PRO SERIES PUMPS

Combination Systems

PS-C11

3 Year Warranty

Good

KEY FEATURES:

- **ST1033 Primary** - pumps 2770 GPH at 10'
- **PHCC-1000 Backup** - pumps 1000 GPH at 10'
- Designed for use with wet cell or AGM / maintenance free batteries
- Dual float switches provide dependable activation for each pump
- Unique monitoring controller sounds an alarm if maintenance is needed
- Pumps are securely attached to raised Sump Foot to prevent movement or breakage

Energy Saving - Primary Pump
Saves an average of **$57 per year***

PS-C22

3 Year Warranty

Better

KEY FEATURES:

- **ST1033 Primary** - pumps 2770 GPH at 10'
- **PHCC-1730 Backup** - pumps 1730 GPH at 10'
- Remote terminals for connection to a security system or auto-dialer
- Designed for use with wet cell or AGM / maintenance free batteries
- Dual float switches provide dependable activation for each pump
- Unique monitoring controller sounds an alarm if maintenance is needed and runs pump weekly to test for proper operation
- Pumps are securely attached to raised Sump Foot to prevent movement or breakage

Energy Saving - Primary Pump
Saves an average of **$57 per year***

PS-C33

* 4 year warranty available when installed by a contractor, otherwise the original 3 year warranty is applicable

4* Year Warranty

Best

KEY FEATURES:

- **S3033 Primary** - pumps 3000 GPH at 10'
- **PHCC-2400 Backup** - pumps 2400 GPH at 10'
- Remote terminals for connection to a security system or auto-dialer
- Designed for use with wet cell or AGM / maintenance free batteries
- Can accommodate two (2) standby batteries to double the run time
- Caged dual float switches provide dependable activation for each pump
- Pumps are securely attached to raised Sump Foot to prevent movement or breakage

Energy Saving - Primary Pump
Saves an average of **$55 per year***

*Assumes industry average of 9.5 amps for 1/3 HP pumps and 10.5 amps for 1/2 HP pumps, $.12 per kilowatt hour and running time of 5 minutes per hour.

Combination Systems

Features

All PHCC Pro Series Combination Systems feature:

- Pre-Assembled for quick and easy installation
- Compact footprint fits neatly into most sump pits
- Automatically switches to battery power when AC fails
- Unique monitoring controller detects irregularities, sounds an alarm, and pinpoints problems and solutions on control panel
- Primary pump with Energy efficient PSC motor is continuous duty rated and water cooled
- Dual float switches provide dependable activation for both primary and backup pumps
- Backup will assist primary pump if excessive amounts of water are entering the sump
- Maintains and recharges battery automatically
- Alarm can be silenced during a power outage
- Designed for use with wet cell or AGM / maintenance free batteries

BACKUP PUMP MONITORING

Will sound alarm indicating:	PS-C11	PS-C22	PS-C33
Battery needs water	●	●	●
Battery is old and needs to be replaced	●	●	●
Battery is discharged	●	●	●
Cable is loose or terminals are corroded	●	●	●
Power, fuse or circuit breaker has failed	●	●	●
Pump has been activated; check the main pump for failure	●	●	●
Automatically tests pump weekly		●	●
Backup pump runs off AC power as well as battery power			●
Displays percentage of power remaining in the battery			●

INCLUDED WITH SYSTEM

- Pre-assembled:
  - Primary pump
  - Backup pump
  - (3) 1½" Standard no hub couplings
  - (2) Standard check valves with hardware
  - Sump Foot - raises and secures both pumps
- Backup system controller/charger with fluid sensor
- Primary pump controller (DFC1) with caged dual float switch
- Battery box

Specifications

Primary Pump	PS-C11	PS-C22	PS-C33
Flow at 10' Head	2770 GPH	2770 GPH	3000 GPH
Max Head	31' / 9.4 m	31' / 9.4 m	30' / 9.1 m
Discharge	1½"	1½"	1½"
Motor HP	1/3	1/3	1/3
Voltage	115V, 60Hz	115V, 60Hz	115V, 60Hz
Amp. draw at 10'	3.8	3.8	4.0

Backup Pump	PS-C11	PS-C22	PS-C33
Flow at 10' Head	1000 GPH	1730 GPH	2400 GPH
Voltage	12 VDC	12 VDC	12 VDC
DC Current	6.5 Amps	10 - 12 Amps	16 Amps

Dimensions	PS-C11	PS-C22	PS-C33
Width	8.9" (22.6 cm)	8.9" (22.6 cm)	10.0" (25.4 cm)
Depth	11.0" (27.9 cm)	11.0" (27.9 cm)	11.0" (27.9 cm)
Height	23.7" (60.2 cm)	23.7" (60.2 cm)	23.7" (60.2 cm)
Weight	28.5 lbs (12.9 Kg)	32 lbs (14.5 Kg)	43 lbs (19.5 Kg)

PUMP CONSTRUCTION

Primary Pump

- Permanent Split Capacitor (PSC) motor
- Upper and lower sealed ball bearings
- Cast iron/cast aluminum housing (PS-C11, PS-C22), Cast iron/stainless steel housing (PS-C33)
- Electroplated steel shaft (PS-C11, PS-C22), Stainless steel shaft (PS-C33)
- Dual carbon ceramic shaft seals plus additional Buna N seal
- Engineered polymer impeller (PS-C11, PS-C22), Polycarbonate impeller (PS-C33)
- Stainless steel fasteners

Backup Pump

- Non-corrosive ABS housing
- Stainless steel shaft
- Rulon seal (PS-C11, PS-C22), Carbon ceramic seal w/ Buna N seal (PS-C33)
- Non-corrosive ABS impeller (PS-C11, PS-C22), Non-corrosive fiber filled impeller (PS-C33)
- Dual ball bearings (PS-C33)