

ENVIRONMENTAL CONTROL SYSTEM

# Vertical environmental control system

/ Model  
ECS-48V (2463)



/ 48,000 Btu/h  
(14.1 kW)

Cooling Capacity

/ 122 °F  
(50 °C)

Design Ambient Cooling

/ 131 °F  
(55 °C)

Maximum Operating Ambient

These units have been designed and tested for use on shelters, vans, and trailers that are subject to demanding transport and environmental conditions. All systems can be modified to meet your specific requirements.

MilAIR's standard product line of unitary externally mounted vertical systems provide complete environmental control including cooling, heating, ventilation, dehumidification, and filtering.

Please contact [sales@milairinc.com](mailto:sales@milairinc.com) for additional information and options.

## Vertical environmental control system

/ Model

**ECS-48V (2463)**



### Standard Features

- Sealed Motors
- MERV 13 Pleated Return Air Filter
- MERV 8 Washable Fresh Air Intake Filter
- Interface Touch Screen PLC Remote Control
- Fault Monitoring and Alarms
- Insulated Evaporator Cabinet
- Dehumidification
- External Refrigerant Access Valves
- External Refrigerant Sight Glass
- Hot Gas Bypass (HGB)
- All Aluminum Construction
- Coil Corrosion Protection

### Options

- Finish to Specification
- Analog Control Panel with Adjustable Thermostat
- Washable MERV 8 Return Air Filter

### Characteristics

Refrigerant	R407c
Compressor	Hermetic Scroll Type
Evaporator Coil	Alum. Fin/Copper Tube
Condenser Coil	Alum. Micro-Channel
Circulating Fan	Centrifugal
Condenser Fan	Propeller
Size (H x W x D)	76.0" x 40.0" x 22.0" 193.0 cm x 101.6 cm x 55.9 cm
Frame & Panels	Aluminum
Weight	480 lbs. (217.7 kg)
Control Panel	Remote HMI/PLC Logic Controller

### Performance

Cooling Capacity	48,000 Btu/h (14.1 kW)
Design Ambient Cooling	122 °F (50 °C)
Maximum Operating Ambient	131 °F (55 °C)
Minimum Ambient Cooling	40 °F (4.4 °C)
Design Return Air Temperature	90 °F (32 °C) db
Stage 1 Heating Capacity	17,061 Btu/h (5.0 kW)
Stage 2 Heating Capacity	51,182 Btu/h (15.0 kW)
Minimum Ambient Heating	-22 °F (-30 °C)
Supply Air Flow Rate	1400 CFM (39.6 CMM)
Fresh Air Flow Rate	40 CFM (1.1 CMM)
Evaporator Static Pressure	1.12 Inch Water

### Electrical

Input Voltage	208 VAC
Number of Phases	3Φ
Frequency	50/60 Hz
Max Power Draw	16 kW (Heating)
Wires	3-Wire + GND
Control Power	24 VDC

### Trusted Partner.

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