Marvair™
AIRXCEL®, Inc.
ISO 9001 2000 REGISTERED COMPANY

DoorPac™
Environmental Control Units
Model ECU12A48-3.6

General Description

The DoorPac™ ECU12 is an environmental control unit (ECU) for cooling a telecommunications cabinet. The DoorPac is designed to be mounted on the cabinet door with the supply air discharge at the bottom of the unit. The unit has a nominal cooling capacity of 12,000 BTUH and has the controls and safeties required for the telecommunications cabinet. The DoorPac is designed for use in ambients from 0°F (-18°C) to 120°F (49°C). The low noise level makes the unit ideal for installation in urban and residential areas. A required accessory, a matching hood, provides protection from both the weather and vandals. ETL listed and tested to UL Standard 1995, 2nd Ed. & CAN/CSA-C22.2 No. 236-95, 2nd Ed.

ECU12A48-3.6


Matching Hood

Model Identification

ECU — Environmental Control Unit

12 — Nominal Cooling
12 = 12,000 BTUH

A — Voltage
A = 208/230V, 1ø, 60 Hz

48 — Series
48 = No Vent, Counterflow Design, and Door Mount (bottom discharge of cool air)

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3.6 — Electric Heat
0.0 kW (none)
3.6 kW

Unit Benefits

Designed for Operation Down to 0°F (-18°C)

- Low ambient control cycles condenser blower to maintain proper refrigerant pressures.
- Optional 3.6 kW electric heat.

Built-in Reliability

- High refrigerant pressure switches with lock-out protects refrigerant circuit.
- Time delay/anti-short cycle timer prevents rapid cycling of the compressor.
- Frost sensor protects compressor from restricted air flow or low refrigerant.

Installation Versatility and Ease

- Mounts in door.
- Alarm test button.

Remote Alarm Capability

- Dry contacts can be used for remote alarm or notification upon high pressure lockout.

Rugged Construction

- Copper tube, aluminum fin evaporator and condenser coils.
- High efficiency compressor.
- Painted steel cabinet and hood.
- Return air filter.

Ease of Service & Installation

- All service access from front and back of unit.
- Side flanges secure the unit to the cabinet.
- Top flange for weather seal.
- Bottom flange provides additional support for the unit.

Accessories

- External hood (required) provides vandal protection and blends unit into cabinet exterior.
- Fixed position supply grille.
- Internal thermostat - factory installed.
- Return grille.

DoorPac PD 12/02-5
Supersedes DoorPac PD 6/01-4

Summary Ratings

Model	Electric Heat	Nominal BTUH Heat	Nominal BTUH Cool	CFM/ESP	MCA	MFS	Total Run Amps Cool	Total Run Amps Heat
ECU12	3.6 kW	12,287	12,000	420/.15	20	20	6.4	16.0

Heating kW shown for 240V. Derate 240V by 25% for 208V service. The above chart should be used as a general guideline for estimating conductor size and overcurrent protection for the unit models listed. For specific requirements, refer to the data label attached to the unit cabinet.

MCA = Minimum Circuit Ampacity (Wiring Size Amps)
MFS = Maximum External Fuse or External HACR Circuit Breaker Size.

Electrical Characteristics

	Compressor		Condenser Blower Motor			Indoor Blower Motor		
Model	RLA	LRA	RPM	FLA	HP	RPM	FLA	HP
ECU12	4.8	26.3	1050	1.5	1/4	1600	.95	1/8

RLA = Rated Load Amps LRA = Locked Rotor Amps
FLA = Full Load Amps

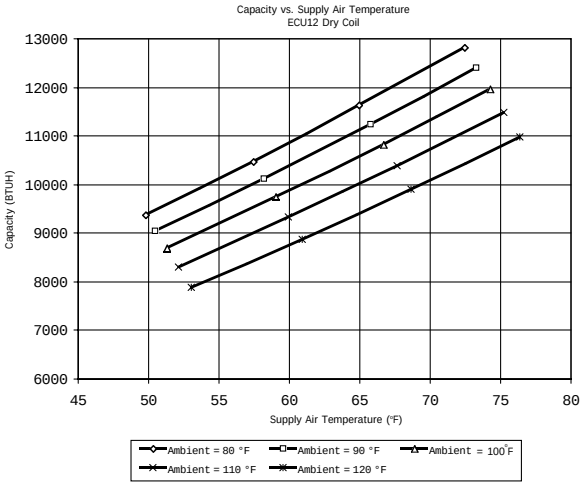
Air Flow

CFM @ ESP (Dry Coil)

