

INDOOR AIR QUALITY HCWP3

Healthy Climate® Power Humidifier

Bulletin No. 210544 September 2011 Supersedes May 2011

PRODUCT SPECIFICATIONS

FEATURES

WARRANTY

All covered components have a limited warranty for five years in residential applications, one year in non-residential applications.

Refer to the Lennox Equipment Limited Warranty certificate included with the unit for additional details.

APPROVALS

Units are UL listed per ANSI/UL 998 and CSA C22.2 No.104-01.

APPLICATIONS

Installs on the supply air plenum. May be installed on the return air plenum if hot water (maximum 120°F continuous and 140°F intermittent) is supplied to humidifier.

Applicable to most forced air installations.

Not for installation in horizontal supply ducts in horizontal applications.

Do not install where freezing may occur.

Provides additional humidity to the home during the heating season to increase comfort level.

Humidifier, saddle valve and manual or automatic humidifier control (depending on model) shipped in one package.

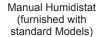
SEQUENCE OF OPERATION

Humidifier will only operate when indoor blower is operating.

When the level of moisture in the return air or living space area drops below the set point of the humidifier control, the water solenoid valve opens, water flows into a distribution tray and weeps down through evaporator pad, fan draws air in through the moistened evaporator pad and forces the humidified air back into supply air stream. When the humidifier control is satisfied, the water solenoid valve closes and the fan turns off.









Automatic Humidifier Control (furnished with "A" Models)

CABINET

Rugged, corrosion resistant molded plastic.

Motor and electrical service access located on front of cabinet in separate compartment.

Front of unit lifts off to access the evaporator pad and internal plumbing.

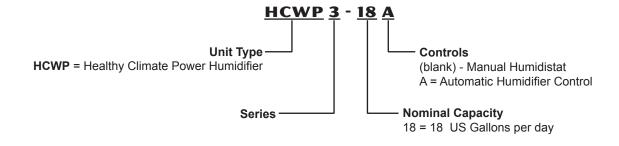
MOTOR

Thermally protected.

Permanently lubricated for long life.

Factory installed in molded plastic housing for protection against moisture.

MODEL NUMBER IDENTIFICATION



FEATURES

CONTROLS

Manual Humidistat - HCWP3-18 models

Can be horizontally mounted on wall or duct.

Provides manual control of room relative humidity.

Wired in series with the humidifier water solenoid valve.

Adjustable setting.

Automatic Humidifier Control - HCWP3-18A models Duct mount only.

Automatic or manual mode control. Manual Mode label (with resistor to bypass outdoor temperature sensor) is furnished to indicate when humidistat is installed in Manual Mode.

Senses duct air relative humidity and outdoor temperature. Includes outdoor temperature sensor for use with automatic control option and resistor for manual control setting.

Adjusts humidity setpoint to provide optimum humidity levels within the space.

Adjustable setting.

WATER SUPPLY SYSTEM

Consists of supply tubing, orifice, distribution tray, cleanable/replaceable internal strainer and 24 volt brass water solenoid valve with stainless steel seat.

Distribution Tray

Deep reservoir and unique polyester liner provides even water distribution across the evaporator media pad for optimal performance.

Tray and support frame removable for cleaning or replacement.

Evaporator Media Pad

Provides large evaporation capacity.

Pad and support frame removable for cleaning or replacement.

Annual pad replacement recommended.

Drain

1/2 in. drain fitting at bottom of cabinet.

1/2 in. ID plastic tubing must be field provided.

Unused water from the evaporator pad is drained from the unit to help remove mineral deposits left from the evaporative process.

Saddle Valve

All necessary fittings furnished as standard equipment.

Field installs in the water supply line.

OPTIONAL ACCESSORIES

Healthy Climate® Digital Automatic Humidistat Basic humidity control (on/off or proportional) and temperature display.

Control Buttons:

- Power button
- °F/°C display
- Set button for changing humidity setpoints.
- · SLEEP button for changing day/night modes.



· Up/Down buttons to change humidity setpoint and time.

Built-in humidity sensor.

Outdoor temperature sensor furnished.

24VAC powered directly by the humidifier.

LCD with alphanumeric characters and icon graphics for Humidity and Temperature (indoor/outdoor), Humidity Mode, Sleep Mode, Auto Mode, Lock Mode, Program Timer On.

Large LCD display shows humidity (or temperature) setpoint while the small display shows temperature (or time) setpoint.

Built-in clock (with backup) for automatic humidity control. Two time settings per day.

Error code display.

Lock mode indicates a parameter has been set.

