

Meetinghouse Dehumidification Technical Support Document

Honeywell TrueDry™

February 2025
Revision 3

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Overview

This manual is to assist contractors and facility mechanics in the installation of the Honeywell TrueDry by Resideo dehumidification unit(s). Given proper installation this system will assist in reducing the overall building humidity. This system and design will not replace the need to seal the building. It is recommended that outdoor air dampers are checked for proper close off, that exhaust dampers are checked for proper installation.

There are three models of TrueDry dehumidification units.

DR65A3000- Which is recommended for areas up to 1800ft² areas such as Relief Society and Primary rooms.

Specifications

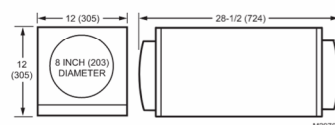
Install DR65A3000 according to National Electric Codes.

Dry-Bulb Temp	Intake Humidity	Capacity (Pints/Day)
80°F (26.7°C)	60% RH	65
70°F (21.1°C)	60% RH	47
60°F (15.6°C)	60% RH	34

Home Size (square ft) @ 8 ft ceiling	Dehumidifier Capacity Required to Maintain Desired Indoor RH*		
	60% RH Indoor (pints/day)	50% RH Indoor (pints/day)	40% RH Indoor (pints/day)
2080	49–54	55–58	71–78
2600	61–68	65–72	90–97
3120	75–82	79–86	95–110

* Based on extreme climates where outdoor humidity is 70-90% RH. For less extreme climates, larger homes can be adequately served with less capacity. Actual requirements may vary.

Dimensions in inches and (mm):



Airflow versus external static pressure (0–1" water pressure) with collars attached

0"	160 CFM
0.2"	140 CFM
0.4"	120 CFM
0.6"	100 CFM

Product weight: 60lb (27 Kg)

Shipping weight: 68lb (31 Kg)

Shipping dimensions: 16.7" H x 17" W x 32.9" L

Media Filter: MERV 8, 9" H x 11" W x 0.75" D

Drain connection: 3/4" threaded female NPT connection.

Duct connections: 8" round inlet and outlet, ABS plastic, compatible for connection to rigid or flexible ducting with sheet metal screws and/or tape.

Cabinet: 20 gauge galvanized steel powder-coat painted.

Insulation: R value 1

Compressor: Rotary-style, 6.1 KBTU

Refrigerant: R-410A, 15 oz.

Operating Temp Range (outside cabinet): 34°F to 135°F (1.1°C to 57.2°C)

Operating Humidity Range: 0-99% RH

Input ratings

- Electrical input voltage: 120 VAC, 60 Hz nominal
- Input current: 4.9 A

Output ratings

- Power transformer to R/C terminals:** 24 VAC, 0.85 A
- Energy Performance:** 1.9 liters (4.01 pints) per kilowatt hour (KWH)

Standards and approval body requirements

- ETL Listed per UL 60335-1, 60335-2-40, CSA C22.2 No. 60335-1 and 60335-2-40

DR90A3000- Which is recommended for areas up to 2800ft² areas such as the Chapel or Cultural Centers.

DR90 Specifications

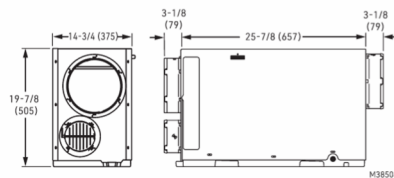
Install DR90A3000 according to National Electric Codes.

Dry-Bulb Temp	Intake Humidity	Capacity (Pints/Day)
80°F (26.7°C)	60% RH	90
70°F (21.1°C)	60% RH	65
60°F (15.6°C)	60% RH	47

Home Size (square ft [m])	Dehumidifier Capacity Required to Maintain Desired Indoor RH*		
	60% RH Indoor (pints/day)	50% RH Indoor (pints/day)	40% RH Indoor (pints/day)
2080 (193.2)	49-54	55-58	71-78
2600 (241.5)	61-68	65-72	90-97
3120 (289.9)	75-82	79-86	95-110

* Based on extreme climates where outdoor humidity is 70-90% RH. For less extreme climates, larger homes can be adequately served with less capacity. Actual requirements may vary.

