

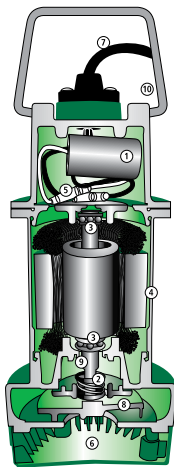
Pro Series Primary Pumps

All PHCC Pro Series primary pumps feature 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 and reducing CO2 emissions that pollute our air.

And we're backing that up with the introduction of Gallons per Watt hour (G/Wh). Simply stated G/Wh calculates how many gallons of water are pumped using one watt of electricity.

With this new calculation, PHCC Pro Series pumps are blowing other pumps out of the water – with most models pumping 3 times more water using the same amount of electricity!

Our full line of PHCC Pro Series AC pumps are built to run continuously 24 hours a day, seven days a week, 365 days a year. They're strong and dependable, and when they are used intermittently in a sump application, it extends the life of the pump. We back this up by offering 1 ½-year, 3-year and 5-year warranties when the pumps are used in intermittent applications. A one-year warranty is available when used in continuous duty applications such as fountains or ponds. All pumps are 115V, 60Hz.



- 1 Efficient permanent split capacitor motor (PSC)
- 2 Double or triple seals depending on model
- 3 Upper and lower ball bearings
- 4 Water-cooled (no oil)
- 5 Thermally protected
- 6 Removable strainer
- 7 20' power cords (10' on ST Series and S3033)
- 8 Dynamically balanced cast iron impeller
Fiber polycarbonate impeller (ST Series, S3033 & S3050)
- 9 Stainless steel shaft
- 10 Stainless steel fasteners –won't rust



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**

**Based on an average pump run time of five minutes per hour for one year. S3033 uses 4 Amps @ 10'. The estimated industry average is 9.5 amps. Average electric cost per kilowatt-hour is \$0.12.

ST Series Sump Pumps

Include dual float switch and standard controller (DFC1)

Features	Model ST1033	Model ST1050
Motor HP	1/3 HP	1/2 HP
GPM @ 10'*	46.1	60.5
GPH @ 10'*	2770	3630
G/Wh @ 10'	6.1	6.3
Max head	31'	36'
Discharge	1-1/2"	2"
Amps @ 10'	3.8	4.8
Wt. (lbs.)	17	28



1 1/2
year
warranty

S3 Series Sump Pumps

Include dual float switch and deluxe controller (DFC2)

Features	Model S3033	Model S3050	Model S3100
Motor HP	1/3 HP	1/2 HP	1 HP
GPM @ 10'*	50	65	92
GPH @ 10'*	3000	3900	5520
G/Wh @ 10'	6.3	7.6	4.0
Max head	30'	33'	52'
Discharge	1-1/2"	2"	2"
Amps @ 10'	4	4.3	11.5
Wt. (lbs.)	20	24	46



3
year
warranty

S5 Series Sump Pumps

Include dual float switch and deluxe controller (DFC2)

Features	Model S5033	Model S5050
Motor HP	1/3 HP	1/2 HP
GPM @ 10'*	59	83
GPH @ 10'*	3540	4980
G/Wh @ 10'	7.4	6.1
Max head	26'	36'
Discharge	1-1/2"	2"
Amps @ 10'	4	6.8
Wt. (lbs.)	33	40



5
year
warranty

E7 Series Sewage Pumps

Available with Ultimate Controller (USC3) or vertical float switch

Features	Model E7055	Model E7100
Motor HP	1/2 HP	1 HP
GPM @ 10'*	78	114
GPH @ 10'*	4680	6840
G/Wh @ 10'	5.3	4.5
Max head	23'	34'
Discharge	2"	2"
Amps @ 10'	7.3	12.8
Wt. (lbs.)	36	49
Solids	2"	2"
Solids w/strainer	N/A	1/2"



3
year
warranty

*All capacities updated as of 8-08

It's All About the Switch

Until now there have been three varieties of float switches:

- Vertical
- Tethered
- Pressure

Unfortunately, all three of these switches are subject to various forms of failure.

PHCC Pro Series has eliminated these potential failures with two types of float / sensor technologies, the Ultimate Sensor and the Dual Micro Reed Float Switch. With either of these technologies you are protected.

Ultimate Sensor

- No moving parts
- Imbedded computer monitors any material buildup on sensor rod and keeps on working
- Designed for use in sump and sewage pits
- Reliable, proven and patented technology used in many industries
- Senses water level regardless of how fast or slow the sump pit fills
- Sensor sends "Heartbeat" signal to controller. If the sensor is unplugged an alarm will activate
- Sensor can be unplugged from controller for easy installation, activation level is adjustable
- 316 grade stainless steel sensor rod will not corrode
- Mounts to discharge pipe with included hardware

Dual Float Switch

- Two micro reed activated floats for added reliability
- Protective cage prevents debris from interfering with floats
- Easy installation, activation level is adjustable
- Mounts to discharge pipe with included hardware

Patented

State-of-the-art Monitoring

Ultimate Controller (USC3) and Deluxe Controller (DFC2)

The Ultimate and Deluxe controllers both monitor pump and power conditions and sound an alarm when problems are detected. The Ultimate Controller (USC3) includes the Ultimate Sensor while the Deluxe Controller (DFC2) includes the Dual Float switch. See pump section for list of which controller comes with each pump.



