



Wood Stove Pools

Direct Fired Pool Heaters

INSTALLATION, OPERATION & SERVICE PROCEDURES

MODELS:

WSP SILVERDOME

WSP MEGADOME

PIZZA SILVERDOME

PIZZA MEGADOME



SILVERDOME



PIZZA
SILVERDOME



MEGADOME



PIZZA
MEGADOME

*Patent Pending

Unit must be used outdoors

Proudly Manufactured In
Canada 

www.woodstovepools.com

BEFORE STARTING YOUR FIRST FIRE PLEASE READ

1. HAVE YOU READ PAGE # 3 & 4 OF THE MANUAL? PLEASE CAREFULLY READ AND FOLLOW INSTRUCTIONS FOR PROPER SET-UP.
2. Have you installed your by-pass kit?
3. Have you grounded your stove?
4. Customers using Chlorinators (Salt or chlorine-inline or off line). Have you installed a CORROSION-RESISTANT check valve between our stove and your chlorinator to keep the chlorinator from sending corrosive gasses and liquids into the heater. This can quickly destroy the heat exchanger. Warranty VOID if not installed. You should also install a Sacrificial Zinc Anode on all salt water pools.
5. Have you installed the PVC drain plug on the inlet side of your stove?
6. Slowly allow the water into the stove whenever the stove is empty
7. When adding Salt or Chlorine to your pool, it is extremely important that you Open your by-pass and close the inlet and outlet ball valves to ensure the high concentration of salt or chlorine is not running through the stove.
8. Never have a fire without water running through the stove.
9. The first three (3) fires are small curing fires.
10. On the Silverdome & Megadome stoves the Inlet is the lowest 1 ½” PVC and the outlet is the highest 1 ½” PVC.
11. On the Pizza Silverdome & Pizza Megadome the inlet is the highest 1 ½” PVC and the outlet is the lowest 1 ½” PVC
12. Throttle back the inlet ball valve to determine your sweet spot. The Two O'clock position on the ball valve seems to work well
13. Drain your stove if sitting for more then 3-4 days; using the PVC drain plug, which is to be installed on the inlet side after your by-pass. You will also need to open the brass drain plug on the bottom left of the stove (back of stove when standing behind stove).
14. For those customers with **variable speed pumps**, you must override the program of your pump when heating. If the water flow slows down too much it can result in melting of the PVC on the outlet of the stove. Around 2800 to 3000 RPM's is a the ideal speed.

The above important points must be followed in order for your stove to be part of our warranty program.

Section 1. General Information

Location of heater:

Locate the heater in an area where a leaking heat exchanger or connection leak will not result in damage to the area adjacent to the heater or structure. **The heater must be installed at least 5-6 feet from the wall of an above ground pool or other combustible structures. WOOD STOVE POOL HEATER IS FOR OUTDOOR USE ONLY.**

Water Piping:

This heater is designed for use with pool and spa hot tub water only. The warranty does not cover heater use with mineral water, sea salt or other non-potable waters. Do not install any restriction in the water pipe between heater outlet and pool/spa with the exception of a three-way by-pass. Blockage of water flow from heater return to pool may result in fire or explosion causing property damage, personal injury or loss of life.

Condensation:

Condensation will occur on NEW POOL HEATERS until the pool water is approximately 72 degrees F; this is Science! Once your water warms up and the stove becomes accustom to the fire the condensation will slow to a stop. Our patent pending engineered construction design allows any condensation to escape out the back or sides of the stove ensuring the fire box remains dry at all times. Please understand you will see water coming off the back and sides of your stove until your pool temp is over 72 degree F. You may need to control the flow of water (slow it down) using your by-pass at the beginning of the season to decrease condensation, as indicated above once the stove has been used a few times and the water increases in temperature, the condensation will stop. **No, your stove is not leaking!**

Curing of the stove: (Water must be running through the stove)

To comply with the warranty and to ensure your stove has a long life expectancy it is recommended that you follow the curing instructions below

1. Open dampers and door (ash pan if needed). Crumple single sheets of newspaper into small loose balls and fill the bed of the stove with the crumpled balls.
2. Add small pieces of kindling (very dry small pieces of wood, twigs, etc. No leaves, or pine needles) on top of the newspaper balls.
3. Light the paper balls with a match. **DO NOT USE FLAMMABLE AGENTS SUCH AS GASOLINE OR KEROSENE** to ignite the paper balls.

