

Pro Series - Combination Pump Specifications

	PS-C11 1/3 HP Sump Pump Pro Series Pumps	PS-C22 (w/PHCC-1730) 1/3 HP Sump Pump Pro Series Pumps	PS-C22 (w/PHCC-1850) 1/3 HP Sump Pump Pro Series Pumps	PS-C33 1/3 HP Sump Pump Pro Series Pumps
PUMP (AC)				
Flow @ 0 ft. GPH (0 M.)	4,100 GPH / 15,520 LPH	4,100 GPH / 15,520 LPH	4,100 GPH / 15,520 LPH	3,900 GPH / 14,763 LPH
Flow @ 0 ft. GPM (0 M.)	68.3 GPM / 258 LPM	68.3 GPM / 258 LPM	68.3 GPM / 258 LPM	65 GPM / 246 LPM
Flow @ 10 ft. GPH (3 M.)	2,770 GPH / 10,486 LPH	2,770 GPH / 10,486 LPH	2,770 GPH / 10,486 LPH	3,000 GPH / 11,356 LPH
Flow @ 10 ft. GPM (3 M.)	46.1 GPM / 174 LPM	46.1 GPM / 174 LPM	46.1 GPM / 174 LPM	50 GPM / 189 LPM
Flow @ 20 ft. GPH (6.1 M.)	1,150 GPH / 4,353 LPH	1,150 GPH / 4,353 LPH	1,150 GPH / 4,353 LPH	1,740 GPH / 6586 LPH
Flow @ 20 ft. GPM (6.1 M.)	19 GPM / 72 LPM	19 GPM / 72 LPM	19 GPM / 72 LPM	29 GPM / 110 LPM
Max. Head	29 ft. / 8.8 M	29 ft. / 8.8 M	29 ft. / 8.8 M	30 ft. / 9.1 M
Max. Diam. Solids (w/ Strainer)	1/4" / 6.4 mm	1/4" / 6.4 mm	1/4" / 6.4 mm	7/8" (3/16") / 22 (5) mm
Pump Discharge	1-1/2" NPT / 3.8 cm	1-1/2" NPT / 3.8 cm	1-1/2" NPT / 3.8 cm	1-1/2" NPT / 38 mm
Motor - HP	1/3 HP	1/3 HP	1/3 HP	1/3 HP
Motor Type	PSC	PSC	PSC	PSC
Voltage	115 VAC, 60 Hz	115 VAC, 60 Hz	115 VAC, 60 Hz	115 VAC, 60 Hz
Amps. @ 10 Ft. Total Head	3.8 Amps	3.8 Amps	3.8 Amps	4.0 A
Gallons per Watt Hour Used	6.1 G /Whr	6.1 G /Whr	6.1 G /Whr	6.3 G /Whr
Speed	3450 RPM	3450 RPM	3450 RPM	3450 RPM
Line Cord - Type	18-3 SJTW	18-3 SJTW	18-3 SJTW	16-3 SJTW
Line Cord - Length	10 ft. (3.0M)	10 ft. (3.0M)	10 ft. (3.0M)	10 ft. (3.0M)
Motor Cooling	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Overheating Protection	Thermal Fused	Thermal Fused	Thermal Fused	Thermal Fused
Operation	Automatic	Automatic	Automatic	Automatic
Duty	Continuous	Continuous	Continuous	Continuous
Max. Water Temp.	104° F / 40° C	104° F / 40° C	104° F / 40° C	104° F / 40° C
Approvals	CSA (Primary Pump); cULus Backup Transformer	CSA (Primary Pump); cULus Backup Transformer	CSA (Primary Pump); cULus Backup Transformer	CSA
Warranty	3-Year (1-Year for Continuous Use)	3-Year (1-Year for Continuous Use)	3-Year (1-Year for Continuous Use)	4 Year when Purchased from and Installed by a Contractor, Otherwise 3-Year, 1-Year for Continuous Use

	PS-C11	PS-C22 (w/PHCC-1730)	PS-C22 (w/PHCC-1850)	PS-C33
PUMP CONSTRUCTION (AC)				
Pump Housing	Cast Iron / Cast Aluminum	Cast Iron / Cast Aluminum	Cast Iron / Cast Aluminum	Cast Iron / Stainless Steel
Impeller	Engineered Polymer	Engineered Polymer	Engineered Polymer	Fiber Polycarbonate
Fasteners	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Strainer	Removable Electroplated Steel	Removable Electroplated Steel	Removable Electroplated Steel	Durable Polypropylene Strainer
Pump Seals:	(2) - Carbon/Ceramic - Buna N Exclusion Seal (1)	(2) - Carbon/Ceramic (1) - Buna N Exclusion Seal	(2) - Carbon/Ceramic Buna N Exclusion Seal (1)	(2) - Carbon/Ceramic - Buna N Exclusion Seal (1)
Motor Shaft	Electroplated Steel	Electroplated Steel	Electroplated Steel	304 SS
Bearings	(2) Sealed Perm.-Lubricated Ball Bearings	(2) Sealed Perm.-Lubricated Ball Bearings	(2) Sealed Perm.-Lubricated Ball Bearings	(2) Sealed Perm.-Lubricated Ball Bearings
Painting Method	Powder Coated	Powder Coated	Powder Coated	Primed / Double Paint

