

FEATURES

- Pumps are centrifugal type, providing longevity, quiet operation and minimum maintenance.
- Three phase AC Motors are ignition protected. Single phase AC motors have built-in thermal overload protection. Single phase pumps P-700 and smaller are ignition protected.
- Pump wetted components are constructed of high quality, non-corrosive materials.
- Most pump heads are easily rotated, allowing proper application, maintenance and service.
- All threaded intake and discharge ports are U.S. standard taper pipe thread (NPT).
- Each pump is supplied with a vibration isolated mounting bracket, intake and discharge hose fittings and electrical connections.
- All units meet or exceed applicable ABYC and U.S. Coast Guard regulations, CE Directives and general Air Conditioning and Refrigeration industry (ARI) standards.



SPECIFICATIONS

Model ⁽¹⁾	Volts	Hz ⁽²⁾	Phase	IP ⁽³⁾	Amps	Pump Head Ft. H ₂ O ⁽⁵⁾	Gallons Per Minute	Capacity ⁽⁴⁾ BTU/Hr	Pump Connections Intake / Discharge	Overall Dimension H x W x L	Net Weight (lbs/kg)
PDA-250	115	50/60	1	Y	1.5	9	3	12,000	1/2" MPT / 1/4" MPT	3.75" x 3.75" x 4.75" 9.5cm x 9.5cm x 12.1cm	4.8/2.2
	230	50/60	1	Y	0.9						
PML-250	115	50/60	1	Y	1.1	9	3	12,000	3/4" FPT / 1/4" MPT	4.25" x 4.74" x 6.25" 10.8cm x 12.1cm x 15.9cm	4.5/2.0
	230	50/60	1	Y	0.7						
PDA-500	115	50/60	1	Y	2.5	10	6	24,000	3/4" MPT / 1/2" MPT	4.25" x 4.25" x 6.25" 10.8cm x 10.8cm x 15.9cm	8.8/4.0
	230	50/60	1	Y	1.3						
PML-500	115	60	1	Y	2.0	12	6	24,000	3/4" FPT / 1/2" MPT	4.75" x 5.75" x 7.5" 12.1cm x 14.6cm x 19.1cm	8.5/3.9
	230	60	1	Y	1.0						
	220	50	1	Y	0.8						
PMA-500	115	50/60	1	Y	2.4	9	7.5	30,000	3/4" FPT / 1/2" MPT	4.50" x 4.25" x 10.0" 11.4cm x 10.8cm x 25.4cm	8.2/3.7
	230	50/60	1	Y	1.2						
	220	50	1	Y	0.9						
PMA-1000	115	50/60	1	Y	2.1	13	12	48,000	1" FPT / 1/2" MPT	6.25" x 4.5" x 9.0" 15.9cm x 11.4cm x 22.9cm	8.3/3.7
	230	50/60	1	Y	1.0						
P-100	115	60	1	Y	7.2	13	15	60,480	1 1/4" FPT / 1" FPT	8.5" x 7.5" x 13.0" 21.6cm x 19.1cm x 33.0cm	24.5/11.1
	230	50/60	1	Y	3.6						
P-110	230	50/60	3	Y	2.8	17	18	72,000	1-1/4" FPT / 1" FPT	8.5" x 7.5" x 13.0" 21.6cm x 19.1cm x 33.0cm	24.5/11.1
	460	60	3	Y	1.4						
P-120	115	60	1	Y	4.9	18	21	84,000	1-1/4" FPT / 1" FPT	8.5" x 7.5" x 13.0" 21.6cm x 19.1cm x 33.0cm	24.5/11.1
	230	50/60	1	Y	3.5						
P-700	115	60	1	Y	7.2	27	32	129,600	1-1/4" FPT / 1" FPT	8.5" x 7.5" x 13.0" 20.8cm x 19.1cm x 34.3cm	26.0/11.8
	230	50/60	1	Y	3.6						
	230	50/60	3	Y	2.8						30.0/13.6
	460	50/60	3	Y	1.4						
P-710	115	50/60	1	N	9.8	23	40	172,800	1-1/2" FPT / 1-1/2" FPT	9.75" x 7.5" x 14.75" 24.8cm x 19.1cm x 37.5cm	34.0/15.4
	230	50/60	1	N	4.9						
	230	50/60	3	Y	2.2						
	460	60	3	Y	1.1						
P-711	115	50/60	1	N	16.0	42	54	216,000	1-1/2" FPT / 1-1/2" FPT	9.75" x 7.5" x 14.75" 24.8cm x 19.1cm x 37.5cm	37.4/16.9
	230	50/60	1	N	8.0						
	230	50/60	3	Y	4.2						
	460	60	3	Y	2.1						
P-800	12	DC	-	N	1	7	2	6,000	3/8" FPT / 3/8" OD	3.75" x 2.81" x 5.13" 9.5cm x 7.1cm x 13.0cm	1.2/0.5
				N							
P-800LL	12	DC	-	N	1.0	7	2	6,000	3/8" FPT / 1/2" HB	3.0" X 2.75" X 4.5" 7.6cm X 7.0cm x 11.4cm	1.0/0.5
	24	DC	-	N	0.5						
P-900	12	DC	-	N	3.8	9	3	12,000	1/2" FPT / 1/2" MPT	4.5" x 3.5" x 9.0" 11.4cm x 8.9cm x 22.9cm	4.5/2.0
	24	DC	-	N	1.9						
P-1010	12	DC	-	N	6.9	9	3	12,000	3/4" FPT / 1/2" FPT	3.5" x 4.1" x 8.5" 8.9cm x 10.4cm x 21.6cm	5.6/2.5
	24	DC	-	N	3.5						
	32	DC	-	N	2.6						

