

## NOTES:

- ① This product is designed to meet the National Electric Code (NEC) and is ETL Listed for the US and Canada and bear the CE mark.
- ② 7/16" top mounting holes, (4) provided, (2) on each end.
- ③ 1/2" key hole slots and 7/16" mounting holes (4) provided, (2) on each end for wall mounting.
- ④ All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal double protected with baked on Titanium Silver color, rust preventative electrostatic polyurethane powder coating.
- ⑤ Cabinet has sufficient strength for fastening to wall on both ends without intermediate support.
- ⑥ Control panel is prewired and premounted inside the cabinet. Optional remote mounted available.
- 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 Wall mounted 24 volt thermostat with remote "heat/off/fan" switch is shipped loose and field installed. Terminal block provided inside control panel.
- ⑨ Circuit protected 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 the air curtain turns on as door begins to open. A time delay is highly recommended with optional door limit switch.

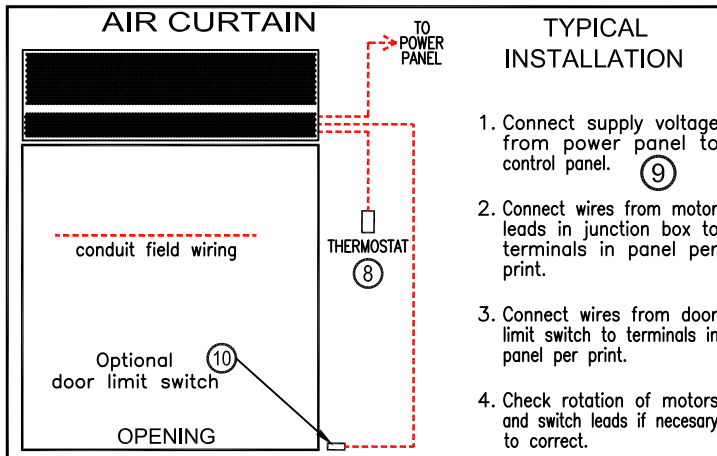


BOTTOM VIEW


-2 & -3 designates the number of motors.

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

MODEL NUMBER		MOUNTING CENTERS A	OVERALL LENGTH B
HV242-1E	--	41 1/8"	42"
HV248-1E	EP248-1E	47 1/8"	48"
HV260-1E	EP260-1E	59 1/8"	60"
HV272-2E	EP272-2E	71 1/8"	72"
HV284-2E	EP284-2E	83 1/8"	84"
HV296-2E	EP296-2E	95 1/8"	96"
HV2108-2E	EP2108-2E	107 1/8"	108"
HV2108-3E	EP2108-3E	107 1/8"	108"
HV2120-2E	EP2120-2E	119 1/8"	120"
HV2120-3E	EP2120-3E	119 1/8"	120"
HV2144-3E	EP2144-3E	143 1/8"	144"



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



**atmosphere is everything**

14716 S. Broadway • Gardena, CA 90248 • USA  
TEL: (310) 532-1555 • (800) 421-1266 • FAX: (310) 324-3030  
Web Site: www.marsair.com • E-mail: info@marsair.com

# HIGH VELOCITY2 (HV2) 1 HP & EXTRA POWER2 (EP2) 3HP ELECTRIC HEATED MODELS

JOB:

