

JOB:

ARCHITECT/ENGINEER:

DRWG.: _____

CONTRACTOR:

SHEET _____ of _____ DATE: _____

MARK	HIGH VELOCITY MODEL NUMBER	NO. REQ'D	LENGTH (in)	NET WEIGHT (lbs)	MOTOR FAN DATA							REMARKS	
					MOTOR HP	MOTOR RPM	VOLTS & PHASE	AMPS THREE PHASE		MAX FPM at Nozzle	MAX CFM at Nozzle		dBA Measured 10 ft. from Nozzle
								208V 230V	460V				
	48HV		4'	120	1	1750		4.4 (5.5)	2.0 (2.5)	4000	4000	70	
	60HV		5'	140	1	1750		4.4 (5.5)	2.0 (2.5)	3200	4000	70	
	72HV-2		6'	200	Two 1	1750		8.8 (11.0)	4.0 (5.0)	5140	8000	73	
	84HV-2		7'	210	Two 1	1750		8.8 (11.0)	4.0 (5.0)	4570	8000	73	
	96HV-2		8'	225	Two 1	1750		8.8 (11.0)	4.0 (5.0)	4000	8000	73	
	96HV-3		8'	235	Three 1	1750		13.2 (16.5)	6.0 (7.5)	4600	10,000	75	
	108HV-2		9'	245	Two 1	1750		8.8 (11.0)	4.0 (5.0)	3555	8,000	75	
	108HV-3		9'	275	Three 1	1750		13.2 (16.5)	6.0 (7.5)	4800	12,000	75	
	120HV-2		10'	240	Two 1	1750		8.8 (11.0)	4.0 (5.0)	3200	8000	73	
	120HV-3		10'	300	Three 1	1750		13.2 (16.5)	6.0 (7.5)	4800	12,000	75	
	144HV-3		12'	310	Three 1	1750		13.2 (16.5)	6.0 (7.5)	4000	12,000	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 be Underwriters Laboratories Listed, Canadian Standard Association Certified and meet the requirements of the National Electric Code.

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

Each motor to have a watertight junction box to be mounted on bottom center of each motor/fan assembly. Specify for alternate locations.

GUARANTEE

Shall be five years on all parts.

An equipment specification can be prepared by combining the standard features with the checked boxes below indicating the selection of the optional features.

OPTIONAL FEATURES

When checked below, the air curtain will be supplied with the following special features.

- Explosion proof motors
- Two speed motor (Available in single phase only)
- Door microswitch(s) (20 amp) for automatic on/off control. Turns air curtain on when door is opened and off when door is closed. Field installed.
 - Plunger type
 - Roller type

Note: Mars® recommends the use of a motor control panel on 3 phase motors whenever a door microswitch is used to start and stop the air curtain. One door microswitch can directly control one 1 HP, one or two 1/2 HP or one or two 1/3 HP single phase motor without the need for a motor control panel.

- Wall mounted control panel
- Factory mounted control panel on air curtain

Indicate the total number of motors to be powered through panel

- 1 2 3 4 5 6
- Plates for side extension of mounting points
 - 5 inch extension
 - 7 inch extension
 - 9 inch extension
- Adjustable mounting brackets to clear any wall obstruction of air flow
 - 2 ? inch clearance
 - 4 inch clearance
 - 7 inch clearance
 - 10 inch clearance
- Extended Wall Mounting Brackets for drum type roll-up doors
 - 10 inch clearance
 - 16 inch clearance
 - 19 inch clearance
 - 23 inch clearance
- All stainless steel housing
- Washable aluminum air filter
 - In lieu of adjustable inlet air louver
 - In conjunction with adjustable inlet air louver