

Battery Backup Sump Pump Systems

Designed for the professional contractor

No AC sump pump will work when the AC power has failed. For added protection and peace of mind, install a PHCC Pro Series battery backup system. PHCC Pro Series backup systems have unique monitoring capabilities that sound an alarm when maintenance is needed, or when a problem arises. The PHCC-1850, PHCC-2400, PS-C22 and PS-C33 have the added ability to communicate with a PHCC Pro Series Connect WiFi Module or Home Automation Module, home security system, auto dialer 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.

PHCC Pro Series backup pumps protect against:

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



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 maintenance or maintenance free (AGM) batteries	•	•	•
• USB Data Port and Remote terminal to connect to the PHCC Pro Series WiFi Module or Home Automation Connection Module, home security system 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

PHCC Pro Series backup pumps offer:

- USB Data Port and Remote terminal connects to the PHCC Pro Series WiFi Module or Home Automation Connection Module, home security system or auto dialer (PHCC-1850, PHCC-2400, PS-C22, PS-C33)
- Powerful pumping capacity
- Monitoring of pump & battery conditions
- Compatibility with maintenance or maintenance free (AGM) batteries
- Runs the pump weekly to ensure proper operation (PHCC-1000, PHCC-1850, PHCC-2400, PS-C22, PS-C33)
- Ability to connect two batteries for extended run time (PHCC-1850, PHCC-2400, PS-C22, PS-C33)



Combination Primary and Backup Sump Pump Systems

The PHCC Pro Series, Pair of Pumps 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.

Available in three sizes:

- Model # PS-C33 - BEST Combination includes the S3033 primary pump, DFC1.5 Dual Float with Enhanced Controller and the PHCC-2400 backup pump system
- Model # PS-C22 - BETTER Combination includes the ST1033 primary pump, DFC1.5 Dual Float with Enhanced Controller and the PHCC-1850 backup pump system
- Model # PS-C11 - GOOD Combination includes the ST1033 primary pump, DFC1.5 Dual Float with Enhanced Controller and the PHCC-1000 backup pump system

	PS-C33		PS-C22		PS-C11	
Features	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
G/Wh @ 10'	N/A	6.3	N/A	6.1	N/A	6.1
Amps @ 10'	16 (DC)	4.0	10 (DC)	3.8	6.5 (DC)	3.8
Wt. (lbs.)	43 lbs		32 lbs		28.5 lbs	

Key features:

- Already assembled for easy installation
- Compact footprint fits neatly into most sump pits
- Dual float switches provide dependable activation for each pump
- Unique monitoring controller sounds an alarm if maintenance is needed
- USB Data Port and Remote terminal connects to the PHCC Pro Series WiFi Module or Home Automation Connection Module, home security system or auto dialer (PS-C22, PS-C33)
- Includes 2 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-C11, PS-C22)

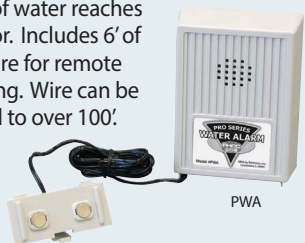


*When purchased from and installed by a contractor

Water Alarm

Minimize the risk of water damage with a PHCC Pro Series Water Alarm

Accidents happen... water heaters rust and leak, laundry tubs overflow, pipes break. You can detect leaks before they become bigger problems by placing a water alarm wherever there is a risk of water damage... in the utility room, laundry room, kitchen, bathroom or basement. The alarm will sound when as little as 1/32" of water reaches the sensor. Includes 6' of sensor wire for remote monitoring. Wire can be extended to over 100'.



PWA

Pro Series Standby Batteries

Why should you use a PHCC 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*



Pumping Time**	B-2200*	B-1000*	B12-90
PHCC-2400	50 Hours	Not recom'd	50 Hours
PHCC-1850	60 Hours	Not recom'd	60 Hours
PHCC-1000	100 Hours	50 Hours	100 Hours

Matching batteries run the pumps intermittently for days

Connect two batteries in parallel on the PHCC-1850, PHCC-2400, PS-C22 and PS-C33 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

Check Valves

Clunkless™ Check Valve

- Eliminate the loud "clunk" heard when the pump shuts off
- Universal fit for 1 1/4" and 1 1/2" pipe



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"



The Connected Pump

Remote Monitoring

Today's homeowners are looking to be connected and notified as to what is going on at home. PHCC Pro Series Pumps has the solution. A module that allows compatible primary or backup systems to connect via WiFi or Z-Wave Plus to a home security system, or other dry contact device, enabling the homeowner to receive a message when away from home - Providing peace of mind.

PHCC Pro Series offers 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 or Home Automation module with a USB cable. 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 maintenance is needed.

The Remote terminal allows the capable Pro Series Pump to connect to a home security system, auto-dialer or other dry-contact device, enabling the homeowner to receive a message away from home. It also allows older Pro Series models to connect to the Pro Series WiFi or Home Automation module using dry-contacts. The module then connects to the home's Wi-Fi router or hub enabling the homeowner to receive a text or e-mail stating that an alarm has occurred.

For more information: www.StopFlooding.com/connected

PHCC Pro Series Compatibility

PHCC Pro Series CONNECT pumps, backup and combo systems, and systems with the remote terminals:

Backup Systems	Combo Systems	Primary Pump Switch
• PHCC 1730	• PS-C22	• DFC2
• PHCC 1850	• PS-C33	• VSC2
• PHCC 2400		• DVSA

Option #1

PHCC Pro Series Wi-Fi Module

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



Option #2

PHCC Pro Series Home Automation Connection Module

- Easily connects to compatible monitored security or home automation system
- Connects with the latest advancements in Z-Wave technology, providing for faster operation, better RF coverage and easier installation



Option #3

Home security system or Auto-dialer

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



... Exceeding Expectations



Energy Efficient AC Pumps

Battery Backup Sump Pumps

Combination Pumps

Sewage Pumps

Innovative Switch Technologies

Water Alarms

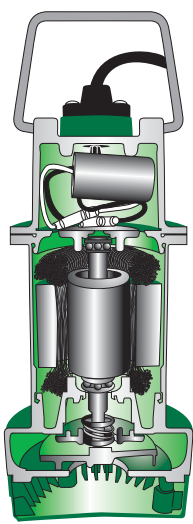
Batteries

Pro Series Primary and Sewage Pumps

The PHCC 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. Fewer amps means less electricity used, reducing homeowner's costs.

By combining an energy efficient PHCC Pro Series sump pump with our Deluxe Controller (DFC2 or VSC2) 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 PHCC WiFi Module, PHCC Home Automation Module, a home security system or auto dialer and stay connected when away from home.

PHCC Pro Series Pumps are industrial grade and built for the residential market. We back this up by offering 1-1/2 year, 3-year, 4-year and 5-year warranties.



- Continuous duty rated (ST Series, S3 Series, S5 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, S5 and E7 Series)
- Thermally protected
- Removable strainer (SR, ST, S3, and S5 Series)
- 20' power cords on S3050, S3100 and S5 Series; 10' power cord on SR33-VS, ST Series, S3033 and E7 Series
- Dynamically balanced cast iron impeller (S3100, S5 Series and E7 Series), engineered polymer impeller (ST Series), polycarbonate impeller (SR33-VS, S3033, S3050)
- Stainless steel fasteners won't rust

Primary Sump Pumps

Sewage Pumps



Features	SR33-VS	ST1033	ST1050	S3033	S3050	S3100	S5033	S5050	E7040	E7055	E7105
Motor HP	1/3 HP	1/3 HP	1/2 HP	1/3 HP	1/2 HP	1 HP	1/3 HP	1/2 HP	4/10 HP	1/2 HP	1 HP
GPM @ 10' **	47	46.1	72	50	65	92	59	83	74	89	100
GPH @ 10' **	2820	2770	4320	3000	3900	5520	3540	4980	4440	5340	6000
G/Wh @ 10'	7.1	6.1	7.5	6.3	7.6	4.0	7.4	6.1	5.9	6.4	4.8
Max head	24'	29'	32'	30'	33'	52'	26'	36'	22'	23'	32'
Discharge	1-1/2"	1-1/2"	2"	1-1/2"	2"	2"	1-1/2"	2"	2"	2"	2"
Amps @ 10'	3.3	3.8	4.8	4.0	4.3	11.5	4.0	6.8	6.3	7.0	10.5
Wt. (lbs.)	12	17	28	20	24	46	33	40	36	37	40
Solids									2"	2"	2"

* When purchased from and installed by a contractor
** All capacities updated as of 5-2015
*** Based on an average pump run time of five minutes per hour for one year. S3033 uses 4 Amps @ 10'. The estimated industry average of 1/3 HP shaded pole motor pumps is 9.5 amps. Average electric cost per kilowatt-hour is \$0.12.