NOTE: Contact Taylor Made Environmental-FL for pumps larger than P711.

⁽¹⁾ Add a 'C' to the model number to indicate 230 volts on models 250, 500, and 1000 or add a 'Z' to indicate 230 volts on all other models.

⁽²⁾ Capacities given are rated at 60Hz operation (except for 50Hz only motors). 50Hz operation reduces 60Hz Gallons Per Minute (GPM) by 17% . And the head is decreased by 30%

⁽³⁾ Ignition Protected.

⁽⁴⁾ Capacities given are determined using an average of 3 GPM per ton (12,000 BTUs) at given GPM and head. If the capacity of your air conditioning system is greater than 24,000 BTU/hr, the seawater pump is most likely air cooled and will need occasional oiling. See manufacturer's labeling on the pump for maintenance instructions.

⁽⁵⁾ Head calculations required for system is dependent on number and size of units(s), length of hose, use of 90° elbows, and the height of the units above the pump. Please refer to MAS pump sizing application guide or consult your MAS application engineer.

Installation Guidelines for Seawater Pumps

When choosing the proper model **Seawater Pump**, primary consideration should be given to the BTU capacity of the condensing unit(s) and the available power supply.

All centrifugal pumps must be located as far below the water line, and as close to the center line as possible. This prevents exposure above the water line when the vessel is on the plane or operating in heavy seas. Install the pump as close as possible to the seawater strainer and thru-hull fitting. Mount the pump securely in a horizontal position with the discharge higher than the intake. Rotate pump head towards the direction of water flow as long as the outlet remains above the inlet. All of the above helps to prevent any air locks that can cause the pump to cease proper operation and cause damage to the components.

The entire seawater system should be plumbed on a continuous uphill incline from the thru-hull intake to the condenser coil inlet.

Locate the overboard discharge above the water line and connect it to the condenser coil outlet. The unit condenser coil should be the high point of the application, if possible, thus eliminating a place to trap air and maintaining a self-purging system.

The thru-hull fitting should have a clam shell type scoop, facing forward, to help maintain a constant water flow to the pump. The thru-hull fitting and seawater strainer must be equal in size to the intake opening of the pump. Restriction of flow capacity to the pump intake can result

