

Model 1140 is designed for installation with its own forced air heat source and is installed independent of the building heating system. A transition fitting connects the unit to the heat source – and humidified air can be discharged into the immediate area or duct work can be installed for distribution to other locations.



SPECIFICATIONS

Evaporative Capacity:	21 lbs/hr with 30,000 Btu and 120°F air and 70°F water	Electrical Data:	Water Solenoid Valve 120/1/60 VAC Control 24 VAC
Unit Size:	24 ¹ / ₄ "H x 25 ³ / ₄ "W x 8 ¹ / ₂ "D	Water Feed:	25 G.P.H.
Air Intake:	19 ¹ / ₂ "H x 24 ³ / ₄ "W	Water Feed Connection:	1/4" O.D. Copper Tubing
Air Outlet:	19 ¹ / ₂ " x 24 ³ / ₄ "	Drain Connection:	1/4" NPT
Water Panel Size:	18" x 24" x 3" (nominal)	Accessories Included:	Saddle Valve 24 VAC Humidistat
Air Flow:	500 CFM	Shipping Weight:	40 lbs

EASY REFERENCE SIZING CHART (CUBIC FOOT CAPACITIES)*

To Maintain a R.H. of (at 70°F):	30%	35%	40%	45%	50%	55%
One 1140 @ 120°F Air – 500 CFM	59,000	51,000	45,000	40,000	36,000	32,000

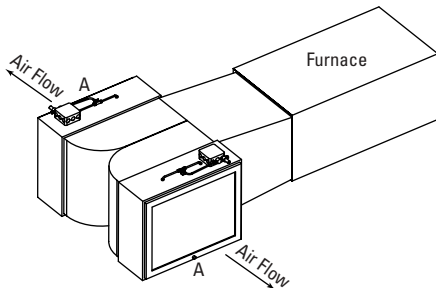
EXAMPLE: 40% R.H. Desired, 70,000 cf/hr (fresh air), use two 1140 if on 120° air and 500 CFM

*Determine cubic footage to be humidified from fresh air make-up, exhaust air, or infiltration, whichever is larger. Chart can not be used if cooling unit operates simultaneously with humidifier. (See Form 1774.)

MODEL 1140 ELECTRIC HUMIDIFIER ENGINEERING SPECIFICATION

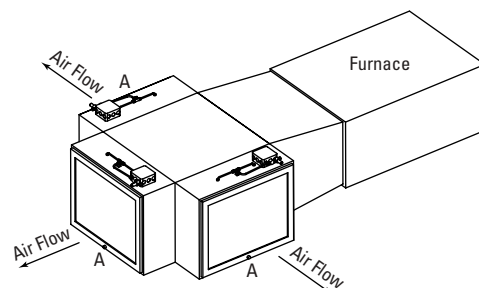
- Unit shall be designed for installation with its own forced air heat source and is installed independent of the building heating system.
- A transition fitting shall be field fabricated to connect the unit to the heat source – and humidified air can be discharged into the immediate area or duct work can be installed for distribution to other locations.
- Unit shall be complete with 0.1 AMP 120 VAC solenoid valve, 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.
- 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 21 lbs/hr when supplied with 25 gallons per hour of 70° water and 30,000 Btu of 120° air.
- Humidifier shall be Aprilaire Model 1140.

SINGLE HEAT SOURCE, 2 1140s



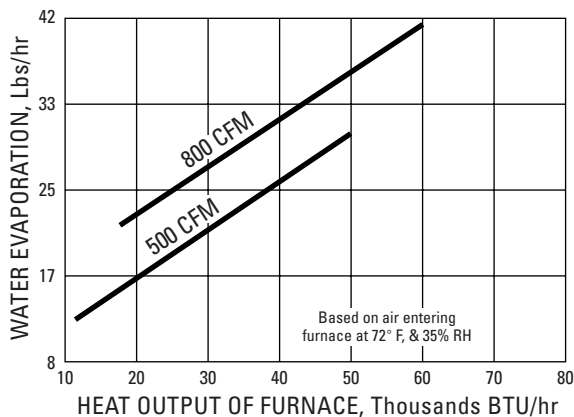
1. The resistance through the 1140 is 0.2 inches w.g.
2. Water supply – 1/4" copper tubing to each unit from a 3/8" (min.) source.
3. Water Panel evaporator replacement requires 18" open space at A.
4. All heat source air must be directed through the 1140s.

SINGLE HEAT SOURCE, 3 1140s



1. The resistance through the 1140 is 0.2 inches w.g.
2. Water supply – 1/4" copper tubing to each unit from a 3/8" (min.) source.
3. Water Panel evaporator replacement requires 18" open space at A.
4. All heat source air must be directed through the 1140s.

EVAPORATIVE CAPACITIES AT BTU OUTPUTS



PACKAGE SPECIFICATION TABLE

(one furnace and two or more Model 1140 units)

Furnace Output BTU/hr	Number Model 1140 Required	Furnace* Airflow CFM	Total Capacity lbs/hr	Leaving Temperature °F Humidified Air
60,000	2	1,000	42	80
90,000	3	1,500	62	80
120,000	4	2,000	83	80
150,000	5	2,500	104	80
300,000	10	5,000	208	80
450,000	15	7,500	312	80

*When ordering furnace, specify the blower and motor that would be used if cooling coils were added.