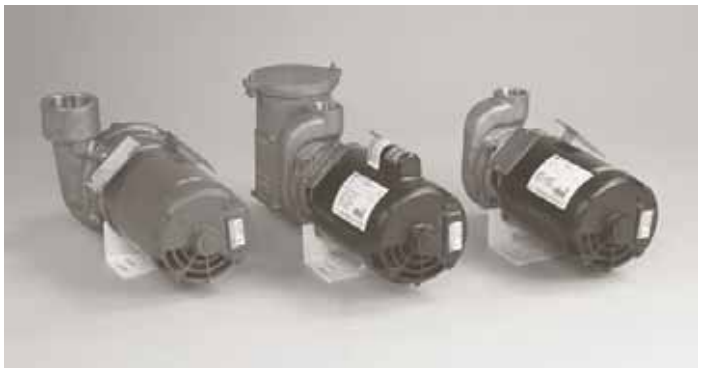
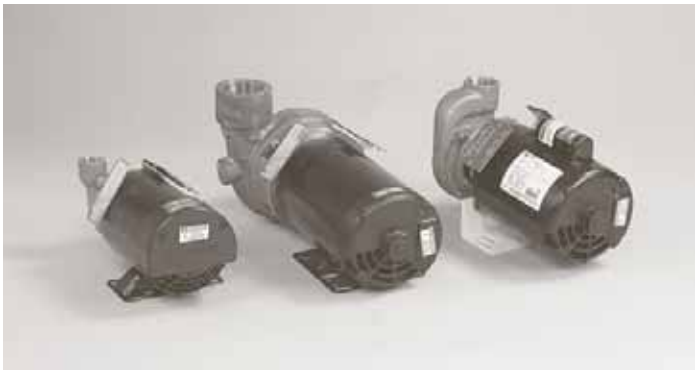
Cruisair® Tempered Water Pumps



P7800B3X, PH3000BX-SP & P3600B3X Seawater Pumps Shown



CPOD80BX, CPOD500B3X & CPOD120BX Circulating Pumps Shown

Seawater and Circulating Pumps

Cruisair specifies reliable, heavy-duty water pumps for use in the seawater and circulated water systems. All pumps are centrifugal, with bronze and stainless components.

Pumps are available with 115/230V single-phase, or 230/460 3-phase, dual voltage motors. Most are rated for 50/60 Hz use, but special 50 Hz only pumps are also available for full performance.

Circulation pumps are sized for the total loop capacity. Cruisair design specification is 3 gpm (11.4 lpm) per 12,000 Btu/hr capacity, rated at 40 feet (12.2 meters) head. Seawater pumps are selected for the tempering unit capacity, at 250 gph (15.8 lpm) per 12,000 Btu/hr.

Self-priming seawater pumps are available for installations where the pump cannot be mounted below the water line, or if air is able to enter the system such as on a sailboat or high speed craft.

Pump relays are used to control each pump. The circulation pump must run whenever the system is cooling or heating, and the seawater pump is typically cycled with the tempering units.

Single-phase pumps have internal overload protection. An external overload relay should be used with 3-phase pumps.

Features

Seawater Pumps

- High-capacity, centrifugal pumps
- Seawater grade construction
- Single-phase 115/230V or 3 phase 230/460V dual voltage motors available
- 50 or 60 Hz
- Available for high head situations
- Self-priming models available

Circulating Pumps

- High-capacity, centrifugal pumps
- Seawater grade construction
- Single-phase 115/230V or three-phase 230/460V dual voltage
- 50 or 60 Hz
- Rated at 40 ft. of head

TECHNICAL SPECIFICATIONS FOR SEAWATER PUMPS

Model	GPH @ Ft of Head	Volts	Freq. (Hz)	Ph.	Running Amps	Inlet Connection	Outlet Connection	Height (in/mm)	Width (in/mm)	Length (in/mm)	Weight (lb/kg)
P1200BXT-SP	1200@5'	115/230	50/60	1	10.6/5.3	1" FPT	1" FPT	6.6/170	6.5/165	13.6/345	35/15.8
P1500BXT	1320@5'	115/230	50/60	1	10.6/5.3	3/4" FPT	3/4" MPT	6.6/170	6.5/165	14.2/360	28/12.7
PS1500B3X	1500@15'	230/460	50/60	3	2.6/1.3	1-1/4" FPT	1" FPT	8.1/205	6.5/165	15.4/390	30/13.6
PS1500BX	1500@7'	115/230	50/60	1	7.0/3.5	1-1/4" FPT	1" FPT	7.5/190	6.5/165	13.0/330	25/11.4
PS1800BX	1800@15'	115/230	50/60	1	7.0/3.5	1-1/4" FPT	1" FPT	7.5/190	6.5/165	13.0/330	25/11.4
PS2200BX	2200@15'	115/230	50/60	1	7.2/3.6	1-1/4" FPT	1" FPT	7.5/190	6.5/165	13.0/330	25/11.4
P3000BXT	3000@7'	115/230	50/60	1	10.6/5.3	1-1/4" FPT	1" FPT	6.6/170	6.5/165	14.2/360	32/14.5
PH3000BXT	3000@20'	115/230	50/60	1	10.6/5.3	1-1/4" FPT	1" FPT	6.6/170	6.5/165	14.2/360	37/16.8
PS3000B3X	3000@20'	230/460	50/60	3	2.6/1.3	1-1/4" FPT	1" FPT	8.1/205	6.5/165	15.4/390	30/13.6
PSH3000B3X	3200@30'	230/460	50/60	3	3.4/1.7	1-1/4" FPT	1" FPT	8.1/205	6.5/165	15.4/390	33/15.0
PH3000BX-SP	3000@30'	115/230	50/60	1	13.8/6.9	1-1/2" FPT	1-1/2" FPT	9.8/250	8.5/215	18.7/475	48/21.8
PH3000B3X-SP	3000@30'	230/460	50/60	3	3.4/1.7	1-1/2" FPT	1-1/2" FPT	9.8/250	8.5/215	18.7/475	48/21.8
P3600BX	4200@20'	115/230	50/60	1	11.2/5.6	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	14.5/370	41/18.6
P3600B3X	4200@20'	230/460	50/60	3	2.8/1.4	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	14.5/370	41/18.6
PH4000BX	4200@30'	115/230	50/60	1	14.2/7.1	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.8/400	43/19.5
PH4000B3X	4200@30'	230/460	50/60	3	3.8/1.9	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.8/400	43/19.5
P7800BX	7800@18'	115/230	50/60	1	15.0/7.5	2-1/2" FPT	2-1/2" FPT	10/255	8.5/215	17.6/450	90/41
P7800B3X	7800@18'	230/460	50/60	3	3.4/1.7	2-1/2" FPT	2-1/2" FPT	10/255	8.5/215	17.6/450	90/41
P10500B3XK	10500@20'	380	50	3	5.4/2.7	2-1/2" FPT	2-1/2" FPT	10/255	8.5/215	18/457	100/45.5
P10800BX	10800@20'	115/230	50/60	1	14.2/7.1	2-1/2" FPT	2-1/2" FPT	10/255	8.5/215	18/457	100/45.5
P10800B3X	10800@20'	230/460	50/60	3	5.2/2.6	2-1/2" FPT	2-1/2" FPT	10/255	8.5/215	18/457	100/45.5