4. Once the paper balls and kindling are established, add 2 small 1” to 3” logs to the fire.

5. Once the logs are established, close the stove door and allow the fire to burn out completely.

Let the stove cool down **entirely**, then repeat steps one through six **THREE** times, **always allowing the stove to cool completely between repeats.**

PLEASE NOTE: The natural properties of stainless steel cause the steel to expand and contract when heated. You may hear some popping sounds which is the stainless steel contracting especially when water is first put into the system. This is normal and does not pose a safety hazard or damage the stove. It is highly recommended that you slowly allow the water to enter the stove by controlling the by-pass valve on the inlet until the water has filled the water jackets. Once the water jackets are full you can open the valve to allow full flow through the stove. Make sure the outlet valve is open. NEVER TRAP THE WATER INSIDE THE STOVE WHEN HAVING A FIRE. Over time the stainless Steel will also blacken; this is also a natural property of stainless steel when heated. The entire stove is insulated, but excessive heat will still cause staining over time. The staining of the stainless steel is not covered under our limited warranty program.

Section 2. Installation

ASSEMBLY: DO IT YOURSELF! Inside the stove, you will find a 24" stack for the **Silverdome & Megadome** and 48" for the **Pizza Silverdome & Pizza Megadome** and an elbow for all stoves. The **Pizza Silverdome & Pizza Megadome** will also be supplied with a pizza oven chimney and rain cap. Install the non-crimped end of the elbow on the stove. It's recommended you position a stack thermometer approximately 18" up the pipe (not included). Please note the outside environment will alter the reading on the stack thermometer. As per proper burning techniques do not burn outside of the burn zone as indicated on the stack thermometer as this could cause excessive warping of the stainless steel, beyond its natural warping properties. You will also find in place on the back of the stove three (3) 1/4" brass plugs for the drain holes for the **Silverdome & Megadome**, two (2) 1.5" white PVC pool line connectors, three (3) ball valves, two (2) PVC Tee's and one (1) PVC drain (inside the stove during shipping See page 9 for hook-up diagram) complete with all stoves. It is recommended that you use some type of sealant on the plugs and connectors (e.g. plumber's tape).

The installation of all WSP Wood Burning Pool Heaters involves a simple inlet hook-up and an outlet hook-up; the hook ups are 1.5" schedule 40 PVC Pipe "Glue type Fittings". Set your stove in the desired location. Determine the amount of 1.5" Pool Line. Cut into the pool's return line after it leaves the filter and run pool line to Inlet position **Silverdome & Megadome inlet is on the RIGHT SIDE when looking at back of stove in. The inlet for the Pizza Silverdome & Pizza Megadome is the TOP 1.5" connector.**

For the Pizza Silverdome & Pizza Megadome: Once you have your stove in place remove the door to the oven. Inside you will see a layer of firebricks. You need to remove one (1) of the firebricks, which was put in place for shipping purposes only. The firebrick is located in the middle row on the far left side of the oven. Once you remove that brick you will see a cut-out in the floor of the oven. The cut-out has 3 purposes.

1. Allows the oven to heat up, using the heat from the fire in the firebox.
2. Acts as a secondary chimney, this is very importance in the spring and fall when condensation is present.
3. Allows you to easily clean the oven, by sweeping any ash through the cut-out, down into the main firebox



If you have a salt or chlorine chlorinator our stove needs to be installed before the chlorinator. The chlorinator is the last thing before the water goes back into the pool.

