

# Marine Centrifugal Seawater Pumps

## Ultra-Durable Centrifugal Seawater Pumps



Clockwise from left: Air-cooled AC-5CP-MD and liquid-cooled LC-5CP-MD, LC-3CP-MD, and LC-2CP-MD

Dometic's marine centrifugal seawater pumps are an excellent choice for providing seawater circulation for marine air conditioning systems. The proven magnetic drive eliminates the troublesome mechanical shaft seal.

There is no seal wear, power-robbing friction, or leakage through the seal. The impeller and drive magnets are strong, permanent ceramic types, which prevent slippage, ensuring that full motor power is converted into pumping power.

Centrifugal pumps require a flooded inlet and should be mounted below the waterline. "LC" models have liquid-cooled motors and can be run in open air or submerged. "AC" models have air-cooled, open drip-proof motors and must be in a dry environment.

Replacement parts are available through Dometic.



Liquid-cooled models (clockwise from top): LC-5CP-MD, LC-3CP-MD, and LC-2CP-MD



Air-cooled model AC-5CP-MD

### Key Benefits

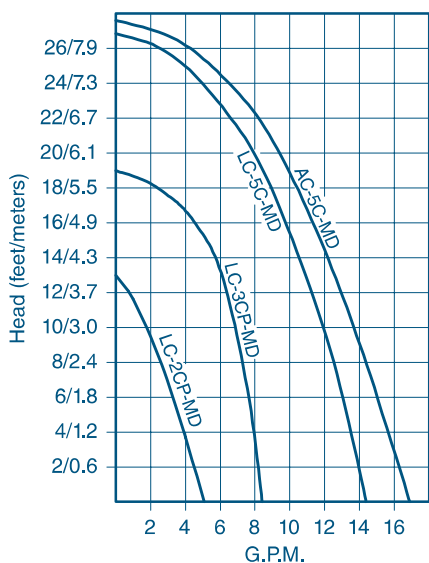
- Magnetic-drive impeller means no seal to wear, leak, or repair
- Efficient motor with low power consumption
- Exclusive marine-grade base
- 115V and 230V models
- Liquid-cooled (submersible) and air-cooled motors available
- All components in contact with water are plastic, ceramic, or stainless steel
- 6 ft. (1.8 m) power cord is standard
- 1-year warranty on parts

### Specifications for Marine Centrifugal Seawater Pumps

Model	LC-2CP-MD		LC-3CP-MD			LC-5CP-MD		AC-5C-MD	
Voltage (V)	115	230	115	230	220	115	230	115	230
Cycle <sup>(1)</sup>	50 Hz/60 Hz		50 Hz/60 Hz			50 Hz		50 Hz/60 Hz	
Phase (Ph)	1		1			1		1	
Amps (A)	1	0.53	2	1	0.8	2.2	1.1	2.1	1
Max. Flow (gpm)	5		8.5			14.5		17	
Max. Head (ft/m)	13/3.1		19/5.8			27/8.3		27/8.3	
Ignition Protection	yes		yes			yes		no	
Motor HP (hp)	1/35		1/20			1/8		1/8	
Motor Type <sup>(1)</sup>	TE/SUB		TE/SUB			TE/SUB		OD	
Inlet Connection (in)	3/4		3/4			1		1	
Outlet Connection (in)	1/4		1/2			1/2		1/2	
Net Weight (lbs/kg)	5/2.3		9/4.1			7.35/3.4		15.5/7.1	
Wet End Assembly	A-507P		A-508P			A-506LC		A-506	

<sup>1</sup> TE/SUB motors are totally enclosed liquid-cooled types and can be operated in the open air or submerged; OD motors are open, drip-proof and air-cooled types which must be kept dry.

### Performance Curve



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L-2263 Rev. 20141219 Specifications and availability subject to change without notice.



# Heavy-Duty Seawater Pumps

## Centrifugal Pumps for Submersible Or Self-Priming Applications



Left to right: PH3000BX-SP and CPOD120BX pumps shown

Cruisair 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, Cruisair can also supply water manifolds, hose, and fittings.

### Key Benefits

- High-capacity centrifugal pumps
- 250 to 10,800 GPH capacities
- 115V and 230V/60Hz, 240V/50Hz, and 220/440V 3-phase models
- Seawater-grade construction with glass-filled polypropylene or bronze pump heads
- Water-cooled (submersible) or air-cooled motors
- High-head pressure models available
- Self-priming pumps available
- Meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration (ARI) standards

### Specifications for Heavy-Duty Seawater Pumps

Model <sup>(1)</sup>	Voltage (V)	Cycle <sup>(2)</sup>	Phase (Ph)	Amps (A)	Water Flow (gpm/ lpm)	Feet of Head (ft/m)	Inlet Connection (in)	Outlet Connection (in)	Height (in/mm)	Width (in/mm)	Depth (in/mm)
PML250	115	60 Hz	1	1	3/11.4	7/2.2	3/4	1/4	4.7/120	5.6/143	6.2/158
PML250C	230	50 Hz/60 Hz	1	0.5	3/11.4	7/2.2	3/4	1/4	4.7/120	5.6/143	6.2/158
PML500	115	60 Hz	1	2.5	6/22.8	14/4.3	3/4	1/2	5.6/143	5.6/143	7.4/188
PML500C	230	50 Hz/60 Hz	1	1	6/22.8	14/4.3	3/4	1/2	5.6/143	5.6/143	7.4/188
PML500CK	230	50 Hz	1	1	6/22.8	9.5/2.9	3/4	1/2	5.6/143	5.6/143	7.4/188
PMA500	115	60 Hz	1	2.1	7.5/28.4	14/4.3	3/4	3/8	5/127	4/102	9/229
PMA500C	230	50 Hz/60 Hz	1	1	7.5/28.4	14/4.3	3/4	3/8	5/127	4/102	9/229
PMA500CK	230	50 Hz	1	0.9	5/18.1	11/3.4	3/8	3/8	5/127	4/102	9/229
PMA1000	115	60 Hz	1	2.2	12/45.5	14/4.3	3/4	3/8	6.25/159	4.5/115	9.1/232
PMA1000C	230	50 Hz/60 Hz	1	1.2	12/45.5	14/4.3	3/4	3/8	6.5/159	4.5/115	9.1/232
P1200BXT	115	50 Hz/60 Hz	1	10.4	20/75.8	5/1.6	1	1	6.6/168	6.5/166	13.6/346
P1200BXT-SP	115	50 Hz/60 Hz	1	10.4	20/75.8	5/1.6	1	1	6.6/168	6.5/166	13.6/346
P1500BXT	115	50 Hz/60 Hz	1	10.4	22/83.3	5/1.6	3/4	3/4	6.6/168	6.5/166	13.6/346
PS1500BX	115	50 Hz/60 Hz	1	7	25/94.7	7/2.2	1 1/4	1	8.1/206	6.5/166	13/331
PS1500B3X	230	50 Hz/60 Hz	3	3.4	25/94.7	15/4.6	1 1/4	1	8.1/206	6.5/166	15.4/392
PS1800BX	115	50 Hz/60 Hz	1	7	30/113.6	15/4.6	1 1/4	1	8.1/206	6.5/166	13/331
PS2200BX	115	50 Hz/60 Hz	1	7.2	37/140.1	15/4.6	1 1/4	1	8.1/206	6.5/166	13/331
PH3000BXT	115	50 Hz/60 Hz	1	10.6	50/189.3	7/2.2	1 1/4	1	6.6/168	6.5/166	14.2/361
PH3000BXT-SP	115	50 Hz/60 Hz	1	13.8	50/189.3	30/9.2	1 1/2	1	9.8/249	8.5/216	18.7/475
PH3000BXT	115	50 Hz/60 Hz	1	3.4	50/189.3	20/6.1	1 1/4	1	6.6/168	6.5/166	14.2/361
PH3000B3X	230	50 Hz/60 Hz	3	2.6	50/189.3	20/6.1	1 1/4	1	8.1/206	6.5/166	15.4/392
PH3000BXT-SP	115	50 Hz/60 Hz	1	13.8	50/189.3	30/9.2	1 1/2	1	9.8/249	8.5/216	18.7/475
PH3000B3X	230	50 Hz/60 Hz	3	6	50/189.3	20/6.1	1 1/4	1	9/229	9.75/248	14.5/369
PH3000B3X-SP	230	50 Hz/60 Hz	3	3.4	50/189.3	20/6.1	1 1/2	1 1/2	9.8/249	8.5/216	18.7/475
P3600BX	115	50 Hz/60 Hz	1	11.2	70/264.1	20/6.1	1 1/2	1 1/2	9.4/239	6.5/166	14.5/369
P3600B3X	230	50 Hz/60 Hz	3	2.8	70/264.1	20/6.1	1 1/2	1 1/2	9.4/239	6.5/166	14.5/369
PH4000BXT	115	50 Hz/60 Hz	1	14.2	70/264.1	30/9.2	1 1/2	1 1/2	9.4/239	6.5/166	15.8/402
PH4000B3X	230	50 Hz/60 Hz	3	3.8	70/264.1	30/9.2	1 1/2	1 1/2	9.4/239	6.5/166	15.8/402
P4800BXT-SP	230	50 Hz/60 Hz	1	6.4	70/264.1	28/8.6	1 1/2	1 1/2	11.5/293	8.5/216	21.5/547
PH5400B3X	230	50 Hz/60 Hz	3	5	90/340.7	45/13.8	2	2	9.75/248	8.5/216	16/407
P7800BXT	115	50 Hz/60 Hz	1	15	130/492.2	18/5.5	2 1/2	2 1/2	10/254	8.5/216	17.6/448
P7800B3X	230	50 Hz/60 Hz	3	3.4	130/492.2	18/5.5	2 1/2	2 1/2	10/254	8.5/216	17.6/448
P10500B3X	230	50 Hz	3	5.4	175/662.5	20/6.1	2 1/2	2 1/2	10/254	8.5/216	18/458
P10800BXT	115	50 Hz/60 Hz	1	14.2	180/681.4	20/6.1	2 1/2	2 1/2	10/254	8.5/216	18/458
P10800B3X	230	50 Hz/60 Hz	1	5.2	180/681.4	20/6.1	2 1/2	2 1/2	10/254	8.5/216	18/458

<sup>1</sup> For information about pumps larger than P711, please call the applications department at 954-973-2477.  
<sup>2</sup> 50/60Hz pumps may be operated at 50Hz and reduced voltages but with a 17% reduction in flow and as much as a 30% drop in head; 60Hz only pumps may not be operated at 50Hz.

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