FHP-451 | Air Conditioner

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

120 VAC or 240 VAC
300 BTU/HR

FEATURES

- Compact (only 10" X 5.86" X 9")
- 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)
- Operating ambient temperature range -40/+70 °C
- Operating enclosure temperature range -10/+60 °C
- Weight 18 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

PERFORMANCE RATINGS

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

POWER INPUTS

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

INCLUDES

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

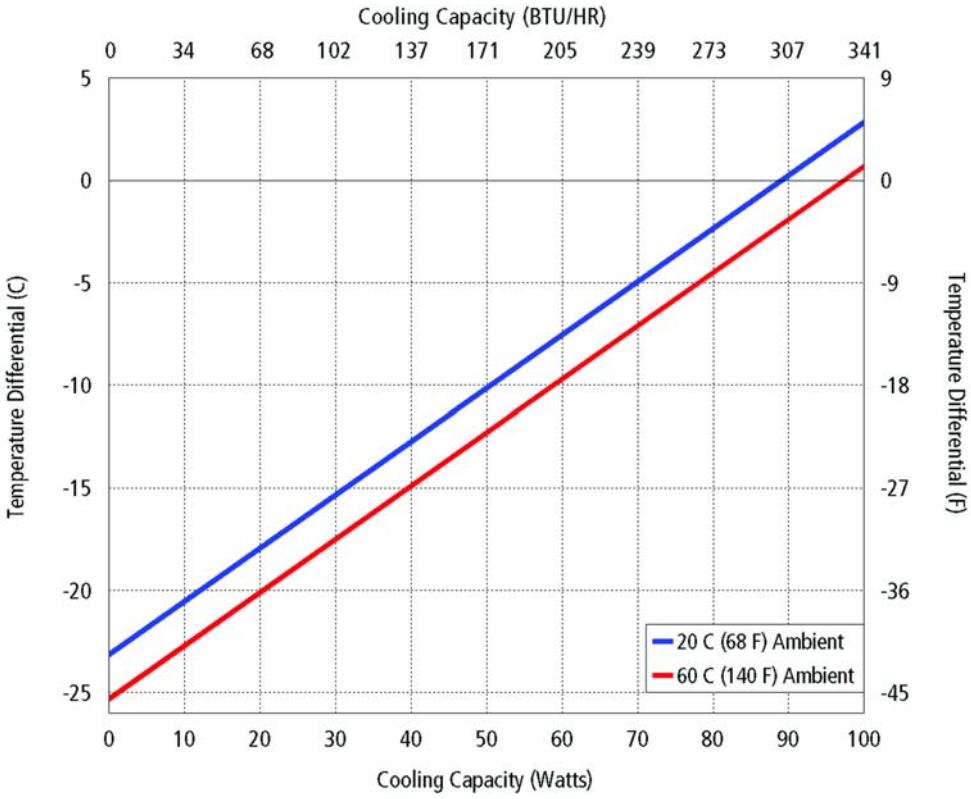
CONFIGURATIONS

MODEL	PART NUMBER	NOTES	VOLTAGE VAC	CURRENT AMPS	TEMPERATURE CONTROL	ENVIRONMENT
FHP-451	7-F090-0-000	Cool only	120	1.3	None	Nema-12, IP 52
FHP-451	7-F080-0-000	Cool only	120	1.3	TC-6F	Nema-12, IP 52
FHP-451	7-F0F0-0-000	Cool only	120	1.3	TC-1F	Nema-12, IP 52
FHP-451	7-F050-0-000	Cool only	120	1.3	EXT*	Nema-12, IP 52
FHP-451HC	7-F030-1-000	Heat/Cool	120	1.3	TC-3F	Nema-12, IP 52
FHP-451XE	7-F090-4-000	Cool only	120	1.3	None	Nema-4/4X, IP 56
FHP-451XE	7-F080-4-000	Cool only	120	1.3	TC-6F	Nema-4/4X, IP 56
FHP-451XE	7-F0F0-4-000	Cool only	120	1.3	TC-1F	Nema-4/4X, IP 56
FHP-451XE	7-F050-4-000	Cool only	120	1.3	EXT*	Nema-4/4X, IP 56
FHP-451XEHC	7-F030-5-000	Heat/Cool	120	1.3	TC-3F	Nema-4/4X, IP 56
FHP-452	7-F092-0-000	Cool only	240	0.70	None	Nema-12, IP 52
FHP-452	7-F082-0-000	Cool only	240	0.70	TC-6F	Nema-12, IP 52
FHP-452	7-F0F2-0-000	Cool only	240	0.70	TC-1F	Nema-12, IP 52
FHP-452	7-F052-0-000	Cool only	240	0.70	EXT*	Nema-12, IP 52
FHP-452HC	7-F032-1-000	Heat/Cool	240	0.70	TC-3F	Nema-12, IP 52
FHP-452XE	7-F092-4-000	Cool only	240	0.70	None	Nema-4/4X, IP 56
FHP-452XE	7-F082-4-000	Cool only	240	0.70	TC-6F	Nema-4/4X, IP 56
FHP-452XE	7-F0F2-4-000	Cool only	240	0.70	TC-1F	Nema-4/4X, IP 56
FHP-452XE	7-F052-4-000	Cool only	240	0.70	EXT*	Nema-4/4X, IP 56
FHP-452XEHC	7-F032-5-000	Heat/Cool	240	0.70	TC-3F	Nema-4/4X, IP 56