It is mandatory for your stove to be under warranty that you install a Corrosion-Resistant Check Valve in the following situations:

- **If using a salt pool, you MUST have a Corrosion-Resistant check valve in-between your salt chlorinator and our pool heater. Salt Chlorinators are the last piece of equipment before the water enters back into the pool. SPEAK WITH YOUR LOCAL POOL STORE TO PURCHASE**
- **Install a Corrosion-Resistant check valve in-between our stove and any type of chlorinator to prevent the chlorinator from sending corrosive gasses and liquids into the heater. This can quickly destroy the heat exchanger. SPEAK WITH YOUR LOCAL POOL STORES TO PURCHASE**
- **Install the 1.5" PVC by-pass that we have provided (see diagram 1 on page 9).**

PLEASE NOTE: The WSP Silverdome & Megadome will act as a chiller at night when not in use. It will cool your pool down, so don't let the water flow through your stove at night if you are not having a fire. When a fire is going this is not a problem.

PVC DRAIN: Supplied with the stove is a PVC drain. This drain is to be installed just before the inlet for the Silverdome & Megadome (right side when looking at back of stove) & on the bottom outlet for the Pizza Silverdome & Pizza Megadome. (See diagram 1 on page 9). The PVC drain is essential in keeping the longevity of your stove. If the PVC drain is not installed your warranty will be VOID. **THE PURPOSE** of the PVC drain is to easily allow you to drain the stove when **not in use for more than 1 day**. If water sits in your stove for more than 1 day it will turn Green just like your pool would turn green if it sat for 1 day in the sun without water circulation. For those using Salt Chlorinators this also eliminates salt sitting and bonding to the stainless steel. You simply undo the plug inside the PVC drain to drain the right side of the stove and undo the brass plug on the left side (bottom) of the stove to drain the left side of the stove.

Grounding your Stove: For the **Silversome & Megadome** you will find on one of the 2 back legs a grounding clip. On the **Pizza Silverdome & Pizza Megadome** you will use a hose clamp (not provided) to clamp your #8 copper wire (not provided) to either the inlet or outlet stainless steel coupling that we provided. This clip (Silverdome & Megadome) or clamp (Pizza Silverdome & Pizza Megadome) allows you to ground your Wood Burning Pool Heater. This is mandatory in order for your stove to be part of our warranty program. Any stove that is not grounded will result in a VOID warranty. Speak with your pool or electrical contractor on how to ground the stove to your pool pump. It is suggested you use #8 copper wire. **THIS IS VERY IMPORANT FOR ELECTRICAL SAFETY ALONG WITH LONGEVITY OF YOUR STOVE. IT ALLOWS THE SALT CHARGE TO DISSIPATE SO SALT DOES NOT PIT THE STAINLESS STEEL.**

Adding SALT or CHLORINE to your pool: When adding Salt or Chlorine to your pool at anytime, it is very important that you open the by-pass to ensure that the high concentration of Salt or Chlorine is not running through the stove. If you forget to do this, drain the stove immediately and flush with fresh water. You can do this by using the PVC drain plug. You will need to buy a fitting to fit your hose (not included with stove) that will thread into the PVC plug thread. Hook your garden hose to the stove (PVC drain), remove the ¼” brass plug on the bottom left of the stove), close the inlet and outlet ball valves. Turn on garden hose, let stove fill up and drain out the open drain plug on bottom left of stove. Suggest your run the hose for 5 minutes once the stove starts to drain.

WINTERIZE: Do not operate stove if the temperature falls below 5 degrees C. Remove drain plugs and inlet/ outlet from the back of the stove. Allow stove to fully drain to prevent damage to the heat exchanger during freezing weather. **Flushing the stove with your garden hose as mentioned above is good practice to keep the longevity of your stove.** Put drain plugs back onto the stove and plug the inlet and outlet. Cover the WSP Silver Dome or Megadome

Section 3. Consumer Operation & Maintenance

General: Do not operate the heater without water flowing through it.