	PS-C11	PS-C22 (w/PHCC-1730)	PS-C22 (w/PHCC-1850)	PS-C33
PUMP (DC - BACKUP)				
Flow @ 0 ft. GPH (0 M.)	2,000 GPH / 7,571 LPH	2,500 GPH / 9,463 LPH	2,600 GPH / 9,842 LPH	4,000 GPH / 15,142 LPH
Flow @ 0 ft. GPM (0 M.)	33.3 GPM / 126 LPM	41.7 GPM / 158 LPM	43.3 GPM / 163.9 LPM	66.7 GPM / 252 LPM
Flow @ 10 ft. GPH (3 M.)	1,000 GPH / 3,785 LPH	1,730 GPH / 6,549 LPH	1,850 GPH / 7,003 LPH	2,400 GPH / 9085 LPH
Flow @ 10 ft. GPM (3 M.)	16.7 GPM / 63 LPM	28.8 GPM / 109 LPM	30.8 GPM / 116.6 LPM	40 GPM / 151 LPM
Max. Head	15 ft. / 4.6 M	16 ft. / 4.9 M	16 ft. / 4.9 M	17 ft. / 5.2 M
Pump Discharge	1-1/4" FNPT w/ 1-1/4x1-1/2" Adaptor	1-1/4" FNPT w/ 1-1/2x1-1/2" Adaptor	1-1/4" FNPT w/ 1-1/2x1-1/2" Adaptor	1-1/2" FNPT w/ 1-1/2x1-1/2" Adaptor
Strainer	Snap-on Non-corrosive ABS Screen	Snap-on Non-corrosive ABS Screen	Snap-on Non-corrosive ABS Screen	Snap-on Non-corrosive ABS Screen
Pump Housing	Non-corrosive ABS	Non-corrosive ABS	Non-corrosive ABS	Non-corrosive ABS
Impeller	Non-corrosive ABS	Non-corrosive ABS	Non-corrosive ABS	Fiber Poly-Carbonate
Motor Type	Brush-type DC	Brush-type DC	Brush-type DC	Brush-type DC
Voltage	12 VDC	12 VDC	12 VDC	12 VDC
Amps. @ 10 Ft. Total Head	6.5 Amps.	10 - 12 Amps.	10 - 12 Amps.	16 Amps.

	PS-C11	PS-C22 (w/PHCC-1730)	PS-C22 (w/PHCC-1850)	PS-C33
CHARGER / MONITOR				
Power Input	115 VAC, 60 Hz	115 VAC, 60 Hz	115 VAC, 60 Hz	115 VAC, 60 Hz
Charger Output	12 VDC / 4 Amp	12 VDC / 1.6 Amp	12 VDC / 1.6 Amp	12 VDC / 13 Amp
Pumping Time w/ B-1000	50 Hours based on 10% duty cycle. Run times may vary based on water flow	Not Recommended	Not Recommended	Not Recommended
Pumping Time w/ B-2200	100 Hours based on 10% duty cycle. Run times may vary based on water flow	60 Hours based on 10% duty cycle. Run times may vary based on water flow	60 Hours based on 10% duty cycle. Run times may vary based on water flow	50 Hours based on 10% duty cycle. Run times may vary based on water flow
Pumping Time w/ (2) B-2200	Not Recommended	120 Hours based on 10% duty cycle. Run times may vary based on water flow. Not Recommended for PHCC-1730 controllers without the Remote Terminal	120 Hours based on 10% duty cycle. Run times may vary based on water flow. Not Recommended for PHCC-1730 controllers without the Remote Terminal	100 Hours based on 10% duty cycle. Run times may vary based on water flow
Pumping Time w/ B12-75	80 Hours based on 10% duty cycle. Run times may vary based on water flow	48 Hours based on 10% duty cycle. Run times may vary based on water flow. Incompatible for PHCC-1730 controllers without the Remote Terminal	48 Hours based on 10% duty cycle. Run times may vary based on water flow. Incompatible for PHCC-1730 controllers without the Remote Terminal	40 Hours based on 10% duty cycle. Run times may vary based on water flow
Pumping Time w/ B12-90	100 Hours based on 10% duty cycle. Run times may vary based on water flow	60 Hours based on 10% duty cycle. Run times may vary based on water flow. Incompatible for PHCC-1730 controllers without the Remote Terminal	60 Hours based on 10% duty cycle. Run times may vary based on water flow. Incompatible for PHCC-1730 controllers without the Remote Terminal	50 Hours based on 10% duty cycle. Run times may vary based on water flow
Pumping Time w/ B12-100	133 Hours based on 10% duty cycle. Run times may vary based on water flow	80 Hours based on 10% duty cycle. Run times may vary based on water flow. Incompatible for PHCC-1730 controllers without the Remote Terminal	80 Hours based on 10% duty cycle. Run times may vary based on water flow. Incompatible for PHCC-1730 controllers without the Remote Terminal	66 Hours based on 10% duty cycle. Run times may vary based on water flow
Pumping Time - Intermittent Duty	Days	Days	Days	Days
Float Switch	Dual, Micro-Reed Switches	Dual, Micro-Reed Switches	Dual, Micro-Reed Switches	Dual, Micro-Reed Switches

	PS-C11	PS-C22 (w/PHCC-1730)	PS-C22 (w/PHCC-1850)	PS-C33
MONITORING FEATURES				
Switches Automatically to Battery	Yes	Yes	Yes	Yes
Pumps directly of AC Power	No	No	No	Yes
Automatically Tests the Pump	No	No	No	Yes
Alarm Can Be Silenced	Yes (Switch)	Yes (24 Hours)	Yes (24 Hours)	Yes (24 hours)
Displays Percent of Charge	No	No	No	Yes
Alarms When:	-	-	-	-
Pump has Been Activated	Yes	Yes	Yes	Yes
Battery Needs Water	Yes	Yes	Yes	Yes
Battery Needs replacing	Yes	Yes	Yes	Yes
Battery is Discharged	Yes	Yes	Yes	Yes
Battery Cable is Loose	Yes	Yes	Yes	Yes
Power, fuse or circuit breaker	Yes	Yes	Yes	Yes
Fuse, DC	No	No	Yes	Yes
Tests Pump Weekly	No	Yes (with remote terminal)	Yes	Yes
Remote Terminal (NO, NC, Com)	No	Yes	Yes	Yes
USB Data Port	No	Yes	Yes	Yes (starting w/ s/n 83000)

	English	Metric	English	Metric	English	Metric	English	Metric
DIMENSIONS								
Overall Dimensions (WxDxH)								
Item Wt.	28.5 lbs	12.9 Kg	32 lbs	14.5 Kg	32 lbs	14.5 Kg	43 lbs	19.5 Kg
Carton Dimensions (LxWxH)	20.75" x 18" x 19"	52.7 x 45.7 x 48.26 cm	20.75" x 18" x 19"	52.7 x 45.7 x 48.26 cm	20.75" x 18" x 19"	52.7 x 45.7 x 48.26 cm	20.75" x 18" x 19"	52.7 x 45.7 x 48.26 cm
Shipping Wt.	35.6 lbs	16.15 Kg	38.95 lbs	17.67 Kg	38.95 lbs	17.67 Kg	48.6 lbs	22.0 Kg

	PS-C11	PS-C22 (w/PHCC-1730)	PS-C22 (w/PHCC-1850)	PS-C33
FLOAT SWITCH AND CONTROLLER (AC PUMP)				
Float Type	Dual, Micro-Reed Switches w/ Cage	Dual, Micro-Reed Switches w/ Cage	Dual, Micro-Reed Switches w/ Cage	Dual, Micro-Reed Switches w/ Cage
Controller (DFC2) Functions:	Start/Stop Pump w/ 10 sec. run before stopping, adjustable run time, weekly test.	Start/Stop Pump w/ 10 sec. run before stopping, adjustable run time, weekly test.	Start/Stop Pump w/ 10 sec. run before stopping, adjustable run time, weekly test.	Start/Stop Pump w/ 10 sec. run before stopping, adjustable run time, weekly test.
Control Voltage/Current	115 VAC / 12 Amps. max	115 VAC / 12 Amps. max	115 VAC / 12 Amps. max	115 VAC / 12 Amps. max
Max. Inrush Current	30 Amps.	30 Amps.	30 Amps.	30 Amps.
Switch Cord - Type, Length*	18-2 SJT x 10ft. (3.0M)	18-2 SJT x 10ft. (3.0M)	18-2 SJT x 10ft. (3.0M)	18-2 SJT x 10ft. (3.0M)

	PS-C11	PS-C22 (w/PHCC-1730)	PS-C22 (w/PHCC-1850)	PS-C33
INCLUDED				
Included with System	AC Pump, Caged-Dual Float and Controller (AC Pump), Backup Pump, Dual Float (Backup), Controller (Backup), Charger (Backup), Sump Foot, (2) Check Valves, Y Adaptor, Pipe, Battery Cap whole, Hose Clamp, (2) Wire Ties, Instruction Manual	AC Pump, Caged-Dual Float and Controller (AC Pump), Backup Pump, Dual Float (Backup), Controller (Backup), Charger (Backup), Sump Foot, (2) Check Valves, Y Adaptor, Pipe, Battery Cap whole, Hose Clamp, Wire Tie Instruction Manual	AC Pump, Caged-Dual Float and Controller (AC Pump), Backup Pump, Dual Float (Backup), Controller (Backup), Charger (Backup), Sump Foot, (2) Check Valves, Y Adaptor, Pipe, Battery Cap whole, Hose Clamp, Wire Tie Instruction Manual	AC Pump, Caged-Dual Float and Controller (AC Pump), Backup Pump, Dual Float (Backup), Controller (Backup), Charger (Backup), Sump Foot, (2) Check Valves, Y Adaptor, Pipe, Battery Cap whole, Hose Clamp, Wire Tie, Instruction Manual