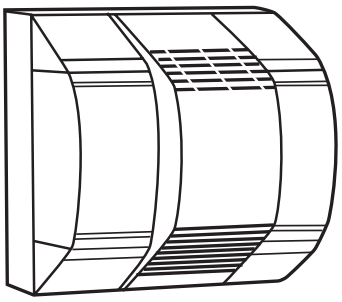
Carrier®
HEATING & COOLING

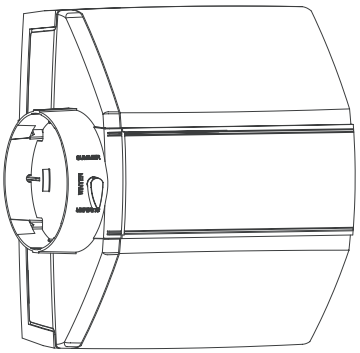
Product Data

HUM Humidifiers

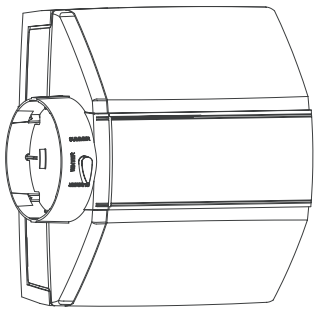
Performance SERIES



Model HUMCCLFP1318



Model HUMCCLBP2317



Model HUMCCSBP2312

Controlling your indoor humidity is very important. In many cases the air inside a home is drier than a desert. Dry, indoor air is often the culprit for such common problems as itchy or cracked skin, eye irritation, dry nasal passages and damaged home furnishings. Dry indoor air can also increase the possibility of catching cold and flu viruses and can reduce the efficiency and effectiveness of your heating system.

All of these problems can be alleviated with the help of a Carrier humidifier. Carrier offers three humidifier models designed to put moisture back into your indoor environment so you can relax in warm, soothing comfort. Depending on the model that best matches your system, a Carrier humidifier can deliver between 12 and 18 gallons of moisture per day to minimize the problems of excessively dry air. And, because humidified air feels warmer, you'll be comfortable at lower heating temperatures for higher efficiency operation.

FEATURES/BENEFITS

Easy Access for Cleaning and Maintenance—The treated aluminum pad ensures top performance. Front access door allows for quick and convenient removal and replacement of pad.

Smooth, Low Noise Operation—Nearly silent operation is the result of Carrier's precision-engineered fan and motor combination. Air is drawn through the evaporator pad quietly and efficiently, turning water into the water vapor that humidifies your home.

Long Lasting, Attractive Cover—The outside casing of all Carrier humidifiers are made from durable UV Resistant Plastic. This plastic resists

deterioration, even when exposed to ultra-violent light sources common in many systems.

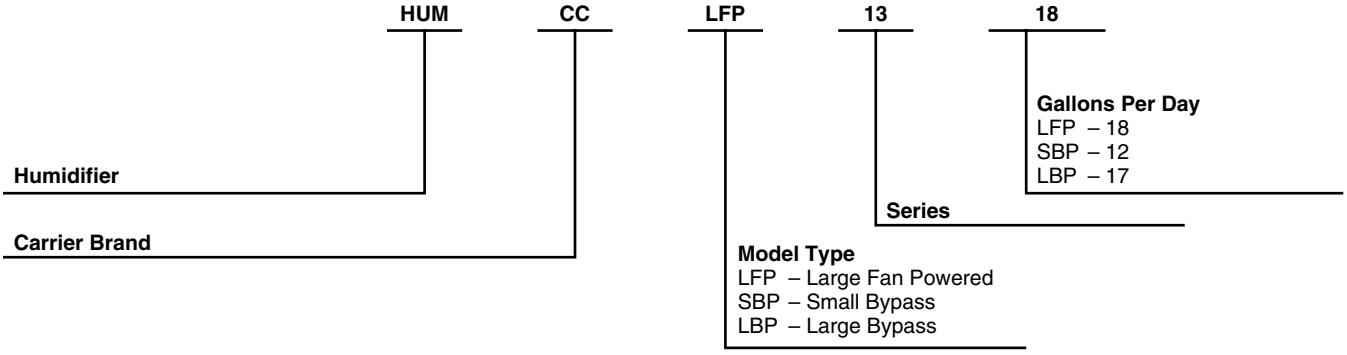
Built-In Bypass Damper—On the LBP & SBP models.

