DEHXXCDA1070
DEHXXCDA1095
DEHUMIDIFIER

Carrier
turn to the experts

Product Data

The Carrier Dehumidifier controls the humidity level in your entire home. A powerful blower inside the dehumidifier draws air into the cabinet, filters the air and removes moisture, then discharges the dry air into the HVAC system or dedicated area of the home. Inside the cabinet, a sealed refrigeration system removes moisture by moving the air through a series of tubes and fins that are kept colder than the dew point of the incoming air. The dew point is the temperature at which moisture in the air will condense, much like what occurs on the outside of a cold glass on a hot summer day. The condensed moisture drips into the dehumidifier drain pan to a drain tube routed to the nearest floor drain or condensate pump. After the moisture is removed, the air moves through a second coil where it is reheated before being sent back into the home.

The air leaving the dehumidifier will be warmer and drier than the air entering the dehumidifier.

FEATURES AND BENEFITS

Easy, Versatile Control

The on-board LCD control provides a user-friendly interface for setting desired dehumidification levels. For even greater convenience, the whole-home dehumidifier can be controlled with a Performance™ Series edge® relative humidity thermostat or from an available remote control.

Maintenance and Cleaning

Because routine filter cleaning ensures top performance, the dehumidifier control features a built-in “clean filter” reminder. A convenient access door on two sides of the cabinet allows for quick and easy removal and cleaning of the Merv 8 filter.

Quiet Comfort

The precision-tuned fan and motor quietly and efficiently pull air into the dehumidifier with sound levels comparable to most furnaces and fan coils.

Customized to your needs

Available in 70 or 95 pint sizes, this dehumidifier offers versatility to fit your comfort needs. It can be zoned to provide separate humidity control for two areas. It can also be installed in multiple configurations and locations such as a closet, basement attic or crawlspace.

Protects Your Air and Furnishings

Excess humidity in your home can wreak havoc on your indoor air quality and your furnishings. By pulling moisture from the indoor air, the whole home dehumidifier not only enhances your comfort but protects your furnishings and enhances the quality of the air that you breathe every day.

SPECIFICATIONS

PRODUCT FEATURES		
	DEHXXCDA1070	**DEHXXCDA1095**
Controls	Built-in digital control	Built-in digital control with display, top or front mount
Cabinet Insulation	1/2-in. EPS	
Air Discharge Orientation	Top or End	
Inlet/Outlet Duct Collars	10-in. diameter	
Backdraft damper at Outlet	Included	
Filter	1/2-in. washable, MERV 8	
Refrigerant	R410A	
Coil Corrosion Resistance	E-coated Coil	
Power Cord	Plug Type	
Hard–wire Option	Yes, field configurable	Yes, special option 1850 W
Discharge Air Temperature Rise	10°F - 30°F	
Drain connection	3/4-in. PVC with 1/2–in. tubing adaptor	
Warranty	5 years	
Energy Star Qualified	Yes	No

PRODUCT SPECIFICATIONS		
	DEHXXCDA1070	**DEHXXCDA1095**
Capacity	70 ppd	95 ppd
Energy factor	1.91 L/kW-h	2.2 L/kW-h
Airflow @ varying E.S.P. (External Static Pressure - dry coil)		
0.0 In. W.C.	160 CFM	265 CFM
0.2 In. W.C.	120 CFM	230 CFM
0.4 In. W.C.	70 CFM	200 CFM
Voltage, Phase, Frequency	120V, 1, 60 Hz	
Current Draw	6.3 A	8.0 A
Noise	47 dBA ducted; 51 dBA unducted	54 dBA ducted; 61 dBA unducted
Dimensions (cabinet)	Width: 12.5-in. cabinet Height: 14.5-in. cabinet Length: 25-in. cabinet	Width: 12.5-in. Cabinet Height: 14.5-in. cabinet Length: 27-in. cabinet
Weight	67 lbs.	75 lbs.
Operating Conditions		
Inlet Air Operating Conditions	50°F - 104°F, 40°F dew point min.	
Ambient/Ventilation	40°F - 140°F, 0% - 99% RH (non-condensing)	

DEHUMIDIFIER PERFORMANCE MAP, 70 PINT MODEL

%RH	**70 pint Capacity (PPD)** Temperature (°F)			
	60	70	80	90
50	5	44	57	70
60	41	57	75	87
70	48	70	89	104
80	55	83	105	

%RH	**70 pint Leaving Air Temperature (°F)** Temperature (°F)			
	60	70	80	90
50	68	96	112	128
60	76	101	116	134
70	88	107	123	137
80	92	110	126	

%RH	**70 pint Energy Usage (L/kW-hr)** Temperature (°F)			
	60	70	80	90
50	0.29	1.53	1.74	1.85
60	1.55	1.92	2.18	2.20
70	1.89	2.28	2.49	2.53
80	2.19	2.55	2.77	

%RH	**70 pint Leaving Air Humidity (%RH)** Temperature (°F)			
	60	70	80	90
50	39	13	12	11
60	14	12	12	11
70	14	13	12	11
80	13	12	11	

80°F/60% Capacity (pints/day)	
0.3"w.c.	0.4"w.c.
57	48

80°F/60% Energy Use (L/kw-hr)	
0.3"w.c.	0.4"w.c.
1.43	1.15

DEHUMIDIFIER PERFORMANCE MAP, 95 PINT MODEL

%RH	**95 pint Capacity (PPD)** Temperature (°F)			
	60	70	80	90
50	12	57	75	95
60	53	75	99	122
70	59	94	117	150
80		111	138	161

%RH	**95 pint Leaving Air Temperature (°F)** Temperature (°F)			
	60	70	80	90
50	68	90	106	121
60	85	95	110	125
70	89	100	119	132
80		102	124	138

%RH	**70 pint Energy Usage (L/kW-hr)** Temperature (°F)			
	60	70	80	90
50	0.48	1.58	1.82	2.04
60	1.57	2.00	2.33	2.45
70	1.81	2.43	2.71	2.79
80		2.76	2.94	2.98

%RH	**70 pint Leaving Air Humidity (%RH)** Temperature (°F)			
	60	70	80	90
50	38	17	15	14
60	18	16	15	14
70	18	16	15	14
80		16	15	13

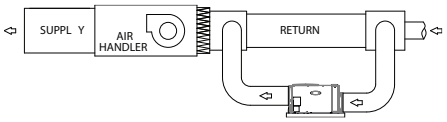
80°F/60% Capacity (pints/day)		
0.3"w.c	0.5"w.c.	0.7"w.c.
91	86	79

80°F/60% Energy Use (L/kw-hr)		
0.3"w.c	0.5"w.c.	0.7"w.c.
2.00	1.84	1.65

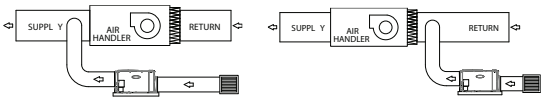
INSTALLATION OPTIONS

APPLICATIONS

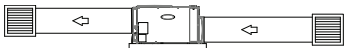
Main Return to Main Return - RECOMMENDED
- This application can be used when a supply duct is not available
- Air is pulled from the return duct, dehumidified, and returned to the return duct
- Assures that the dehumidified air is mixed with rest of the air in the duct before it re-enters the house
- This application is used in basements, attics, crawl spaces, etc.



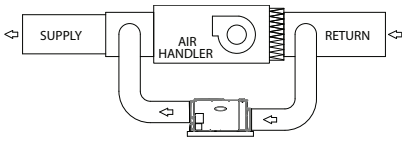
Dedicated Return to Main Supply or Dedicated Return to A/C Return
- This application can be used when a return or supply duct is not available
- Air is pulled through a dedicated return grille, dehumidified, and returned to the supply plenum or return



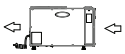
Dedicated A/C Return to A/C Return
- For homes without duct work
- Dries a specific area that has a moisture issue
- Dehumidifier can be located in a closet, mechanical room or unfinished area and ducted into a finished room



Main Return to Main Supply
- Air is pulled from the return duct, dehumidified, and returned to the supply plenum
- This application is used in basements, attics, equipment closets, etc.



Unducted - freestanding
- Model 1830 unducted
- Air is pulled into the dehumidifier directly from the space, dehumidified, and return back to the space
- This application is used in basements, crawlspaces, etc.
- HVAC closet vertical discharge



Model 76 Wall Mount Dehumidifier Control

- On/Off buttons
- Wall mounted living space control
- Displays RH and controls to an RH value
- Remote control for crawlspace applications and sealed attics

SPECIFICATIONS

ELECTRICAL	External	Remote
Input Voltage and Current	Voltage: 24VAC +/-20% Current: 25mA (nominal), 50mA (max.) at 24VAC	Voltage: 9VDC (supplied by dehumidifier control board)
Output	Dry Contact, Normally Open	Communication RS485)

CONTROL	External	Remote
Control Range	40% - 80%RH	1 (less dry) - 7 (more dry) 65°F - 40°F Dew Point
Accuracy	+/-5%RH	See Dehumidifier Specifications
Differential	3% RH	
Low Limit	40°F Dew Point	50°F Dry Bulb
High Limit	99°F Dry Bulb	105°F Dry Bulb

Edition Date: 03/16

Catalog No: DEHXXCDA–02PD

Replaces: DEHXXCDA–01PD