Pool/ Spa water chemistry: The mineral content of swimming pool water increases daily due to addition of pool sanitizing chemicals and natural evaporation. Excess

minerals will deposit on pool walls, in the filtration system and in the heat exchanger tubes if the mineral content is too high. Changing pool water regularly and maintaining correct chemical balance in pool/ spa will keep the pool/ spa safe and sanitary, and will protect the stove and its warranty coverage. Purchase a good water test kit and check the following chemical levels frequently.

1. Min/ Max pH (7.2 – 7.8)
2. Chlorine (1.0 – 3.0 PPM)
3. Total Alkalinity (80 – 100 PPM)
4. Calcium Hardness (200 -400 PPM)

Heater Operation:

1. Make sure your pump is running and is flowing through the stove. Inspect your drain plugs and PVC connections on the stove to ensure they are not leaking before lighting a fire. If for any reason the water flow is interrupted (power outage, etc.) extinguish the fire immediately.
2. Light your fire (follow **Curing** instructions on page 2). Refer to our website for proper wood burning techniques www.woodstovepools.com
3. Draft Control: When first getting the fire started, open draft controls completely. You can even leave the door or ash pan ajar to get additional draft, if needed. Leave draft vents open until the temperature indicator on the chimney reads in the efficient range, at that point adjust draft control and add wood to keep the temperature in the efficient range. When operating in the efficient range, you should get a 3 to 9 degree temperature difference between water going into the heater versus water returning to the pool.
4. As per proper burning techniques do not burn outside of the burn zone as indicated on the stack thermometer as this could cause excessive warping of the stainless steel, beyond its natural warping properties. If damage occurs due to excessive heating this is not covered under our warranty.
5. When heating your pool, you should use a thermal pool cover or blanket to reduce the loss of heat generated, this is especially important at night. **Contact us at www.woodstovepools.com for the best pool blanket on the market.**

WARNING: Do not ingest alcohol or drugs during use or prior to using the pool heater. Ingestion of such intoxicants can cause drowsiness which can lead to unconsciousness and subsequently result in drowning.

Do not heat the pool water in excess of 102 degree F. A temperature of 100 Degree F is considered safe for a healthy adult. Hotter water increases the risk of hyperthermia. A special caution is suggested for younger children. Pregnant women beware! Soaking in water above 100 degree F can cause fetal damage.

Periodic Inspection:

Empty the ash pan drawer in between fires. Check the ash pan before each fire. Periodically check the venting system on the stove. The venting areas must never be obstructed in any way and minimum clearance must be observed to prevent restriction of combustion and ventilation air.

Keep the entire pool area clean and free of all debris, combustible materials, gasoline and other flammable vapours and liquids. Remove any leaves or paper from around the heater.

Do not store chlorine, other pool chemicals, or other corrosives in the vicinity of the heater.

WSP - Silverdome Direct Fired Pool Heater

CAUTION - WARNING

- FOR EXTERIOR RESIDENTIAL USE ONLY.
- MAKE SURE THE PUMP IS RUNNING & THERE IS A FLOW OF WATER GOING THROUGH WSP.
- NEVER USE LIQUID FLAMMABLE MATERIALS.
- DO NOT USE A LOG RACK.
- FRONT, BACK, BOTTOM BASE and CHIMNEY STACK WILL BE HOT - DO NOT TOUCH
- DO NOT LEAVE FIRE UNATTENDED.

www.woodstovepools.com

Section 4. Wood Stove Pools Limited Warranty & Return Policy

Wood Stove Pools Inc, wood burning pool heaters are covered by a one-year manufacturer's limited warranty. During this period, if there is an operational defect in the heater, report it to us at www.woodstovepools.com for further information. Pictures of the defect, via e-mail, will be required in some cases to determine appropriate action. If we determine the defect is caused by our manufacturing process, we will ship you a replacement part at no cost. Defects are highly unlikely in our product. Each heater is tested 3 ways and is 100% pressure tested to ensure no leaks before shipment. The one year limited warranty does not cover onsite warranty service or repair.

