



WD1-15 HUMIDIWHEEL® HUMIDIFIER

WD1-15

Bulletin #490013

September 1994

Supersedes December 15, 1982

Applications

- Applicable to most forced air installations.
- Installs on return air plenum or duct and connects to the supply plenum or duct with flexible pipe provided.
- Right or left hand air flow available.
- Humidifier shipped in one package. All components shipped loose and field installed.

Sequence of Operation

- By-passed supply (warm) air flows through the cylindrical polyester foam filter media.
- Air is moistened as it rotates through the water reservoir.
- Air re-enters air stream on the return side.

Cabinet

- Rugged one piece molded plastic.
- Water tight and corrosion resistant.
- Large front access door, permits total access when removed.
- Colored to match Lennox furnaces.
- Humidifier service instructions molded inside of door.

Polyester Foam Filter Media

- Provides large evaporation capacity.
- Easy to clean.
- Cylindrical shaped media slips off and on plastic drum for servicing.
- Drum hub equipped with slip clutch to prevent damage to motor if drum assembly rotation is stopped during operation.
- Slip clutch will rotate in drum hub creating a signal indicating a need for service.

Overflow Drain Furnished

- Molded drain fitting in bottom of cabinet.
- Drain hose and clamp provided.

Damper Starting Collar

- 6 inch (152 mm) starting collar with damper/air scoop furnished for supply air connection in plenum or duct.
- Pull chain for manual closing.
- Flexible 6 inch (152 mm) pipe and clamps furnished for connection to inlet collar on humidifier.

Motor

- Permanently lubricated with brass gears for long life.
- Factory installed in molded plastic housing for protection against moisture.
- Electrical inlet provided in housing for power supply.

Teflon Seated Float Valve

- Corrosion proof.
- Shuts off water when water reservoir is filled to capacity.
- Water level is adjustable.

Water Reservoir

- Constructed of polystyrene to resist corrosion.
- Easy to service.

Saddle Valve Furnished

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

Transformer Furnished

- 24 volt transformer is furnished as standard equipment.
- Mounts in or near furnace wiring junction box.

Humidistat Furnished

- Can be mounted on wall or duct.
- Provides automatic control of room relative humidity.
- Wired in series with the humidifier motor.
- Has adjustable setting.

OPTIONAL ACCESSORIES (Must Be Ordered Extra)

Filter Media (21307)

- Replaces Polyester Foam Filter Media when necessary.

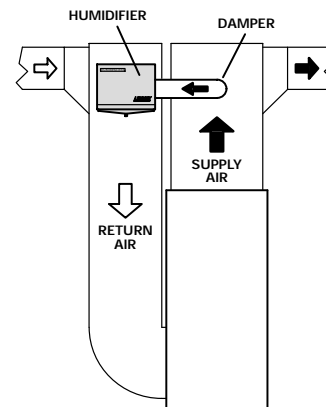
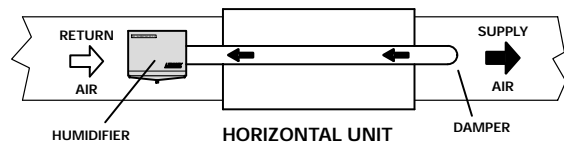
Deluxe Humidistat

- Can be mounted on wall or duct.
- Outdoor temperature and corresponding recommended humidity settings on face plate for reference.

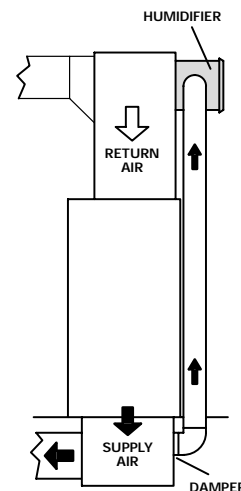
NOTE — Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice.



Typical Applications



UP-FLOW UNIT



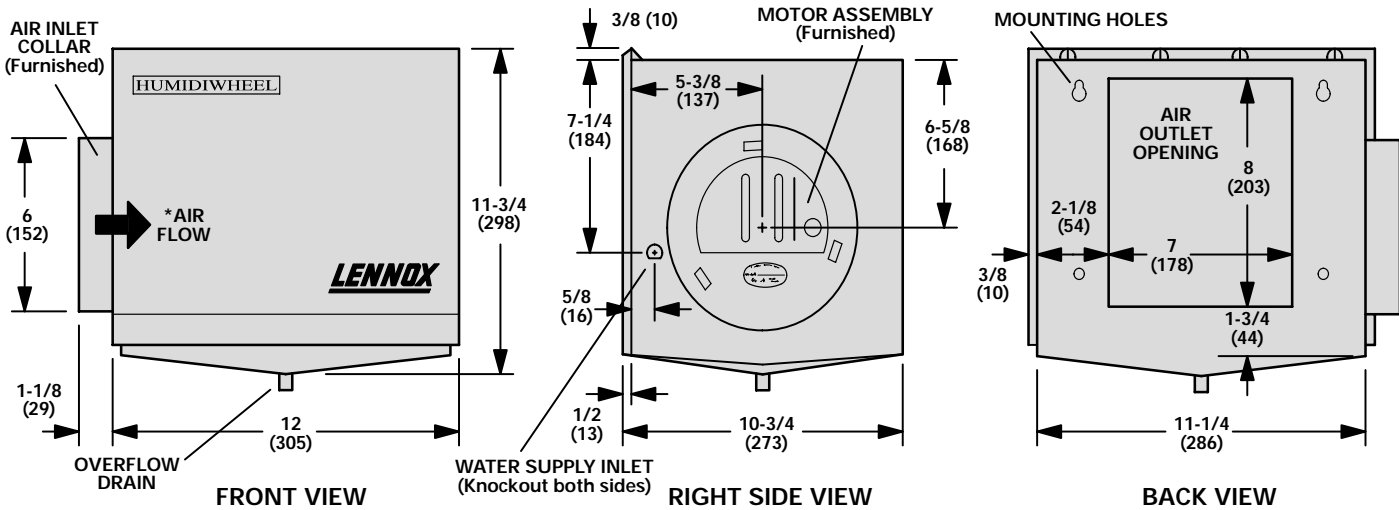
DOWN-FLOW UNIT

SPECIFICATIONS

Model No.		*WD1-15
*Evaporation Capacity	U.S. gal./d	18
	L/d	68
Filter media size	in.	6-3/4 diameter x 8 x 1/2
	mm	171 diameter x 202 x 13
Water supply connection – in. (mm)		1/4 (6) compression
Overflow connection – in. (mm)		3/4 (19) I.D.
Power input – W		5
Electrical characteristics		220/240V — 50hz — 1ph
Shipping weight – lbs. (kg) (1 pkg)		11 (5)

*Rated at 140°F (60°C) supply air temperature, 0.20 in. w.g. (50 Pa) static pressure and 30% return air relative humidity.

DIMENSIONS — inches (mm)



*NOTE — Left hand inlet air shown. Relocate inlet collar and motor assembly to obtain right hand inlet air.

PERFORMANCE DATA

