

Seawater Pumps

Reliable & Heavy-duty Centrifugal Pumps



Photo courtesy of Cruisers Yachts



P711 and PML500CL shown

Marine Air specifies reliable, heavy-duty centrifugal pumps to provide a steady flow of cooling water through the air conditioning system.

The glass-reinforced polypropylene head pumps have magnetic drive impellers, and are available with submersible or air-cooled motors. Larger pumps have bronze heads with mechanical seals, and air-cooled, drip-proof motors. A wide range of pumps and motors are available for use in different power environments.

Centrifugal pumps must be mounted below the water line. Self-priming pumps are also available for above-water-line applications. A scoop type through-hull and a seawater strainer are recommended for proper operation.

When more than one air conditioning unit is served by a single pump, a separate pump relay is used. To complete the installation, Marine Air can also supply water manifolds, hose, and fittings.

Key Benefits

- High-capacity centrifugal pumps..
- Quiet operation.
- Minimum maintenance.
- Single-phase motors have built-in thermal overload and ignition protection.
- Three-phase, ignition-protected motors.
- Seawater grade construction, with glass filled polypropylene or bronze pump heads.
- Submersible or air-cooled motors.
- Vibration isolation mounts standard.
- High-head pressure models available.
- Self-priming pumps available.
- All units meet or exceed applicable ABYC and U.S. Coast Guard regulations, CE Directives and general Air Conditioning and Refrigeration (ARI) standards.

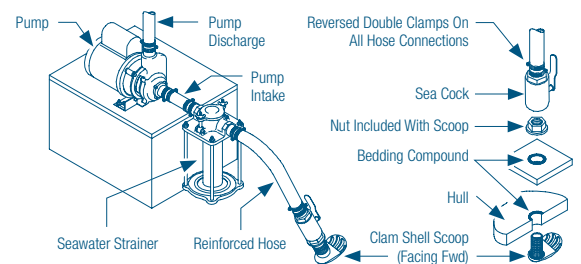
Technical Specifications for Seawater Pumps

