FEATURES

- Compact (only 6" X 4.75" X 6.6")
- Mounts and operates in any orientation: horizontal, vertical, etc.
- Lower vibration and noise
- No moving parts except fans
- Environmentally safe
- No compressor, fluorocarbons or filters
- Heat via reverse polarity
- Virtually maintenance-free operation
- Weight 4.4 LBS.

POWER INPUTS

Voltage	12 VDC, 24 VDC
Current, Active	8.3 AMPS, 4.1 AMPS
Current, ECO-Mode	0.3 AMPS

PERFORMANCE RATINGS

Cooling (Traditional)	161 BTU/HR
Cooling (Din 3168)	47 WATTS
Cooling COP (at L35 L35)	0.47
Heating (Traditional)	> 334 BTU/HR
Heating (Din 3168)	> 98 WATTS
Heating COP	> 1.0

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



CONFIGURATIONS

MODEL	PART NUMBER	NOTES	INTEGRAL TEMPERATURE CONTROL	VOLTAGE VDC	CURRENT AMPS	ENVIRONMENT
AHP-270FFHC	0-L094-1-001*	Industrial fans	None	12	8.3	NEMA-12, IP 52
AHP-270FFHC	0-L095-1-001*	Industrial fans	None	24	4.1	NEMA-12, IP 52
AHP-270FF	0-L0J4-0-001	Industrial fans	TC-4F	12	8.3	NEMA-12, IP 52
AHP-270FF	0-L0J5-0-001	Industrial fans	TC-4F	24	4.1	NEMA-12, IP 52
AHP-270FFHC	0-L0I4-1-001	Industrial fans	TC-7F	12	8.3	NEMA-12, IP 52
AHP-270FFHC	0-L0I5-1-001	Industrial fans	TC-7F	24	4.1	NEMA-12, IP 52
AHP-270XEHC	0-L094-5-001*	Industrial sealed HS fan	None	12	8.3	NEMA-4/4X, IP 56
AHP-270XEHC	0-L095-5-001*	Industrial sealed HS fan	None	24	4.1	NEMA-4/4X, IP 56
AHP-270XE	0-L0J4-4-001	Industrial sealed HS fan	TC-4F	12	8.3	NEMA-4/4X, IP 56
AHP-270XE	0-L0J5-4-001	Industrial sealed HS fan	TC-4F	24	4.1	NEMA-4/4X, IP 56
AHP-270XEHC	0-L0I4-5-001	Industrial sealed HS fan	TC-7F	12	8.3	NEMA-4/4X, IP 56
AHP-270XEHC	0-L0I5-5-001	Industrial sealed HS fan	TC-7F	24	4.1	NEMA-4/4X, IP 56
AHP-270XHC	0-L094-3-001*	Military grade HS fan	None	12	8.3	NEMA-4X/Harsh Env. IP 56
AHP-270XHC	0-L095-3-001*	Military grade HS fan	None	24	4.1	NEMA-4X/Harsh Env. IP 56
AHP-270X	0-L0J4-2-001	Military grade HS fan	TC-4F	12	8.3	NEMA-4X/Harsh Env. IP 56
AHP-270X	0-L0J5-2-001	Military grade HS fan	TC-4F	24	4.1	NEMA-4X/Harsh Env. IP 56
AHP-270XHC	0-L0I4-3-001	Military grade HS fan	TC-7F	12	8.3	NEMA-4X/Harsh Env. IP 56
AHP-270XHC	0-L0I5-3-001	Military grade HS fan	TC-7F	24	4.1	NEMA-4X/Harsh Env. IP 56

* Heat/Cool function via reverse polarity capable external controller

AHP-270

MOUNTING STYLE

Through Mounted

ENVIRONMENTS SERVED

NEMA-12 IP 52

NEMA-4,4X IP 56

RATING (TRADITIONAL)