Energy efficient: The PHCC Pro Series pumps use substantially fewer amps than pumps from other manufacturers. That means they are considerably less expensive for a homeowner to operate. The average cost savings earned when using a PHCC Pro Series S3033 1/3 HP sump pump is \$55.41 per year ***



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

Dual Float Switch

- Included with the DFC1, DFC1.5 and DFC2
- Two micro reed activated floats for added reliability
- Protective cage prevents debris from interfering with floats
- Dual Float Switch can be unplugged from controller for easy installation (DFC1.5 & DFC2)
- Activation level is adjustable
- Mounts to discharge pipe with included hardware



Vertical Float Switch

- Can be used in clear water and sewage applications
- Two versions of vertical switches:
 - Piggy-back plug (120 VAC) version - no controller
 - Low voltage version included with VSC1.5 Enhanced and VSC2 Deluxe controllers
- The internal switching mechanism has sealed gold contacts for reliable high cycle operation (VSC1.5 and VSC2)
- Float switch can be unplugged from the controller for easy installation (VSC1.5 and VSC2)
- Mounts to discharge pipe with included hardware



Dual Float Switch Options

DFC1



- Standard Controller (DFC1)**
- 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

Vertical Switch Options

Vertical Switch (VS)

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



DFC1.5



Enhanced Controller (DFC1.5 and VSC1.5)

- Available with Dual Float Switch or low voltage Vertical Switch
- Adjustable run time from 5-45 seconds after the float drops
- Activates pump weekly to exercise, extending pump life
- System operating light
- Universal mounting tabs
- 2' power cord

VSC1.5



DFC2



Deluxe Controller (DFC2 and VSC2)

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

- Sounds an alarm and alerts when
 - 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 to connect to the PHCC Pro Series Connect WiFi Module or Home Automation Connection Module, home security system or auto dialer
- OPTIONAL High Water Accessory (PS-WS) will sound an alarm when the water has reached the high water sensor
- 4' power cord

VSC2



Pre-assembled Sewage Pit

Packaged Systems

Glentronics is excited to introduce the all new Pre-assembled Sewage Package System. Our packaged systems are completely assembled for easy installation. Choose from a 4/10 or 1/2 HP Ejector pump along with 4 float switch options. A great labor and cost savings!

- Pump rests in a formed mold which prevents torquing
- Includes pit cover and all gaskets
- Easy to install
- 4 float switch options



Mix and Match

Sewage Pump

- ☐ EP7040 (4/10 HP)
- ☐ EP7055 (1/2 HP)

Switch

- ☐ TS
- ☐ VS
- ☐ VSC1.5
- ☐ VSC2

Packaging:

- 18" x 30" systems are shipped four units to a skid
- All units are secured with a 2" PVC discharge pipe in the basins and all system bases rest in a formed mold preventing torquing and shipping damage to the pump

Pump Alternator (DVSA)

The Pump Alternator Control and Alarm System is ideal for those wishing to maintain two primary pumps in the same pit. The Alternator lengthens the life of both pumps by alternating their usage.



- Prolongs pump life by alternating two primary pumps, running one at a time
- If one pump fails the other pump will take over and an audible alarm will sound

- Remote terminal allows the unit to connect to the PHCC Pro Series WiFi Module, PHCC Pro Series Home Automation Connection Module, home security system or auto dialer (PS-C22, PS-C33)

- Includes two vertical float switches which can be unplugged from the Alternator for easy installation
- Angled receptacles to accept a standard or right angled pump plugs
- 9V battery back-up for "High Water Alarm" alarm
- Designed to run on a standard 15 amp, 120 v circuit

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)

- ☐ ST1033-NS
- ☐ ST1050-NS
- ☒ S3033-NS
- ☐ S3050-NS
- ☐ S3100-NS
- ☐ S5033-NS
- ☐ S5050-NS
- ☐ E7040-NS
- ☐ E7055-NS
- ☐ E7105-NS

Switch

- ☒ DFC1
- ☒ DFC1.5
- ☐ DFC2
- ☐ VS
- ☐ VSC1.5
- ☐ VSC2

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	S3 Series	S5 Series
Battery Backups	PHCC-1000	PHCC-1850	PHCC-2400
Combination Systems	PS-C11	PS-C22	PS-C33
Controllers/Switches	DFC1 VS	DFC1.5 VSC1.5	DFC2 VSC2

Warranty

To add value to our PHCC 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
S3 Series	3 Year	4 Year
PS-C33	3 Year	4 Year

Available from: