

Designed for installation on a forced air handling system moving more than 3200 CFM. Heat for evaporation can be supplied by the warm air in the air handling system, by service hot water, or both. Model 1130 operates on the "by-pass" principle. It can be installed on either the supply or return air plenum – and the static pressure difference between the two plenums forces unhumidified air through the Water Panel® evaporator, where evaporation takes place. Humidified air is then distributed through the HVAC system.



SPECIFICATIONS

Evaporative Capacity:	30 lbs/hr with 70°F water and 120°F air*	Electrical Data:	Water Solenoid Valve/Control 24 VAC (0.5 amp)
Unit Size:	24 ¹ / ₄ "H x 25 ³ / ₄ "W x 16"D	Water Feed:	25 G.P.H.
Air Intake:	19 ¹ / ₂ "H x 24 ³ / ₄ "W ⁽¹⁾	Water Feed Connection:	1/4" O.D. Copper Tubing
Air Outlet:	6" x 18" ⁽¹⁾	Drain Connection:	1 1/4" NPT
Water Panel Size:	18" x 24" x 3" (nominal)	Accessories Included:	Transformer Saddle Valve 24 VAC Humidistat
Air Flow:	800 cfm ⁽²⁾	Shipping Weight:	50 lbs

*Air temperature rating is for comparative purposes. Application capacities vary with different conditions. See air temperature curves and package specifications table for additional information.

(1) Left or right discharge

(2) Do not install on system with less than 3200 C.F.M.

EASY REFERENCE SIZING CHART (CUBIC FOOT CAPACITIES)**

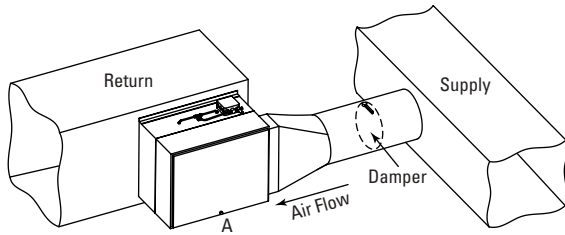
To Maintain a R.H. of (at 70°F):	30%	35%	40%	45%	50%	55%
One 1130 @ 120°F Air – 800 CFM	80,000	70,000	60,000	55,000	49,500	45,000

**Determine cubic footage to be humidified from fresh air make-up, exhaust air, or infiltration, whichever is larger. (See Form 1774.)

MODEL 1130 ELECTRIC HUMIDIFIER ENGINEERING SPECIFICATION

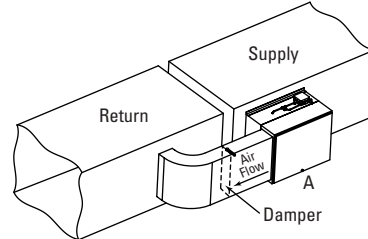
- Unit shall be a bypass unit designed for installation within a forced air, air handler moving a minimum of 3200 cfm. The unit may be mounted on either the supply or return plenum of the system. The heat generated from the air handling system shall provide the necessary heat for evaporation.
- Unit shall be complete with .5 AMP 24 VAC solenoid valve, transformer, saddle valve, electrical junction box, 1-1/4" drain connection, evaporative media, and mounting hardware.
- Unit housing shall be constructed of heavy gauge steel and shall be finished with an enamel finish.
- Unit bypass duct, 6" x 18" or 12" round, and required manual damper shall be field supplied and installed.
- Evaporative media shall be self-supporting, slit and expanded aluminum featuring an adherent water wicking mineral fiber coating. The evaporative media shall be fire and rust proof. The evaporative media shall be installed in a stainless steel scale control insert to direct mineral accumulation into the unit drain.
- Unit shall be controlled through factory provided on/off wall or duct mounted 24 volt humidistat with a control range of 15% to 50% RH.
- Unit output shall be 30 lbs/hr when supplied with 25 gallons per hour of 70°F water and 800 CFM of 120°F air.
- Humidifier shall be Aprilaire Model 1130.

RIGHT SIDE DISCHARGE (ROUND)



1. It is essential that the by-pass connection be dampered. The damper must be closed during the cooling season. If the total system pressure differential exceeds 0.2 inches w.g. the damper should be set so that a slant gauge or manometer reads 0.2 inches w.g. across the Water Panel evaporator.
2. Use 6" x 18" rectangular or 12" round duct for by-pass connection.
3. Water Panel evaporator replacement requires 18" open space at A.
4. By-pass section opening can be right or left.

LEFT SIDE DISCHARGE (RECTANGULAR)



1. It is essential that the by-pass connection be dampered. The damper must be closed during the cooling season. If the total system pressure differential exceeds 0.2 inches w.g. the damper should be set so that a slant gauge or manometer reads 0.2 inches w.g. across the Water Panel evaporator.
2. Use 6" x 18" rectangular or 12" round duct for by-pass connection.
3. Water Panel evaporator replacement requires 18" open space at A.
4. By-pass section opening can be right or left.

EVAPORATIVE CAPACITIES USING HOT AIR

