

LENNOX®

ENGINEERING DATA

INDOOR AIR QUALITY

WB2

ELITE® SERIES
By-Pass Humidifier

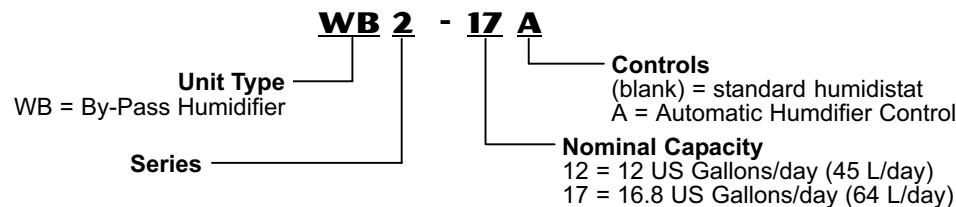
Bulletin No. 210302

February 2004

Supersedes July 2000



MODEL NUMBER IDENTIFICATION



FEATURES

APPLICATIONS

Applicable to most forced air installations. Installs on the supply air plenum with a by-pass duct from the return plenum in up-flow and horizontal applications. Installs on the return air plenum with a by-pass duct from the supply plenum in down-flow applications. See Typical Applications. Provides additional humidity to the home during the heating season to increase comfort level. Humidifier, saddle valve and humidistat/automatic humidifier control shipped in one package.

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 and ULC listed.

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 humidistat, the water solenoid valve opens, water flows into distribution tray and trickles down through evaporator pad, air is pulled through the by-pass duct, then evaporator pad and back into the air stream. When the humidistat is satisfied the water solenoid valve closes.

CABINET

Rugged, corrosion resistant molded plastic. Switching the side panels converts unit to left or right by-pass duct connection.

WATER SUPPLY

Consists of supply tubing assembly, fluid restrictor, distribution tray, cleanable/replaceable internal mesh strainer and 24 volt brass water solenoid valve.

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.

Evaporator Media Pad

Provides large evaporation capacity. Pad and support frame removable for cleaning or replacement. Annual pad replacement recommended.

Saddle Valve

All necessary fittings furnished as standard equipment. Field installs in the water supply line.

CONTROLS

Humidistat - WB2-12 & WB2-17 models

Can be horizontally or vertically mounted on wall or duct. Provides automatic control of room relative humidity. Wired in series with the humidifier water solenoid valve. Adjustable setting.

Automatic Humidifier Control - WB2-12A & WB2-17A models

Duct mounted. Senses indoor relative humidity and outdoor temperature. Includes outdoor temperature sensor. Adjusts humidity setpoint to provide optimum humidity levels within the space and indoor. Adjustable setting.

MAINTENANCE SUPPLIES - MUST BE ORDERED EXTRA

Replacement Media

Recommended annual replacement of media pad. See Specifications table for order number.

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For the latest technical information, www.davenet.com

