

Instruction Sheet

6 KW Basic Circulation Water Heater and Pump

Application:

The Basic Circulation Water Heater has been in use for nearly 50 years, and it is the most prevalent model in use by churches nationwide. These heaters feature rust resistant incoloy stainless steel heating elements, fiberglass insulated designs, and a 118°F high limit safety switch. They are designed for use with a 240V, single phase, GFCI protected circuit (GFCI not included, but is available). All heaters must be installed by licensed professionals.

The Basic Circulation of Water Heater is the best system for heating your baptistry water uniformly without having to manually stir the water.

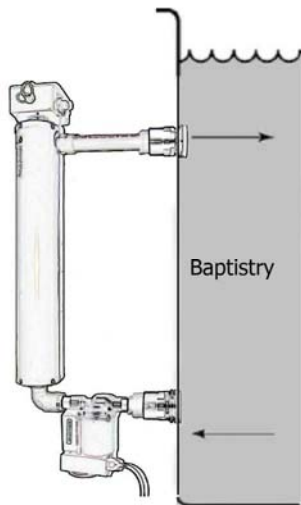
**Do not use chlorine, bleach or other highly acidic chemicals with this system. Use of these chemicals will cause rust and are not recommended as they will shorten the life span of heaters and will void your warranty.

Features:

Model	Voltage	Watts	Amps Drawn
CR6K-001	240	6000	25 amp

The 6 KW Basic Circulation Water Heater features an adjustable thermostat from 40° F to 107 °F. The pump is a 1/40 HP cartridge style pump, capable of circulating 600 GPH at 1 foot of head. The 6 KW systems will heat 100 gallons per hour to a 20 °F rise, so the average 500 gallon baptistry will need 10 hours to rise from 54 ° to 94° F. Temperature rise is affected by ambient room conditions. We recommend the use of a baptistry cover for maximum efficiency.

Diagram A



Pump Circulation System

WARNING: Do not plug in the pump until the Baptistry has been filled. The timer has been preset to the on position. Timer **MUST** remain in the ON position or the heater will burn up and this will void the warranty.



Circulation Pump

Caution:

Be certain heater and pump is turned off before draining Baptistry. Always fill Baptistry and turn on pump before turning the heater on. Dry operation will burn out heating element, and cause failure of the pump. These are not covered by warranty.

Items Included:

Before assembling please make sure you have all parts listed below. If parts are missing, please call or email us for replacements.

<u>Qty</u>	<u>Description</u>	<u>Part</u>
1	6kw Basic Circulation Heater	A
1	Circulation Pump – 120v	B
2	Sink Strainers	C
2	Gaskets	D
2	O Rings	E
1	Slip x male 90° Elbow	F
2	Reducer Bushings 1" x 3/4"	G
2	Spigot Plugs 1 1/2" x 1"	H
1	6 3/4" PVC pipe	I
2	Sch 80 Nipples 3/4" x 2"	J
1	Male Adaptor Reducing Plug	K
2	Tray Plug Adaptor 1 1/2"	L

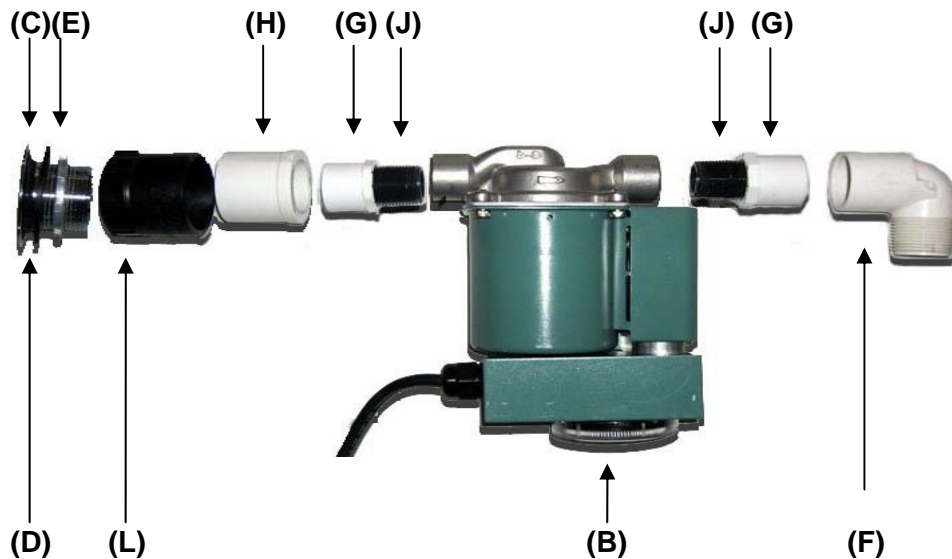
Installation:

Locate the most accessible place around the baptistery for installation. Drill a 2" diameter hole 4 1/2" up from the baptistery floor. Smooth the hole and install the chrome faced inlet flush port, by loosening at the slip joint nut. Apply clear RTV sealant under the chrome flange. Remove any outside insulation so the port rubber gasket fits against the outside of the fiberglass wall. Measure and mark the center to center distance exactly between the inlet and outlet fittings. Locate and drill the 2" hole for the top port using the same method as above.