TECHNICAL SPECIFICATIONS FOR CIRCULATING PUMPS

Model	Capacity* (Btu/hr)	Volts	Freq. (Hz)	Ph.	Running Amps	Inlet Connection	Outlet Connection	Height (in/mm)	Width (in/mm)	Length (in/mm)	Weight (lb/kg)
CPOD80BX	80,000	115/230	60	1	7.8/3.9	1-1/4" FPT	1" FPT	6.5/165	6.5/165	12.8/325	24/11
CPOD120BX	160,000	115/230	60	1	11.2/5.6	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	14.5/370	41/18.6
CPOD120BXK	120,000	380	50	1	13.8/6.9	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.6/397	43/19.5
CPOD120B3X	160,000	230/460	60	3	2.8/1.4	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	14.5/370	41/18.6
CPOD120B3XK	120,000	380	50	3	5.2/2.6	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.6/397	43/19.5
CPOD180BX	210,000	115/230	50/60	1	14.2/7.1	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.8/400	43/19.5
CPOD180BXK	180,000	380	50	1	14.2/7.1	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.6/397	43/19.5
CPOD180B3X	210,000	230/460	50/60	3	3.8/1.9	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.8/400	43/19.5
CPOD180B3XK	180,000	380	50	3	4.1/2.0	1-1/2" FPT	1-1/2" FPT	9.4/240	6.5/165	15.6/397	43/19.5
CPOD240BX	240,000	115/230	60	1	16.2 / 8.1	2" FPT	1-1/2" FPT	8.6/220	10/250	15.9/400	60/27.2
CPOD240BXK	240,000	380	50	1	13.8/6.9	2" FPT	1-1/2" FPT	8.6/220	10/250	15.9/400	60/27.2
CPOD240B3X	240,000	230/460	60	3	4.0 / 2.0	2" FPT	1-1/2" FPT	8.6/220	10/250	15.9/400	60/27.2
CPOD240B3XK	240,000	380	50	3	2.2/1.1	2" FPT	1-1/2" FPT	8.6/220	10/250	15.9/400	60/27.2
CPOD320B3X	320,000	230/460	60	3	6.0/3.0	2" FPT	2" FPT	8.6/220	11/280	15.9/400	85/38.6
CPOD360B3XK	360,000	380	50	3	6.4/3.2	2" FPT	2" FPT	8.6/220	11/280	16.1/410	89/40.5
CPOD500BX	500,000	115/230	60	1	19.2 / 9.6	2-1/2" FPT	2-1/2" FPT	10/250	11/280	18/460	110/50
CPOD500B3X	500,000	230/460	60	3	6.4/3.1	2-1/2" FPT	2-1/2" FPT	10/250	11/280	18/460	110/50
CPOD800B3X	800,000	230/460	50/60	3	9.6 / 4.8	2-1/2" FPT	2-1/2" FPT	10/250	11/280	18/460	110/50

*Circ. pumps rated at 40 feet head.

SEAWATER PUMPS

P — PMA: Magnetic drive, air-cooled motor; P: Pump, mechanical seal, air-cooled motor; PH: Mechanical seal, high head only

1200 — Capacity Gallons per hour

B — B: Bronze head; No Letter: Plastic head

X — CK: 220V, 50 Hz Only; X: 115/230V, 50/60 Hz; 3X: 230/460V, 3-phase, 50/60 Hz

- SP — SP: Self priming; No Letter: Not self priming

CIRCULATING PUMPS

CP — Circulating Pump

O — O: Open Motor; E: Enclosed Motor

D — D: Direct Drive; M: Magnetic Drive

240 — Capacity Btu/hr x 1000

B — B: Bronze Head; P: Plastic Head

3X — X: 115/230V, 50/60 Hz; 3X: 230/460V, 50/60Hz

NOTES:
- When operating a 50/60 Hz pump at 50 Hz, the flow rate will decrease approximately 17%, while the head capability will drop as much as 30%.
- Hose fittings are not included with pumps and must be ordered separately.

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