

14716 S. Broadway Gardena, CA 90248 USA TEL:(310) 532-1555 (800) 421-1266 FAX:(310) 324-3030

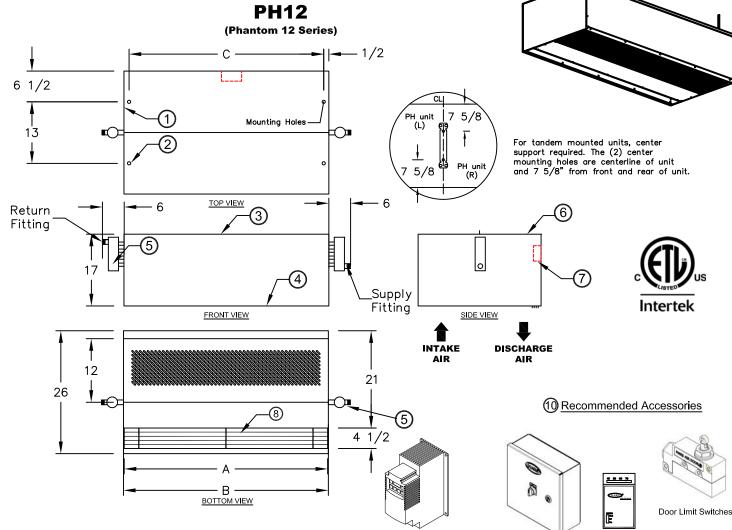
Web Site: www.marsair.com ⋅ E-mail:info@marsair.com MODEL NO. DRAWING NO

PH12 Series

OPTIONS/ITEMS **PROJECT** TITLE COMMENTS DATE PAGE 4/02/15 REV. NO CHECKED BY DRAWN BY FILE NAME

Hot Water/Steam Heated Drawing

PH12HWS-F



*- Use corresponding letters in "Coil Data" then "Electrical Data" columns to complete the model numbers.

MODEL NUMBER	NOZZLE WIDTH A (in)	AIR CURTAIN LENGTH B (in)	MOUNTING CENTER C (in)	CONN. DIA. (in)
PH1248-1**-PW	48	48 1/8	47 1/8	1 1/2 MPT
PH1260-1**-PW	60	60 1/8	59 1/8	1 1/2 MPT
PH1272-2**-PW	72	72 1/8	71 1/8	1 1/2 MPT
PH1284-2**-PW	84	84 1/4	83 1/4	1 1/2 MPT
PH1296-2**-PW	96	96 1/4	95 1/4	1 1/2 MPT
PH12120-2**-PW	120	120 1/4	119 1/4	1 1/2 MPT
PH12144-4**-PW	144	144 1/4	143 1/4	1 1/2 MPT

Notes:

Control Panels with Remote T'stat (9) Variable Frequency Drive

- This product is designed to meet the National Electric Code (NEC) and is ETL listed for the US and
- (4) 3/8" mounting holes for overhead mounting provided, (2) on each end. Units greater than 72" are multiple units joined with top mounting bracket that has (2) additional mounting holes.
- 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.
- Trim pieces included to match air curtains and ceilings.
- Hot Water application shown. For Steam, return fitting is at bottom of manifold and supply is at
- Cabinet is to be mounted from overhead and has sufficient strength for suspension from both ends without intermediate support. Units greater than 72" needs (2) additional threaded rods at
- J-Box(es) for electrical wiring are provided.
- Unit is to be installed such that air flow is unobstructed. Unit has a 4 1/2" air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
- Circuit protection as per NEC by others.
- Optional motor control panel, door limit switch and mounting brackets are field installed and/or wired by others. The door limit switch is to be mounted such that the air curtain turns on as door begins to open. To prevent unit damage, the mounting brackets must be installed such that the bottom of the air curtain is not below the door header.

PH12 (Phantom 12) Series

Hot Water/Steam Heated Model Lengths 48" - 144"



atmosphere is everything

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Hot Water/Steam Heated Data Sheet

Applications: Environmental Separation (up to 12')

Model Number	Nozzle Length (in)	Length (in)	Depth (in)	Height (in)	Motor (hp)	Weight (lbs)	Max Core Velocity at Nozzle (fpm)	Avg Velocity (fpm)	Volume (cfm)	Uniformity (%)	Power Rating (watts)
PH1248-1**-PW	48	60	26	17	1	125	6450	2534	2534	89	1345
PH1260-1**-PW	60	72	26	17	1	140	6866	2207	2759	86	1535
PH1272-2**-PW	72	84	26	17	Two 1	205	6050	3097	4646	93	2316
PH1284-2**-PW	84	96	26	17	Two 1	235	6300	2824	4942	90	2520
PH1296-2**-PW	96	108	26	17	Two 1	250	6300	2534	5068	89	2690
PH12120-2**-PW	120	132	26	17	Two 1	275	6866	2207	5518	86	3070
PH12144-4**-PW	144	156	26	17	Four 1	410	6050	3097	9292	93	4632
*- Use corresponding letters in "Coil Data" then "Electrical Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with a 17% reduction in									7% reduction in		

