

MARK	STANDARD 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 1750 RPM	VOLTS & PHASE	FLA (AMPACITY) SINGLE PHASE		FLA (AMPACITY) THREE PHASE		MAX FPM @ NOZZLE	MAX CFM @ NOZZLE	STEAM ②				HOT WATER ②					
							115V	208V 240V	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
	36		3'	100	?		5.1 (6.4)	2.5 (3.2)	1.8 (2.3)	0.8 (1.0)	3400	2550	78	-	29	-	55	93	20	30	66	
	42		3'6"	110	?		5.1 (6.4)	2.5 (3.2)	1.8 (2.3)	0.8 (1.0)	2925	2550	86	-	31	-	61	101	20	30	66	
	48		4'	120	?		5.1 (6.4)	2.5 (3.2)	1.8 (2.3)	0.8 (1.0)	2550	2550	93	-	34	-	64	105	20	30	66	
	64-2		5'4"	180	Two ?		10.2 (12.8)	5.1 (6.4)	3.6 (4.2)	1.6 (2.0)	3750	5100	153	-	27	-	83	130	20	30	68	
	72-2		6'	190	Two ?		10.2 (12.8)	5.1 (6.4)	3.6 (4.2)	1.6 (2.0)	3475	5100	159	-	28	-	91	145	20	30	68	
	78-2		6'6"	200	Two ?		10.2 (12.8)	5.1 (6.4)	3.6 (4.2)	1.6 (2.0)	3200	5100	182	-	33	-	118	189	20	30	68	
	84-2		7'	215	Two ?		10.2 (12.8)	5.1 (6.4)	3.6 (4.2)	1.6 (2.0)	2925	5100	175	-	32	-	120	193	20	30	68	
	96-2		8'	350	Two ?		10.2 (12.8)	5.1 (6.4)	3.6 (4.2)	1.6 (2.0)	2550	5100	188	-	34	-	120	189	20	30	68	
	96-3		8'	260	Three ?		15.3 (19.2)	7.6 (9.5)	5.4 (6.8)	2.4 (3.0)	3825	7650	224	-	27	-	171	277	20	30	71	
	108-2		9'	280	Two ?		10.2 (12.8)	5.1 (6.4)	3.6 (4.2)	1.6 (2.0)	2925	5100	190	-	35	-	130	190	20	30	71	
	108-3		9'	290	Three ?		15.3 (19.2)	7.6 (9.5)	5.4 (6.8)	2.4 (3.0)	3250	7650	245	-	30	-	178	280	20	30	71	
	120-3		10'	305	Three ?		15.3 (19.2)	7.6 (9.5)	5.4 (6.8)	2.4 (3.0)	3060	7650	256	-	31	-	181	286	20	30	71	
	144-3		12'	320	Three ?		15.3 (19.2)	7.6 (9.5)	5.4 (6.8)	2.4 (3.0)	2550	7650	283	-	34	-	189	293	20	30	71	
	144-4		12'	365	Four ?		20.4 (25.5)	10.2 (12.8)	7.2 (9.0)	2.4 (3.0)	3400	10,200	322	-	29	-	247	247	20	30	73	

NOTES: ① When specifying one row design use "S" prefix for steam and "W" prefix for hot water, for two row design use "WW". "SS" double row steam heat not available.  
 ② MBH 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 Door brand air curtain: Type Standard Steam or Hot Water heated.  
 APPROVALS

Air curtains, excluding coils, shall be Underwriters 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 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 quick disconnect plugs for fast easy removal of motor/fan assembly for inspection and cleaning. 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.

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 motors

Two speed motor (Available in single phase only)

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 or two 1/2 HP single phase motors 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

MADE WITH PRIDE IN THE U.S.A.