

Battery Backup Sump Pump Systems

Designed for the professional contractor

For added protection and peace of mind, install a Pro Series battery backup system. Pro Series backup systems have 24-hour-a-day monitoring capabilities that sound an alarm when maintenance is needed, or when a problem arises. The PHCC-2400, PHCC-1850, PS-C33, and PS-C22 have the added ability to communicate with a Pro Series Connect WiFi Module, home security system, or other device to alert you to problems or required maintenance. After all, a backup system with a dead battery, loose cables, or a clogged pump is like having no backup at all.

Pro Series backup pumps protect against:

- Power outages
- Main pump failures
- Float switch failures
- Excessive inflow of water



PHCC-2400

PHCC-1850

PHCC-1000

Features	2400	1850	1000
POWERFUL			
• Pumping capacity (in gallons per hour @ 10-ft. height)	2400 GPH	1850 GPH	1000 GPH
• Pumping capacity (in gallons per hour @ 0-ft. height)	4000 GPH	2500 GPH	2000 GPH
EFFICIENT			
• Charger strength (the higher the amps, the faster it will recharge the battery)	13 amps	1.6 amps	.4 amps
• Caged float switch provides added protection	•	•	•
• System pumps intermittently for days	•	•	•
AUTOMATIC			
• Switches automatically to battery power when AC power fails	•	•	•
• Pumps automatically when water volume exceeds the capacity of the main AC pump	•	•	•
• Runs pump weekly to test for proper operation	•	•	•
VERSATILE			
• Pumps on AC power as well as battery power	•	•	•
• Designed for use with wet cell or maintenance free (AGM) batteries	•	•	•
• USB data port and remote terminal to connect to the Pro Series WiFi Module, or auto dialer	•	•	•
USER-FRIENDLY			
• Detects irregularities, sounds an alarm, and pinpoints problems and solutions on the control panel	•	•	•
• The alarm can be silenced during a power outage	•	•	•
AN ALARM WILL SOUND, INDICATING THESE POTENTIAL PROBLEMS • Battery needs water • Battery is old and needs to be replaced • Battery is discharged or defective • Cable is loose or terminals are corroded • Power, fuse or circuit breaker has failed • Pump has been activated; check the main pump for failure			

Pro Series backup pumps offer:

- USB data port and remote terminal connects to the Pro Series WiFi Module, or home security system (PHCC-2400, PHCC-1850, PS-C33, PS-C22)
- Powerful pumping capacity
- Monitoring of pump and battery conditions
- Compatible with wet cell or maintenance free (AGM) batteries
- Runs the pump weekly to ensure proper operation (PHCC-2400, PHCC-1850, PS-C33, PS-C22)
- Connect two batteries for extended run time (PHCC-2400, PHCC-1850, PS-C33, PS-C22)

Adjustable float switch with two floats provides added reliability

Battery fluid sensor sends a signal to the controller when the battery needs water (B-2200 / B-1000)



Combination Primary and Backup Sump Pump Systems

The Pro Series combination systems offers total peace of mind by combining our energy-efficient primary pump and battery backup pump into one compact system. There is no better protection for the homeowner as the primary pump will operate as long as it is receiving AC power. If the power is interrupted or more water is coming into the sump than the AC pump can handle, the backup sump pump will begin pumping automatically, offering ultimate security.

Key Features:

- Already assembled for easy installation
- Compact footprint fits neatly into most sump pits
- Dual float switches provide dependable activation for each pump
- 24-hour-a-day monitoring controller sounds an alarm if maintenance is needed
- USB data port and remote terminal connects to the Pro Series WiFi Module, or home security system (PS-C33, PS-C22)
- Includes two check valves and appropriate PVC pipe
- Includes the Sump Foot – an elevated platform to keep pumps out of pit debris
- 4-year warranty (PS-C33*); 3-year warranty (PS-C22, PS-C11)

Available in three sizes:

Features	PS-C33		PS-C22		PS-C11	
	Backup	Primary	Backup	Primary	Backup	Primary
Model	PHCC-2400	S3033	PHCC-1850	ST1033	PHCC-1000	ST1033
GPM @ 10'	40	50	28.8	46.1	16.6	46.1
GPH @ 10'	2400	3000	1850	2770	1000	2770
Amps @ 10'	18 (DC)	4.0	10 (DC)	3.8	6.5 (DC)	3.8
Wt. (lbs.)	43 lbs		32 lbs		28.5 lbs	
Warranty	4 years*		3 years		3 years	



PS-C33

PS-C22

PS-C11

*When purchased from and installed by a contractor

Water Alarm

Detect leaks before they become a problem

Place wherever there is a risk of water damage... utility, laundry room, kitchen, bathroom or basement

- Easy to use, dependable protection
- 110 dB alarm can be heard throughout the house
- Will sound an alarm when as little as 1/32" of water reaches the sensor



Standalone Water Alarm has built-in accessory jack for optional add-on accessories.

