

# -48VDC WALL/DOOR MOUNT AIR CONDITIONER

PART # AF000405

Revision: 4.6 | June 2025



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



Manufactured in the USA

### FEATURES

- Compact and lightweight design for easy installation and maintenance.
- Rugged construction that is all-weather resistant, making it suitable for harsh marine environments.
- Utilizes proven HVAC designs from commercial transportation for enhanced reliability.
- Operates on 100% DC power, eliminating the need for inverters.
- High-efficiency DC soft-start compressor minimizes inrush current.
- Features copper tubes with aluminum fins for both evaporator and condenser coils.
- Factory pre-charged with commercial R134a low-pressure refrigerant to reduce leaks and maintenance.
- Complies with EPA regulations on refrigerant types and usage guidelines.
- Includes integrated heating -48VDC powered (500W).
- Fully compatible with RF Industries' NextGen Smart Controller and Simple Form A Thermostatic Control Connections.

### KEY BENEFITS

- The unique condenser features a scroll compressor, which ensures efficient operation and maximum cooling within a compact design. It can perform effectively across a wide range of ambient temperatures while maintaining a low in-rush current.
- The unit offers excellent seasonally adjusted closed-loop air conditioning performance. It is equipped with high-pressure and low-pressure switches, including a lockout feature to protect the refrigerant circuit.
- Additionally, the unit is compatible with various power sources, including DC plants, solar, wind, hydro, generators, or battery power inputs.

SPECIFICATIONS	AF000405
Dimensions, in (mm)	51 T x 21 W x 12 D (1295 x 533 x 305)
Weight, lbs (kg)	150 (68)
Cooling Capacities, tons	1.5
Power consumption, W	MAX 4500 W / Max 83 Amps (Elevated Ambient Temps >100°F) Typical 3300 W / Max 65 Amps (Typical Ambient Temps <100°F)
Input Voltage, VDC	-48VDC (72VDC 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	Custom colors available upon request

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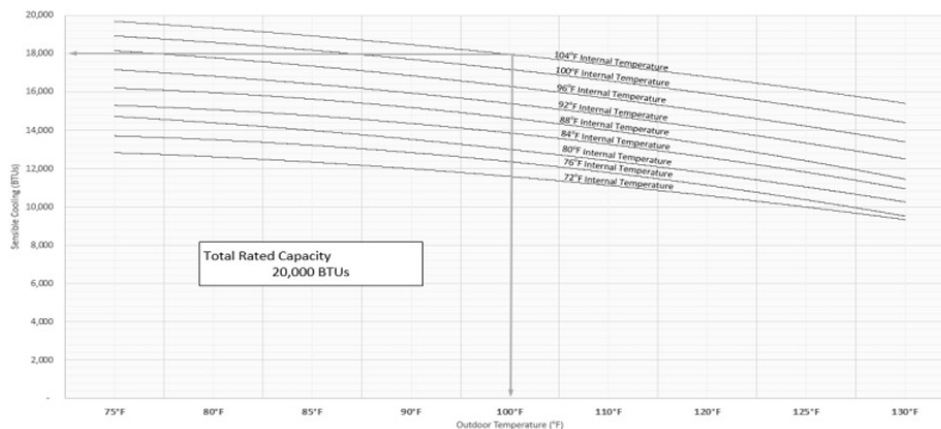


## EQUIPMENT PERFORMANCE

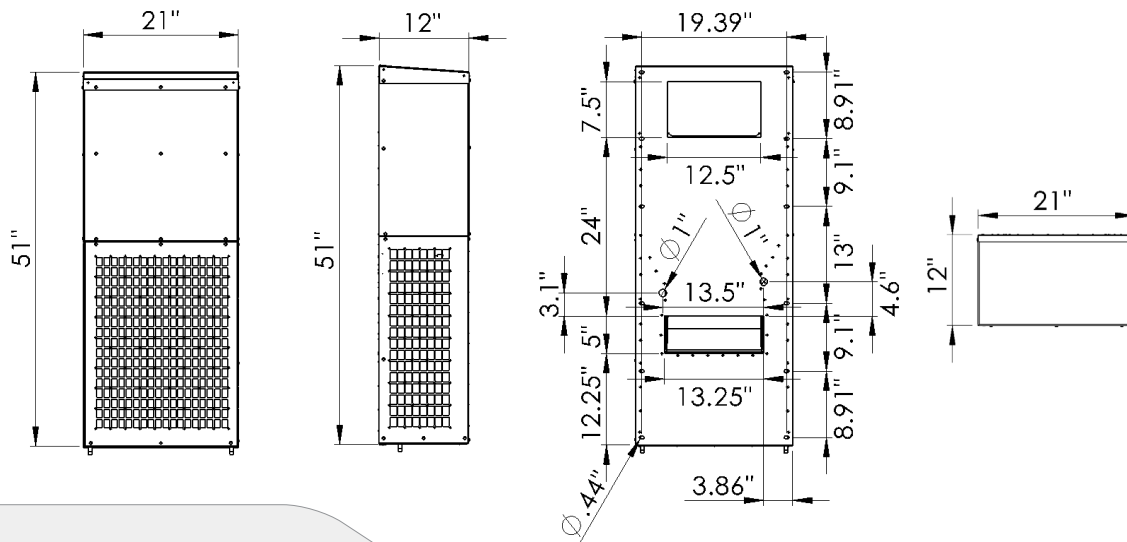
Cooling Capacity & Ratings <sup>1</sup>	AF000405 (1.5 tons)
Cooling Capacity	23,165 BTU (6,789 Watts)
EER / SEER @ 95°F (35°C)	10 / 12
Rated Air Flow	815 CFM (1,385 m <sup>3</sup> /hr)
Sensible Heat Ratio	0.79
Sensible Capacity @ 95°F (35°C) ambient	18,300 BTU (5,363 Watts)
Heating Capacity	500W

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

## AF000405 SENSIBLE COOLING CAPACITY CURVES



## DIMENSIONS



## 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.