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

FHP-451

PERFORMANCE CURVE



Equation of Line:	y=ΔT(°C)	x=Capacity (Watts)
Ambient Temp	**20°C**	**60°C**
Enclosure Air	y=.26x-23.1	y=.26x-25.3

MOUNTING STYLE

Flush Mounted

ENVIRONMENTS SERVED

NEMA-12 IP56

NEMA-4/4X IP56

RATING (TRADITIONAL)

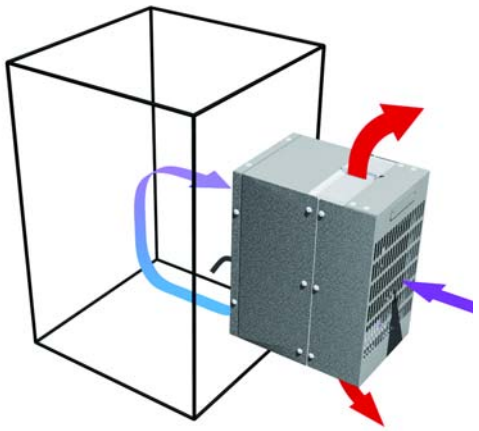
300 BTU/hr @ 0 °F ΔT

447 BTU/hr @ +20 °F ΔT

RATING (DIN 3168)

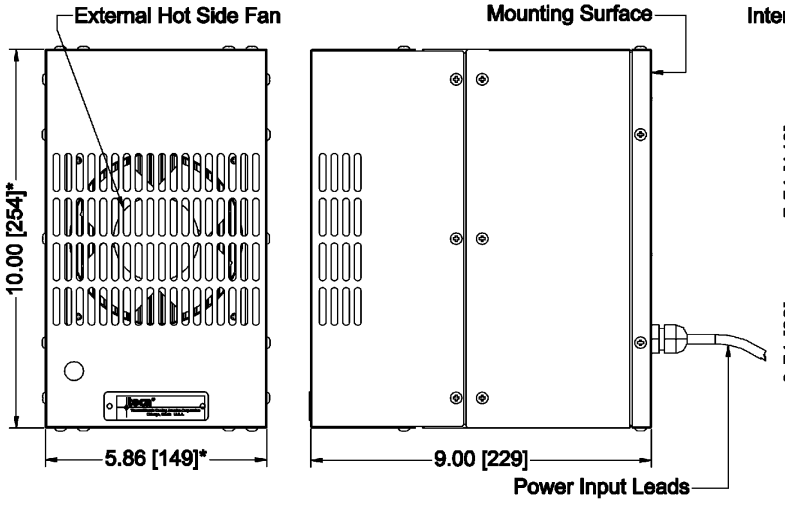
91 Watts L35 L35

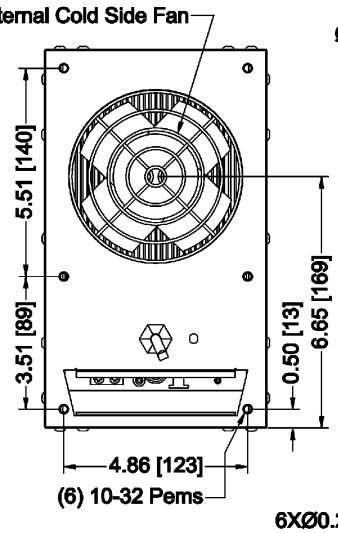
38 Watts L35 L50



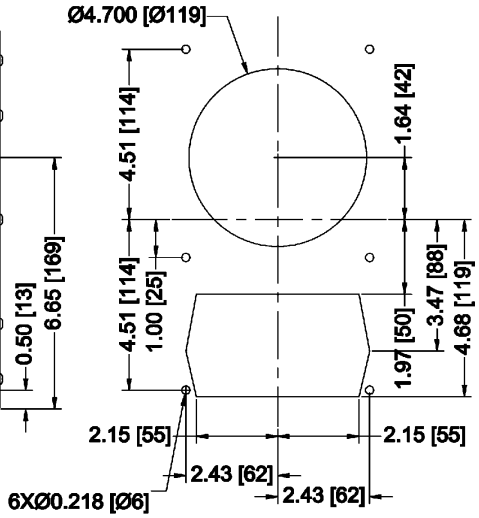
Air Flow Pattern

DIMENSIONS





MOUNTING CUTOUT DIMENSIONS



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