Dimensions in inches and (mm):



Product weight: 86 lbs.
Shipping weight: 95 lbs.
Shipping dimensions: 25.2" H × 19.3" W × 35.8" L
Media Filter: MERV 8, 14" H × 17.5" W × 1.75" L
Drain connection: 3/4" threaded female NPT connection.
Duct connections: 10" round inlet and outlet. 6" supply inlet.
 ABS plastic, compatible for connection to rigid or flexible ducting with sheet metal screws and/or tape.
Cabinet: 20 ga
Insulation: R value 1
Compressor: Rotary, 7.3 KBTU
Refrigerant: R-410A, 25 oz
Operating Temp Range (outside cabinet):
 34°F to 135°F (1.1°C to 57.2°C)
Operating Humidity Range: 0-99% RH

Airflow versus external static pressure (0-1 in. [0 - 25.4 mm] water pressure) with collars attached

0 in. (0 mm)	320 CFM
0.2 in. (5 mm)	280 CFM
0.4 in. (10 mm)	260 CFM
0.6 in. (15.2 mm)	215 CFM

Input ratings

- Electrical input voltage: 110-120 VAC, 60 Hz nominal
- Input current: 5.3 A

Output ratings

- Power transformer to R/C terminals:** 24 VAC, 0.85 A
- Energy Performance:** 2.4 liters (5.07 pints) per kilowatt hour (KWH)

Standards and approval body requirements

- ETL Listed per UL 60335-1, 60335-2-40, CSA C22.2 No. 60335-1 and 60335-2-40
- ENERGY STAR rated.

DH120A3000- Which is recommended for larger areas up to 3600ft² areas such as the Chapel or Cultural Centers, Conference rooms.

DR90 Specifications

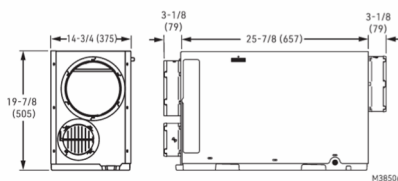
Install DR90A3000 according to National Electric Codes.

Dry-Bulb Temp	Intake Humidity	Capacity (Pints/Day)
80°F (26.7°C)	60% RH	90
70°F (21.1°C)	60% RH	65
60°F (15.6°C)	60% RH	47

Home Size (square ft [m])	Dehumidifier Capacity Required to Maintain Desired Indoor RH*		
	60% RH Indoor (pints/day)	50% RH Indoor (pints/day)	40% RH Indoor (pints/day)
2080 (193.2)	49–54	55–58	71–78
2600 (241.5)	61–68	65–72	90–97
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* Based on extreme climates where outdoor humidity is 70-90% RH. For less extreme climates, larger homes can be adequately served with less capacity. Actual requirements may vary.

Dimensions in inches and (mm):



Product weight: 86 lbs.
Shipping weight: 95 lbs.
Shipping dimensions: 25.2" H x 19.3" W x 35.8" L
Media Filter: MERV 8, 14" H x 17.5" W x 1.75" L
Drain connection: 3/4" threaded female NPT connection.
Duct connections: 10" round inlet and outlet. 6" supply inlet.
 ABS plastic, compatible for connection to rigid or flexible ducting with sheet metal screws and/or tape.
Cabinet: 20 ga
Insulation: R value 1
Compressor: Rotary, 7.3 KBTU
Refrigerant: R-410A, 25 oz
Operating Temp Range (outside cabinet):
 34°F to 135°F (1.1°C to 57.2°C)
Operating Humidity Range: 0-99% RH

Airflow versus external static pressure (0–1 in. [0 – 25.4 mm] water pressure) with collars attached

0 in. (0 mm)	320 CFM
0.2 in. (5 mm)	280 CFM
0.4 in. (10 mm)	260 CFM
0.6 in. (15.2 mm)	215 CFM

Input ratings

- Electrical input voltage: 110-120 VAC, 60 Hz nominal
- Input current: 5.3 A

Output ratings

- Power transformer to R/C terminals:** 24 VAC, 0.85 A
- Energy Performance:** 2.4 liters (5.07 pints) per kilowatt hour (KWH)

Standards and approval body requirements

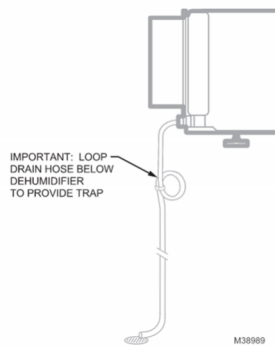
- ETL Listed per UL 60335-1, 60335-2-40, CSA C22.2 No. 60335-1 and 60335-2-40
- ENERGY STAR rated.