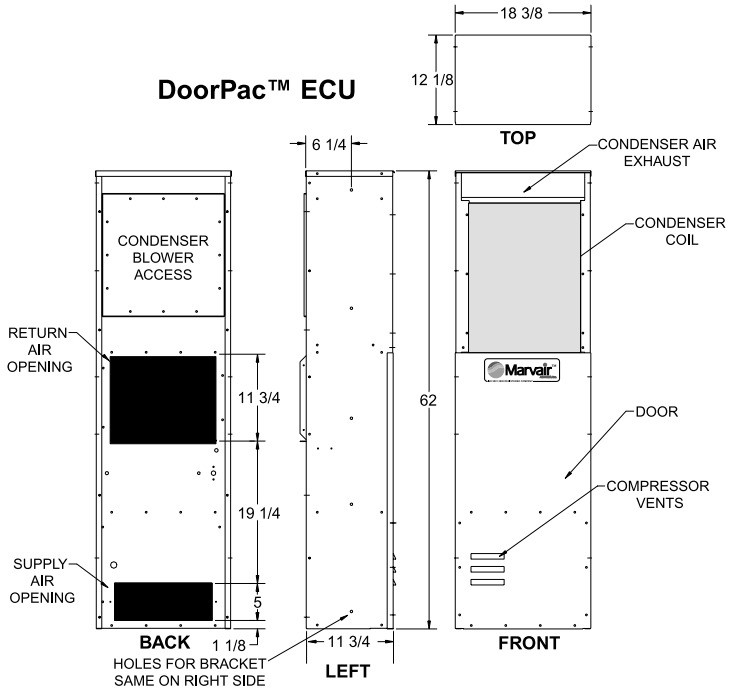
Model	.00	.05	.10	.15	.20	.25
ECU12	510	470	450	420	390	360

CFM = Cubic Feet/Minute Indoor Air Flow ESP = External Static Pressure in Inches WG

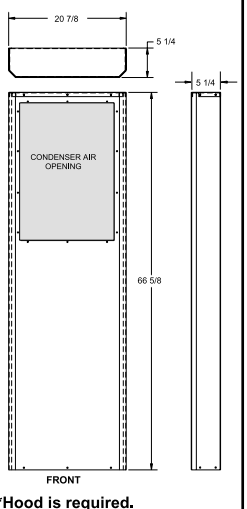
Capacity vs. Supply Air Temperature



Dimensional Data

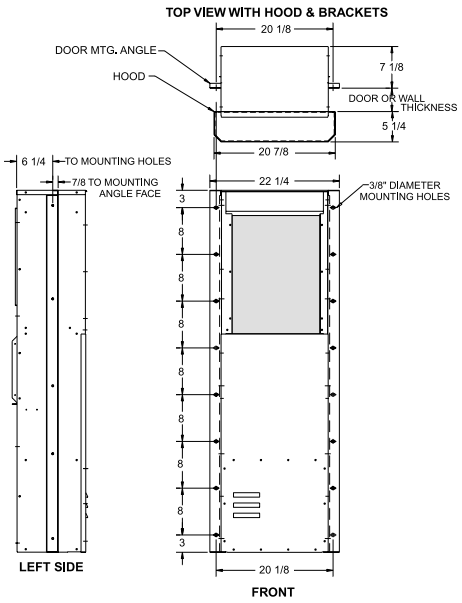


Hood*



*Hood is required.

Views with Side Mounting Bracket



Unit weight: 150 lbs

Please consult the Marvair™ website at www.marvair.com for the latest product literature. Complete installation instructions are in the DoorPac™ ECU I&O Manual. Detailed dimensional data available upon request. A complete warranty statement can be found in each product's Installation/Operation Manual, on our website or by contacting Marvair at 229-273-3636. As part of the Marvair continuous improvement program, specifications are subject to change without notice.

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