

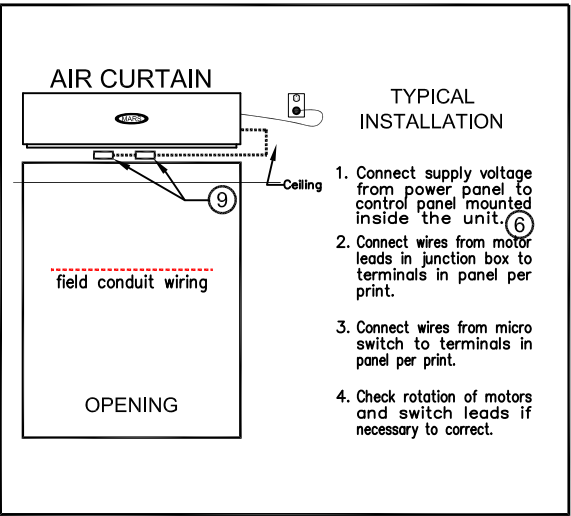
NOTES:

- ① This product is designed to meet the National Electric Code (NEC) and is ETL Listed for the US and Canada.
- ② (4) 1/2" threaded rod required for overhead installation.
- ③ All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal, double protected with baked on white color rust preventative electrostatic polyurethane powder coating.
- ④ Trim pieces included to match air curtains and ceilings.
- ⑤ Units greater than 72" are double units joined with a 2" mounting bracket located in the center, field installed. The speed controller will be located on the right hand unit and controls both units.
- ⑥ Circuit protection as per NEC by others.
- ⑦ Units to be installed such that air flow is unobstructed. Air Discharge nozzle containing adjustable air directional vanes with 40 deg sweep front and back.
- ⑧ Cleanable polyester filters included as standard. Optional aluminum or throwaway pleated filters available.
- ⑨ Normally closed door limit switch(es) is optional and field installed. Switch to be mounted so the air curtain turns on as the door begins to open.



Note: Drawing not to scale

MODEL NUMBER	NOZZLE WIDTH (A)	UNIT WIDTH (B)	MOUNTING WIDTH (C)	HEIGHT (D)
PH12 42-1U	42"	42 1/8"	41 1/8"	18 3/4"
PH12 48-1U	48"	48 1/8"	47 1/8"	18 3/4"
PH12 60-1U	60"	60 1/8"	59 1/8"	18 3/4"
PH12 72-2U	72"	72 1/8"	71 1/8"	18 3/4"
PH12 84-2U	86"	86 1/8"	85 1/8"	18 3/4"
PH12 96-2U	98"	98 1/8"	97 1/8"	18 3/4"
PH12 120-2U	122"	122 1/8"	121 1/8"	18 3/4"
PH12 144-3U	148"	148 1/8"	147 1/8"	18 3/4"
PH12 144-4U	150"	150 1/8"	149 1/8"	18 3/4"



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

MARS[®]
AIR SYSTEMS

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PHANTOM 12 (PH12) 1 HP COMMERCIAL UNHEATED MODELS

JOB: _____

ARCHITECT/ENGINEER: _____
CONTRACTOR: _____

DRWG.: _____
SHEET _____ **of** _____ **DATE:** _____

MOTOR FAN DATA

MARK	MODEL NUMBER	NO. REQ'D	LENGTH	NET WEIGHT (lbs)	MOTOR HP	MOTOR RPM**	VOLTS & PHASE	FLA*				MAX FPM** at Nozzle	MAX CFM** at Nozzle	dBA Measured 10 ft. from Nozzle	REMARKS
								SINGLE PHASE		THREE PHASE					
								115V	208 / 230V	208 / 230V	460V				
	PH12 42-1U		42"	125	1	1750		9.0	5.0/5.0	3.3/3.2	1.6	4570	4000	70	
	PH12 48-1U		48"	130	1	1750		9.0	5.0/5.0	3.3/3.2	1.6	4000	4000	70	
	PH12 60-1U		60"	140	1	1750		9.0	5.0/5.0	3.3/3.2	1.6	3200	4000	70	
	PH12 72-2U		72"	300	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	5140	8000	73	
	PH12 84-2U		84"	320	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	4570	8000	73	
	PH12 96-2U		96"	325	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	4000	8000	73	
	PH12 120-2U		120"	350	Two	1750		18.0	10.0/10.0	6.6/6.4	3.2	3200	8000	73	
	PH12 144-3U		144"	450	Three	1750		27.0	15.0/15.0	9.9/9.6	4.8	4000	12,000	75	
	PH12 144-4U		144"	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 Phantom 12 Unheated.

APPROVALS

Air curtain shall meet the requirements of the National Electric Code. (N.E.C.), ETL Listed for US & Canada,

CABINET

Cabinet shall be a self contained one piece housing with sufficient strength for fastening to the ceiling on both ends without intermediate support for models up to 72" in length. Cabinet constructed of fire retardant, corrosion proof paint lock metal and double protected with Pearl White color, baked rust preventative, electrostatic polyurethane powder coating. Discharge air outlet nozzle is internal wedge shaped containing adjustable air direction aluminum 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

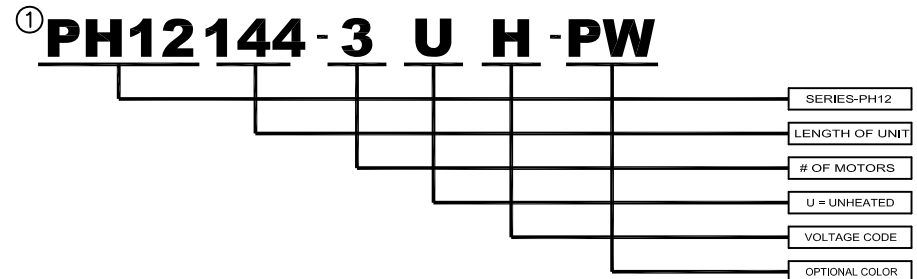
Refer to optional features and accessories page.

MADE WITH PRIDE IN THE U.S.A.

* - 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"	220/1/50	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