ARCHITECT/ENGINEER:  
CONTRACTOR:DRWG.: \_\_\_\_\_  
SHEET \_\_\_\_ of \_\_\_\_ DATE: \_\_\_\_\_

## MOTOR FAN DATA

MARK	HEATED MODEL NUMBER ①	NO. REQ'D	LENGTH	WEIGHT (LBS)	MOTOR HP	MOTOR RPM **	VOLTS / PHASE ②	HEATER INPUT, kW ②	AMPS ** ②	TEMP RISE °F ②	MAX FPM ** @ NOZZLE	MAX CFM ** @ NOZZLE	dBA Measured 10 ft. fr Nozzle	REMARKS
	HV242-1E		3'6"	125	1	1750					4000	3500	70	
	HV248-1E		4'	145	1	1750					4000	4000	70	
	HV260-1E		5'	155	1	1750					3200	4000	70	
	HV272-2E		6'	315	Two 1	1750					5140	8000	73	
	HV284-2E		7'	335	Two 1	1750					4570	8000	73	
	HV296-2E		8'	340	Two 1	1750					4000	8000	73	
	HV2108-2E		9'	350	Two 1	1750					3600	8000	73	
	HV2108-3E		9'	425	Three 1	1750					5500	12,000	75	
	HV2120-2E		10'	365	Two 1	1750					3200	8000	73	
	HV2120-3E		10'	440	Three 1	1750					4200	12,000	75	
	HV2144-3E		12'	465	Three 1	1750					4000	12,000	75	
	EP248-1E		4'	145	3	3450					4800	4800	76	
	EP260-1E		5'	155	3	3450					3840	4800	76	
	EP284-2E		7'	335	Two 3	3450					5485	9600	79	
	EP296-2E		8'	340	Two 3	3450					4800	9600	79	
	EP2108-2E		9'	350	Two 3	3450					4200	9600	79	
	EP2108-3E		9'	425	Three 3	3450					6222	14,000	81	
	EP2120-2E		10'	365	Two 3	3450					3840	9600	79	
	EP2120-3E		10'	440	Three 3	3450					5760	14,000	81	
	EP2144-3E		12'	465	Three 3	3450					4800	14,000	81	

**NOTES:** ① Refer to model chart. ② Refer to heater availability chart for parameter values.**EQUIPMENT SPECIFICATIONS** - Standard Features**GENERAL:** Air curtain shall be a Mars® Air Systems brand air curtain: Type HV2 or EP2 Electric Heated.**APPROVALS:** Air curtain shall meet the requirements of the National Electric Code (N.E.C.) ETL Listed for US & Canada, and bear the CE mark.**CABINET**

Cabinet shall be a 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 double protected with baked on Titanium Silver color, rust preventative electrostatic polyurethane powder coating. Discharge air outlet nozzle is internal wedge shaped containing adjustable air direction aluminum vanes with 40° sweep front to back. Motor/ Fan assembly to be easily accessible for maintenance.

**ELECTRIC HEATER COIL**

The heating coils shall be an open coil type for rapid temperature rise to be located in the air curtain's intake directly in the air stream. Thermal overload protection shall be provided by manual reset protectors, which shall directly disconnect the electric power from the heaters in the event of an overload. Secondary protectors in the heating contactor shall not be substituted.

**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 plug for fast and 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 curved squirrel cage blower wheels.

**ELECTRIC WIRING**

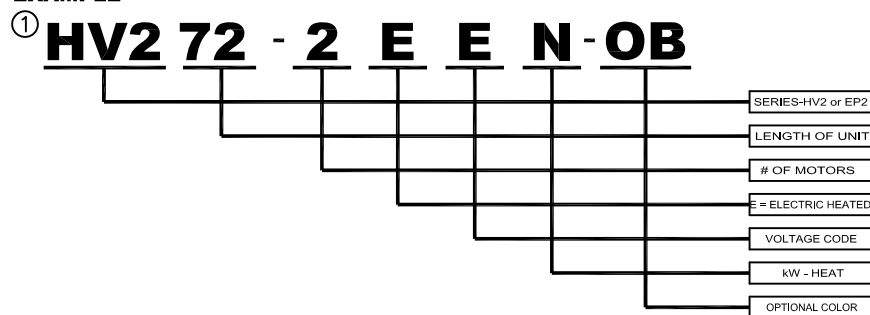
Air curtain shall contain prewired, control panel ready for power connection. Panel is internal mounted or on right hand side of unit unless otherwise specified. If panel is mounted external, control panel adds 4 inches to unit's overall length and requires an additional 20 inches of clearance from the end of the cabinet for access to panel. Unit shall include a 24 volt thermostat with "heat/off/fan" switch, shipped loose and field installed. Terminal block provided inside panel.

**GARANTEE**

Shall be 18 months on all parts.