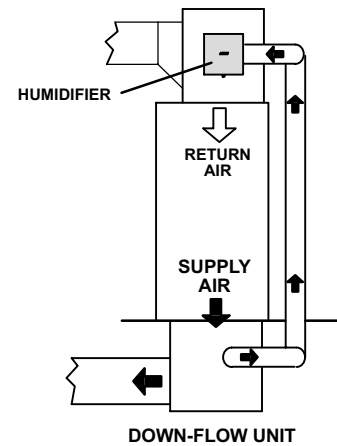
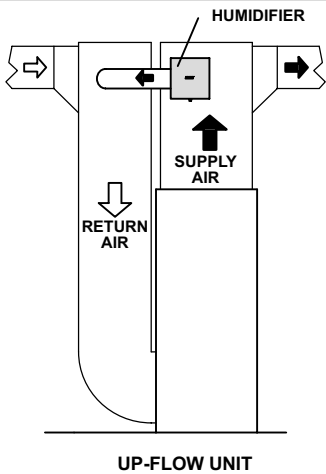
NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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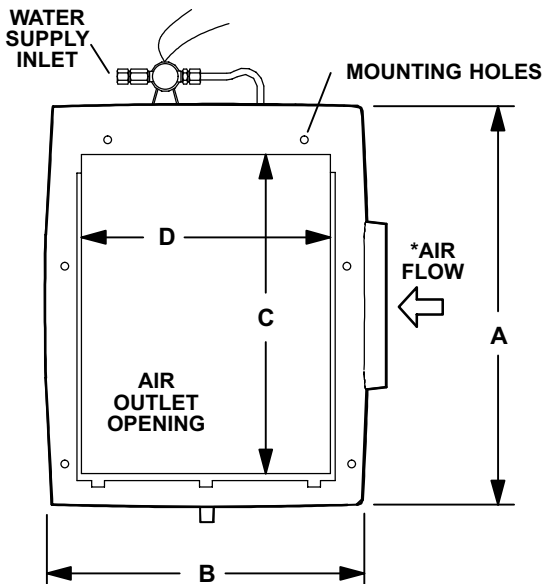
SPECIFICATIONS

Model No.	WB2-12 WB2-12A (automatic control)	WB2-17 WB2-17A (automatic control)	
Capacity - 120°F (49°C) plenum temperature, 0.20 in. w.c. (50 Pa) static pressure drop	12 US gallons per day (45 L per day)	16.8 US gallons per day (64 L per day)	
Evaporator pad size - H x W x D - in. (mm)	9-7/8 x 9-1/2 (251 x 241)	9-3/4 x 12-1/2 (248 x 318)	
Connections	Plenum H x W - in. (mm)	9-1/2 x 9-3/8 (241 x 238)	9-3/4 x 12-1/2 (248 x 318)
	By-Pass Duct - in. (mm)	6 (152) (round)	6 (152) (round)
	Water supply	1/4 in. compression	1/4 in. compression
	Drain	1/2 in. I.D.	1/2 in. I.D.
Electrical characteristics	24V	24V	
Shipping Data	lbs. (kg) 1 package	10 (5)	11 (5)
MAINTENANCE SUPPLIES - MUST BE ORDERED EXTRA			
Replacement Media	52P66	59P94	

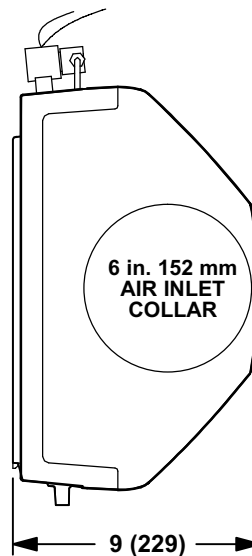
TYPICAL APPLICATIONS



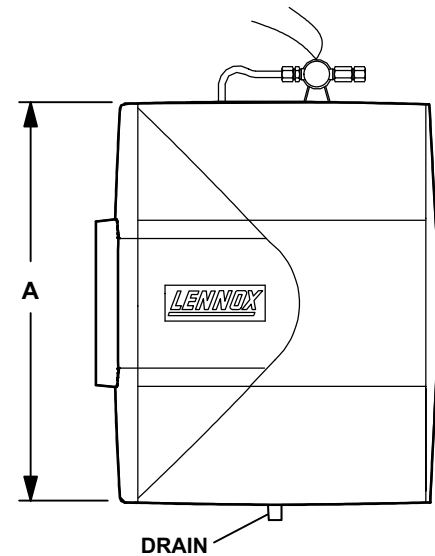
DIMENSIONS - INCHES (MM)



BACK VIEW



LEFT SIDE VIEW



FRONT VIEW

*NOTE-Left air inlet shown. Relocate side panel with inlet collar for right hand inlet air.

Model no.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
WB2-12(A)	12-3/4	324	12-7/8	327	9-1/2	241	9-3/8	238
WB2-17(A)	15-1/2	394	13-1/8	333	12-1/2	318	9-3/4	248