

Product Data



**Large Fan Powered
Model
HUMBBLFP1418**



**Large Bypass
Models
HUMBBLBP2417
HUMBBWBP2417 (water saver)**



**Small Bypass
Model
HUMBBSBP2412**



**Small Fan Powered
Model
HUMBBSFP1016**

Controlling 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 the heating system.

All of these problems can be alleviated with the help of a Bryant® humidifier. Bryant offers four humidifier models designed to put moisture back into the indoor environment so homeowners can relax in warm, soothing comfort. Depending on the model that best matches the system, a Bryant humidifier can deliver between 12 and 18 gallons (45 and 68 liters) of moisture per day to minimize the problems of excessively dry air. And, because humidified air feels warmer, using lower thermostat settings may be possible for added energy savings.

Water Saver Models - WBP Series units deliver 100% of water used. For use in applications where water costs are high, with septic systems or in drought-stricken areas

FEATURES/BENEFITS

Easy Access for Cleaning and Maintenance—The treated aluminum water panel (or wicking paper water panel in the water-saver model) ensures top performance. Front or side access door allows for quick and convenient removal and replacement of water panel.

Smooth, Low-Noise Operation—Nearly silent operation is the result of Bryant humidifier's precision-engineered fan and motor combination on fan powered models. Air is drawn through the water panel quietly and efficiently, turning water into the water vapor that humidifies the home.

Long Lasting, Attractive Cover—The outside casing and interior components of all Bryant humidifiers are made from durable UV resistant plastic. This plastic resists deterioration, even when exposed to ultra-violet light sources common in many systems.

Built-In Bypass Damper—On the LBP, SBP and WBP models.

Optimum Distribution of Moisture—Through the combination of the solenoid valve and water distribution system by Bryant, homeowners will benefit from the most optimum distribution of moisture possible.

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

Taupe Metallic—Color-matched to the furnace (excluding small fan powered models).

MODEL NUMBER NOMENCLATURE

HUM	BB	LFP	14	18
Product Type	Brand	Model Type	Series	Gallons (Liters) Per Day
Humidifier	Bryant	LFP – Large Fan Powered SBP – Small Bypass LBP – Large Bypass SFP – Small Fan Powered WBP – Water Saving Large Bypass	14 – LFP 24 – SBP, LBP, WBP 10 – SFP	LFP – 18 (68) SBP – 12 (45) LBP – 17 (64) SFP – 12.8 (48) WBP – 17 (64)