**ACCESSORIES**

Refer to the optional feature and accessories page.

**\*\* 17% REDUCTION IN PERFORMANCE WITH UNITS WITH 50Hz.****EXAMPLE**

SIZE	VOLTAGE	CODE
48"-144"	208/3/60	E
48"-144"	230/3/60	F
48"-144"	460/3/60	H
48"-144"	575/3/60	I

KW	CODE
12	H
24	N
36	S

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

**MADE WITH PRIDE IN THE USA****HIGH VELOCITY2 (HV2) 1 HP & EXTRA POWER2 (EP2) 3HP ELECTRIC HEATED MODELS**

SJ1B2 11/6/12 ML



# HIGH VELOCITY2 (HV2) & EXTRA POWER2 (EP2) MODEL HEATER CHART

## ELECTRIC HEATER DATA

UNITS AVAILABLE ONLY IN THREE PHASE

MODEL	kW	208V, 3Ø Amp (Ampacity)	230V, 3Ø Amp (Ampacity)	460V, 3Ø Amp (Ampacity)	575V, 3Ø Amp (Ampacity)	TEMP RISE °F HV/EP
HV2/EP248-1E	12	36.6 / 41.6 (45.8) / (52.0)	33.3 / 37.7 (41.6) / (47.1)	16.6 / 18.8 (20.8) / (23.5)	13.3 / 15.0 (16.6) / (18.8)	9.5/8
HV2/EP260-1E	12	36.6 / 41.6 (45.8) / (52.0)	33.3 / 37.7 (41.6) / (47.1)	16.6 / 18.8 (20.8) / (23.5)	13.3 / 15.0 (16.6) / (18.8)	9.5/8
HV272-2E	24	73.2 (89.6)	66.6 (83.3)	33.2 (41.5)	26.6 (33.3)	9.5/--
HV2/EP284-2E	24	73.2 / 83.2 (91.5) / (104)	66.6 / 75.4 (83.3) / (94.3)	33.2 / 37.6 (41.5) / (47.0)	26.6 / 30.0 (33.3) / (37.8)	9.5/8
HV2/EP284-2E	32	95.4 / 108.5 (119.3) / (135.6)	86.7 / 98.6 (108.4) / (123.2)	43.4 / 49.3 (54.2) / (61.6)	34.7 / 39.5 (43.4) / (49.3)	12.6/10.5
HV2/EP296-2E	24	73.2 / 83.2 (91.5) / (104)	66.6 / 75.4 (83.3) / (94.3)	33.2 / 37.6 (41.5) / (47.0)	26.6 / 30.0 (33.3) / (37.8)	9.5/8
HV2/EP2108-2E	24	73.2 / 83.2 (91.5) / (104)	66.6 / 75.4 (83.3) / (94.3)	33.2 / 37.6 (41.5) / (47.0)	26.6 / 30.0 (33.3) / (37.8)	9.5/8
HV2/EP2108-3E	36	109.8 / 124.8 (137) / (156)	99.9 / 113 (125) / (141)	49.8 / 56.4 (62.3) / (70.5)	39.9 / 45.0 (49.9) / (56.3)	9.5/8
HV2/EP2120-2E	24	73.2 / 83.2 (91.5) / (104)	66.6 / 75.4 (83.3) / (94.3)	33.2 / 37.6 (41.5) / (47.0)	26.6 / 30.0 (33.3) / (37.8)	9.5/8
HV2/EP2120-3E	36	CONSULT FACTORY	CONSULT FACTORY	49.8 / 56.4 (62.3) / (70.5)	39.9 / 45.0 (49.9) / (56.3)	9.5/8
HV2/EP2144-3E	36	CONSULT FACTORY	CONSULT FACTORY	49.8 / 56.4 (62.3) / (70.5)	39.9 / 45.0 (49.9) / (56.3)	9.5/8

**For Other Wattages Available Consult Factory**

**HIGH VELOCITY2 (HV2) 1HP & EXTRA POWER2 (EP2) 3HP ELECTRIC HEATED MODELS**