

NOTES:

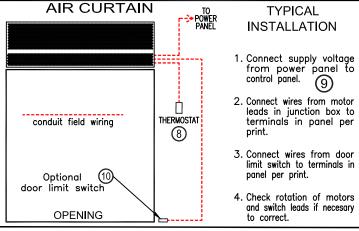
- 1 This product is designed to comply with the National Electric Code (NEC), ETL listed for US & Canada, and bear the CE mark.
- (2) 7/16" mounting holes, (4) provided, (2) on each end. for Wall Mount, (2) on each end for Top Mount.
- 3 All units have a self contained one piece cabinet, with fire retardant 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) Control panel to be internally mounted to the unit. Please specify for alternate exterior location.
- 6 Internal J-Box(es) for electrical wiring.
- 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" switch is shipped loose and field installed. Terminal block provided inside control panel.
- (9) Branch circuit protected as per NEC by others.
- (1) 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.

	1-4-1	_:						
'NOTE:	Intake screen	size	and	number	varies	with	unit length.	

	z a e designates and maniper of meters:								
		DEL IBER	MOUNTING CENTERS A	OVERALL LENGTH B					
HV2	42-1E		41 1/8"	42"					
HV2	48-1E	EP2 48-1E	47 1/8"	48"					
HV2	60-1E	EP2 60-1E	59 1/8"	60"					
HV2	72-2E	EP2 72-2E	71 1/8"	72"					
HV2	84-2E	EP2 84-2E	83 1/8"	84"					
HV2	96-2E	EP2 96-2E	95 1/8"	96"					
HV2	108-2E	EP2 108-2E		108"					
HV2	108-3E	EP2 108-3E		108"					
HV2	120-2E	EP2 120-2E		120"					
HV2	120-3E	EP2 120-3E	1	120"					
HV2	144-3E	EP2 144-3E	143 1/8"	144"					



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



AIR SYSTEMS

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

JOB:				ARCH	CONTE						SHE		DATE: _	
MARK HEATED MODEL NUMBER	WEATED	MOTOR FAN DATA												
	MODEL NUMBER	NO. REQ'D	LENGTH	WEIGHT (LBS)	MOTOR HP	MOTOR	VOLTS / PHASE ②	HEATER INPUT, kW	AMPS**	TEMP RISE °F	MAX FPM** @ NOZZLE		aba measarea	
	HV2 42-1E		3'6"	125	1	1750					4000	3500	70	
	HV2 48-1E		4'	145	1	1750					4000	4000	70	
	HV2 60-1E		5'	155	1	1750					3200	4000	70	
	HV2 72-2E		6'	315	Two 1	1750					5140	8000	73	
	HV2 84-2E		7'	335	Two 1	1750					4570	8000	73	
	IHV2 96-2E		8'	340	Two 1	1750					4000	8000	73	
	HV2 108-2E		9'	350	Two 1	1750					3600	8000	73	
	THV2 108-3E		9'	425	Three 1	1750					5500	12,000	75	
	HV2 120-2E		10'	365	Two 1	1750					3200	8000	73	
	HV2 120-3E		10'	440	Three 1	1750					4200	12,000	75	
	HV2 144-3E		12'	465	Three 1	1750					4000	12,000	75	
	EP2 48-1E		4'	145	3	3450					4800	4800	76	
	EP2 60-1E		5'	155	3	3450					3840	4800	76	
	IEP2 84-2E		7'	335	Two 3	3450					5485	9600	79	
	EP2 96-2E		8'	340	Two 3	3450					4800	9600	79	
	EP2 108-2E		9'	350	Two 3	3450					4200	9600	79	
	EP2 108-3E		9'	425	Three 3	3450					6222	14,000	81	
	IFP2 120-2F		10'	365	Two 3	3/150					3840	9600	70	

NOTES: (1) Refer to model chart.

EP2 120-3E

2' 465 Three 3 | 3450 |
(2) Refer to heater availability chart for parameter values.

Three

EQUIPMENT SPECIFICATIONS - Standard Features

GENERAL:Air curtain shall be a Mars[®]Air Doors brand air curtain: Type High Velocity or Extra Power Electric Heated. **APPROVALS:** Air curtain shall meet the requirements of the National Electric Code (N.E.C.) and shall be Canadian and U.S. Engineering Testing Laboratories (ETL) Certified and bear the CE mark.

CABINET

Cabinets 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 and double protected by gray baked rust preventative electrostatic polyurethane powder coating. Discharge air outlet nozzle shall be wedge shaped containing adjustable air directional vanes with a 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 nozzle 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"switch, shipped loose and field installed. Terminal block provided inside panel.

GUARANTEE

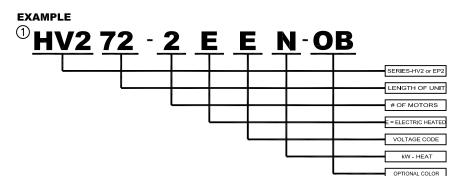
Shall be 18 months on all parts.

ACCESSORIES

Refer to the optinal feature and accessories page.

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

5760



14,000

14.000

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

KW	CODE
12	Н
24	N
36	s

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

MADE WITH PRIDE IN THE USA



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/EP2 48-1E	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/EP2 60-1E	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 72-2E	24	73.2 (89.6)	66.6 (83.3)	33.2 (41.5)	26.6 (33.3)	9.5/
HV2/EP2 84-2E	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/EP2 84-2E	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/EP2 96-2E	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/EP2 108-2E	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/EP2 108-3E	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/EP2 120-2E	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/EP2 120-3E	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/EP2 144-3E	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