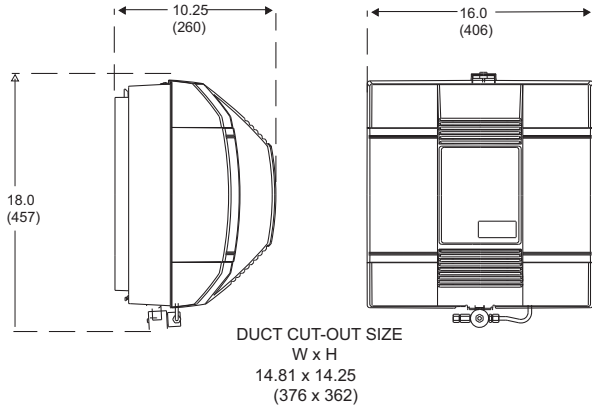
PHYSICAL DATA

MODEL	HUMBBLFP1418	HUMBBLBP2417	HUMBWBWP2417	HUMBBSBP2412	HUMBBSFP1016
Gallons (Liters)/Day	18 (68)	17 (64)		12 (45)	12.8 (48)
Gallons (Liters)/Hr	6 (23)	3 (11)			3.2 (12)
Type	Fan				
Airflow	Fan	Bypass			Fan
Water Flow	Drain Through		Sump with Overflow Drain	Drain Through	
General					
Water Panel Replacement	P110–3545 (10 packs)	P110–3545 (10 packs)	P110–4545 (5 – 2 packs)	P110–1045 (10 packs)	324897 – 761 (10 packs)
Water Panel in (mm) (H x W x D)	13 x 10 x 1.7 (330 x 254 x 43)			9.9 x 9.6 x 1.7 (251 x 244 x 41)	9.7 x 9.2 x 1.2 (248 x 235 x 32)
Water Panel Access	Quick Release Cover				Side Door
Unit Size in (mm) (H x W x D)	18.0 x 16.0 x 10.25 (457 x 406 x 260)	15.125 x 14.0 x 10.25 (384 x 356 x 260)		12.25 x 14.0 x 10.25 (311 x 356 x 260)	12 x 12.5 x 10.18 (305 x 318 x 259)
Weight lbs (kg)	17.1 (7.8)	8.0 (4)		7.0 (3)	10.9 (5)
Water Usage Gal (liters)/hr	6 (23)	3 (11)			3.2 (12)
Electrical Control Low – Voltage Solenoid					
Volts	24V – 60Hz				
Amps (Max)	0.5				
VA (Max)	12				
Watts	2.3				1.0
High Voltage Cord					
Volts	120V – 1ph – 60Hz	N/A			115V – 1ph – 60Hz
Amps	0.7	N/A			1.9
Connections					
Water Inlet	1/4 – in. Copper Tubing				
Water Drain	1/2 – in. I.D. plastic hose				5/8 – in. Tube
Bypass Opening	N/A	6 – in. round elbow or straight			N/A
Duct Opening in (mm) (W x H)	14.81 x 14.25 (376 x 362)	9.87 x 12.62 (251 x 321)		9.5 x 9.5 (241 x 241)	11.87 x 11.5 (302 x 292)
Standard Equipment					
Water Valve	Solenoid, 24VAC				
Motor	Thermal Protected 120VAC (0.014HP = 1/70 HP)	N/A			Thermal Protected 115VAC, 25MH
Relay	DPST 24VAC*	N/A			SPST 24VDC to AC
Humidistat	24V		24V (not included)	24V	
Saddle Valve	Standard				
Damper	N/A	Standard			N/A
Template	Installation Sheet Included				
Accessories					
HumidiTrac™ Automatic Control	KUAW0101CAC				
Current Sensing Relay	P110–0050				N/A

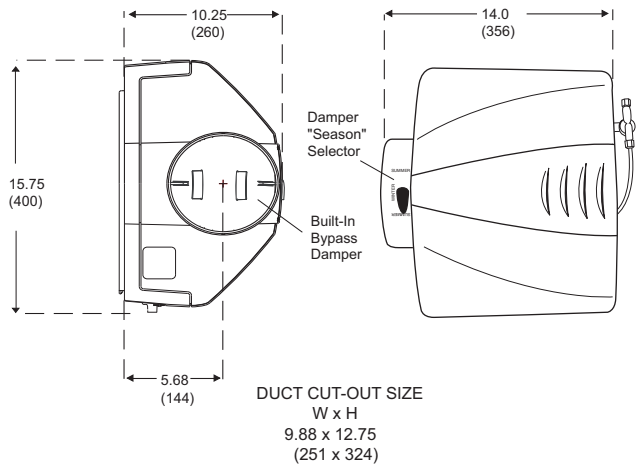
* Field-supplied part no. HN61KQ120

DIMENSIONS

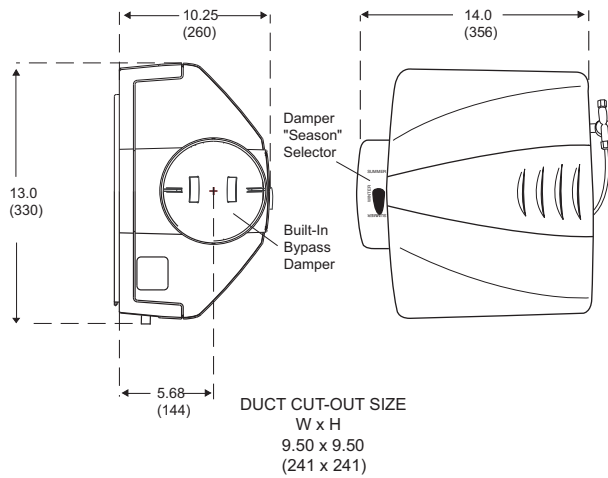
Model HUMBLFP1418



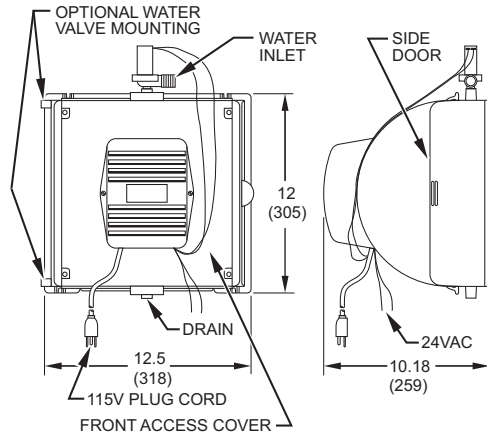
Model HUMBLBP2417 & HUMBBWBP2417



Model HUMBBSBP2412



Model HUMBBSFP1016



HUM

A08384

RECOMMENDED RELATIVE HUMIDITY BY OUTDOOR TEMPERATURE

OUTDOOR TEMP °F (°C)	OUTDOOR RELATIVE HUMIDITY (%)	INDOOR RELATIVE HUMIDITY (%) W/O HUMIDIFIER*	MAX RECOMMENDED INDOOR RELATIVE HUMIDITY†
-10 (-23)	30 to 70	1 to 2	20 (Lo)
0 (-18)	30 to 70	2 to 4	25
10 (-12)	30 to 70	3 to 6	30
20 (-7)	30 to 70	4 to 10	35
30 (-1)	30 to 70	6 to 15	40 (Med)

* Indoor relative humidity level when outdoor air is heated to 72°F/22°C.

† As stipulated by the Air Conditioning Contractors of America.

INDOOR RELATIVE HUMIDITY LIMIT FOR NO WINDOW CONDENSATION

(Indoor Air at 74°F/23°C Dry Bulb)

OUTDOOR TEMPERATURE °F (°C)	SINGLE PANE WINDOWS (%)	DOUBLE PANE WINDOWS (%)
40 (4)	39	59
30 (-1)	29	50
20 (-7)	21	43
10 (-12)	15	36
0 (-18)	10	30
-10 (-23)	7	26
-20 (-29)	5	21
-30 (-34)	3	17