If a repair item is needed and not covered under warranty, then a replacement part can be purchased from www.woodstovepools.com and shipped to the customer.

If a heater is believed to be defective and not repairable at your house, it will need to be

returned to our factory for repair and testing. The customer is responsible for placing the wood heater onto a wood pallet, in front of their house, for pick up by our trucking company. Upon arrival, we will inspect the heater for damage and also make any necessary repairs to return the heater to original operating conditions*. If we determine the repairs were needed due to improper use, not covered under the limited warranty, the customer will be responsible for full shipping/ handling charges to and from our factory, in addition to repair costs. No product refunds will be issued for damaged heaters if the damage is not covered under warranty. You will be required to pay all shipping fees for the return of your heater. If you decline to pay shipping fees on the return of your heater, then it will stay at our manufacturing plant & become our property. If the repairs are needed due to a manufacture defect, the customer will not be responsible for any shipping/ handling charges and we will return the heater to the customer in fully restored condition or simply replace the heater with a new unit if needed. If we determine your heater is not performing up to standard operating conditions*, after we give it a full test fire for 3-4 hours, then you will be eligible for a full refund or brand new replacement at no cost.

Wood Stove Pools Inc. does not offer full refunds to customers who are simply unhappy with our product. We will work with you, in every way possible, to provide resources and knowledge to efficiently heat your swimming pool with our product. Our heaters are guaranteed to work and perform under the standard operating conditions*. It is impossible to burn a large hot fire in the heater and NOT be able to heat your water. Depending on many factors and conditions, it is possible to not heat up your entire swimming pool in a satisfactory manner. The fact that your pool is not heating up quickly, does not mean the wood heater is not performing as advertised.

Customer is responsible for the following regular scheduled maintenance items

1. Apply high temperature grease to the door hinges and bottom of ash pan (if needed); recommended spring/ fall.
2. Drain all water from heat exchanger/ water jacket before extended period of non-use.
(Specifically when closing the pool for winter or non-use during summer)

Limited Warranty Covers

1. Leak in stainless steel heat exchanger/ water jacket not caused by freezing or over heating.
2. Any defective portion of the heater that is imperative to proper operation.

Limited Warranty Does Not Cover

1. Warping and staining (blackening) of the stainless steel due to constant over heating/ cooling, in and around the firebox.
2. Melting of plastic inlet/ outlet coupling, due to non-sufficient water flow.
3. Broken/ cracked firebrick. (Not important to operation of heater)

5. Leak in stainless steel heat exchanger caused by corrosion due to poor water chemistry

***Standard Operating Conditions**

“Standard operating conditions” means the heater is working up to original advertised specifications. If your heater is returned, we will fire test it with cured/ seasoned dry split hard wood logs in 18-22 inch lengths for 3-4 hours. During this burn, we will monitor the incoming and outgoing water temperatures with our pete ports and digital thermometer set. If the outgoing water is 3-11 degrees Celsius warmer than the incoming water, then the heater is considered to be working under “advertised conditions”. If the customer is not achieving these results, it is not the fault of the wood heater, but more likely the type of wood and or conditions in which the customer is experiencing.

