



# F810-2 & F830-4 Automatic Humidifier Units (2 or 4 Spray Heads)

## OPERATING INSTRUCTIONS & REPLACEMENT PARTS

### HUMIDIFIER UNITS:

- **F810-2 Automatic Humidifier (Two Spray Heads) Capacity - 30,000 Cubic Feet, maximum output 30 Gallons (227 l) in 24 hours.**
- **F830-4 Automatic Humidifier (Four Spray Heads) Capacity - 60,000 Cubic Feet, maximum output 60 Gallons (454 l) in 24 hours.**

### INTRODUCTION:

For dependable moisture and humidity control, these units provide an efficient method of maintaining uniform moisture in paper, fabric, tobacco, etc. at the same time helping to reduce the possibility of fire hazards. The water is finely atomized and quickly absorbed into the room atmosphere. Each Automatic Spray Atomizer requires 1/2 C.F.M. at 50 p.s.i. air pressure for the finest uniform atomization.

### FIRE PREVENTION:

Paasche Humidifier Units present an inexpensive means of reducing the danger of spontaneous combustion. Proper humidification limits dust diffusion and grounds static electricity.

### HUMIDIFIER USES:

- **Printing and Bindery Plants-** They are of great value for keeping paper quality at its best to assure perfect registration when printing.
- **Tobacco and Similar Industries-** require uniform humidity control when aging and curing.
- **Textile Mills, Clothing Factories, Warehouses-** Fabrics tend to gradually deteriorate in dry atmosphere. When adequate humidity is maintained, goods retain their original luster and sheen. Dangers from lint and dust accumulations are greatly minimized with proper humidity.
- **Carton Manufacturers-** Winter conditions can dry out materials used to make boxes, causing tears and improper folding during manufacture or damage by the customer while in use.
- **Dry and Dusty Factories-** Factories which are dry and dusty due to insufficient humidity, are constantly subject to the dangers of spontaneous combustion. One method of reducing this hazard is with a uniform, accurate and dependable Automatic Humidifier Unit by Paasche.

**WARNING:** This product must be grounded to prevent electrical shock. Proper use of the three wire grounding cord installed with each unit is essential for its safe use. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. This unit is designed for the spraying of water only. **Disconnect power before servicing.**

**F830-4 Automatic Humidifier (4 Spray Heads) Capacity - 60,000 Cubic Feet, maximum 60 Gallons in 24 hours**



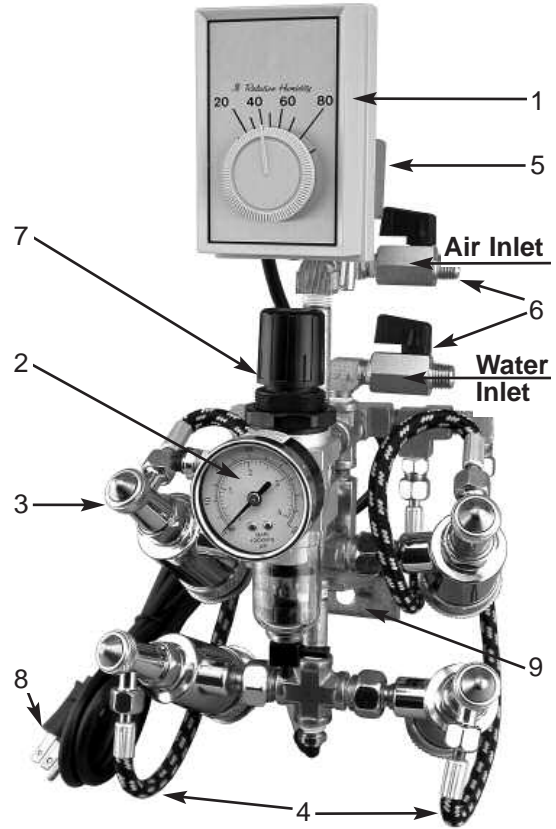
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The **F800- Series Automatic Humidifier Units** will automatically dispense gallons of finely atomized water, providing controlled humidity when the dial on the humidistat (Item #1) is adjusted to the humidity required. These Automatic Humidifier Units will automatically start and stop at the humidity setting. When properly connected to the water and electric systems of the building and to an air source that supplies constant air pressure (minimum 50 p.s.i.) to the **F800 Series Unit**, these units will deliver finely atomized water for extended periods.