Model	Volts/Hz/Phase	Amps	IP ⁽²⁾	HP	GPM ⁽³⁾ @ Feet of Head ⁽⁴⁾	Capacity BTU/hr ⁽⁵⁾	Inlet X Outlet	Height (in/mm)	Width (in/mm)	Length (in/mm)	Net Weight (lb/kg)
P800 12VDC	12 VDC	1.0	N	1/150	2 @ 7'	6,000	3/8" FPT X 3/8" OD	3.75/95	2.81/71	5.13/130	1.2/0.5
PMLL150-12V DC	12 VDC	1.0	N	1/150	2 @ 7'	6,000	3/8" FPT X 3/2" HB	3.0/76	2.75/70	4.5/114	1.0/0.5
PMLL150-24V DC	24 VDC	0.5	N	1/150	2 @ 7'	6,000	3/8" FPT X 3/2" HB	3.0/76	2.75/70	4.5/114	1.0/0.5
PML250	115/60/1	1.0	Y	1/35	3 @ 7'	12,000	3/4" MPT X 1/4" MPT	4.70/119	5.60/142	6.20/157	5.0/2.3
PML250C	230/50-60/1	0.5	Y	1/35	3 @ 7'	12,000	3/4" MPT X 1/4" MPT	4.70/119	5.60/142	6.20/157	5.0/2.3
P900-12V DC	12 VDC	3.8	N	1/25	3 @ 6.5'	12,000	1/2" FPT X 1/2" HB	4.5/114	3.5/89	9.0/229	4.5/2.0
P900-24V DC	24 VDC	1.9	N	1/25	3 @ 6.5'	12,000	1/2" FPT X 1/2" HB	4.5/114	3.5/89	9.0/229	4.5/2.0
PML500L	115/60/1	2.0	Y	1/20	6 @ 14'	24,000	3/4" FPT X 1/2" MPT	5.60/142	5.60/142	7.40/188	9.0/4.1
PML500CL	230/50-60/1	1.0	Y	1/20	6 @ 14'	24,000	3/4" FPT X 1/2" MPT	5.60/142	5.60/142	7.40/188	9.0/4.1
PML500CK	220/50/1	0.8	Y	1/20	6 @ 9.5'	20,000	3/4" FPT X 1/2" MPT	5.60/142	5.60/142	7.40/188	9.0/4.1
PMA500	115/60/1	2.4	Y	1/12	7.5 @ 14'	30,000	3/4" FPT X 1/2" MPT	5.0/127	4.0/102	9.0/229	7.0/3.2
PMA500C	230/50-60/1	1.2	Y	1/12	7.5 @ 14'	30,000	3/4" FPT X 1/2" MPT	5.0/127	4.0/102	9.0/229	7.0/3.2
PMA500CK	220/50/1	0.9	Y	1/12	5 @ 11'	20,000	3/4" FPT X 1/2" MPT	5.0/127	4.0/102	9.0/229	7.0/3.2
PMA1000	115/60/1	2.1	Y	1/8	12 @ 14'	48,000	1" FPT X 1/2" MPT	6.25/159	4.50/114	9.10/231	10/4.5
PMA1000C	230/50-60/1	1.0	Y	1/8	12 @ 14'	48,000	1" FPT X 1/2" MPT	6.25/159	4.50/114	9.10/231	10/4.5
P100	115/60/1	7.2	Y	1/3	15 @ 16'	60,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	25/11
P100Z	230/50-60/1	3.6	Y	1/3	15 @ 16'	60,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	25/11
P120	115/60/1	4.9	Y	1/3	21 @ 25'	84,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	25/11
P120Z	230/50-60/1	3.5	Y	1/3	21 @ 25'	84,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	25/11
P700	115/60/1	7.2	Y	1/3	32 @ 21'	128,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	26/12
P700Z	230/50-60/1	3.6	Y	1/3	32 @ 21'	128,000	1.25" FPT X 1" FPT	8.50/216	8.50/216	13.9/353	26/12
P110Z-3PH	230/50-60/3	2.8	Y	1/2	18 @ 20'	72,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	25/11
P110-460/3PH	460/60/3	1.4	Y	1/2	18 @ 20'	72,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	25/11
P110-380/3PH	380/50/3	1.7	Y	1/2	15 @ 15'	60,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	25/11
P700Z-3PH	230/50-60/3	2.8	Y	1/2	32 @ 32'	128,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	30/14
P700-460/3PH	460/50-60/3	1.4	Y	1/2	32 @ 32'	128,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	30/14
P700Z50-3PH	220/50/3	2.9	Y	1/2	32 @ 21'	128,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	30/14
P700-380/3PH	380/50/3	1.7	Y	1/2	32 @ 21'	128,000	1.25" FPT X 1" FPT	8.0/203	7.50/191	15.40/391	30/14
P710	115/50-60/1	9.8	N	1/2	43 @ 32'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P710Z	230/50-60/1	4.9	N	1/2	43 @ 32'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P710Z-3PH	230/60/3	2.2	Y	1/2	43 @ 32'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P710-460/3PH	460/60/3	1.1	Y	1/2	43 @ 32'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P710Z50	220/50/1	7.2	N	3/4	43 @ 30'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P710Z50-3PH	380/50/3	3.3	Y	3/4	43 @ 30'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P710-380/3PH	380/50/3	1.9	Y	3/4	43 @ 30'	172,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	34/15
P711	115/50-60/1	16.0	N	1	54 @ 42'	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711Z	230/50-60/1	8.0	N	1	54 @ 42'	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711Z-3PH	230/60/3	4.2	Y	1	54 @ 42'	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711-460/3PH	460/60/3	2.1	Y	1	54 @ 42'	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711Z50-3PH	220/50/3	4.4	Y	1	54 @ 44'	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711-380/3PH	380/50/3	2.5	Y	1	54 @ 44'	216,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	37/17
P711Z 1.5HP	230/60/1	10.0	N	1.5	60 @ 45'	240,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	49/22
P711Z50 1.5HP	220/50/1	10.5	N	1.5	60 @ 45'	240,000	1.50" FPT X 1.50" FPT	9.40/239	7.50/191	15.40/391	49/22

Notes:

- ⁽¹⁾ Electrical and mechanical specifications for 50-60Hz pumps are rated at 60Hz. Operating a 50-60Hz pump at 50Hz will reduce the pump head by 30% and the GPM by 17%. Do not operate 60Hz only pumps at 50Hz.
- ⁽²⁾ Ignition protected.
- ⁽³⁾ GPM flow is rated at indicated pump head.
- ⁽⁴⁾ Head calculation required for system is dependent on number and size of unit(s), length of hose, use of 90° elbows and the height of the unit(s) above the pump. Please refer to the Marine Air Systems' pump sizing guide or consult the Applications department.
- ⁽⁵⁾ Capacities given are determined using an average of 3 GPM per ton (12,000 BTU/Hr) at given GPM and head, and are rated for direct expansion (DX) AC systems only.

Contact the applications department for pumps larger than P711.



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