161 BTU/hr @ 0 °F ΔT

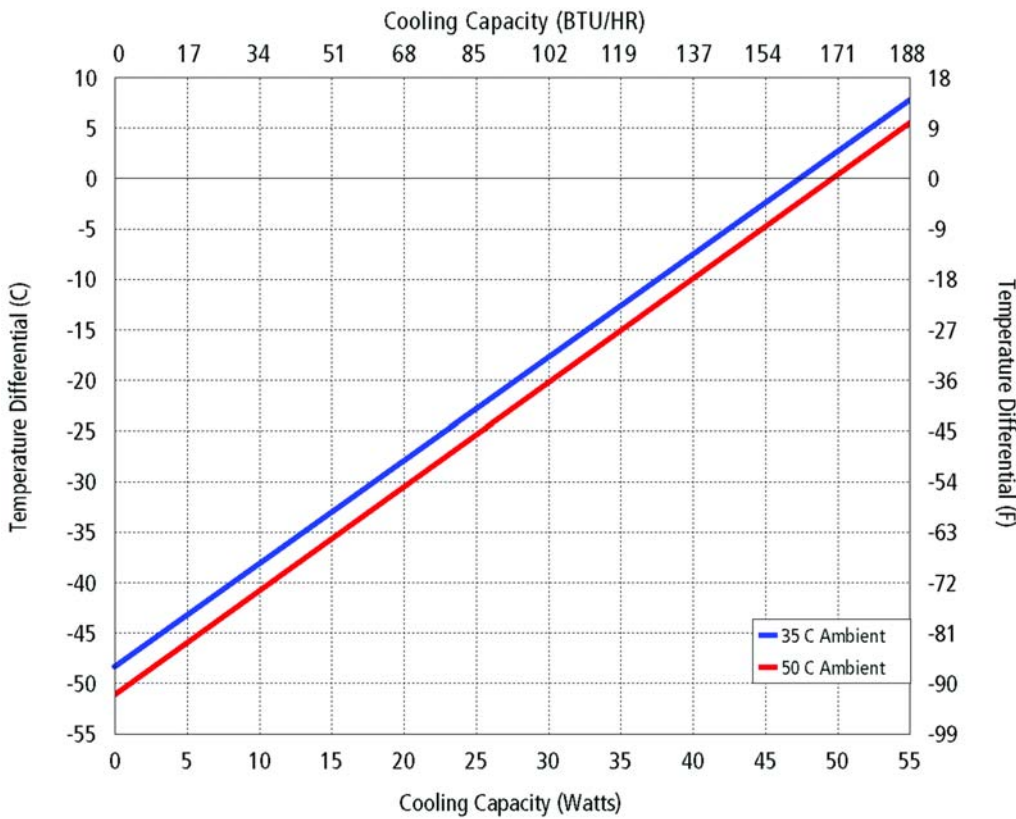
198 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

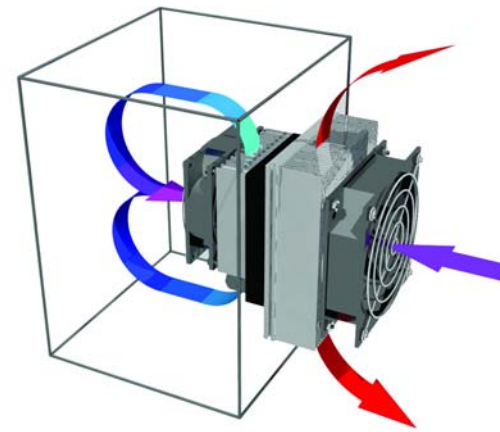
47 Watts L35 L35

35 Watts L35 L50

PERFORMANCE CURVE

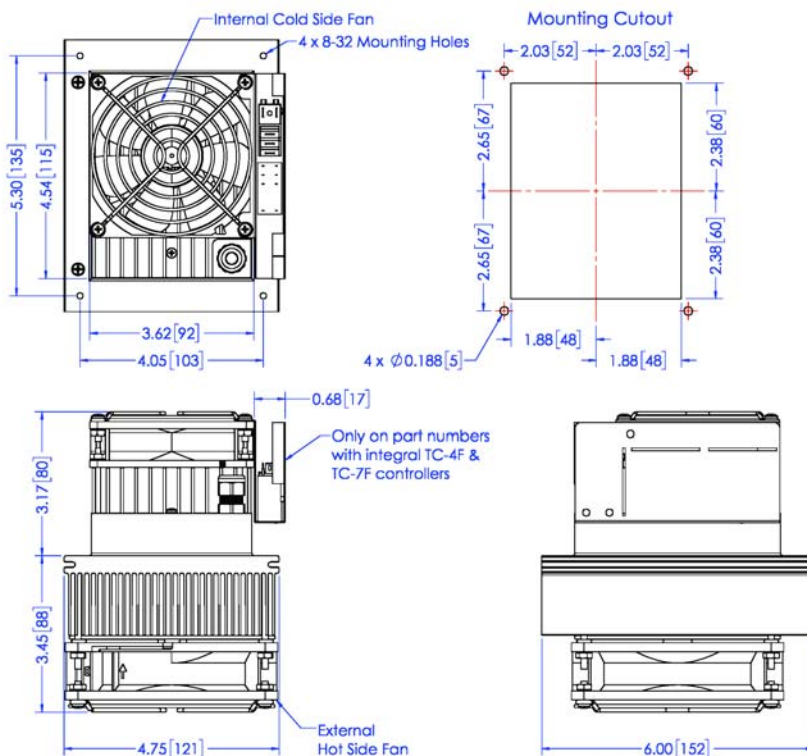


Equation of Line: $y = \Delta T(^{\circ}\text{C})$ $x = \text{Capacity (Watts)}$		
Ambient Temp	35°C	50°C
Enclosure Air	$y = 1.02x - 48.3$	$y = 1.03x - 51$
Cold Sink	$y = 0.78x - 48.3$	$y = 0.79x - 51$



Air Flow Pattern

DIMENSIONS



Dimensions do not include hardware & sealant
Mounting hardware & gasket included but not shown
Dimension: Inches [Millimeters]