

ComfortDry CD55 & CD90

Dehumidification Systems



PRODUCT DATA SHEET



Overview

Controlling humidity in your indoor environment is one of the single most beneficial things you can do for your health and comfort. Too much humidity leads to sticky, uncomfortable environments ripe for dust mites, bacteria, and mold growth. Too little humidity leaves you open for dry, uncomfortable conditions and static electricity. As with most things in life, moderation is the key. The optimum zone for indoor humidity levels is between 40 and 60 percent. Conditions outside of these parameters can lead to uncomfortable or unhealthy indoor environments.

TRION's ComfortDry CD55 dehumidifier is the smallest and most economical family member targeted to support small to medium sized residential requirements. The CD55 is an ideal solution to provide moisture removal within basements and crawlspaces, or be fully integrated with residential HVAC systems for whole home dehumidification (via available accessory kit) in living areas up to 2000 square feet.

For larger living areas, the ComfortDry CD90 is a high performance dehumidification system able to function as a standalone unit in large basements and crawlspaces, or can be integrated into an overall HVAC system for residential living areas of up to 3500 square feet.

Technology

TRION's ComfortDry CD55 and CD90 dehumidifiers were developed to cost-effectively satisfy the new USA Department of Energy's minimum efficiency rules and regulations for dehumidifiers^{1,2}. Dehumidifier systems currently available from other brands will not meet the new DOE requirements effective in 2017.

Operational Benefits

ComfortDry CD55 and CD90 are flexible and capable of supporting dehumidification as part of whole home HVAC systems, or have the ability to operate standalone to support crawlspace or basement dehumidification applications.

Control Options

ComfortDry CD55 & CD90 support three control options:

1. In standalone operation, with the built-in controller including CPU, display, and humidistat, or
2. Can use with an independent humidistat, or
3. Can use with a consolidated thermostat/humidistat

Mounting

In basement and crawlspace operations, the CD55 and CD90 can function standalone and may be used without duct connections. All that is required are electrical power and a drain connection for condensate water output. In addition, both units have adjustable feet for easy leveling into uneven flooring and grounds.

For whole home applications, both units easily support flex-hose connection to existing return and supply ducting.

Key Product Features and Specifications

- Efficient and compact units provide 1000 to 3500 square feet of coverage
- Small form factor/footprint supports separate rooms, whole homes, crawlspaces, and basement applications
- Energy-efficient performance meets new DOE requirements
 - CD90 removes up to 90 pints of water per day at 2.8 L/kWh (at 80°F, 60% RH)
 - CD55 removes up to 55 pints of water per day at 2.53 L/kWh (at 80°F, 60% RH)
- ENERGY STAR 4.0 certified
- Units are adaptable to support horizontal or vertical airflow, including washable filters
- Control options: standalone operation with built-in controller including CPU, display, and humidistat; or can use with independent humidistat; or can use with a consolidated thermostat/humidistat
- R410 Refrigerant
- Direct gravity drain hose can be extended

Warranty

5 years on compressor, 2 years on basic parts

¹ Dehumidifiers, 10 C.F.R. § 429.36 (2015).

² Uniform Test Method for Measuring the Energy Consumption of Dehumidifiers, 10 C.F.R. § 430 app. X-X1 (2015).

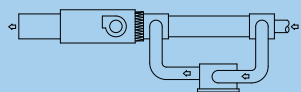
UNITS NOT FOR COMMERCIAL USE

PRODUCT DATA SHEET

Product Features & Specifications

| Model | CD55 | CD90 |
|--|---|---|
| Part No. (Uncrated) | 268512-001 | 268512-002 |
| Part No. (Crated) | 268512-111 | 268512-112 |
| Size (W x H x D) | 18" x 12" x 12" | 23.5" x 13.7" x 17" |
| Weight | 40 lbs. | 65 lbs. |
| Rated Condensate Capacity @ 80°F, 60% | 55 ppd | 90 ppd |
| Airflow @ 0.00 SP | 250 CFM | 370 CFM |
| Energy Factor @ 80°F, 60% | 2.53 L/kWh | 2.8 L/kWh |
| Current Draw @ 120VAC | 3.6 Amps | 5.5 Amps |
| Operating Temperature Range | 33°-105°F | 33°-105°F |
| Operating Relative Humidity Range | 35-95% | 35-95% |
| Sound Level | 52 dBA | 58 dBA |
| Filter Type | Rugged washable inlet (included) | Replaceable MERV 8 (included) |
| Refrigerant | R410A | R410A |
| Power Cord | 20' included | 20' included |
| Duct Collar | 8" optional inlet, 6" outlet | 12" inlet, 6" outlet |
| Control Options | Built-in self-sensing humidistat, or can be wired externally (not included) | Built-in self-sensing humidistat, or can be wired externally (not included) |
| Temperature-Controlled Automatic Defrost | Included | Included |
| Airflow Direction | Horizontal or vertical | Horizontal or vertical |
| Corrosion-Resistant Evaporator Coil | Included | Included |
| Drain Pipe | 12" hose included; optional expansion available | 12" hose included; optional expansion available |

Duct Configurations



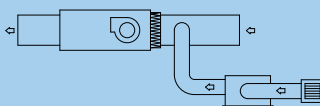
Main Return to Main Return (Recommended)

Supply duct is unavailable

Air is pulled from return duct, dehumidified, and returned to return duct

Assures mixture of dehumidified air and natural air before reentering living space

Improves A/C efficiency when having dehumidified return air



Dedicated Return to Main Supply or A/C Return

Improve circulation in isolated room

Air is pulled through return grill, dehumidified, and returned to supply plenum or return



Inlet and Outlet Ducted to Dedicated Grills

Homes without duct work

Dries specific moisture problem area (e.g. basement, crawlspace, sealed attic)

Can be located in closet, mechanical room, or unfinished area and ducted to finished area

Indoor Air Quality Since 1947.

ISO 9001:2008 Certified.

Industry Memberships:



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