

MARK	EXTRA POWER STEAM HOT WATER HEATED MODEL NUMBER ①	NO. REQ'D	LENGTH	WEIGHT (LBS)	MOTOR FAN DATA						HEATING CAPACITY OF COILS								dBA Measured 10 ft. from Nozzle	REMARKS
					MOTOR HP 3400 RPM	VOLTS & PHASE	FLA (AMPACITY) THREE PHASE		MAX FPM @ NOZZLE	MAX CFM @ NOZZLE	STEAM ②				HOT WATER ②					
							208V 240V	480V			HEAT MBH		TEMP. RISE °F		HEAT MBH		TEMP. RISE °F			
											ONE ROW	TWO ROW	ONE ROW	TWO ROW	ONE ROW	TWO ROW	ONE ROW	TWO ROW		
	EP48		4'	160	3		8.3 (10.4)	3.8 (4.8)	4800	4800	133	228	26	44	101	169	20	30	76	
	EP60		5'	200	3		8.3 (10.4)	3.8 (4.8)	3840	4800	152	259	29	50	106	173	20	30	76	
	EP72-2		6'	260	Two 3		16.6 (20.8)	7.6 (9.6)	6170	9600	229	395	22	38	188	300	20	30	79	
	EP84-2		7'	280	Two 3		16.6 (20.8)	7.6 (9.6)	5485	9600	248	428	24	41	199	315	20	30	79	
	EP96-2		8'	310	Two 3		16.6 (20.8)	7.6 (9.6)	4800	9600	270	462	26	45	207	338	20	30	79	
	EP108-2		9'	340	Two 3		16.6 (20.8)	7.6 (9.6)	3840	9600	289	496	28	48	214	348	20	30	79	
	EP108-3		9'	360	Three 3		24.9 (31.2)	11.4 (14.3)	5760	14400	308	515	22	38	275	452	20	30	81	
	EP120-2		10'	380	Two 3		16.6 (20.8)	7.6 (9.6)	3840	9600	327	523	30	50	217	350	20	30	79	
	EP120-3		10'	400	Three 3		24.9 (31.2)	11.4 (14.3)	5760	14400	363	626	23	40	285	462	20	30	81	
	EP144-3		12'	420	Three 3		24.9 (31.2)	11.4 (14.3)	4800	14400	406	696	26	45	307	489	20	30	81	

NOTES: ① When specifying one row design use "S" prefix for steam and "W" prefix for hot water, for two row design use "SS" and "WW".
 ② MBtu/Hr and air temperature rise based on 70° ambient air and (5 psi steam) or (200°F hot water).

EQUIPMENT SPECIFICATION - Standard Features
 GENERAL: Air curtain shall be a Mars® Air Doors brand air curtain: Type High Velocity Steam or Hot Water heated.
 APPROVALS
 Air curtains, excluding coils, shall be Underwriters Laboratory Listed, Canadian Standards Association Certified and meet the requirements of the National Electric Code.

CABINET
 Cabinets shall be self contained one piece housing with sufficient strength for fastening to wall on both ends without intermediate support. Cabinet constructed of fire retardant, corrosion proof paint lock metal and double protected with gray baked rust preventative electrostatic polyurethane powder coating. Cabinet to have mechanically field adjustable variable air intake louver assembly capable of reducing outlet air velocity up to 60% with louvers in the totally closed position. Discharge air outlet nozzle shall be wedge shape containing adjustable air directional vanes with a 40° sweep front to back. Motor/fan assembly to be easily accessible for maintenance.

COIL CONSTRUCTION FOR BOTH HOT WATER & STEAM
 Coils shall be constructed of .035" heavy tube wall x 5/8" OD seamless copper tubing with die formed aluminum fins. Tubes shall be arranged in a staggered pattern in the direction of air flow. Casings shall be of not less than 16 gauge galvanized steel with tube holes formed with extruded collars. Tubes shall be mechanically expanded into fins to assure a uniform pressure bond throughout the entire length of each tube. Manifolds shall be of heavy seamless copper construction. All joints shall be brazed with high temperature silver brazing alloy. Fittings shall be of wrought copper or similar construction such that the entire fluid circuit shall be of compatible nonferrous materials. Manifold shall be fitted with 1/4" vent or drain fittings. Supply fitting is on the right side of coil. Return fitting is on the left side. Coils are shipped loose.

MOTORS AND BLOWER WHEELS
 Motor(s) shall be totally enclosed air over (TEAO) type suitable for continuous heavy duty, all angle operation. Construction shall include sealed lifetime pre-lubricated ball bearings, resilient mounted and protected by an automatic reset thermal overload switch. Motor(s) to have cord with pigtailed in water tight junction box, secured with a water tight fitting. Motor(s) to have double extended shaft and direct drive, double inlet, dynamically balanced, forward curve squirrel cage blower wheels. Shipped loose for units over 4 feet long.

ELECTRICAL WIRING
 Each motor to have a watertight junction box to be mounted on bottom center of each motor/fan assembly.
 GUARANTEE Shall be 18 months on all parts.

Single Phase Motors Available. 1Ø, 115V (30A) & 208/230 (16.6A) per motor. Multiply the 1Ø Amps by the number of motors per unit for the FLA. (FLA x 1.25=Ampacity)

An equipment specification can be prepared by combining the standard features at the left with the checked boxes below indicating the selection of optional features.

OPTIONAL FEATURES

When checked below, air curtain will be supplied with the following special features.

- Steam/Hot water coil manufactured with supply and return fittings on same side of coil manifold.
 - Left hand fittings Right hand fittings Other _____
- Explosion proof motor(s)
- Two speed motor(s)
- Door micro switch (20 Amp) for automatic On/Off control. Turns air curtain on when door is opened and turns off when door is closed. Field installed.
 - Plunger type Roller type

NOTE: Mars® recommends the use of a motor control panel on 3 phase motors whenever a door micro switch is used to start and stop the air curtain. One door micro switch can directly control one 1 HP single phase motor without the need for a motor control panel.

- Wall mounted control panel Factory mounted control panel on air curtain
- Indicate total number of motors to be powered through panel
 - 1 2 3 4 5 6
- Plates for side extension of mounting points
 - 5 inch extension 7 inch extension 9 inch extension
- Adjustable mounting brackets to clear any wall obstruction of air flow
 - 2 1/2 inch clearance 4 inch clearance 7 inch clearance 10 inch clearance
- Extended wall mounting brackets to install air curtain in front of DRUM TYPE roll-up doors
 - 10 inch clearance 16 inch clearance 19 inch clearance 23 inch clearance
- Coil casing finished to match air curtain housing
- All stainless steel housing
- Washable aluminum air filter
 - In lieu of adjustable inlet air louvers In conjunction with adjustable inlet air louvers

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