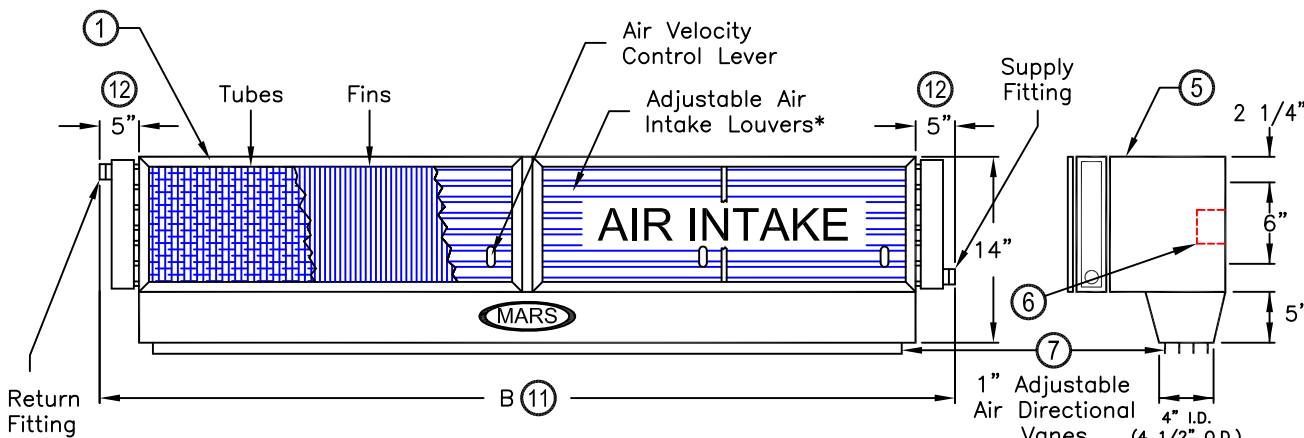


**TOP VIEW**



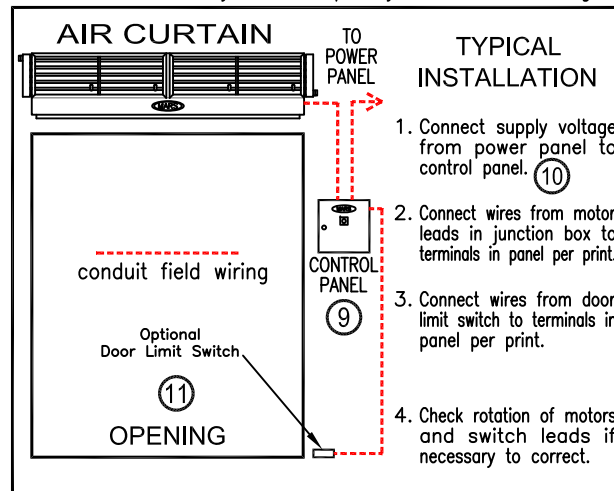
**FRONT VIEW**

**SIDE VIEW**

-2, -3 & -4 designates the number of motors.

**\*NOTE:** Louver assembly size and quantity varies with unit length.

MODEL NUMBER ⑫	NUMBER OF MOTORS	MOUNTING CENTERS A	OVERALL LENGTH B
STD36-1*	1	35 1/8"	46"
STD42-1*	1	41 1/8"	52"
STD48-1*	1	47 1/8"	58"
STD64-2*	2	63 1/8"	74"
STD72-2*	2	71 1/8"	82"
STD78-2*	2	77 1/8"	88"
STD84-2*	2	83 1/8"	94"
STD96-2*	2	95 1/8"	106"
STD96-3*	3	95 1/8"	106"
STD108-2*	2	107 1/8"	118"
STD108-3*	3	107 1/8"	118"
STD120-3*	3	119 1/8"	130"
STD144-3*	3	143 1/8"	154"
STD144-4*	4	143 1/8"	154"



**NOTES:**

- ① This product is designed to comply with the National Electric Code (NEC), ETL listed for US & Canada, and bear the CE mark.
- ② All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal, double protected with baked on gray color, rust preventative electrostatic polyurethane powder coating.
- ③ Coil casing is self contained one piece unpainted galvanized steel, bolted to air curtain housing. For coil casing finish to match air curtain housing, please specify. Coil are always shipped loose for field installation. Motor/Fan Assembly(s) 4 ft. and longer are shipped loose for field installation.
- ④ "C" dimension: Add 4 1/2" for one row and 6" for two row coil to unit depth.
- ⑤ Cabinet has sufficient strength for fastening to wall on both ends without intermediate support.
- ⑥ Internal J-Box(es) for electrical wiring.
- ⑦ Unit is to be installed such that air flow is unobstructed. Air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
- ⑧ Optional motor control panel. Overloads are factory preset. Standard procedure is to ship panel loose for remote mount. Can be factory mounted on either left or right hand side of air curtain housing. Please specify.
- ⑨ Circuit protection as per NEC by others.
- ⑩ Optional door limit switch is field installed and is to be wired to the control panel. Switch to be mounted such that air curtain turns on as door begins to open.
- ⑪ Hot Water application shown. For Steam, return fitting is on bottom of manifold and supply is on center of manifold. Coils with the same end supply and return fittings, subtract 5" from overall length.
- ⑫\* When specifying one row design, use "Y" for steam and "W" for hot water. For two row design, use "X" for hot water. See Code chart on second page.