Inlet Assembly (Pump):

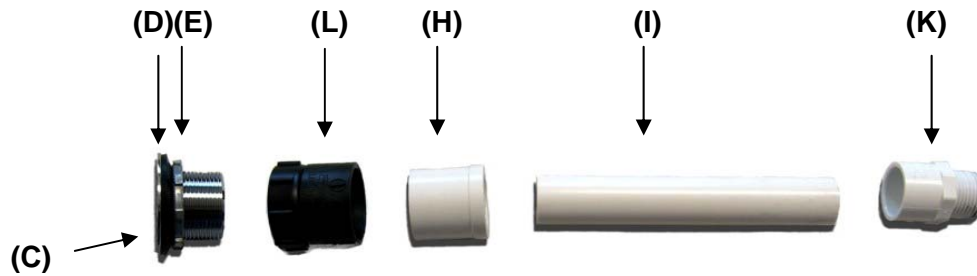
1. Screw in one of the SCH 80 Nipple (**part J**) into the Reducer Bushing (**part G**). Repeat this step to create another section.
2. Connect one section from (**step 1**) into the smooth side of the elbow (**part F**).
3. Screw in the combined sections from (**step 2**) into the left side of the pump opposite the electric cord.
4. Connect the second section from (**step 1**) into the spigot plug (**part H**) and push the bushing end into the tray plug adaptor (**part L**).
5. Place the sink strainer (**part C**) into the bottom precut 2" hole of the baptistery. Add the gasket and tighten with the o-ring (**part E**).
6. Screw the combined section into the side of the pump nearest the electric cord.
7. Screw the elbow section (**part F**) into the bottom inlet of the heater as shown in (**diagram A**) below.

**** ALL PARTS SHOULD BE JOINED WITH "THREAD SEAL" PIPE TAPE, PURPLE PRIMER AND PVC CEMENT WHICH IS USED IN PLUMBING COMPONENTS AS REQUIRED.**



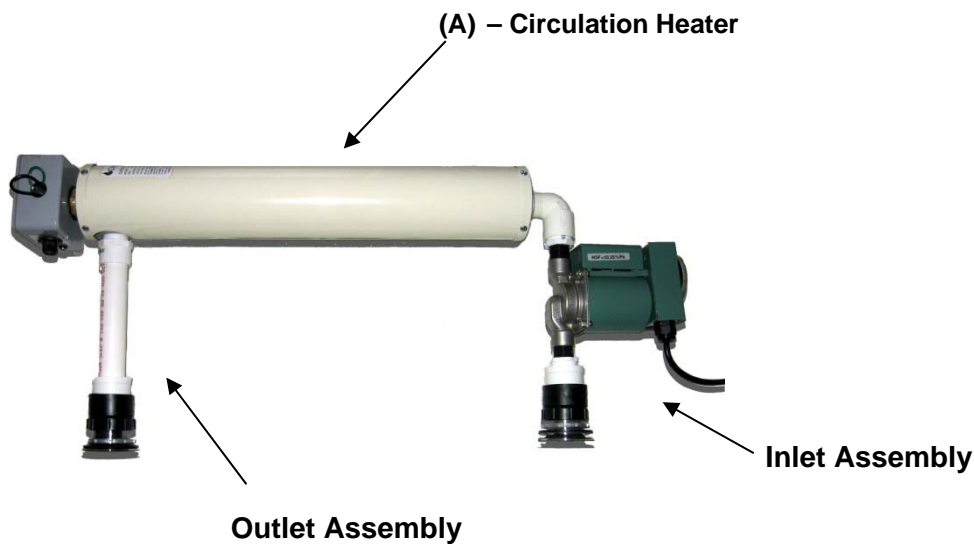
Outlet Assembly:

1. Place the sink strainer (**part C**) into the bottom precut hole of the baptistery. Add the gasket and tighten with the o-ring (**part E**).
2. Screw the tray plug adaptor (**part L**) into the sink strainer assembly (**part 1**).
3. Push the spigot plug (**part H**) into the open end of the tray plug adaptor (**part L**).
4. Connect the PVC pipe (**part I**) into the spigot plug (**part H**).
5. Connect the male adaptor reducing plug into the other end of the PVC pipe (**part I**).
6. Screw the combined section into the upper outlet of the heater as shown in (**diagram A**) below.



Attach the completed heater and pump assembly onto the drilled ports.

WARNING: Place a block under the heater and pump assembly to support the weight. This will help to prevent leakage at the baptistery wall fittings.



WARRANTY: This heater system comes with a 1 year warranty for manufacturer's defects. Any alteration to the heater or pump system could result in the warranty being voided. Please contact us if you have any questions.

Web site: www.churchrite.com
Email: mail@churchrite.com

Wiring Diagram for the 6 KW Circulation Baptistry Heater