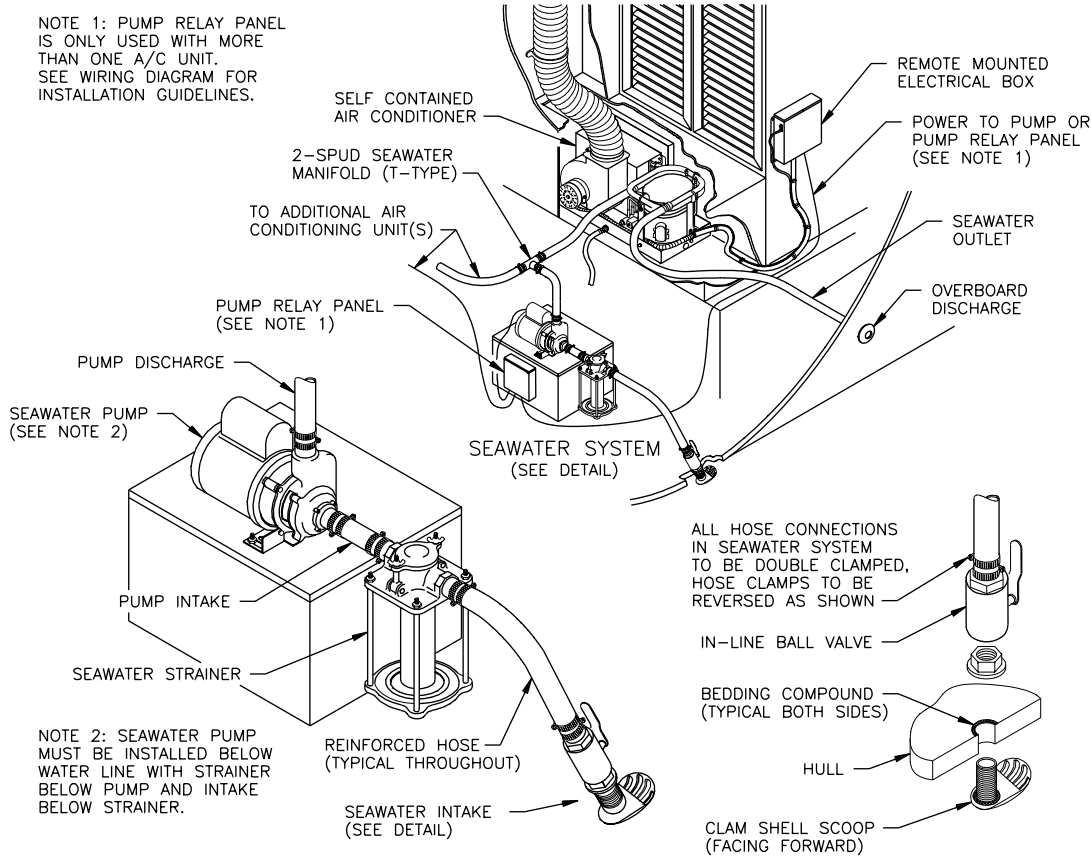
in damage to the pump components.

The thru-hull fitting should be dedicated to the system and not shared with other components or systems. The seawater strainer should be of adequate size and should be located in an accessible area for maintenance (cleaning).

A shut-off valve (ball-type is recommended) must be installed at the thru-hull fitting to provide a means to service any component below the water line.

All seawater components should be assembled using properly sized flexible reinforced hose to provide vibration isolation. All fittings must be full-flow fittings. Securely fasten each hose run, making sure no kinks or loops exist. Avoid or minimize 90° elbow fittings to ensure maximum water flow. All hose connections must be double-clamped, reversing the clamps, above the water line as well as below it.

When installing multiple units, a single pump is recommended. Size the pump to the equivalent foot of head and the total BTU load of all units combined. The discharge of the pump is to be connected to a spud manifold for proper distribution of water flow to each individual unit. This manifold should be at least 18"-24" above the pump outlet. For independent control of the seawater pump from each unit, use a pump relay panel.



In the interest of product improvement, Taylor Made Environmental's specifications and design as outlined herein are subject to change without prior notice.



Taylor Made
ENVIRONMENTAL™

Sold and Serviced By:

Taylor Made Environmental, Inc.

P.O. Box 15299 • Richmond, VA USA 23227-0699 • 804-746-7248 • Fax: 804-746-7248 • sales@tmenviro-va.com • www.cruisair.com
2000 N. Andrews Ave. Ext. • Pompano Beach, FL USA 33069-1497 • 954-973-2477 • Fax: 954-979-4414 • sales@tmenviro-fl.com • www.marineair.com
Fleets Industrial Estate • 26 Willis Way • Poole, Dorset • England BH15 3SCU • 44 (0) 870 3306101 • Fax: 44 (0) 870 3306102 • sales@tmenviro-eu.com

©Taylor Made is a registered trademark of Nelson A. Taylor Co., Inc.; The Marine Air Systems logo and Charge Guard are registered trademarks and the Taylor Made Environmental logo is a trademark of Taylor Made Environmental, Inc.

Taylor Made Environmental, Inc. 8/01

A Member of
THE TAYLOR MADE
GROUP.