Optimum Distribution of Moisture—Through the combination of Carrier's solenoid valve and water distribution system, your home will benefit from the optimum distribution of moisture possible.

Four Humidity Control Options—Choose between four separate controls options–the Humidistat, the Humiditrac™, the Thermidistat™ Control and the Infinity™ Control. Each of these units provide precise control over the humidity levels in your home.

Taupe Metallic color to match furnace.

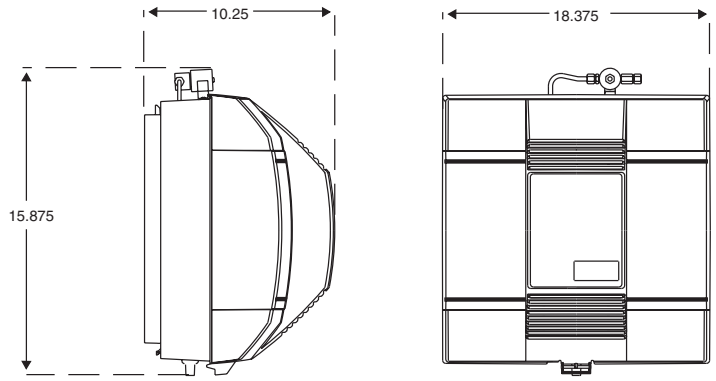
Model number nomenclature



Physical data

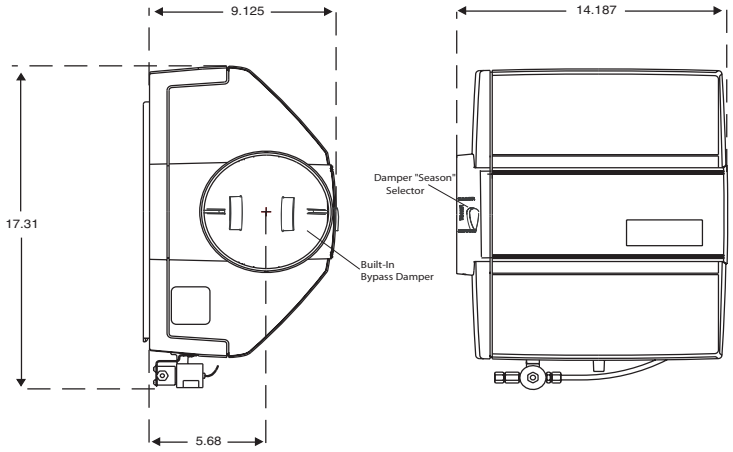
Model	HUMCCLFP1318	HUMCCLBP2317	HUMCCSBP2312
Gallons/Day	18	17	12
Water Feed Rate	6	6	3
Type			
Airflow	Fan	Bypass	Bypass
Waterflow	Drain Through	Drain Through	Drain Through
General			
Evaporator Pad Replacement	P110-3545	P110-3545	P110-1045
Size (In) (H x W x D) of Evaporator Pad	13 x 10 x 1-11/16	13 x 10 x 1-11/16	9 7/8 x 9 5/8 x 1-11/16
Pad Access	Quick Release Cover	Quick Release Cover	Quick Release Cover
Unit Size (H x W x D) in inches	15.875 x 18.375 x 10.25	17.31 x 14.187 x 9.125	14.5 x 13.75 x 14.50
Weight	17.1	11.6	10.7
Water Usage (Gal/hr)	6	6	3
Electrical Control			
Low-Voltage Terminals			
Volts	120V-60Hz	24V-60Hz	24V-60Hz
Amps (Max)	0.7	0.05	0.05
VA (Max)	96	12	12
Watts	82	6	6
High Voltage Cord			
Volts	120v-1ph-60Hz	N/A	N/A
Amps	10 amp rating	N/A	N/A
Connections			
Water Inlet	1/4-in.Copper Tubing	1/4-in.Copper Tubing	1/4-in.Copper Tubing
Water Drain	1/2-in. I.D. plastic hose	1/2-in. I.D. plastic hose	1/2-in. I.D. plastic hose
Bypass Opening	N/A	6-in. round elbow or straight	6-in. round elbow or straight
Duct Opening (In) (W x H)	14.813 x 14.25	9.875 x 12.75	9.31 x 9.50
Standard Equipment			
Water Valve	Solenoid, 24 VAC	Solenoid, 24 VAC	Solenoid, 24 VAC
Motor	Thermal Protected 120VAC (0.014HP = 1/70 HP)	N/A	N/A
Relay	SPST 24vdc	N/A	N/A
Humidistat	24V	24V	24V
Saddle Valve	Standard	Standard	Standard
Damper	N/A	Standard	Standard
Template	Installation Sheet Included	Installation Sheet Included	Installation Sheet Included
Accessories			
HumidiTrac™ Automatic Control	KUAW0101CAC		
Current Sensing Relay	P110-0050		

