

Optima2

Modular Design CRAC

With inverter compressor, EC fan, DFC, NetOne control

Engineered for Data Centers

Capacity **40kW** × N

AIRSYS
Balance the Environment



Product advantage

Modular design

Up to 16 units combined into one

Multi-unit control

Remote manage all 16 units on one OP2MUC

Compact size

V-type evaporator and condenser with the smallest footprint

DFC

Direct Fresh Air Economizer to perform cooling by fresh air at low ambient temperature

Low ambient kit

Allows units to operate down to -40°F



Smart HMI touch screen

- 7" massive touch screen
- The graphical display shows device operation and environment status



Efficiency

- PUE under 1.1
- Direct free-cooling available
- EC fan
- Inverter compressor
- Re-heater with Multi-stage

High Reliability

- MTBF > 100,000 hrs
- Top-brand components
- Balancing the unit's operation time automatically

Modular Design

- Up to 16 modules into one unit with cooling capacity ranging from 15~640kW
- Easy to extend the cooling capacity

Flexibility

- Modules could be installed side by side.
- Combine the multi-unit into one unit

Easy Installation

The Unit size is designed for elevator lift-up



OP2MUC

- Manages up to 16 CRAC units
- Manages up to 4 independent control zones, each with its own setpoint, alarm, and backup units
- This is ideal for hot/cold aisle containment and other compartmentalized buildings
- Smart control: changeover between free cooling, partial free cooling, and mechanical cooling
- Balancing the Units' operation time automatically
- Checking each unit every parameter

Protocol Support

SNMP, HTTP, MODBUS RTU, MODBUS TCP and BACnet optional



AIRSYS Cooling Technologies, Inc

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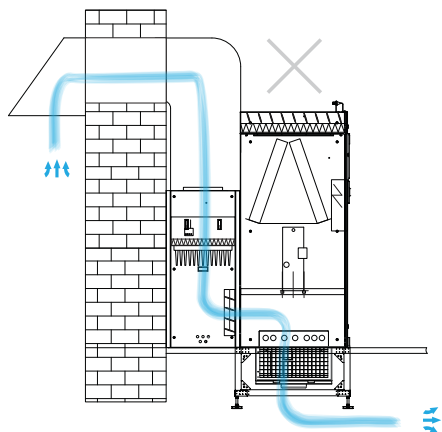
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🌐 <https://airsysnorthamerica.com>

Product design and specification subject to change without prior notice.

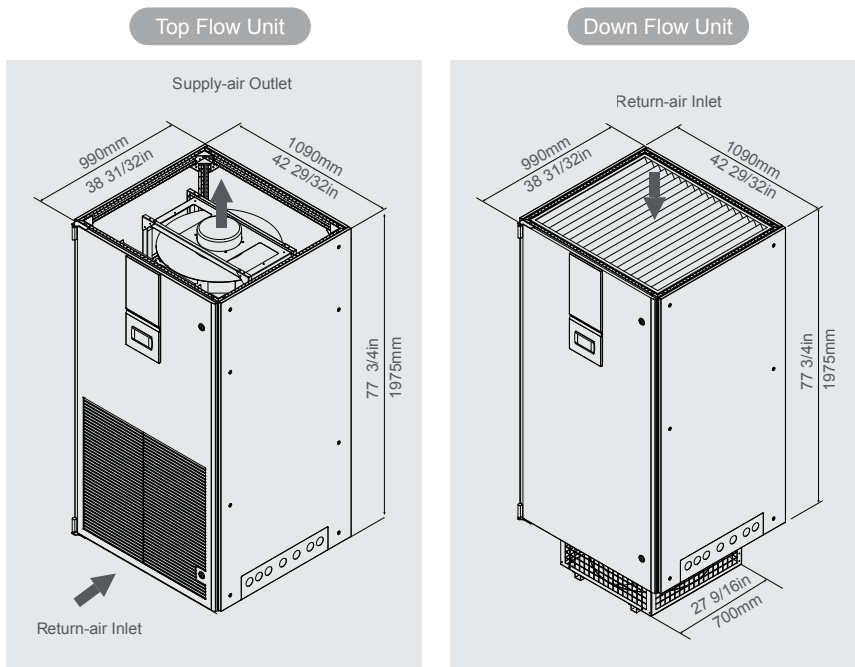
DFC Airflow



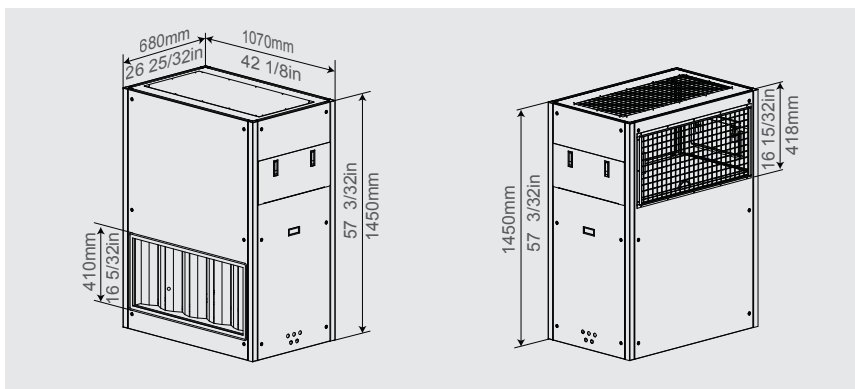
Unit Specification

Model	040V1
Air Flow Scheme	Topflow/Downflow
Refrigerant Type	R410A
Power Supply	460V/3Ph/60Hz Or 208~230V/3PH/60Hz
Nominal Cooling Capacity	43(146,760) kW (BTU/h)
Air Volume	11,170 m ³ /h 6,580 CFM
Direct Free Cooling (Optional)	DFC
Electrical Heater (Optional)	6kW/9kW Electrical Heater
Humidifier (Optional)	Electrode type: 7lbs/hr/11-18lbs/hr/5-8kg Infrared type: 9lbs/hr
Unit Piping Connection	
Humidifier water supply Φ	1/2in (12.7mm)
Condensate water drainage Φ	3/4in (19.1mm)
Standard Refrigerant discharge	1in (25.4mm)
Standard Refrigerant liquid	5/8in (15.9mm)
Unit Dimension	77-3/4in x 42-7/8in x 39in (1975.1 x 1089.9 x 990.1mm)
Approximate Unit Weight	405kg / 893lbs
Package Dimension	84-1/4in x 46-7/8in x 4-7/8in (2140.2 x 1190.0 x 1090.2mm)
Approximate Package Weight	455kg/1003lbs
Outdoor Condenser	VMEG60Sx1
Unit Dimension	55-3/4in x 43-3/8in x 57in (1415.0 x 1100.3 x 1448.1mm)
Approximate Unit Weight	167kg/368lbs
Package Dimension	81-1/2in x 48in x 61-3/8in (2070.1 x 1220.0 x 1560.1mm)
Approximate Package Weight	344kg / 758lbs

Unit Dimension Drawing



DFC (Option)



VMEG60S