^{* -} Use corresponding letters in "Coil Data" then "Flectrical

Data" columns to complete the model numbers

Features:

Air Curtain

- 1 HP Continuous Duty TEAO Motors
- Recessed mounted in ceiling for invisible coverage
- ETL Certified to conform to UL 1995 (US) and CSA 22.2 (Canada) Standards
- (4) 3/8" top mounting holes provided
- Utilized in premium design concepts
- **Durable aluminum construction**
- Cabinet has sufficient strength for fastening to wall on both ends without intermediate support. (Tandem mounted units longer than 72" require center support)
- Cleanable polyester filters included as standard
- Adjustable air directional vanes with 40° sweep front to back
- Standard color is Pearl White
- Rust preventative electrostatic polyurethane powder coating
- 18 months parts warranty
- Freight Included (FOB Continental USA)
- Proudly Made in the USA

Hot Water and Steam Coils

- Coil casings shall not be less than 16 gauge galvanized steel with tube holes formed with extruded collars.
- Fins are die formed .006" aluminum (1 row 10 FPI, 2 row 8 FPI)
- Coils tubes constructed of heavy wall, 5/8" OD seamless copper (Steam - .035" & Hot Water - .025")
- Coil tubes arranged in a staggered pattern and mechanically expanded into fins to ensure a uniform pressure bond
- Manifolds shall be of heavy seamless copper construction
- All joints shall be brazed with high temperature silver brazing alloy (Steam 7% & Hot Water 3%), max steam operating pressure: 30 PSI
- Fittings shall be of wrought copper or similar construction such that the entire fluid circuit shall be of compatible nonferrous materials.
- Manifold shall be fitted with 1/4" vent or drain fittings
- Supply fitting is on the right side of coil. Return fitting is on the left side

Options and Accessories: (see Accessories Brochure)

- Motor Control Panels with remote mounted t'stat
- Steam distribution, Cupro Nickel and CRN coils
- Rust resistant epoxy coated or SS coils
- Custom housing colors and finishes (304SS, 316SS, Aluminum)

Sound Levels: (measured at 10' in an open field)

1 Motor Unit = 70 dBA, 2 Motor Unit = 73 dBA, 3 Motor Unit = 75 dBA, 4 Motor Unit = 77 dBA

е	e performance data.									
			Hot W	Steam						
	Coil Data	Coil Code (X)	GPM	MBH	Temp Rise (°F)	Coil Code (Y)	MBH	Temp Rise (°F)		
	PH1248-1**-PW	2 Row	7	95	35	1 Row	92	34		
	PH1260-1**-PW	2 Row	7	109	37	1 Row	108	36		
	PH1272-2**-PW	2 Row	12	164	33	1 Row	154	31		
	PH1284-2**-PW	2 Row	13	184	35	1 Row	172	32		
	PH1296-2**-PW	2 Row	15	205	38	1 Row	186	34		
	PH12120-2**-PW	2 Row	17	243	41	1 Row	217	36		
	PH12144-4**-PW	2 Row	19	328	33	1 Row	310	31		

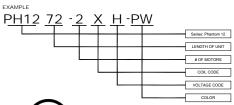
EAT: 70 F, EWT: 200 F, Steam pressure: 5 PSI

Electrical Data	Unit Voltage (Voltage Code)							
(FLA)	115v (A)	208/230v (D)	208/230v (G)	460v (H)	575v (I)			
PH1248-1**-PW	9.0	5.0	3.3/3.2	1.6	1.3			
PH1260-1**-PW	9.0	5.0	3.3/3.2	1.6	1.3			
PH1272-2**-PW	18.0	10.0	6.6/6.4	3.2	2.6			
PH1284-2**-PW	18.0	10.0	6.6/6.4	3.2	2.6			
PH1296-2**-PW	18.0	10.0	6.6/6.4	3.2	2.6			
PH12120-2**-PW	18.0	10.0	6.6/6.4	3.2	2.6			
PH12144-4**-PW	36.0	20.0	13.2/12.8	6.4	5.2			

^{* -} Use corresponding letters in "Electrical Data" columns to complete

the model numbers

Note: For Ampacity Multiply FLA X 1.25





NOTE: MARS AIR SYSTEMS, LLC reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment