

# PHD12 Pilot-House Defroster

## Individual Ducts for Each Pane of Glass



Marine Air's PHD12 pilot-house defroster is designed to remove any moisture or condensation that may form on the inside of a windshield. It can be mounted horizontally or vertically under the coaming area of the pilot house or overhead.

PHD12 units operate by using electric heat that takes cabin air and raises the temperature through the use of finned heating elements mounted in the defroster chamber.

In order to accommodate the wide range of styles and number of glass areas in yachts, the PHD12 incorporates individual ducts dedicated to each pane so that all surface areas are treated. Heated air is driven through the ducts via a high-velocity blower.

### Key Benefits

- Custom configuration for up to six duct ring outlets
- May be mounted horizontally or vertically
- Fan-with-heat or fan-only modes
- Lightweight marine-grade aluminum construction
- Tapered duct housing permits easy mounting and installation of ducting
- Slimline style fits easily in overhead applications or under pilot-house coaming area
- Two-part epoxy polyurethane paint resists chipping and corrosion
- Replaceable filter assembly
- Available with high-velocity blowers
- Meets or exceeds applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration (ARI) standards

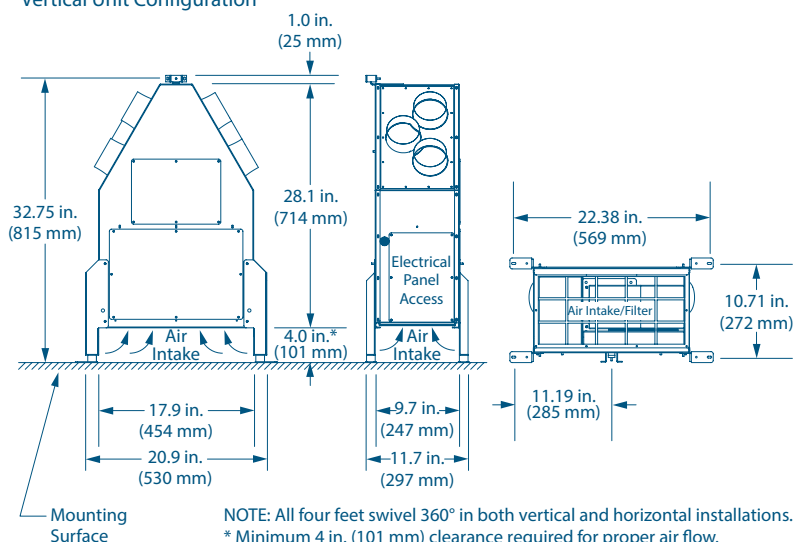
# PHD12 Pilot-House Defroster Specifications

Model	PHD12HV	PHD12HVZ
Air Flow (cfm/m3h)	325/552	325/552
Voltage @ 50/60Hz 1-Ph (V)	115	230
Full Load Amps (FLA) Heat (A)	14.2	7.1
Full Load Amps (FLA) Blower (A)	1.14	0.61
Electric Heat (kW)	1.5	
Heater Amps (A)	13.0	6.5
Max. Circuit Breaker (A)	15	10
Min. Circuit Ampacity (A)	15	8
External Static Pressure (inH2O/Pa)	0.2/49	
Supply Duct Size Diameter (in/mm)	Number and diameter of duct rings is based on customer's specifications	
Supply Air Grille Area (sq. in/sq. cm) <sup>(1)</sup>	88/568	
Return Air Grille Area (sq. in/sq. cm)	130/839	
Net Weight (lbs/kg)	30/13.6	30/13.6
Gross Weight (in/mm)	48.5/22	48.5/22

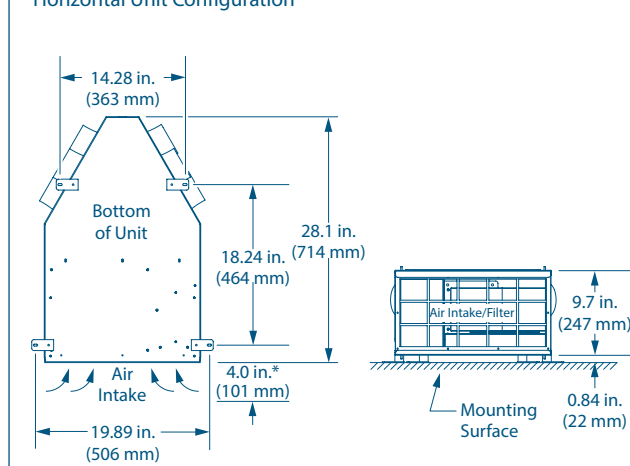
<sup>1</sup> Maximum recommended free area of supply air grille(s). Cross-sectional area of the supply air ducts must be at least 58 sq. in. (374 sq. cm). Larger ducts may be needed when the total duct length exceeds 20 ft. (6 m), has more than three 90° bends, or has a transition box.

## Dimensions

Vertical Unit Configuration



Horizontal Unit Configuration



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