PWA2

360° Sensor (PS-WS360)

- In-Touch 360° technology
- Place on floor where there's a risk of water damage

Water Sensor (PS-WS)

- Place in a sump or sewage pit

20' Extension (EXT-PWA20)

- For use with 360° Sensor and Water Sensor

Pro Series Standby Batteries

Why should you use a Pro Series battery?

- These matching standby batteries are designed to:
- Run the pump longer... for more hours per charge
- Last longer in standby operation
- Accommodate the battery fluid sensor*



B12-100

B-2200

B-1000

Pumping Time**	B-2200*	B-1000*	B12-100
PHCC-2400	50 Hours	Not recom'd	55 Hours
PHCC-1850	60 Hours	Not recom'd	70 Hours
PHCC-1000	100 Hours	50 Hours	110 Hours

Matching batteries run the pumps intermittently for days.

Connect two batteries in parallel on the PHCC-2400, PHCC-1850, PS-C33 and PS-C22 for extended run time (parallel cables available separately).

*Battery fluid sold separately.

**Based on 10% duty cycle. Run times may vary based on inflow of water.

The Connected Pump

Remote Monitoring

Pro Series Pumps offer connection flexibility not found in other brands, with both a USB data port and remote terminal built in. The USB data port allows compatible Pro Series systems to connect to the Pro Series WiFi module (Model PS-WiFi). The module then connects to the home's Wi-Fi router or hub-enabling the homeowner to receive a text or e-mail telling exactly what emergency is occurring or when maintenance is needed. The remote terminal, on the other hand, allows for connection to a home security system or other dry-contact based device. The Pro Series Pumps CONNECT line of products gives you peace of mind by keeping you informed while away.

For more information: www.StopFlooding.com/connected

Pro Series Compatibility

- Backup Systems**
- PHCC 2400
 - PHCC 1850

- Combo Systems**
- PS-C33
 - PS-C22

- Primary Pump Switch**
- DFC2
 - VSC2
 - TSC2
 - DVSA

Option #1

Pro Series Wi-Fi Module

- Sends emails or text notifications and status alerts to your phone, tablet or computer
- NO MONTHLY FEE
- Simple setup



Model PS-WiFi

Option #2

Home security system

- Other devices with dry-contact connections can be hooked up to select Pro Series controllers



Check Valves

Check Valves

Pro Series Pumps has a variety of 1½" and 2" standard and quiet "Klunkless" Check Valves with screw-in, slip, no-hub and compression connections, that can include a ball valve or weep hole. Please see our website or catalog for a full listing.



PS-CVNH



PS-CVKSU15

Quick Connect Main Pipe

- Ensures proper installation
- Pre-drilled weep hole
- No need to remove the pipe from the old pump
- Save installation time and cost of adapters, check valves, PVC, primer and cement
- Total length: 14.25"

PS-MP



... Exceeding Expectations



Energy-Efficient AC Pumps

Battery Backup Sump Pumps

Combination Pumps

Sewage Pumps

Innovative Switch Technologies

Water Alarms

Batteries

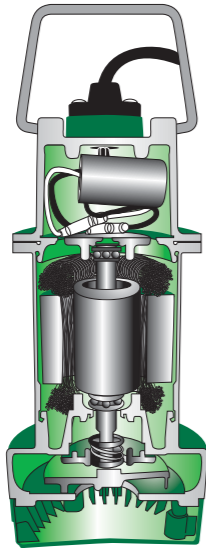
Leading the Industry in Green Technology

Pro Series Primary and Sewage Pumps

The Pro Series promise has always been to build a better, more dependable pump using premium components. Our pumps are built using cast iron, cast aluminum or stainless steel housings, dual ball bearings and carbon ceramic shaft seals. All of our primary pumps feature thermally protected, high-performance, high-efficiency PSC (permanent split capacitor) motors, which use fewer amps than most sump pumps.

Combining an energy-efficient Pro Series sump pump with our Deluxe Controller (DFC2, VSC2 or TSC2) creates a system like no other. The USB data port and remote terminal on the Deluxe Controller allows the homeowner to connect their sump pump system to the WiFi Module or a home security system and stay connected when away from home.

Pro Series Pumps are industrial grade and built for the residential market. We back this up by offering 1½, 3, 4 and 5-year warranties.



