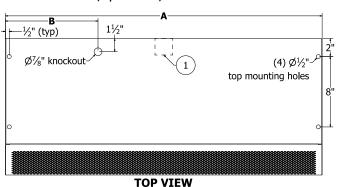
HV2 (High Velocity 2) Series

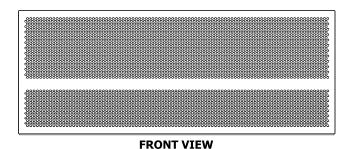
Unheated

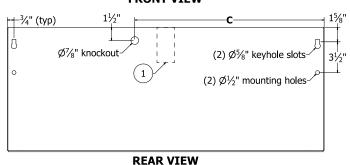
Model Lengths: 96"-144"

Environmental Separation (up to 14')

Insect Control (up to 12')



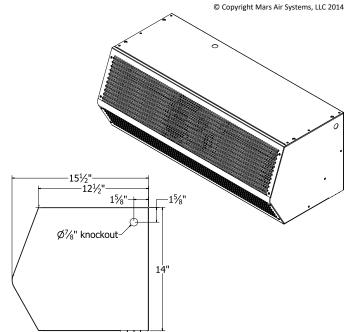






atmosphere is everything

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-3" nozzle depth

SIDE VIEW





Notes:

- 1. Internal junction boxes provided for electrical wiring: (1) 2"x4" box for one-motor units, (1) 4"x4" box for two-motor units, (2) 4"x4" box for three-motor units.
- 2. Recommended service clearances are 2" to the left and right sides, 6" on top, and 18" in front of the unit.
- 3. Circuit protection (per NEC) to be installed by others.
- 4. To prevent accidental damage during operation, unit must be installed so that the bottom of the air curtain does not extend below the door header.
- 5. Unit can be fastened to wall on both ends without intermediate support.
- 6. Motor-Fan Assemblies (MFAs) are shipped loose to minimize freight damage.

	Mechanical Data				AMCA Certified Lab Data						
Model Number	Overall Length	Nozzle Length	Top Knockout	Rear Knockout	Motor	Weight	Max Core Velocity	Avg Velocity	Volume	Uniformity	Power Rating
	A (in)	(in)	Location B (in)	Location C (in)	(hp)	(lb)	at Nozzle (in)	(fpm)	(cfm)	(%)	(watt)
☐ HV236-1U*-TS	36	36	10 ½	21 ½	1	115	6000	2745	2059	90	1245
☐ HV240-1U*-TS	40	40	12 ½	23 ½	1	120	6060	2677	2231	93	1205
☐ HV242-1U*-TS	42	42	13 ½	24 ½	1	120	6051	2654	2322	93	1305
☐ HV248-1U*-TS	48	48	16 ½	27 ½	1	125	6144	2447	2447	88	1360
☐ HV272-2U*-TS	72	72	31 ½	40 ½	(2) 1	220	6000	2745	4118	90	2490
☐ HV284-2U*-TS	84	84	37 ½	46 ½	(2) 1	235	6051	2654	4644	93	2610
☐ HV296-2U*-TS	96	96	43 ½	52 ½	(2) 1	250	6144	2447	4894	88	2720
☐ HV2108-3U*-TS	108	108	31 ½	40 ½	(3) 1	330	6000	2745	6177	90	3735
☐ HV2120-3U*-TS	120	120	35 ½	44 ½	(3) 1	345	6060	2678	6693	93	3615
☐ HV2144-3U*-TS	144	144	43 ½	52 ½	(3) 1	375	6144	2447	7341	88	4080
The following models are not licensed to bear the AMCA seal											
☐ HV260-1U*-TS	60	60	22 ½	33 ½	1	140	6100	2285	2856	80	1485
☐ HV2120-2U*-TS	120	120	55 ½	64 ½	(2) 1	275	6100	2285	5711	80	2971

^{* –} Use corresponding letters in "Electrical Data" column headers (see page 2) to complete the model numbers.

Note: above data is for 60 Hz at 1725 RPM. For 50 Hz, RPM is 1450 with a 17% reduction in performance.

The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity project, and power rating at free delivery only.

HV2 (High Velocity 2) Series

Unheated

Model Lengths: 96"-144"

Environmental Separation (up to 14')

Insect Control (up to 12')

atmosphere is everything

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4.8

Standard Features:			Unit Am	perage (Voltage C	ode)	
ETL-certified to conform to UL 507 (US) and CSA 22.2 (Canada) standards for	Electrical Data	Sing	le Phase	Three Phase		
indoor and outdoor use	Full Load Amp (FLA)	115V/1Ø	208-230V/1Ø	208-230V/3Ø	460V/3Ø	575V/3Ø
	(FLA)	□ (A)	□ (D)	□ (G)	☐ (H)	□ (I)
❖ AMCA-certified to AMCA 211	☐ HV236-1U*-TS	9.0	5.0	3.3/3.2	1.6	1.3
 Sleek self-contained one-piece heavy-gauge corrosion-proof paint lock metal 	☐ HV240-1U*-TS	9.0	5.0	3.3/3.2	1.6	1.3
design	☐ HV242-1U*-TS	9.0	5.0	3.3/3.2	1.6	1.3
❖ Fire retardant and rust preventative electrostatic polyurethane powder coating	☐ HV248-1U*-TS	9.0	5.0	3.3/3.2	1.6	1.3
	☐ HV260-2U*-TS	9.0	5.0	3.3/3.2	1.6	1.3
 Standard color is Titanium Silver (TS) 	☐ HV272-2U*-TS	18.0	10.0	6.6/6.4	3.2	2.6
1 HP continuous duty Totally Enclosed Air Over (TEAO) motors (NEMA 1)	☐ HV284-2U*-TS	18.0	10.0	6.6/6.4	3.2	2.6
❖ Adjustable air directional vanes with 40° sweep front to back	☐ HV296-2U*-TS	18.0	10.0	6.6/6.4	3.2	2.6
❖ 5-year parts warranty	☐ HV2108-3U*-TS	27.0	15.0	9.9/9.6	4.8	3.9
, ,	☐ HV2120-2U*-TS	18.0	10.0	6.6/6.4	3.2	2.6
 Freight included (FOB continental USA) 	☐ HV2120-3U*-TS	27.0	15.0	9,9/9,6	4.8	3.9

Use corresponding letters in "Voltage Code" column headers to complete the model numbers

15.0

27.0

Ampacity (MCA) = total FLA x 1.25

HV2144-3U*-TS

Alternate voltage codes with FLA data: ·277V/1Ø/60Hz (L) – 5.2A per motor

er motor

WD-STD2):

per motor r motor otor

Explosion proof motor FLA data (INS-XP-STD2): ·115V/1Ø/60Hz (A) – 12.8A per motor ·208-230V/1Ø/60Hz (D) - 6.4A per motor

9.9/9.6

·208-230V/3Ø/60Hz (G) - 3.5/3.2A per motor ·460V/3Ø/60Hz (H) - 1.6A per motor

99-014, Combination mechanical switch, 250V, 1HP Max	·277V/1Ø/60Hz (L) – 5.2A per moto
99-125, Industrial surface mounted magnetic switch (controller required)	·220V/1Ø/50Hz (U) – 7.1A per moto
❖ Controllers	·380-415V/3Ø/50Hz (W) – 1.8A per
MCPB-†U*, Motor Control Panel, 120V control voltage († = # of Motors, *	= Washdown motor FLA data (INS-W
Voltage Code) (§)	·115V/1Ø/60Hz (A) – 12A per moto
☐ MCP-TD, Adjustable time delay, 1sec-100hr (panel required)	·208-230V/1Ø/60Hz (D) – 6.4/6A pe ·208-230V/3Ø/60Hz (G) – 3.3A per
☐ MCP-24V, Low voltage control option (panel required)	·460V/3Ø/60Hz (H) – 1.5A per moto
☐ BMS-303, BMS for monitor and control (panel with MCP-24V required)	
Note: Dry contact provided in panel for monitoring motor. 24Vac signal	l provided from panel for controlling
❖ Brackets (§)	

na motor.

☐ B0004, Adjustable mounting bracket set, 3½" clearance

☐ B0008 to B0011, Extended wall mounting bracket set, 10", 16", 19", and 23" clearance respectively

Severe Duty and Finish

Proudly made in the USA

❖ Door Limit Switches (§)

☐ HSG-304SS-HV/EP, 304 Stainless steel housing construction

Mars Recommended Accessories (see catalog for complete listing):

 \square INS-WD-HV2, Washdown motor fan assembly, IP54

□ INS-XP-HV2, Explosion resistant motor fan assembly, Class 1, Division 1, Group D (TENV) Note: Washdown and explosion proof units draw higher motor amperage (see electrical data table). Control panels for these units require OL/MP with higher amperage range (use MCP-

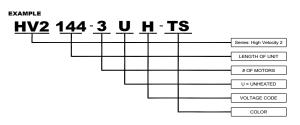
MWD or MCP-MXP accessory).

(§) = Shipped loose

Sound Levels (measured at 10' in a free field):

1 Motor Unit = 70 dBA, 2 Motor Unit = 73 dBA, 3 Motor Unit = 75 dBA

AMCA Certified Projection Velocity					
Model	Distance from Nozzle (in)	Average Core Velocity (fpm)			
	40	2002			
	80	1238			
HV236-1U*	120	1088			
	160	1039			
	200	967			







MARS Air Systems, LLC certifies that the Air Curtains shown on this data sheet are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified

Corlipy Will use requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only. NOTE: Models HV260-1 and HV2120-2 are not AMCA-certified.