

**NOTES:**

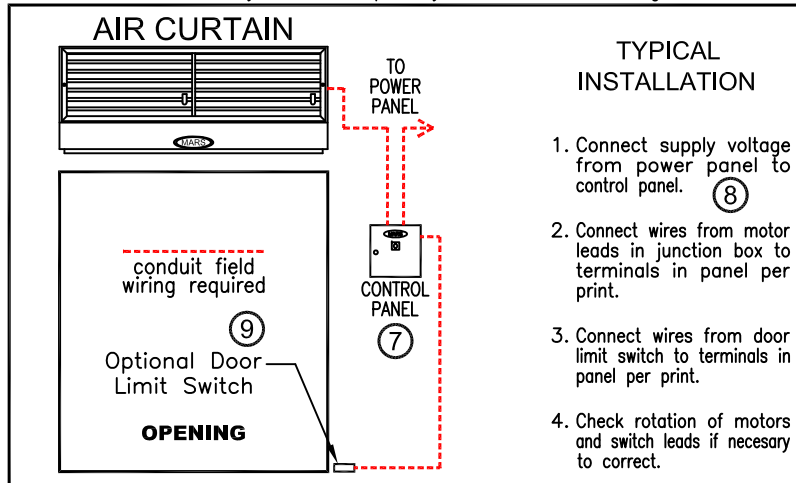
- ① This product is designed to comply with the National Electric Code (NEC), ETL listed for US & Canada, and bear the CE mark.
- ② 7/16" mounting holes (4) provided, (2) on each end.
- ③ All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal, double protected with baked on gray color, rust preventative electrostatic polyurethane powder coating.
- ④ Cabinet has sufficient strength for fastening to wall on both ends without intermediate support.
- ⑤ Internal J-Box(es) for electrical wiring. External J-Box(es) for Explosion Proof Motor(s) only. (NEMA7)(TEAO/TENV).
- ⑥ 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.
- ⑦ Optional motor control panel. Overloads are factory pre-set. 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.
- ⑧ Circuit protection as per NEC by others.
- ⑨ 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.



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

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

MODEL NUMBER	MOUNTING CENTERS A	OVERALL LENGTH B
HV42-1U	41 1/8"	42"
HV48-1U	47 1/8"	48"
HV60-1U	59 1/8"	60"
HV72-2U	71 1/8"	72"
HV84-2U	83 1/8"	84"
HV96-2U	95 1/8"	96"
HV96-3U	95 1/8"	96"
HV108-2U	107 1/8"	108"
HV108-3U	107 1/8"	108"
HV120-2U	119 1/8"	120"
HV120-3U	119 1/8"	120"
HV144-3U	143 1/8"	144"
HV144-4U	143 1/8"	144"



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

**HIGH VELOCITY (HV) 1 HP UNHEATED MODELS**

**JOB:** \_\_\_\_\_

**ARCHITECT/ENGINEER:** \_\_\_\_\_  
**CONTRACTOR:** \_\_\_\_\_

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

MARK	HIGH VELOCITY MODEL NUMBER	NO. REQ'D	LENGTH	NET WEIGHT (lbs)	MOTOR FAN DATA								dBA Measured 10 ft. from Nozzle	REMARKS	
					MOTOR HP	MOTOR RPM**	VOLTS & PHASE	FLA* SINGLE PHASE		FLA* THREE PHASE		MAX FPM** at Nozzle			MAX CFM** at Nozzle
								115V	208 / 230V	208 / 230V	460V				
	HV42-1U		3' 6"	125	1	1750		9.0	5.0/5.0	3.3/3.2	1.6	4570	4000	70	
	HV48-1U		4'	130	1	1750		9.0	5.0/5.0	3.3/3.2	1.6	4000	4000	70	
	HV60-1U		5'	140	1	1750		9.0	5.0/5.0	3.3/3.2	1.6	3200	4000	70	
	HV72-2U		6'	300	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	5140	8000	73	
	HV84-2U		7'	320	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	4570	8000	73	
	HV96-2U		8'	325	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	4000	8000	73	
	HV96-3U		8'	405	Three	1750		27.0	15.0/15.0	9.9/9.6	4.8	5000	10,000	75	
	HV108-2U		9'	335	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	3550	8000	73	
	HV108-3U		9'	410	Three	1750		27.0	15.0/15.0	9.9/9.6	4.8	5500	12,000	75	
	HV120-2U		10'	350	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	3200	8000	73	
	HV120-3U		10'	425	Three	1750		27.0	15.0/15.0	9.9/9.6	4.8	4800	12,000	75	
	HV144-3U		12'	450	Three	1750		27.0	15.0/15.0	9.9/9.6	4.8	4000	12,000	75	
	HV144-4U		12'	480	Four	1750		36.0	20.0/20.0	13.2/12.8	6.4	5140	16,000	75	

**EQUIPMENT SPECIFICATIONS - Standard Features**

**GENERAL**

Air curtain shall be a Mars Air Doors® brand air curtain: Type High Velocity Unheated.

**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 and double protected with gray baked rust preventative electrostatic polyurethane powder coating. Cabinet to have mechanically field adjustable variable intake louver assembly capable of reducing outlet air velocity up to 60% with louver in totally closed position. Discharge air outlet nozzle shall be wedge shaped containing adjustable air directional vanes with 40° sweep front to back. Motor/Fan assembly to be easily accessible for maintenance.

**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 double extended shaft and direct drive, double inlet, dynamically balanced forward curved squirrel cage blower wheels.

**ELECTRICAL WIRING**

All junction boxes are internally mounted: one motor-(1) 2"x 4"; two motors-(1) 4"x 4"; three or four motors-(2) 4"x 4". External Mounted J-Box(es) for Explosion Proof Motor(s) (1) J-Box for each Explosion Proof Motor.

**GUARANTEE**

Shall be five years on all parts.

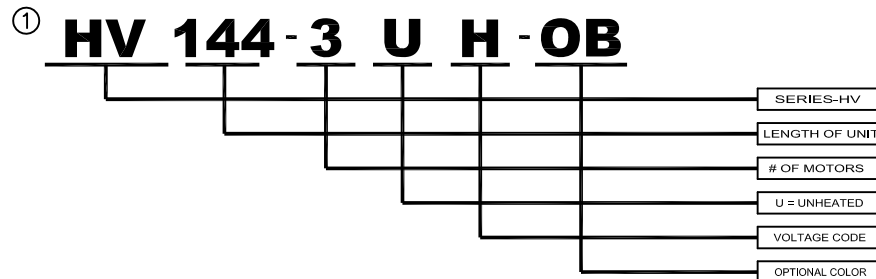
**ACCESSORIES**

Refer to optional features and accessories page.

\* - For Ampacity Multiply FLA X 1.25

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

**EXAMPLE**



SIZE	VOLTAGE	CODE
42"-144"	115/1/60	A
42"-144"	208-230/1/60	D
42"-144"	220/3/60	U
42"-144"	208-230/3/60	G
42"-144"	460/3/60	H
42"-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 U.S.A.**

**HIGH VELOCITY (HV) 1 HP UNHEATED MODELS**