

# DIRECT AIR COOLING (DAC): WALL MOUNTABLE SYSTEM

PART # AF000401

Revision: 2.5 | February 2024



## TELECOM SHELTER COOLING SYSTEM



### FEATURES

- Patented air-cooling system provides total environmental control for telecom shelters.
- Dual, Variable Speed, High Efficiency Blowers Apply Positive Pressure to the Shelter
- Deep Media Filter (MERV 14)  
(MERV 16 available for coastal environments)
- Fits HVAC Return or Supply Opening (3 to 6 ton)
- Controlled by Smart Controller (AF000400) that manages up to 2 HVAC units.
- Reduces Compressor Cycling, Extends life of HVACs and Reduces HVAC maintenance costs

### BENEFITS

- -48VDC Powered; cools on backed up power during power outages
- Reduces electricity spend for site cooling
- Blocked Filter alarm sensor
- Designed for ease of installation (no cranes required)

### SPECIFICATIONS

|   |   |
|---|---|
| Dimensions (Wall Unit), in – see page 2   | 37 W x 40 H x 22.5 D                    |
| Dimensions (Exhaust), in – see page 2     | 23 W x 26 H x 3 D                       |
| Weight (Wall DAC Unit) <sup>1</sup> , lbs | 150                                     |
| Colors (Powder Coat)                      | Cool White (other colors can be quoted) |
| Equipment heat-load, kW                   | Up to 12                                |
| Operating Temperature Range, F            | -20 to 140                              |
| Storage Temperature Range, F              | -40 to 158                              |

<sup>1</sup> Does not include exhaust kit or pallet weight

**Required cutouts:**  
**If openings do not pre-exist**

**WAC (intake) openings**  
Max (ideal) 32"W x 15"H  
Min (less ideal) 26"W x 8"H

**Exhaust Openings**  
Max (Ideal) 20"W x 20"H  
Min (less ideal) 16"W x 16"H

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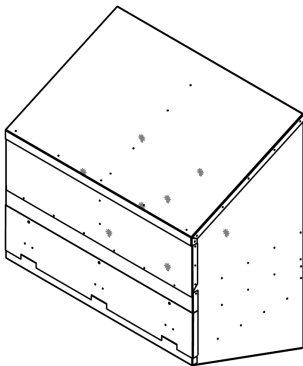
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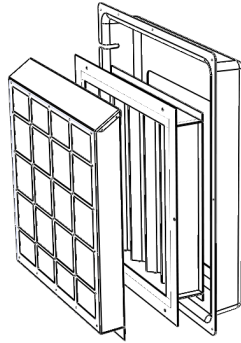


## DIMENSIONS & EQUIPMENT SETUP OPTIONS

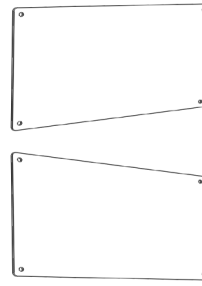
### KIT COMPONENTS



WALL INTAKE UNIT



DOOR EXHAUST

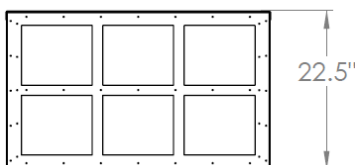
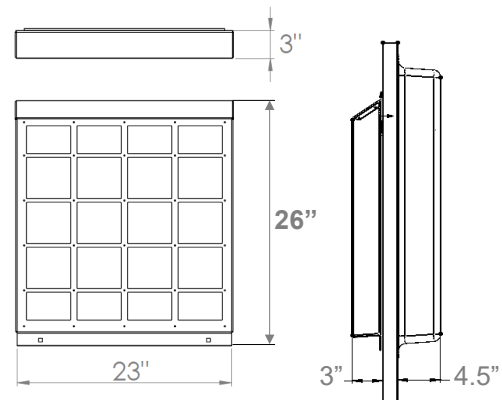
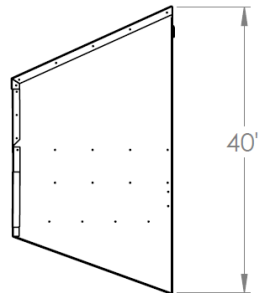
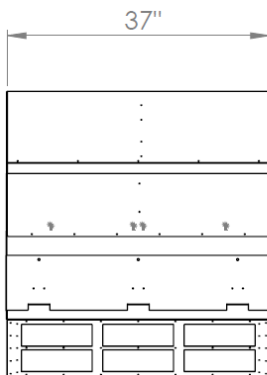


BLANKING PANELS



Spring Return Fire & Safety Damper Actuators (UL555 & UL555S) Provide Failsafe Closure of Intake & Exhaust Ports.

### DIMENSIONS



| AF000401                             | Min.          | Typ.     | Max  |
|--------------------------------------|---------------|----------|------|
| Input Voltage, Volts DC <sup>2</sup> | -36           | -48      | -60  |
| Power Consumption, W                 | 0             | Variable | 600  |
| DC Circuit Breaker Required          | -             | 20A      | -    |
| Airflow, CFM                         | 0             | Variable | 2400 |
| Temperature Range, F                 | -20           |          | +140 |
| Fans Expected Life (L10 @ 40C)       | 70,000 Hours  |          |      |
| Dampers & Actuators Expected Life    | 100,000 Hours |          |      |

<sup>2</sup> Transients of -72VDC can be tolerated

### 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.

US Patent:10,098,255 and patents pending

**RF INDUSTRIES**  
rfindustries.com | 800.233.1728  
16868 Via Del Campo Court, Suite 200  
San Diego, CA 92127