- Continuous-duty rated (ST Series, S3 Series and E7 Series)
- Efficient permanent split capacitor motor (PSC)
- Double or triple seals (depending on model)
- Upper and lower ball bearings
- Water-cooled (ST, S3 and E7 Series)
- Thermally protected
- Removable strainer (SR, ST, S2 and S3 Series)
- 20' power cord on S3050 and S3100; 10' power cord on SR33-VS, ST Series, S2 Series S3033 and E7 Series
- 20' power cord OPTION available (ST and S2 Series, S3033 E7040 and E7105)
- Dynamically balanced cast iron impeller (S3100 and E7 Series), engineered polymer impeller (ST Series), polycarbonate impeller (SR33-VS, S3033, S3050)
- Vortex cast iron impeller (S2 Series)
- Stainless steel fasteners won't rust
- Sump pumps are for ground water application only (SR33-VS, ST Series, S3 Series)

Primary Sump Pumps



Features	SR33-VS	ST1033	ST1050	S2033	S2050	S3033	S3050	S3100	E7040	EBIS40V	E7055	E7105
Motor HP	1/3 HP	1/3 HP	1/2 HP	1/3 HP	1/2 HP	1/3 HP	1/2 HP	1 HP	4/10 HP	4/10 HP	1/2 HP	1 HP
GPM @ 10' *	47	46	72	53	60	50	65	92	74	74	89	100
GPH @ 10' *	2820	2770	4320	3200	3600	3000	3900	5520	4440	4440	5340	6000
Max head	24'	29'	32'	23'	26'	30'	33'	52'	22'	22'	23'	32'
Discharge	1½"	1½"	2"	1½"	1½"	1½"	2"	2"	2"	2"	2"	2"
Amps @ 10'	3.3	3.8	4.8	5.0	5.5	4.0	4.3	11.5	6.3	6.3	7.0	10.5
Wt. (lbs.)	12	17	28	21	22	20	24	46	36	36	37	40
Solids	-	-	-	1/2"	1/2"	-	-	-	2"	2"	2"	2"
20' cord **	N/A	OPT	OPT	OPT	OPT	OPT	STD	STD	OPT	OPT	OPT	OPT
Warranty***	1½ Year	3 Year	3 Year	4 Year	4 Year	5 Year	5 Year	5 Year	3 Year	3 Year	3 Year	3 Year

* All capacities updated as of 4-2020
 ** OPT: 20' cord option available
 STD: 20' cord is standard with pump
 *** When purchased from and installed by a contractor.

A one-year warranty is available when used in continuous-duty applications such as fountains or ponds. All pumps are 115V, 60Hz.

Energy-Efficient:

Pro Series Pumps use substantially fewer amps than pumps from other manufacturers. That means they are considerably less expensive for a homeowner to operate.



It's All About the Switch – Proven Reliability Equals Peace of Mind

Dual Float Switch

- Used in clear water applications
- Available with Standard (DFC1), Enhanced (DFC1.5) and Deluxe controllers (DFC2)
- Two micro reed activated floats for added reliability
- Protective cage prevents debris from interfering with floats
- Activation height adjustable to any level
- Mounts to discharge pipe with included stainless steel hose clamp
- 20' cord option available (Model-20)

Vertical Float Switch

- Used in clear water and sewage applications
- Two versions of the vertical switch:
 - **Piggy-back plug (120 VAC) version (VS)**
 - **Vertical switch for controllers**
 - Available with Enhanced (VSC1.5) and Deluxe controllers (VSC2)
 - Gold contacts for reliable high cycle operation
- Activation height adjustable to any level
- Mounts to discharge pipe with included stainless steel hose clamp
- 20' cord option available (Model-20)

Tether Float Switch

- Used in clear water and sewage applications
- Two versions of the tether switch:
 - **Piggy-back plug (120 VAC) version (TS)**
 - **Tether switch with controller**
 - Available with Enhanced (TSC1.5) and Deluxe controllers (TSC2)
 - Narrow angle in order to reduce run time
- Activation height adjustable to any level
- Mounts to discharge pipe with included stainless steel hose clamp
- 20' cord option available (Model-20)

Controller and Switch Options



Standard Controller (DFC1)

- Includes the Dual Float Switch
- Activates the pump when water raises either float
- Once the float drops to the original position the pump runs for an additional 10 seconds to completely empty the sump pit

VS

Vertical Switch (VS)

- Piggy-back plug (120v) version – no controller
- Activation height adjustable to any level
- 10' float cord



Tether Switch (TS)

- Piggy-back plug (120v) version – no controller
- Wide angle in order to increase run time



Enhanced Controller (DFC1.5, VSC1.5 and TSC1.5)

- Available with Dual Float, Vertical Switch or Tether Switch
- Adjustable run time from 5-45 seconds after the float drops
- Activates pump weekly to exercise, extending pump life
- Detachable float switch allows for easy installation & maintenance
- System operating light
- Universal mounting tabs



