

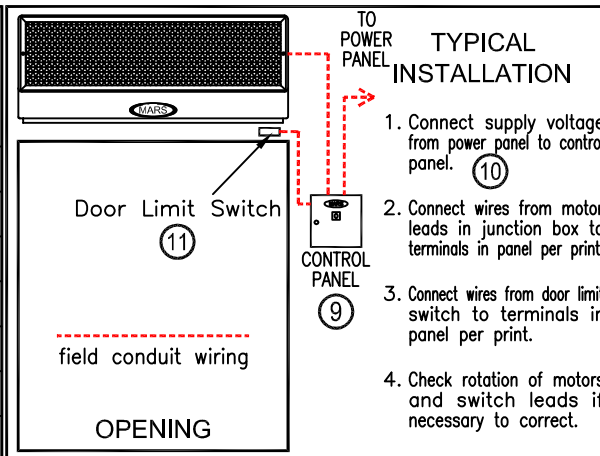
NOTES:

- ① This product is designed to comply with the National Electric Code (NEC), ETL listed for US & Canada, NSF Certified bear the CE Mark.
- ② 7/16" mounting holes. (3) provided on one motor models, (6) provided on two motor models.
- ③ Cabinets contain an internal steel bracket with sufficient strength to provide cabinet rigidity and fastening to wall.
- ④ Model number indicates length of unit in inches, which is denoted as "L". Actual length may vary up to 1 1/4" over model number.
- ⑤ All units have a self contained one piece molded white high density polyethylene cabinet. Cabinets feature a self-extinguishing characteristic and are resistant to high humidity, chemical and climate exposures.
- ⑥ Wall mounting hole location. Model number NHV42 and NHV48 is 3 3/4".
- ⑦ Internal J-Box(es) for electrical wiring.
- ⑧ Units is to be installed such that air flow is unobstructed. Air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
- ⑨ Optional motor control panel. Overloads are factory preset. Panels are to be shipped loose for remote mount.
- ⑩ Circuit protection as per N.E.C. by others.
- ⑪ Optional door limit switch is field installed and is to be wired to the control panel. Switch to be mounted such that air curtain turns on as door begins to open.



*NOTE: Model 72NCH use two aluminum mesh intake filters.

MODEL NUMBER ④	NUMBER OF MOTORS	HEIGHT A	DEPTH B	MOUNTING HOLE SPACING C
36NCH	1	14 3/4"	12 3/4"	—
38NCH	1	14 3/4"	12 3/4"	—
42NCH	1	14 3/4"	12 3/4"	—
48NCH	1	14 3/4"	12 3/4"	—
72-2NCH	2	14 3/4"	12 3/4"	12 3/4"
NHV42	1	18"	15"	—
NHV48	1	18"	15"	—



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

MARS®
AIR SYSTEMS

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JOB: _____

ARCHITECT/ENGINEER: _____

DRWG.: _____

CONTRACTOR: _____

SHEET _____

of _____

DATE: _____

MARK	NSF MODEL NUMBER	NO. REQ'D	LENGTH	MOTOR FAN DATA									REMARKS
				WEIGHT (LBS)	MOTOR HP @ 1750 RPM**	FLA* SINGLE PHASE		FLA* THREE PHASE		Max FPM** at Nozzle	Max CFM** at Nozzle	dBA Measured 10 ft. from Nozzle	
						115V	208/230V	208/230V	460V				
	36NCH		3'	50	1/2	5.1	2.5/2.5	1.8/1.6	0.8	3400	2550	63	
	38NCH		3' 2"	52	1/2	5.1	2.5/2.5	1.8/1.6	0.8	3225	2550	63	
	42NCH		3' 6"	55	1/2	5.1	2.5/2.5	1.8/1.6	0.8	2925	2550	63	
	48NCH		4'	60	1/2	5.1	2.5/2.5	1.8/1.6	0.8	2550	2550	63	
	72-2NCH		6'	105	Two 1/2	10.2	5.0/5.0	3.6/3.2	1.6	3400	5100	65	
	NHV42		3' 6"	80	1	9.0	5.0/5.0	3.3/3.2	1.6	4600	4000	69	
	NHV48		4'	85	1	9.0	5.0/5.0	3.3/3.2	1.6	4000	4000	69	

EQUIPMENT SPECIFICATIONS – Standard Features

GENERAL

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

APPROVALS

Air curtain shall meet the requirements of the National Electric Code. (N.E.C.), ETL Listed for US & Canada, NSF Certified and bear the CE mark.

CABINET

Cabinet shall be a self contained one piece molded white polyethylene material. Cabinets shall be resistant to high humidity and all chemical and climatic exposures. Cabinets to contain an internal steel bracket with sufficient strength to provide cabinet rigidity and fastening to the wall. Cabinet to have washable aluminum mesh air intake filter. Discharge 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.

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 plugs for fast 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.

ELECTRICAL WIRING

All junction boxes are mounted internally. One motor (1) 2x4", for two motors one 4x4" junction box.

GUARANTEE

Shall be five years on all parts.

* - For Ampacity Multiply FLA X 1.25

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

NOTE: NSF Certified models shall produce 600 FPM velocity measured 3' off the floor on all customer entrance doors (NCH suffix models) and 1600 FPM velocity measured 3' off the floor on all receiving doors (NHV prefix models).

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.

- Door limit switch(es)(20 Amps) for automatic on/off controls. (NEMA 1) Turn air curtain on when the door is opened and off when the door is closed. Field installed.
 - Combination Type Plunger Type Roller Type
 - Magnetic Reed Switches (Controller Required)
 - Flush Mounted Surface Mounted

- Controller for Magnetic Reed Switches (Maximum 1/2 HP total, single phase only) Control panel required for units above 1/2 HP and/or all 3 phase

NOTE: All 3 Phase Motors or Single Phase Motors with a combined total greater than 1 HP, 20 Amps and/or Voltages exceeding 250V, will require a motor control panel whenever a door limit switch is used to automatically start and stop the air curtain. A door limit switch may be used to directly control one or two 1/2 HP, single phase motors, without the use of a motor control panel.

- Wall Mounted Control Panel Factory Mounted Control Panel
 - 1 2 3 4 5 6
- Adjustable Time Delay (Control Panel Required)

MADE WITH PRIDE IN THE U.S.A.

COMMERCIAL NATIONAL SANITATION FOUNDATION (NSF) CERTIFIED MODELS