### HUMIDIFIER INSTALLATION

1. Mount Humidifier Unit in convenient location using SM-42 Mounting Bracket (not shown).
2. Connect air supply to HF-1/4" Air Inlet Valve.
3. Connect water supply to HF-1/4" Water Inlet Valve.
4. Open air inlet valve and water supply valve **under air supply valve** check for leaks. Tighten connections if required.
5. Turn humidistat control dial on item #1 counterclockwise to off position before plugging cord into **grounded outlet**.
6. Turn U-3178 Fluid Adjusting Knob on back of Spray Guns to closed position by turning clockwise -**Do Not Over Tighten**. Set "0" on reference dial to line up with "0" on fluid adjusting knob and then open adjusting knob to number 30.
7. Set Regulator item #7, located behind Gauge #2, at 50 p.s.i. minimum air pressure (60 p.s.i. maximum).
8. Plug units three wire electrical plug into properly grounded receptacle (115V., 60cy).
9. Turn Humidistat control dial to on position and desired humidity. You will hear a "click" when activated.
10. Water flow rate may be adjusted using the U-3178 Fluid Adjusting Knob on back of each Spray Gun. Mist should always be absorbed into the surrounding air without settling out onto the floor under the unit. **CAUTION: DO NOT AIM DIRECTLY AT CEILING, WALL, MERCHANDISE OR MACHINERY.**

### F830-4 UNIT



**SAFETY NOTE: Do Not allow water vapor to condense or leaks to drip onto floor or unit, if this condition exists, check for:**

- Water leaks from connections or Spray Gun nozzles.
- Insufficient atomization. Correct by increasing air pressure and/or decreasing fluid flow.
- Humidistat setting too high. Lower setting if necessary.
- Open drain valve on R-75AR Regulator/Condenser item #7 periodically to drain airline moisture buildup.

**CAUTION: Guard Face and Eyes so escaping air and moisture do not cause injury.**

**WARNING: Humidifier must never be used to create a fog condition in which water may collect on the unit and produce an electrical hazard.**

**MAJOR COMPONENTS FOR F800-SERIES HUMIDIFIERS**

No.	Part No.	Description
1.	845	Humidistat
2.	GB-2-60#	Air Pressure Gauge
3.	AB-H-AUR-1	Humidifier Spray Gun (Drawing below)
4.	HL-3/16-10IN	Water Hose W/Cplgs.
5.	SM-880	Solenoid Valve
6.	HF-1/4	Valve Assembly
7.	R-75AR	Air Regulator/Condenser
8.	D528	Electric Cord (3 Wire)
9.	SM-42	Mounting Bracket

No.	Part No.	Description
1.	AR-15-1	Aircap
2.	AU-12	Aircap Nut
3.	AU-1	Tip
4.	A-AU-3-11/16	Needle
5.	AU-7B	Fluid Body
9.	U-1432A	Ball Stud
10.	U-1399	Swivel Nut
<b>U-3502 Packing Set</b>		
17.	U-28-12	Packing Washers (12)
18.	U-29	Packing Gland (1)
19.	DU-30	Stainless St. Spring (1)
20.	U-203	Gland (1)
24.	U-322	Cup Leather (1)
<b>AU-1914B Cylinder Assembly</b>		
(Note: The AU-1914B includes U-873E & U-2686A)		
4.	A-AU-3-11/16	Needle
17.	U-28-12	Packing Washers (3)
20.	U-203	Gland
21.	U-1907B	Shell Assembly
27.	U-2966	Piston Spring
<b>U-873E Piston Assembly</b>		
22.	U-2965	Needle Chuck
23.	U-2964	Inner Bushing
24.	U-322	Cup Leather
25.	U-2465A	Outer Disc
26.	U-2544	Locknut
<b>U-2686A Cylinder Cap Assembly</b>		
28.	U-2707A	Cylinder Cap
29.	U-941	Spring Washer
30.	U-951B	Fluid Dial
31.	U-2675A	Friction Nut
32.	U-1098	Spring
33.	U-2584P	Stop Washer
34.	59-57	Lock Stud
35.	U-3178	Fluid Adjusting Knob (Don't over tighten)
36.	59-56	Lock Screw