DFC1.5



VSC1.5



TSC1.5



Deluxe Controller (DFC2, VSC2 and TSC2)

Possesses all features of the DFC1.5, VSC1.5 and TSC1.5 *plus*:

- Available with Dual Float, Vertical Switch or Tether Switch
- Monitors pump and power conditions and sounds an alarm when problems are detected
- Visual/audible notification and recommended maintenance:
 - ♦ AC power has failed, pump or float problem is detected, 9v battery is low or slide switch is off
- USB data port and remote terminal connect to external devices such as the Pro Series Pumps CONNECT module, or other devices for remote notification
- Detachable float switch allows for easy installation and maintenance



Ultimate Controller (DFC3, VSC3 and TSC3)

- Utilizes solid state circuitry for high cycling situations
- **Does not have 3.5mm accessory jack**



DFC2



VSC2



TSC2

Optional Accessories for the Deluxe Controller

- **High Water Accessory (PS-WS)**
 - Sounds an alarm when the water has reached the high water sensor
- **360° Sensor (PS-WS360)**
 - Place where there's a risk of water damage

Pre-assembled Sewage Pit

Packaged Systems

- Our Pre-assembled Sewage Package Systems are completely assembled for easy installation. Choose from a 4/10, 1/2 or 1 HP ejector pump along with 6 float switch options. A great labor and cost savings!
- Pump rests in a formed mold which prevents torquing
- Includes pit cover with inspection port, and all gaskets
- Easy to install
- High Water Accessory included with VSC2 / TSC2



Clenit™

Clenit is a proprietary powder that breaks down iron ochre, the red slime clogging your pump, pit and drain tile. The buildup is then flushed away, leaving a clean, fully functioning pump and pit.

- Removes iron ochre, the red slime buildup, from your sump pit
- Helps maintain a healthy pump and pit
- Great for periodic pit maintenance



CL7

Pump Alternator

- Prolongs pump life by alternating two primary pumps
- If one pump fails the other pump will take over and an alarm will sound
- Flashing light will indicate which pump is failing
- Remote terminal allows the unit to connect to the Pro Series WiFi Module, security system, or other dry contact based device
- If one float switch fails the other float switch will take over and an audible alarm will sound
- Detachable float switch wires for easy installation
- Angled receptacles accept standard or right-angled pump plugs
- High Water Alarm with accompanying LED indicator, audible alarm, and 9V battery backup



Single Pump Activation (DVSA)

- Runs one pump at a time
- Can handle up to 1 HP pumps (Max 15 Amps each pump)

Dual Pump Activation (DVSA-DF / DVSA-VS)

- Runs both pumps at the same time for extra capacity (Total 15 Amps)
- Includes your choice of either:
 - ♦ Two low-voltage vertical float switches (Model DVSA-VS)
 - ♦ Two caged dual float switches (Model DVSA-DF)
- Built-in circuit breakers for both pumps (15 total amps max.)



DVSA-VS



DVSA-DF

Sump and Sewage Pump Mix and Match

Flexibility to order a pump with any switch

Option 1: Order a pump with no switch (NS) and a switch as separate items

Pump with no switch (NS)	Switch
<input type="checkbox"/> ST1033-NS	<input type="checkbox"/> DFC1
<input type="checkbox"/> ST1050-NS	<input type="checkbox"/> DFC1.5
<input type="checkbox"/> S3033-NS	<input checked="" type="checkbox"/> DFC2
<input checked="" type="checkbox"/> S3050-NS	<input type="checkbox"/> VS
<input type="checkbox"/> S3100-NS	<input type="checkbox"/> VSC1.5

Option 2: Order as a pre-packaged system

- Order a pump with any switch already packaged in a single carton, ready for delivery
- To order a S3033 pump with a DFC2 controller, the part number is S3033-DFC2

Good, Better, Best Selection

Our philosophy is to provide a variety of primary, battery, backup, combination systems and controllers that offer different features and price points to meet the needs of our customers. This Good, Better, Best selection gives you the ultimate in flexibility and choice.

	Good	Better	Best
Primary Pumps	ST Series SR33-VS	S2 Series	S3 Series
Battery Backups	PHCC-1000	PHCC-1850	PHCC-2400
Combination Systems	PS-C11	PS-C22	PS-C33
Controllers/Switches	DFC1 VS TS	DFC1.5 VSC1.5 TSC1.5	DFC2 VSC2 TSC2

Warranty

To add value to our Pro Series products, warranties for the systems listed below are longer if they are purchased from and installed by a contractor.

System	Homeowner Installed	Contractor Installed
ST Series	18 Month	3 Year
S2 Series	3 Year	4 Year
S3 Series	3 Year	5 Year
PS-C33	3 Year	4 Year

Available from: