

# HVAC SOLUTIONS: WALL MOUNTED AIR CONDITIONERS



PART # AF000404 & AP000405

Revision: 3.5 | March 2023

## -48VDC AIR CONDITIONERS FOR TELECOM WIC AND SHELTERS



Manufactured in the USA

### FEATURES

- Small form factor, lightweight and designed for easy installation and maintenance
- Rugged construction, all-weather resistant and suitable for harsh marine environments
- Leverages success of commercial transportation HVAC designs
- 100% DC powered – eliminates the need for inverters
- High efficiency DC soft-start compressor limits in-rush current
- Copper tube with aluminum fins evaporator and condenser coils
- Factory pre-charged with commercial R134a low-pressure refrigerant, eliminating leaks, reducing maintenance
- Complies with EPA allowed refrigerant types and usage guidelines
- Integrated heating -48VDC powered (700W)
- Fully compatible with Schrofftech's NextGen Smart Controller and Simple Form A Thermostatic Control Connections

### KEY BENEFITS

- Unique condenser with scroll compressor provides efficient operation for maximum cooling in a small footprint across a broad range of ambient temperatures with low in-rush current
- Outstanding seasonally-adjusted closed-loop air conditioning performance characteristics
- High pressure & low pressure switches with lockout to protect refrigerant circuit
- Unit compatible with DC Plant, Solar, Wind, Hydro, Generator or Battery Power Input

SPECIFICATIONS	AF000404	AF000405
Dimensions, in (mm)	51 T x 21 W x 12 D (1295 x 533 x 305)	51 T x 21 W x 12 D (1295 x 533 x 305)
Weights, lbs (kg)	150 (68)	
Cooling Capacities, tons	1	1.5
Power consumption, W	2,150	3,025
Input Voltage, VDC	-35 to -65 (72 VDC transients)	
In-Rush Current	12A over 0.8 sec (<< Maximum Current)	
Operating Temperature Range, F (C)	0° to 145° (-18° to 63°)	
Storage Temperature Range, F (C)	-40° to 158° (-40° to 70°)	
Finish / Colors	Powder Coat / Pebble Grey (custom colors upon request)	

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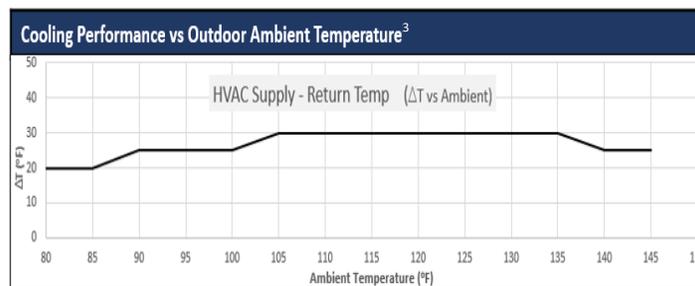
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## EQUIPMENT PERFORMANCE

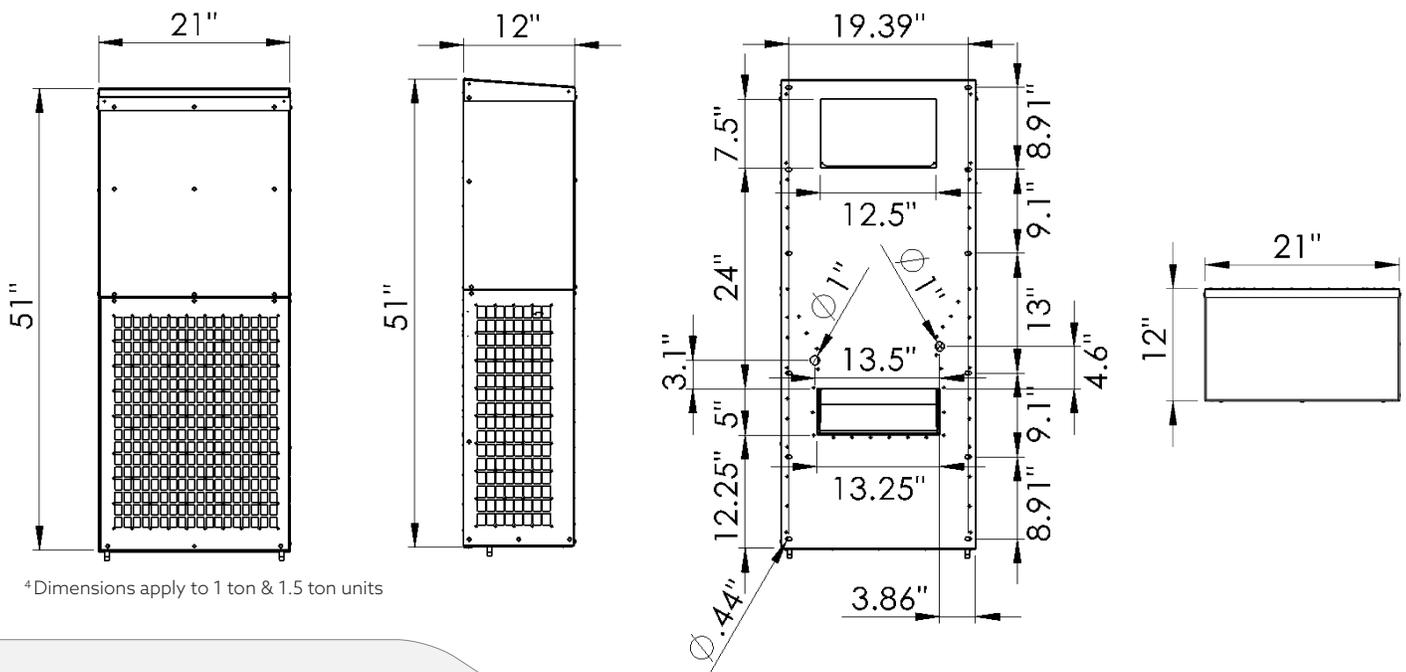
Cooling Capacity & Ratings <sup>1</sup>	AF000404 (1 ton)	AF000405 (1.5 tons)
Cooling Capacity	15,750 BTU (4,615 Watts)	24,340 BTU (7,133 Watts)
EER / SEER @ 95°F (35°C)	12 / 10	12 / 11
Rated Air Flow	670 CFM (1,138 m <sup>3</sup> /hr)	815 CFM (1,385 m <sup>3</sup> /hr)
Sensible Heat Ratio	0.78	0.79
Sensible Capacity @ 95°F (35°C) ambient	12,275 BTU (3,597 Watts)	19,230 BTU (5,636 Watts)
Heating Capacity	700W	

<sup>1</sup>Performance will vary with altitude



<sup>3</sup>Performance will vary with altitude

## DIMENSIONS<sup>4</sup>



<sup>4</sup>Dimensions apply to 1 ton & 1.5 ton units

## ABOUT RF INDUSTRIES

RF Industries (RFI) designs and manufactures a broad range of interconnect products across diversified, growing markets including wireless/wireline telecom, data communications and industrial. Our products include RF connectors, coaxial cables, data cables, wire harnesses, fiber optic cables, custom cabling, energy-efficient cooling systems and integrated small cell enclosures.

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