PROJECT	Model No.:
LOCATION	Drawing No.:
ARCHITECT	Date
ENGINEER	Sheet of
	Drawn By:
	Checked By:

**MARS**<sup>®</sup>  
AIR SYSTEMS

14716 S. BROADWAY • GARDENA, CA 90248 • USA  
TEL:(310) 532-1555 • (800) 421-1266 • FAX:(310) 324-3030  
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**STANDARD (STD) 1/2 HP STEAM AND HOT WATER HEATED MODELS**

**JOB:**

**ARCHITECT/ENGINEER:  
CONTRACTOR:**

**DRWG.:** \_\_\_\_\_  
**SHEET** \_\_\_\_\_ **of** \_\_\_\_\_ **DATE:** \_\_\_\_\_

MARK	STANDARD STEAM HOT WATER HEATED MODEL NUMBER ①	NO. REQ'D	LENGTH	WEIGHT (LBS) 1ROW / 2ROW	MOTOR FAN DATA							HEATING CAPACITY OF COILS								dBA Measured 10ft. from Nozzle	REMARKS
					MOTOR HP 1750** RPM	FLA* SINGLE PHASE		FLA* THREE PHASE		MAX FPM** @ NOZZLE	MAX CFM** @ NOZZLE	STEAM ②				HOT WATER ②					
						115V	208/230V	208/230V	460V			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		
	STD36-1*		3'	85/105	1/2	5.1	2.5/2.5	1.8/1.6	0.8	3400	2550	78	-	29	-	55	93	20	30	66	
	STD42-1*		3'6"	100/110	1/2	5.1	2.5/2.5	1.8/1.6	0.8	2925	2550	86	-	31	-	61	101	20	30	66	
	STD48-1*		4'	115/115	1/2	5.1	2.5/2.5	1.8/1.6	0.8	2550	2550	93	-	34	-	64	105	20	30	66	
	STD64-2*		5'4"	160/170	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	3825	5100	153	-	27	-	83	130	20	30	68	
	STD72-2*		6'	170/185	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	3475	5100	159	-	28	-	91	145	20	30	68	
	STD78-2*		6'6"	175/190	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	3200	5100	182	-	33	-	118	189	20	30	68	
	STD84-2*		7'	195/210	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	2925	5100	175	-	32	-	120	193	20	30	68	
	STD96-2*		8'	210/230	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	2550	5100	188	-	34	-	120	189	20	30	68	
	STD96-3*		8'	240/260	Three 1/2	15.3	7.5/7.5	5.4/4.8	2.4	3825	7650	224	-	27	-	171	277	20	30	71	
	STD108-2*		9'	240/260	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	2266	5100	190	-	35	-	130	190	20	30	71	
	STD108-3*		9'	265/285	Three 1/2	15.3	7.5/7.5	5.4/4.8	2.4	3400	7650	245	-	30	-	178	280	20	30	71	
	STD120-3*		10'	285/305	Three 1/2	15.3	7.5/7.5	5.4/4.8	2.4	3060	7650	256	-	31	-	181	286	20	30	71	
	STD144-3*		12'	320/350	Three 1/2	15.3	7.5/7.5	5.4/4.8	2.4	2550	7650	283	-	34	-	189	293	20	30	71	
	STD144-4*		12'	350/375	Four 1/2	20.4	10.0/10.0	7.2/6.4	3.2	3400	10,200	322	-	29	-	247	396	20	30	73	

**NOTES:** ① \*When specifying one row design use "Y" for steam and "W" for hot water, for two row design, use "X" for Hot Water and "Z" for steam. See Code Chart below.  
② MBH and air temperature rise based on 70° ambient air and (5 psi steam) or (200°F hot water).

**\*-For Ampacity Multiply FLA X 1.25**  
**\*\*-17% Reduction in Performance on units with 50Hz.**

**EQUIPMENT SPECIFICATIONS - 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, (N.E.C.), ETL Listed for US & Canada, and bear the CE mark.

**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 not be less than 16 gauge galvanized steel with tube holes formed with extruded collars. Tubes shall 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**

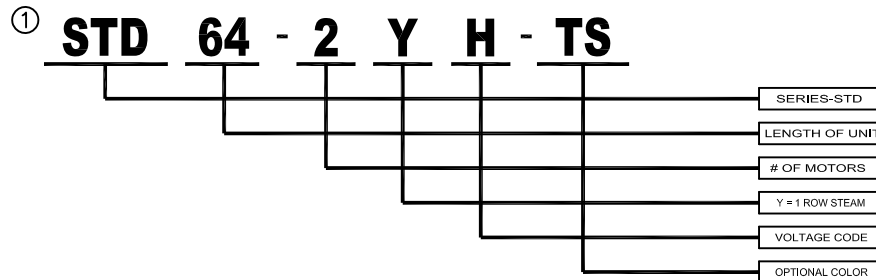
All junction boxes are internally mounted one motor (1) - 2"x4"; two motors (1) 4"x4"; three or four motors (2) 4"x4".

**GUARANTEE** Shall be 18 months on all parts.

**ACCESSORIES**

Refer to the optional features and accessories page.

**EXAMPLE**



HEATING OPTION	CODE
1 ROW HOT WATER	W
2 ROW HOT WATER	X
1 ROW STEAM	Y

SIZE	VOLTAGE	CODE
36"-144"	208/1/60	B
36"-144"	230/1/60	C
36"-144"	208/3/60	E
36"-144"	230/3/60	F
36"-144"	460/3/60	H
36"-144"	575/3/60	I

COLOR	CODE
OBSIDIAN BLACK	OB
TITANIUM SILVER	TS
PEARL WHITE	PW
SPARTAN BRONZE	SB
BATTLESHIP GRAY	BG

**MADE WITH PRIDE IN THE USA**

**STANDARD (STD) 1/2 HP STEAM AND HOT WATER HEATED MODELS**