

A self-contained model, designed for installation in the conditioned space, and independent of the heating system. Hot water from a service water heater is supplied to the unit, and furnishes the heat necessary for evaporation. Air movement is accomplished by a two speed fan, which pulls dry air into the humidifier, through the Water Panel® evaporator, and distributes humidified air into the conditioned space.



### SPECIFICATIONS

<b>Evaporative Capacity:</b>	22 lbs/hr and 70°F air	<b>Electrical Data:</b>	Fan Motor/Water Solenoid Valve 120/1/60 VAC (3.0 amps) Control 24 VAC (0.5 amps)
<b>Unit Size:</b>	24 <sup>1</sup> / <sub>2</sub> "H x 25 <sup>3</sup> / <sub>4</sub> "W x 16"D	<b>Water Feed:</b>	25 G.P.H.
<b>Air Intake:</b>	19 <sup>1</sup> / <sub>2</sub> "H x 24 <sup>3</sup> / <sub>4</sub> "W <sup>(1)</sup>	<b>Water Feed Connection:</b>	1/4" O.D. Copper Tubing
<b>Air Outlet:</b>	19 <sup>1</sup> / <sub>2</sub> " x 24 <sup>3</sup> / <sub>4</sub> "	<b>Drain Connection:</b>	1 <sup>1</sup> / <sub>4</sub> " NPT
<b>Water Panel Size:</b>	18" x 24" x 3" (nominal)	<b>Accessories Included:</b>	Saddle Valve 24 VAC Humidistat
<b>Air Flow:</b>	Prewired at 800 CFM Field wire to 500 CFM	<b>Shipping Weight:</b>	60 lbs

### EASY REFERENCE SIZING CHART (CUBIC FOOT CAPACITIES)\*\*

To Maintain a R.H. of (at 70°F):	30%	35%	40%	45%	50%	55%
One 1120 @ 140°F Hot Water	63,900	54,600	48,000	42,400	38,100	34,600

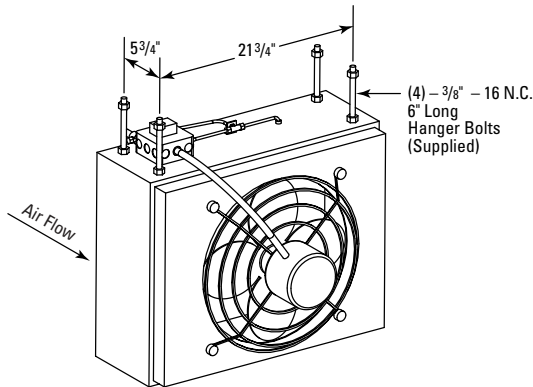
EXAMPLE: 40% R.H. Desired, 70,000 cf/hr (fresh air), use two 1120 if independent.

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

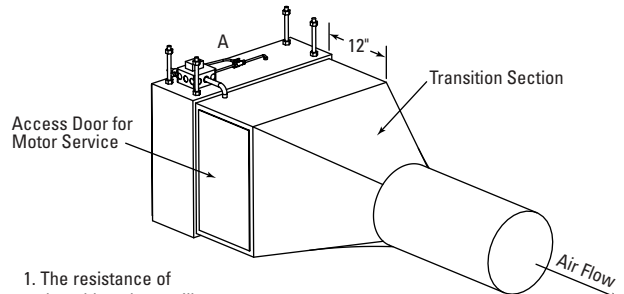
## MODEL 1120 ELECTRIC HUMIDIFIER ENGINEERING SPECIFICATION

- Unit shall be completely self-contained and designed for installation independent of the HVAC system.
- Unit shall be complete with .5 AMP 120 VAC solenoid valve, combination relay/transformer, saddle valve, electrical junction box, 1-1/4" drain connection, evaporative media, air distribution fan, inlet guard, and mounting hardware.
- Unit housing shall be constructed of heavy gauge steel and shall be finished with an enamel finish.
- 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.
- Air distribution fan shall be .8 AMP 120 VAC and feature a two-speed fan motor. Fan shall be mounted directly to the unit via an integral safety guard. The fan will be isolated from the unit housing to prevent vibration. Fan motor will be factory wired to unit junction box by means of flexible metal conduit.
- Unit shall be controlled through factory provided on/off wall or duct mounted 24V humidistat with a control range of 15% to 50% RH.
- Unit output shall be 22 lbs. per hour when supplied with 25 gallons of 140 degree water per hour and ambient air temperature is 72°F.
- Humidifier shall be Aprilaire Model 1120.

### FREE HANGING

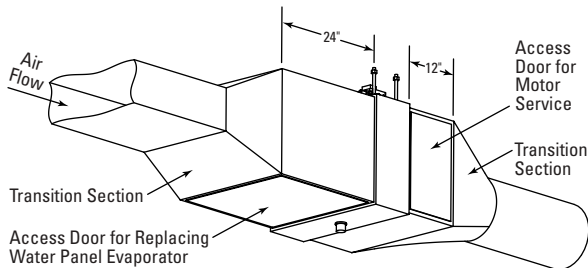


### WITH SUPPLY DUCT



1. The resistance of the add on duct, grilles, etc. should not exceed .25 inches w.g.
2. The transition section must follow good sheet metal practice.
3. The minimum duct size is 16" round or 12" x 20" rectangular.
4. Fiber glass duct may be used for sound attenuation.
5. Water Panel evaporator replacement requires 18 inches open space at A.

### WITH SUPPLY AND RETURN DUCT



1. The resistance of the add on duct, grilles, etc. should not exceed .25 inches w.g.
2. The transition sections must follow good sheet metal practice.
3. The minimum duct size is 16" round or 12" x 20" rectangular.
4. Fiber glass duct may be used for sound attenuation.

### EVAPORATIVE CAPACITY