Ultimate and Deluxe Controllers

- Sound an alarm and alerts when:
 - AC power has failed
 - Pump or float problem is detected
 - 9v battery is low or slide switch is off
- Include export terminals for connecting to a remote dialer or home security system
- Adjustable run time from 5-45 seconds after the water level falls below the sensor or the float drops (coming soon to DFC2)
- Activates pump weekly to exercise, extending pump life (coming soon to DFC2)

Ultimate Controller Only (USC3)

- Additional light and alarm if sensor is not detected
- Uses Triac technology for high cycle applications

Standard Controller (DFC1)

Activates the pump when water raises either float. Once float returns to original position the pump runs for an additional 10 seconds to completely empty the sump pit.



Controllers are also available separately

All controllers may be purchased separately for use with other brands of pumps (up to 12 amps).



... Exceeding Expectations



Energy Efficient
AC Pumps

Battery Backup
Sump Pumps

Combination Pumps

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Technologies

Batteries

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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 battery backup system, as well as an AC pump. The PHCC Pro Series backup systems have unique monitoring systems that sound an alarm when maintenance is needed, or when a problem arises. After all, a backup system with a dead battery, loose cables, or a clogged pump is like having no backup at all. The PHCC Pro Series backup pumps monitor all these functions and remind the homeowner when attention is needed. Easy to follow instructions are found on the front panel of the controllers to make the proper adjustments.

Which one is right for you?
Consider pumping capacity, charger strength, monitoring features and pump runtime.



Features	2400	1730	1000
POWERFUL			
Pumping capacity (in gallons per hour @ 10-ft. height)	2400 GPH	1730 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	•	•	•
Automatically tests the pump weekly	•	•	•
VERSATILE			
Pumps on AC power as well as battery power	•	•	•
Designed for use with maintenance or maintenance free batteries	•	•	•
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 protect against:

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

All PHCC Pro Series backup pumps offer:

- Automatic operation and charging
- Monitoring of battery and pump conditions
- Monitoring of the battery fluid level
- Adjustable dual float switch

Easy to install:
The compact pump fits beside the AC pump in wide sump pits, or stacks above the AC pump in narrow pits.

Combination Primary and Backup Sump Pump Systems

The new PHCC Pro Series, Pair of Pumps combination systems, offers total peace of mind by coupling 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
 - Unique monitoring controller sounds an alarm if maintenance is needed
 - Includes 2 check valves and appropriate PVC pipe
 - Includes battery box (battery sold separately)
 - Includes the Sump Foot
 - 3-year warranty

The PHCC Pro Series Pair of Pumps systems
Is available in 3 progressively larger sizes.

- Model # PS-C33 - LARGE Combination includes the S3033 primary pump, DFC1 Dual Float with Controller and the PHCC 2400 backup pump system
- Model # PS-C22 - MEDIUM Combination includes the ST1033 primary pump, DFC1 Dual Float with Controller and the PHCC 1730 backup pump system
- Model # PS-C11 - SMALL Combination includes the ST1033 primary pump, DFC1 Dual Float with Controller and the PHCC 1000 backup pump system

Included with the pair of pumps is the new PHCC Pro Series Sump Foot. This rigid base provides a platform for both pumps, keeping them elevated and away from pit debris. This base is also available separately for use with most primary or backup pumps.



Pair of Pumps System PS-C33
Includes S3033 primary pump and PHCC-2400 backup pump

Features	Backup Pump	Primary Pump
Model #	PHCC-2400	S3033
GPM @ 10'	40	50
GPH @ 10'	2400	3000
G/Wh @ 10'	N/A	6.3
Amps @ 10'	9 (DC amps)	4.0
Wt. (lbs.)	43 lbs	

PHCC-2400 has a remote terminal for connection to security system or phone dialer.



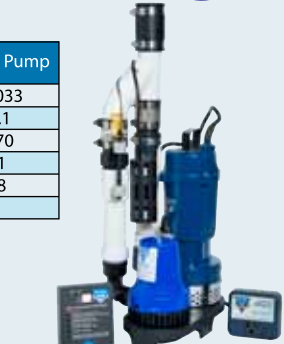
Pair of Pumps System PS-C22
Includes ST1033 primary pump and PHCC-1730 backup pump

Features	Backup Pump	Primary Pump
Model #	PHCC-1730	ST1033
GPM @ 10'	28.8	46.1
GPH @ 10'	1730	2770
G/Wh @ 10'	N/A	6.1
Amps @ 10'	10 (DC amps)	3.8
Wt. (lbs.)	32 lbs	



Pair of Pumps System PS-C11
Includes ST1033 primary pump and PHCC-1000 backup pump

Features	Backup Pump	Primary Pump
Model #	PHCC-1000	ST1033
GPM @ 10'	16.6	46.1
GPH @ 10'	1000	2770
G/Wh @ 10'	N/A	6.1
Amps @ 10'	6.5 (DC amps)	3.8
Wt. (lbs.)	28.5 lbs	



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
- Remain viable for more years... normally five to seven years**
- Accommodate the battery fluid sensor**



Pumping Time	B-2200*	B-1000*	B12-90
PHCC-2400	8 hours	Not recommended	6.5 hours
PHCC-1730	7.5 hours	Not recommended	Incompatible
PHCC-1000	12 hours	6 continuous hours	11 hours
Matching batteries run the pumps intermittently for days			

Connect two batteries in parallel on the PHCC-2400 for extended run time (parallel cables available separately)
*Acid sold separately ** Does not apply to B12-90



Klunkless™ Check Valve
Eliminate the loud “clunk” heard when the pump shuts off.
• Universal fit for 1 ¼” and 1 ½” pipe

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’.



Available at: