PH12 (Phantom 12) Series

Electric Heated

Model Lengths: 42"-144"

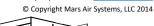
Environmental Separation (up to 16')

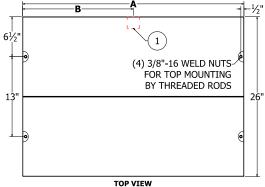
Insect Control (up to 14')

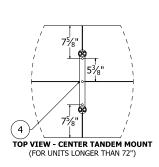


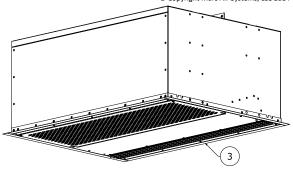
atmosphere is everything

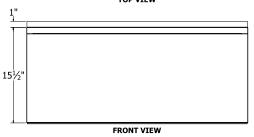
14716 S. BROADWAY, GARDENA, CA 90248 ● Ph: (310)532-1555 ● Fax: (310)-532-3030 ● <u>www.marsair.com</u>

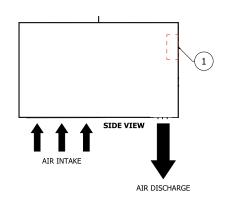


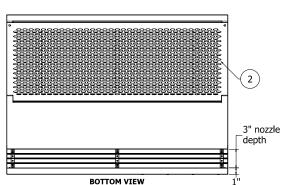
















- 1. Internal junction box (j-box) provided for electrical wiring.
- 2. Cleanable polyester filters are installed standard. Optional washable aluminum or pleated paper filters are also available.
- 3. (4) 1" wide matching trim pieces are included and shipped loose for optional installation.
- 4. Units up to 72" in width can be suspended from both ends without intermediate support. Longer units are double units and must be supported in the center.
- 5. Recommended service clearances are 2" to the left and right sides and 18" on top of the unit.
- 6. Circuit protection (per NEC) to be installed by others.
- 7. 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.

			Mechanical Data				AMCA Cei	tified Lab [Data	
Model Number	Overall Length	Nozzle Length	J-box Distance from Each Edge	Motor	Weight	Max Core Velocity	Avg Velocity	Volume	Uniformity	Power Rating
	A (in)	(in)	B (in)	(hp)	(lb)	at Nozzle (in)	(fpm)	(cfm)	(%)	(watt)
☐ PH1236-1E**-PW	36	36	18	1/2	90	5500	2789	2092	80	1090
☐ PH1242-1E**-PW	42	42	21	1/2	95	5250	2648	2317	89	1095
☐ PH1248-1E**-PW	48	48	24	1/2	100	5203	2373	2373	91	1190
☐ PH1272-2E**-PW	72	72	36	(2) ½	170	5500	2789	4184	80	2180
☐ PH1284-2E**-PW	84	84	(2) 21	(2) 1/2	190	5250	2648	4428	89	2217
☐ PH1296-2E**-PW	96	96	(2) 24	(2) 1/2	195	5203	2373	4746	91	2380
☐ PH12144-4E**-PW	144	144	(2) 36	(4) 1/2	340	5500	2789	8368	80	4360
The following models are not licensed to bear the AMCA seal										
☐ PH1260-1E**-PW	60	60	30	(1) ½	105	5100	2146	2682	75	1275
☐ PH12120-2E**-PW	120	120	(2) 30	(2) ½	210	5100	2146	5364	75	2550

^{* –} 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 1425 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.

PH12 (Phantom 12) Series

Electric Heated

Model Lengths: 42"-144"

Environmental Separation (up to 16')

Insect Control (up to 14')



atmosphere is everything

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Three Phase Electrical Data		Heater Kilowatts (Wattage Code)			Temp Rise			
Full Load Amp (FLA)	208V/3Ø □ (E)	230V/3Ø □ (F)	460V/3Ø □ (H)	575V/3Ø □ (I)	(H)	(N)	(T)	°F
☐ PH1236-1E**-PW	37	34	17	12	12	-	-	18
☐ PH1242-1E**-PW	37	34	17	12	12	-	-	16
☐ PH1248-1E**-PW	37	34	17	12	12	-	-	16
☐ PH1260-1E**-PW	37	34	17	12	12	-	-	14
☐ PH1272-2E**-PW	74	67	34	27	-	24	-	18
☐ PH1284-2E**-PW	74	67	34	27	-	24	-	16
☐ PH1296-2E**-PW	74	67	34	27	-	24	-	16
☐ PH12120-2E**-PW	74	67	34	27	-	24	-	14
☐ PH12144-4E**-PW	147	134	67	54	-	-	48	18

^{* -} Use corresponding letters in "Voltage Code" and "Wattage Code" column headers to complete the model numbers.

Ampacity (MCA) = total FLA x 1.25

Amps per motor for alternate voltages: 9A @ 115V; 5A @ 208-230V/1Ø; 3.3A @ 208V/3Ø; 3.2A @ 230/3Ø; 1.6A @ 460V/3Ø; 1.3A @ 575V/3Ø.

Standard Features:

Air curtain

- ETL-certified to conform to UL 2021 (US) and CSA 22.2 (Canada) standards for indoor use
- ❖ AMCA-certified to AMCA 211
- Sleek self-contained one-piece heavy-gauge corrosion-proof paint lock metal design
- Fire retardant and rust preventative electrostatic polyurethane powder coating
 - Standard color is Pearl White (PW)
- ❖ 1 HP continuous duty Totally Enclosed Air Over (TEAO) motors (NEMA 1)
- ❖ Adjustable air directional vanes with 40° sweep front to back
- 18-month parts warranty
- · Freight included (FOB continental USA)
- Proudly made in the USA

Electric heater coil and wiring

- Coils are open type (for rapid temperature rise) and are located directly in the air curtain's intake
- Manual reset thermal overload protection provided
- Control voltage is 24V
- Controls are internally mounted and prewired to receive power connection accessible through the bottom intake or top access panels
- 24-volt thermostat with "heat/off/fan" capability is shipped loose for field installation
 - Not applicable for units with SimpleLink

Mars Recommended Accessories (see catalog for complete listing):

Door Limit Switches (§)

99-018, Commercial surface mounted magnetic switch, 24V

Controllers

SK-EU, SimpleLink, 208-575V (460-575V, 3PH needs additional 115-230V, 1PH power), Integral	I Control NEMA

❖ Factory Mounted Control Options

☐ INS-TD, Adjustable time delay (1 sec to 17 min)

☐ INS-HD, Heat on demand

☐ INS-2S, Unit mounted 2 speed switch (460-575V, 3PH needs additional 115V-230V, 1PH power)

☐ BMS-300, BMS for monitor and control

Note: dry contact provided in panel for monitoring motor and heater. 24Vac signal provided from panel for controlling motor and heater

EXAMPLE

Disconnects (§)

☐ 99-122 & 99-123, Non-Fused Disconnect, remote mounted, 600V, 32A & 80A respectively, 3 Pole IP65

☐ 99-***-**, Fused Disconnect, remote mounted, 240V-600V, 30A-100A, 3 Pole, NEMA3R (see disconnect submittal for complete part numbers)

(§) = 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, 4 Motor Unit = 75 dBA

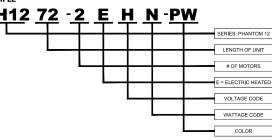
Single Phase Electrical Data	Unit Amperage (Voltage Code)		Hea (W	Temp Rise		
Full Load Amp (FLA)	208V/1Ø □ (B)	230V/1Ø □ (C)	(B)	(H)	(N)	°F
☐ PH1236-1E**-PW	34	32	6	-	-	9
☐ PH1242-1E**-PW	34	32	6	-	-	8
☐ PH1248-1E**-PW	34	32	6	-	-	8
☐ PH1260-1E**-PW	34	32	6	-	-	7
☐ PH1272-2E**-PW	68	63	-	12	-	9
☐ PH1284-2E**-PW	68	63	-	12	-	8
☐ PH1296-2E**-PW	68	63	-	12	-	8
☐ PH12120-2E**-PW	68	63	-	12	-	7
☐ PH12144-4E**-PW	136	125	-	-	24	9

^{* -} Use corresponding letters in "Voltage Code" and "Wattage Code" column headers to complete the model numbers.

Ampacity (MCA) = total FLA x 1.25

Amps per motor for alternate voltages: 5A @ 208-230V/1Ø

AMCA Certified Projection Velocity					
Model	Distance from Nozzle (in)	Average Core Velocity (fpm)			
	40	1494			
	80	1053			
PH1236-1E*	120	986			
	160	953			
	200	948			







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 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 PH1260-1 and PH12120-2 are not AMCA-certified.