Dimensions



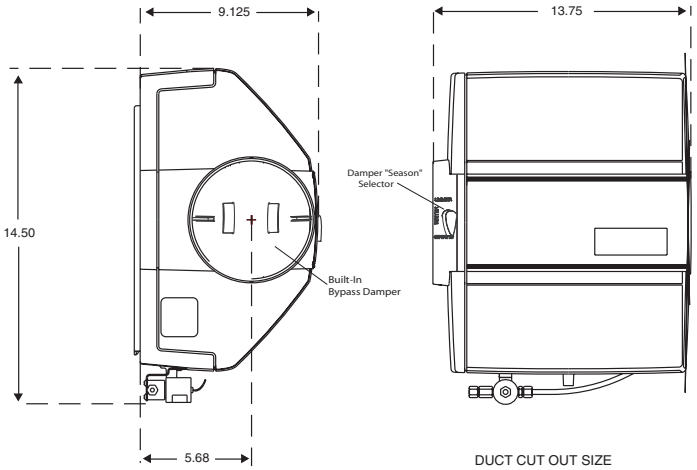
DUCT CUT OUT SIZE
W X H
14.813 X 14.25

Model HUMCCLFP1318



DUCT CUT OUT SIZE
W X H
9.875 X 12.75

Model HUMCLBP2317



DUCT CUT OUT SIZE
W X H
9.31 X 9.50

Model HUMCCSBP2312

RECOMMENDED RELATIVE HUMIDITY BY OUTDOOR TEMPERATURE

OUTDOOR TEMP (°F)	OUTDOOR RELATIVE HUMIDITY (%)	INDOOR RELATIVE HUMIDITY (%) W/O HUMIDIFIER*	MAXIMUM RECOMMENDED INDOOR RELATIVE HUMIDITY†
–10	30 to 70	1 to 2	20 (Lo)
0	30 to 70	2 to 4	25
10	30 to 70	3 to 6	30
20	30 to 70	4 to 10	35
30	30 to 70	6 to 15	40 (Med)

* Indoor relative humidity level when outdoor air is heated to 72°F.

† As stipulated by the Air Conditioning Contractors of America.

INDOOR RELATIVE HUMIDITY LIMIT FOR NO WINDOW CONDENSATION (Indoor Air at 74°F Dry Bulb)

OUTDOOR TEMPERATURE (°F)	SINGLE PANE WINDOWS (%)	DOUBLE PANE WINDOWS (%)
40	39	59
30	29	50
20	21	43
10	15	36
0	10	30
–10	7	26
–20	5	21
–30	3	17