Dimension (H x W x D): 3-3/8 x 5-1/2 x 1-3/8 in.

Healthy Climate® Water Conductivity Test Kit A conductivity meter is recommended for testing the water. THE REST OF

Measures total dissolved solids (TDS) and temperature.

Automatic

Temperature

Compensation (ATC).

Water-resistant housing

Measurement Range: 0-5000 ppm

Digital Calibration (Push button)

Auto-off function, data-hold function and low-battery indicator.

Display: large and easy-to-read LCD screen includes simultaneous temperature reading.

Factory-calibrated with a 342 ppm NaCl solution. The meter can be recalibrated with digital calibration using the Push buttons, rather than a screwdriver.

Includes cap and CR2032 battery.



FEATURES

MAINTENANCE SUPPLIES

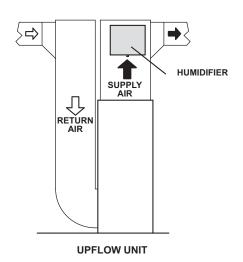
Replacement Media

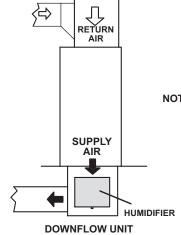
Recommended annual replacement of media pad.

See Specifications table for catalog number.

SPECIFICATIONS		
Model No.	With Manual Humidistat Control	HCWP3-18
	With Automatic Humidifier Control	HCWP3-18A
Capacity	Plenum Air Temperature	120°F
	US Gallons per day	18
Water Feed Rate (gallons per hou	ır @ 50 PSI water pressure)	6
Evaporator pad size - H x W x D -	in.	13 x 10 x 1-11/16
Connections	Plenum H x W - in.	14-5/16 x 14-3/4
	Water supply	1/4 in. compression
	Drain	1/2 in. I.D.
	Electrical	Power cord with 3 prong plug
Electrical characteristics		120V - 60hz - 1ph, 0.8 amp
Shipping Data - lbs. (1 package)		15
MAINTENANCE SUPE	PLIES - MUST BE ORDERED EXTR	A
Replacement Media		X2661
OPTIONAL ACCESSO	RIES - MUST BE ORDERED EXTRA	4
Healthy Climate® Digital Automatic	c Humidistat	Y3760
Healthy Climate® Water Conductive	vity Test Kit	Y3480
Bypass Humidifier Installation Kit	(Not available in Canada)	Y2960

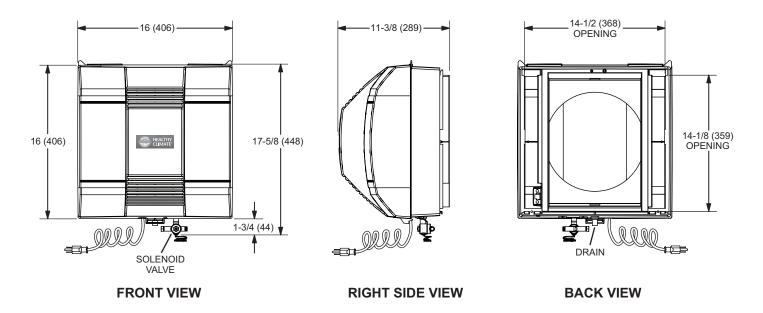
TYPICAL APPLICATIONS





NOTE - Not for installation in horizontal supply ducts in horizontal applications.

DIMENSIONS - INCHES (MM)



HUMIDIFIER SIZING INFORMATION

(BASED ON VOLUME OF HOME)

Model No.	Type of Home	8 Foot Ceiling	9 Foot Ceiling	10 Foot Ceiling
woder No.		Home Area (sq. ft.)	Home Area (sq. ft.)	Home Area (sq. ft.)
HCWP3-18, HCWP3-18A	Loose Home	1050	930	840
	Average Home	2100	1900	1700
	Tight Home	4200	3800	3400

NOTES:

Loose Home = Two Air Change Rates per hour: Typically, loose in construction and is over 20 years old. Not very well insulated and may have single pane windows, etc.

Average Home = One Air Change Rate per hour: Average in construction, 15 to 20 years old on average.

Tight Home = One-Half Air Change Rate per hour: Newer home with tight construction.

Also see Healthy Climate Bypass Humidifer HCWB3 Product Specifications for additional sizing conditions if needed.

REVISIONS	
Sections	Description of Change
Optional Accessories	Added Healthy Climate® Digital Automatic Humidistat and Healthy Climate® Water Conductivity Test Kit.



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Contact us at 1-800-4-LENNOX