Installation:

The TrueDry unit should be installed level for proper drainage. It is recommended that the unit be placed in a containment pan with a pan drain to avoid building damage due to moisture leaks. Drain to a floor drain. Ensure that there is a loop to provide a trap, preventing air from entering or exiting the dehumidifier.

DR65

Plumbing



Attach 3/4" male NPT PCV drain nozzle (use teflon tape if needed). Do not over-tighten.

Connect 1/2" drain tube to male connection drain outlet.

Secure drain tube to connector with hose clamp.

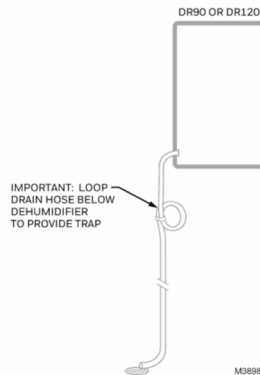
Run drain hose continuously downhill to an approved drain or condensate pump.

The drain line must include a water trap to prevent air from entering or exiting the dehumidifier.

NOTE: It is important that the DR65 is leveled for drain line to work properly.

DR90, DR120

Plumbing



Attach 3/4" male NPT PCV drain nozzle (use teflon tape if needed). Do not over-tighten.

Connect 1/2" drain tube to male connection drain outlet. Secure drain tube to connector with hose clamp.

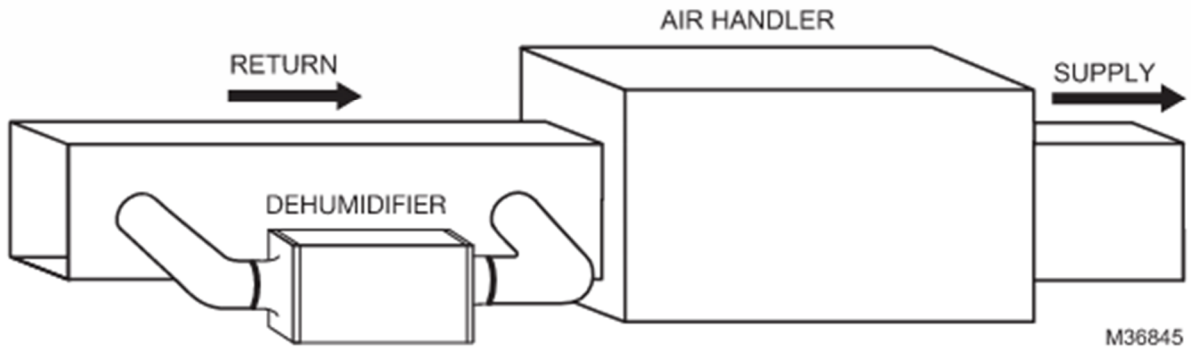
Run drain hose continuously downhill to an approved drain or condensate pump.

The drain line must include a water trap to prevent air from entering or exiting the dehumidifier.

NOTE: It is important that the DR90/DR120 is leveled for drain line to work properly.

Install as per shown below.

Main Return to Main Return



It may also be installed with a duct from the return to the supply, across the fan coil unit/furnace. Using this method requires the installation of a backdraft damper.

Refer to new building drawings and specifications for wiring diagrams and schematics.

Programming

Use the thermostat programming feature to set dehumidification level to 65percent. Program the fan to run with a call for dehum”.

Contact Information-

For support questions please contact your local Honeywell distributor which sold the product.

Technical documents for the TrueDry units can be found at:

<https://customer.resideo.com/en-US/Pages/department.aspx?cat=HonECC%20Catalog&category=Dehumidification&catpath=1.2.9.1.1>