MAXIMUM MOISTURE REQUIREMENTS*

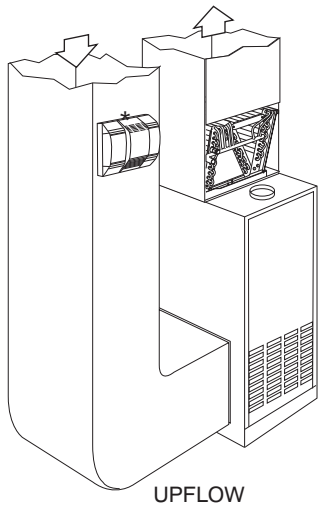
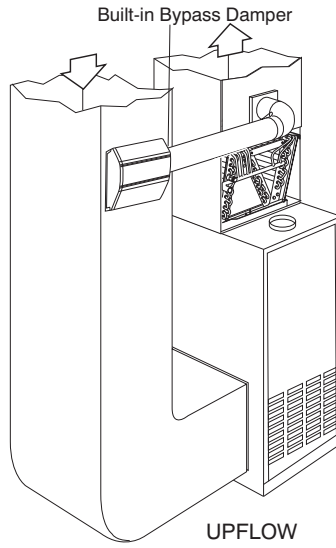
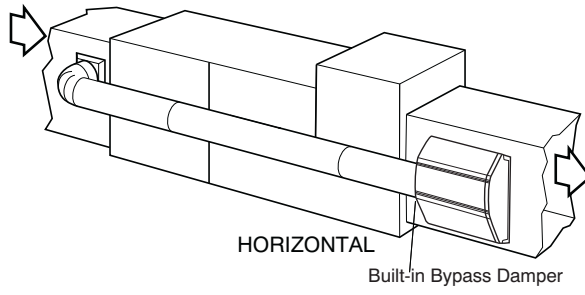
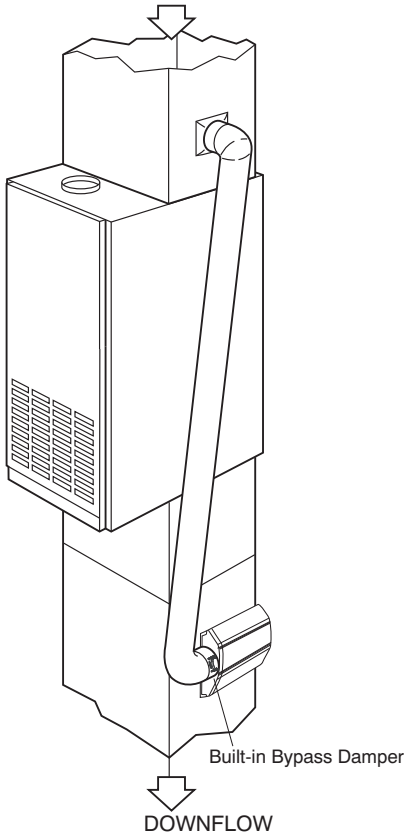
VOLUME OF RESIDENCE CUBIC FEET (CUBIC METER)	TIGHT HOUSE		AVERAGE HOUSE	
	POUNDS (KILOGRAMS) PER HOUR	GALLONS (LITERS) PER DAY	POUNDS (KILOGRAMS) PER HOUR	GALLONS (LITERS) PER DAY
8,000 (227)	1.76 (0.8)	5.09 (19)	3.52 (1.6)	10.17 (38)
10,000 (283)	2.21 (1.0)	6.35 (24)	4.41 (2.0)	12.72 (48)
12,000 (340)	2.64 (1.2)	7.63 (29)	5.29 (2.4)	15.26 (58)
14,000 (396)	3.09 (1.4)	8.91 (34)	5.92 (2.7)	17.08 (65)
16,000 (453)	3.53 (1.6)	10.18 (39)	7.06 (3.2)	20.35 (77)
18,000 (510)	3.97 (1.8)	11.45 (43)	7.94 (3.6)	22.89 (87)
20,000 (566)	4.41 (2.0)	12.72 (48)	8.82 (4.0)	25.44 (96)
22,000 (623)	4.85 (2.2)	13.99 (53)	9.71 (4.4)	27.98 (106)
24,000 (680)	5.29 (2.4)	15.27 (58)	10.59 (4.8)	30.52 (116)
26,000 (736)	5.74 (2.6)	16.54 (63)	11.47 (5.2)	33.07 (125)
28,000 (793)	6.18 (2.8)	17.81 (67)	12.35 (5.6)	35.61 (135)
30,000 (850)	6.62 (3.0)	19.08 (72)	13.24 (6.0)	38.16 (144)

* Based on design conditions of outdoor 20°F/-7°C dry bulb, 80% RH; indoor 70°F/21°C dry bulb, 40% RH, and minimum moisture production from residential operations for an absolute humidity difference of 0.0049 lb/hr.

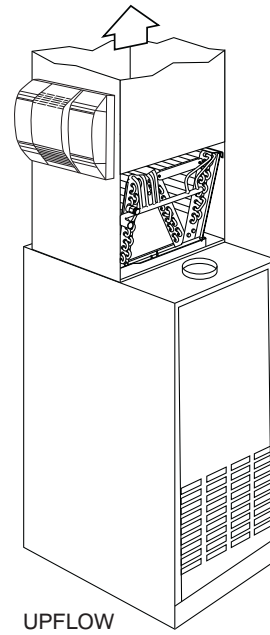
NOTE:

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 door and windows and having dampered fireplace.

TYPICAL HUMIDIFIER INSTALLATIONS



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



HUM

HUMIDIFIER REPLACEMENT WATER PANELS

DESCRIPTION	USED WITH	TOTALINE® ORDERING NO.
Replacement Water Panel	HUMBBLFP1418	P110-3545
	HUMBBLBP2417	
	HUMBBSBP2412	P110-1045
	HUMBBSFP1016	324897-761
	HUMBBWBP2417	P110-4545 (2 pack)

HUMIDIFIER ACCESSORIES

HUM

DESCRIPTION	USED WITH	PART NO.
HumidiTrac™ Automatic Control	HUMBBLFP1418	KUAWC0101CAC-A10
	HUMBBLBP2417	
	HUMBBSBP2412	
	HUMBBWBP2417	
Humidistat Manual Control	HUMBBWBP2417	4363 (Totaline)
Relay	HUMBBLFP2417	HN61KQ120 (Totaline)