

NOTES:

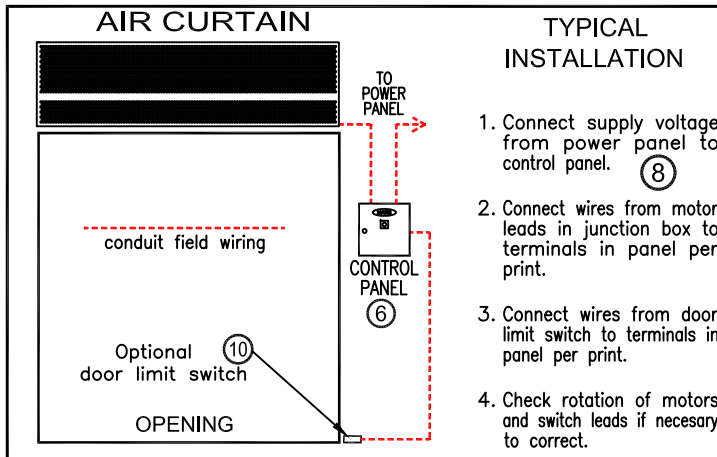
- ① This product is designed to comply with the National Electric Code (NEC), ETL listed for US & Canada, and bear the CE mark.
- ② 7/16" mounting holes, (4) provided, (2) on each end. for Wall Mount, (2) on each end for Top Mount.
- ③ All units have a self contained one piece cabinet, with fire retardant and corrosion proof paint lock metal, double protected with baked on gray color, rust preventative, electrostatic, polyurethane powdercoating.
- ④ Cabinet has sufficient strength for suspension from both ends without intermediate support.
- ⑤ Internal J-Box(es) for electrical wiring.
- ⑥ 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.
- ⑦ Unit is to be installed such that air flow is unobstructed. Air discharge nozzle contains adjustable air directional vanes with 40° sweep front to back.
- ⑧ Hot Water application shown. For Steam, return fitting is an bottom of manifold and supply is an center of manifold.
- ⑨ Branch circuit protected as per NEC by others.
- ⑩ Optional door limit switch is field installed. Switch to be mounted such that the air curtain turns on as door begins to open. A time delay is highly recommended with the optional door limit switch.

-2 & -3 designates the number of motors.

*NOTE: Intake scree size and number varies with unit length.



MODEL NUMBER	MOUNTING CENTERS A	OVERALL LENGTH B
HV2 48-1V	47 1/8"	48"
HV2 60-1V	59 1/8"	60"
HV2 72-2V	71 1/8"	72"
HV2 84-2V	83 1/8"	84"
HV2 96-2V	95 1/8"	96"
HV2 108-2V	107 1/8"	108"
HV2 108-3V	107 1/8"	108"
HV2 120-2V	119 1/8"	120"
HV2 120-3V	119 1/8"	120"
HV2 144-3V	143 1/8"	144"



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



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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			
	HV2 48-1*		4'	165/165	1	9	5	3.3/3.2	1.6	4000	4000	124	210	29	49	87	144	20	30	70		
	HV2 60-1*		5'	180/190	1	9	5	3.3/3.2	1.6	3200	4000	141	238	33	55	94	152	20	30	70		
	HV2 72-2*		6'	265/280	Two 1	18	10	6.6/6.4	3.2	5140	8000	210	362	24	42	164	272	20	30	73		
	HV2 84-2*		7'	280/300	Two 1	18	10	6.6/6.4	3.2	4570	8000	230	395	27	46	174	284	20	30	73		
	HV2 96-2*		8'	305/325	Two 1	18	10	6.6/6.4	3.2	4000	8000	250	426	29	49	177	283	20	30	73		
	HV2 108-2*		9'	320/345	Two 1	18	10	6.6/6.4	3.2	3600	8000	271	452	30	51	185	301	20	30	73		
	HV2 108-3*		9'	380/400	Three 1	27	15	9.9/9.6	4.8	5500	12000	318	545	24	42	224	360	20	30	75		
	HV2 120-2*		10'	360/385	Two 1	27	10	6.6/6.4	3.2	3200	8000	284	479	33	55	195	307	20	30	73		
	HV2 120-3*		10'	420/440	Three 1	27	15	9.9/9.6	4.8	4200	12000	338	579	26	45	255	410	20	30	75		
	HV2 144-3*		12'	460/500	Three 1	27	15	9.9/9.6	4.8	4000	12000	377	641	29	49	281	410	20	30	75		

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 (200F hot water).

EQUIPMENT SPECIFICATIONS – Standard Features

GENERAL: Air curtain shall be a Mars Air Door brand air curtain: Type High Velocity 2 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. 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.

†-For Ampacity Multiply FLA X 1.25

** -17% Reduction in Performance on units with 50Hz.

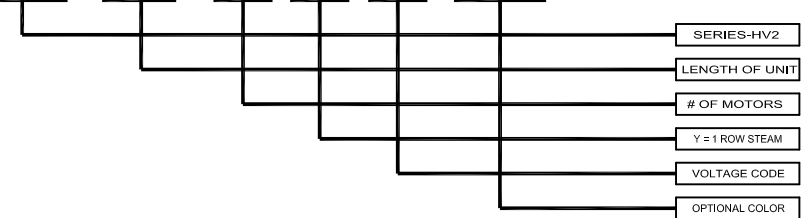
ACCESSORIES

Refer to the optional features and accessories page.

EXAMPLE

①

HV2 72 - 2 Y H - TS



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

SIZE	VOLTAGE	CODE
48"-144"	115/1/60	A
48"-144"	208-230/1/60	D
48"-144"	220/1/50	U
48"-144"	208-230/3/60	G
48"-144"	460/3/60	H
48"-144"	575/3/60	I

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

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