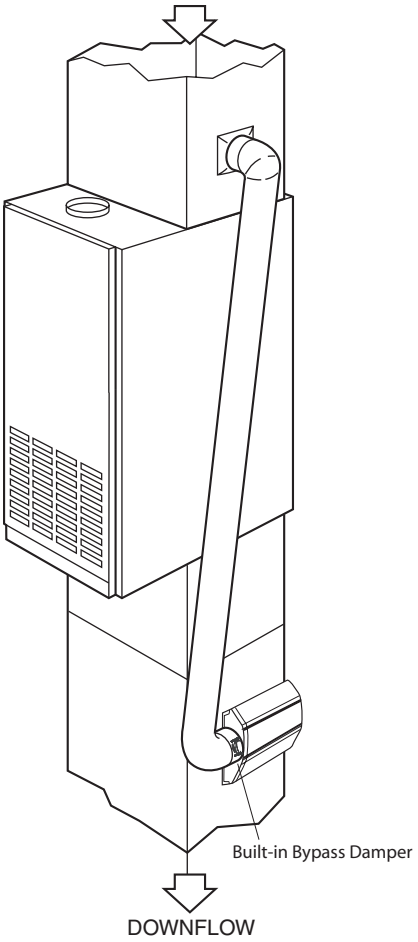
MAXIMUM MOISTURE REQUIREMENTS*

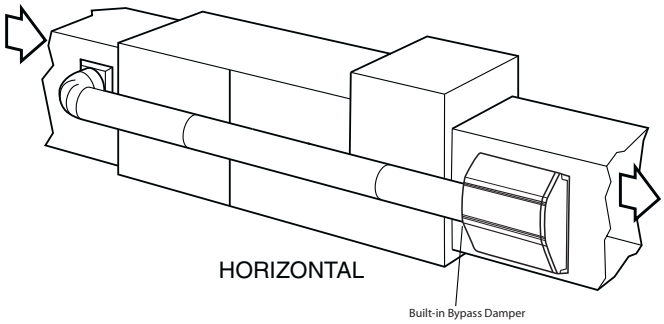
VOLUME OF RESIDENCE (CUBIC FT)	TIGHT HOUSE		AVERAGE HOUSE	
	Pounds Per Hour	Gallons Per Day	Pounds Per Hour	Gallons Per Day
8,000	1.76	5.09	3.52	10.17
10,000	2.21	6.35	4.41	12.72
12,000	2.64	7.63	5.29	15.26
14,000	3.09	8.91	5.92	17.08
16,000	3.53	10.18	7.06	20.35
18,000	3.97	11.45	7.94	22.89
20,000	4.41	12.72	8.82	25.44
22,000	4.85	13.99	9.71	27.98
24,000	5.29	15.27	10.59	30.52
26,000	5.74	16.54	11.47	33.07
28,000	6.18	17.81	12.35	35.61
30,000	6.62	19.08	13.24	38.16

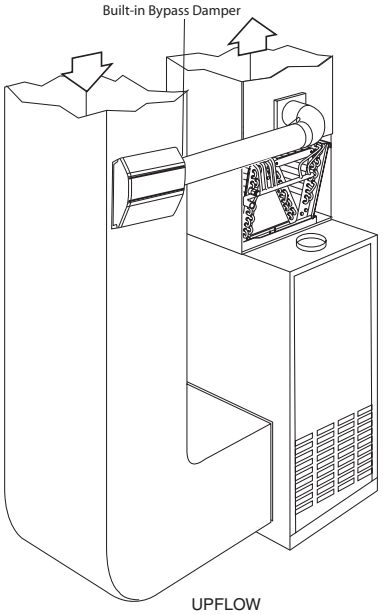
* Based on design conditions of outdoor 20°F dry bulb, 80% RH; indoor 70°F dry bulb, 40% RH, and minimum moisture production from residential operations for an absolute humidity difference of 0.0049lb/hr.

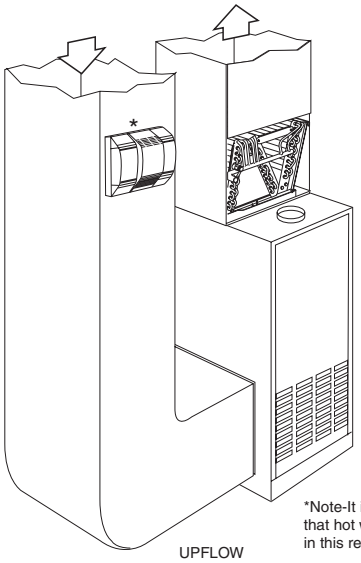
NOTE: Tight house is defined as being well insulated, having vapor barriers, tight storm doors and windows with weatherstripping, and having dampered fireplaces.
Average house is defined as being insulated, having vapor barriers, loose storm doors and windows, and having dampered fireplaces.

Typical humidifier installations

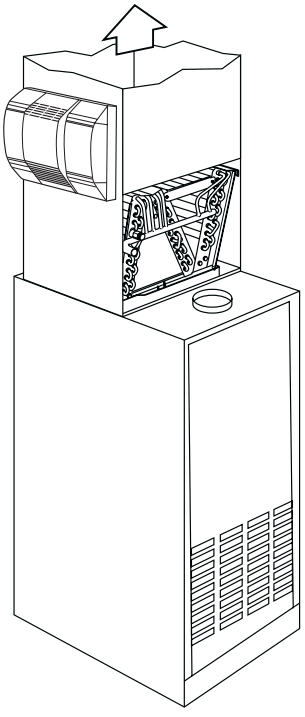








*Note-It is recommended that hot water be supplied in this return air application



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