

General Information

The PhD “S” models are an effective solution for efficient pool heating and dehumidification when first cost is an important consideration. Using proven “energy recovery” technology, the PhD will save on energy use and reduce energy costs as well.

The PhD pool heating/dehumidification system is a packaged unit with integrated functions to heat pool water and dehumidify the pool’s surrounding air. The PhD recovers the heat lost by pool evaporation and recycles that heat to heat the pool water. At the same time, the heated, moisture laden air is cooled and dehumidified and returned to the pool area to maintain a stable, comfortable indoor environment. This reduces the need for fresh air ventilation and helps control costs associated with conditioning the air introduced from the outside. When used with a Remote Air Cooled Condenser or Water Cooled Condenser, the unit can function as a regular air conditioner.

General Specifications

- Max. Water Heating Capacity:
 - W/80°F water 35,000 BTUH
 - W/104°F water 29,000 BTUH
- Air Reheating Capacity:
 - W/80°F water 26,600 BTUH
 - W/104°F water 21,000 BTUH
- Total Cooling Capacity: 28,000 BTUH
- Moisture Removal Capacity*: 10 lbs/hr
- Air Volume
 - @0.35 in. W.G. ESP 1200 CFM
- Pool Water Flow: 6.0 GPM
 - Pressure Drop 5.8 PSI
- Water Inlet Max. Temp. 104°F
- Water Inlet Min. Temp. 60°F
- Water Inlet Max. Pressure 85 PSI
- Air Return Min. Temp. 65 °F

Standard Features

- Painted Aluminum Cabinet
- Blygold Coated Air Coils for Corrosion Resistance
- Scroll Compressor
- Cupronickel Condenser Coil
- Coated Blower for Corrosion protection
- Stainless Steel Drain Pan
- Refrigerant: R-22

Options

- Remote Air Cooled Condenser Ready
- Water Cooled Condenser (Built-In)
- Supplemental External Static Pressure (ESP) - (over 0.35 in. W.G. ESP)

Optional Accessories

- Remote Air Cooled Condenser
- Thermostat and Humidistat

*at EAT (Entering Air Temperature) 82°F and 60 % RH

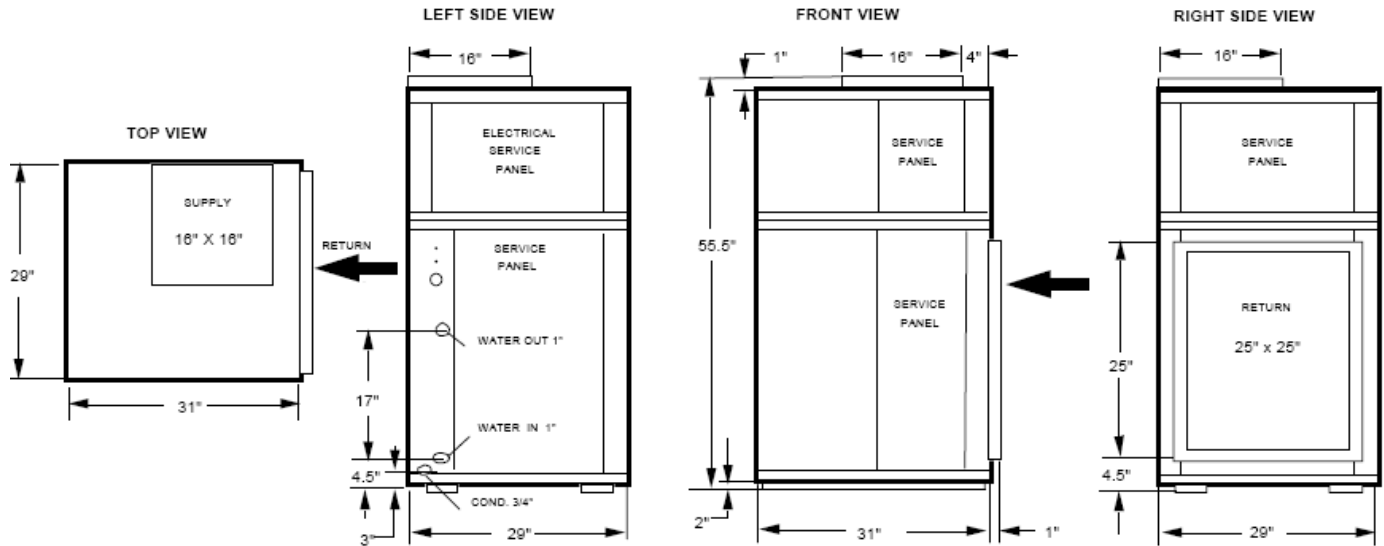
Electrical Characteristics

Model	Compressor					Blower					MCA	MFS
	Volts	Hz	Ph	RLA	LRA	Volts	Hz	Ph	HP	FLA		
PhD-30 SA	208/230	60	1	13.6	67	208/230	60	1	1/2	3.6	19	30

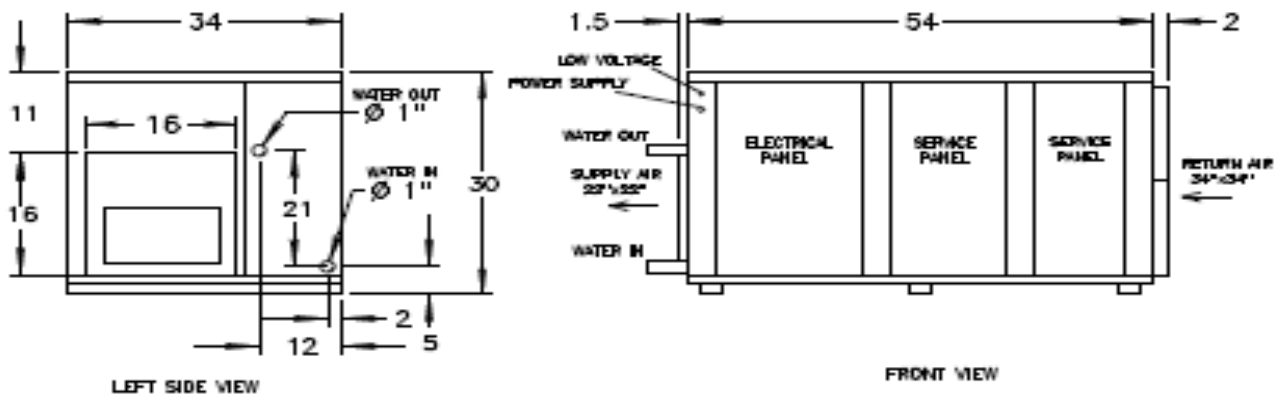
MCA = Minimum Circuit Ampacity MFS = Maximum Fuse

(Dimensional Data on Reverse)

PhD-30 S Dimensional Data - Vertical Configuration



PhD-30 S Dimensional Data - Horizontal Configuration



Ship Weight: 460 Lbs.

As part of the Applied Energy Systems, Inc. continuous improvement program, specifications subject to change without notice.