



## DR90A1000

### Ventilating Dehumidification System

#### SPECIFICATION DATA

#### DR90 Capacities and Performance

Part Number:	DR90A1000
Blower:	235 CFM @ 0.0 in. WG 175 CFM @ 0.6 in. WG
Supply Voltage:	120 VAC; 60 Hz.
Amps:	6.7 A
Power transformer to R/C terminals:	24 VAC, 0.85A
Energy performance:	2.5 liters (5.3 pints) per kilowatt hour (KWH)
Refrigerant:	R-410A
Operating Temp Range (outside cabinet):	34 – 135 °F (1.1 – 57.2 °C)
Capacity:	47 pints/day (60 °F [15.6 °C], 60 %RH) 77 pints/day (70 °F [21.1 °C], 60 %RH) 90 pints/day (80 °F [26.7 °C], 60 %RH)
Coverage:	Up to 2800 sq. ft.
Duct Connections:	6 in. Supply Inlet 10 in. Round Inlet 10 in. Round Outlet (ABS Plastic)
Filter Efficiency:	Standard MERV-11
Drain Connection:	3/4 in. threaded female NPT, with attached 3/4 in. threaded male NPT
Dimensions (See Fig. 1):	
Width:	14-3/8 in.
Height:	21-9/32 in.
Length:	33-7/16 in. (without collars) 39-13/16 in. (with collars)
Weight:	92.2 lbs (41.9 Kg)
Shipping Specs	
Width:	18-1/2 in.
Height:	21-1/2 in.
Length:	40-1/2 in. (with collars)
Weight:	102 lbs (46.3 Kg)
Optional Parts	
Compressor run capacity:	50049536-001
Blower Assembly:	50027976-001
Filter:	50049536-003
6-in. Duct Collar:	50049536-004
10-in. Duct Collar:	50049536-005
Magnetic door:	50049536-006
Compressor relay, SPST, 24 VAC,30A:	50035445-014
Fan relay, SPDT, 24 VAC, 15A:	50035445-011
Transformer 120/24 VAC, 40VA:	50035445-013

ETL Listed. Energy Star Rated. Conforms to UL Std. 474.

For more information call 1-800-468-1502 or visit our website at [customer.resideo.com](http://customer.resideo.com).

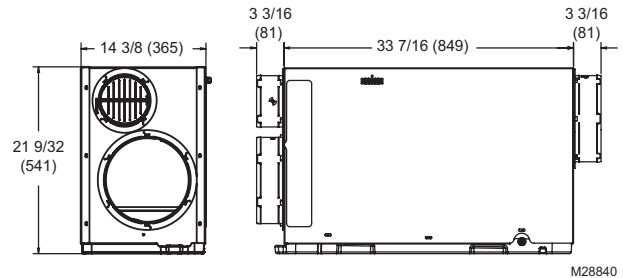


Fig. 1. Dimensions in in. (mm).

The DR90 ensures the home is maintained at proper humidity levels through its high performance and efficiency.

- Remove up to 90 pints of water per day from the indoor air
- Built in fresh air supply
- Air Filtration

#### Dehumidification

The DR90 dehumidifier utilizes refrigeration and internal air circulation to cool the incoming air stream below its dew point. This cooled and drier air is used to pre-cool the incoming air stream resulting in a significant increase in overall efficiency.

After helping to cool the incoming air, the processed air is reheated by passing through the condenser coil. The heat removed by the evaporator coil is returned to the air stream, resulting in an overall temperature increase to the processed air.

The DR90 is controlled by a variety of 24 volt remote wired controls.

#### Fresh Air Ventilation

Optional fresh outdoor air may be ducted to the unit via a six-inch round duct. This provides fresh air to dilute pollutants and maintain a normal oxygen content in the air. The amount of fresh air ventilation can be regulated by a variety of dampers and controls.

#### Air Filtration

The DR90 includes air filtration to keep the DR90's condenser coils clean. A MERV-11 media filter is standard.

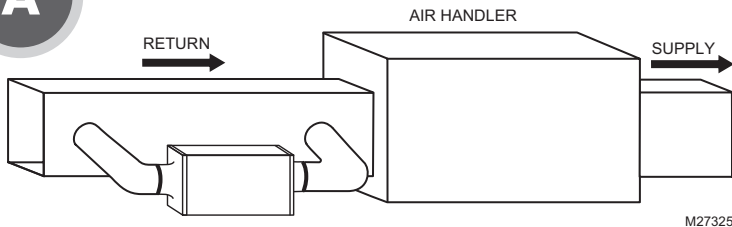
Dimensions: 3/4 in. (D) x 13-3/4 in. (H) x 13-3/4 in. (W)



# Installation Recommendations and Options

**A**

## Main Return to Main Return

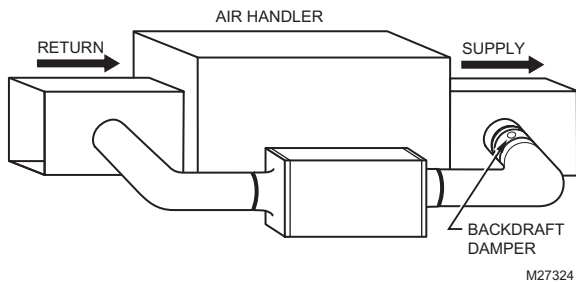


Ideal when...

- Running DR90 with A/C operation.
- Minimizing discharge air temperature (DAT) increase is preferred.
- Space dictates.

**B**

## Main Return to Main Supply

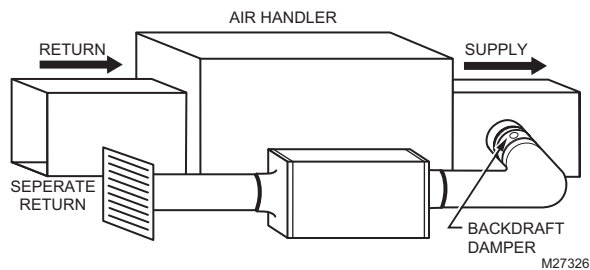


Ideal when...

- Running DR90 opposite A/C operation.
- Running with A/C operation requires damper on the exhaust port to minimize backdraft when DR90 is not on but A/C is.
- Minimizing DAT increase is preferred.
- Space dictates.

**C**

## Dedicated Return to Main Supply

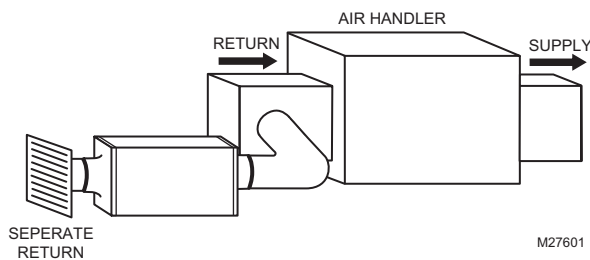


Ideal when...

- Drying a specific area of the house.
- Running with A/C operation requires backdraft damper on the exhaust port to minimize backdraft when DR90 is not on but A/C is.
- Minimizing DAT increase is preferred.

**D**

## Dedicated Return to A/C Return

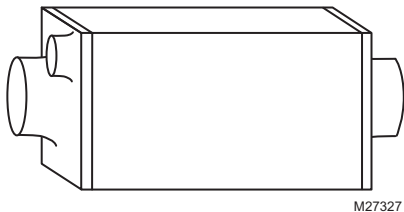


Ideal when...

- Running DR90 with A/C operation.
- Drying a specific area of the house.
- Minimizing DAT increase is preferred.

**E**

## Unducted



Ideal when...

- Drying a specific conditioned or unconditioned area, such as attic, basement, or crawl space.
- Balanced dehumidification is needed without ventilation.
- Minimizing DAT is not a concern.

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