USE THIS FORM ONLY FOR MAKING A CLAIM



Wood Stove Pools Limited Warranty & Return Policy

Model No. _____

Purchaser's Name: _____

Installation Address: _____

City: _____ Province / State: _____ Postal / Zip: _____

Date of Purchase: _____ Telephone: _____

Date of Installation: _____

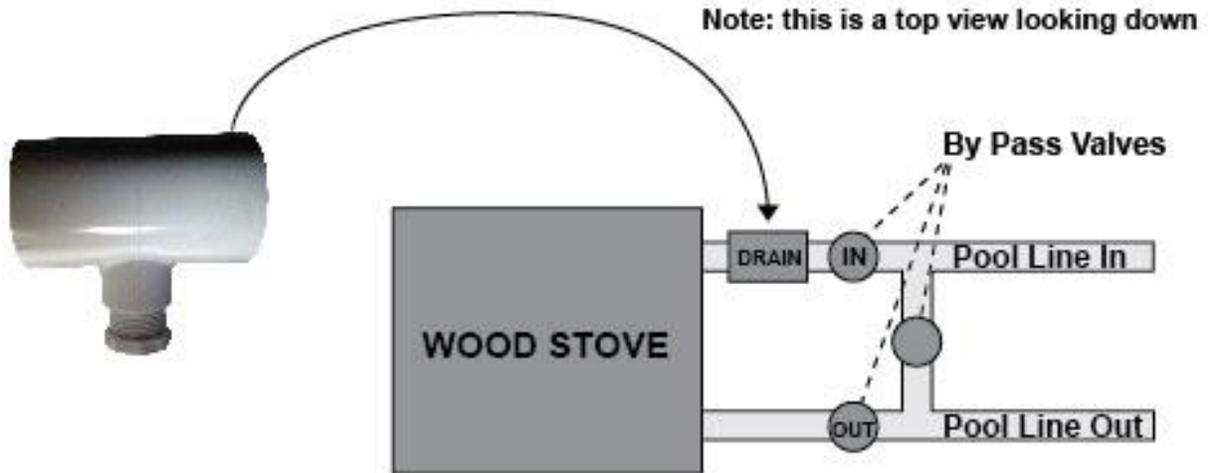
Serial No. _____

**Proudly Made In
CANADA!**

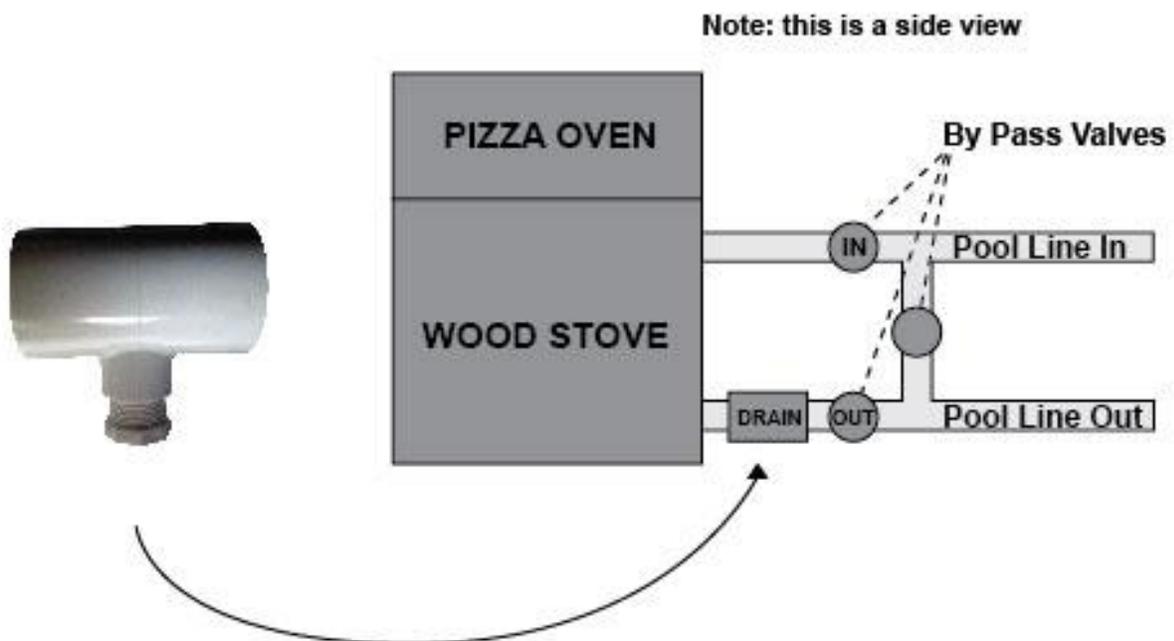


BY PASS VALVE HOOK-UP

BY PASS VALVE HOOK UP FOR SILVERDOME AND MEGADOME



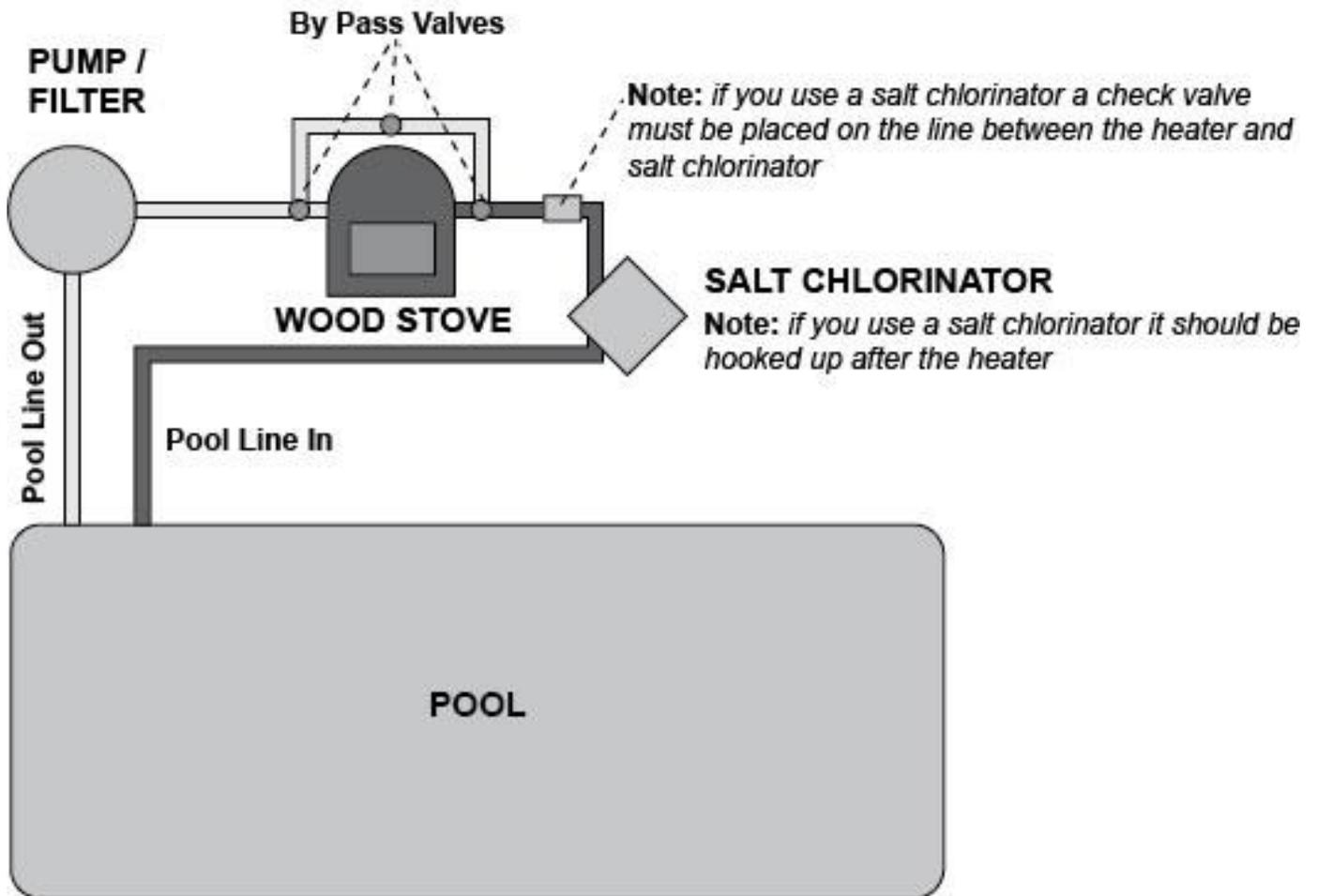
BY PASS VALVE HOOK UP FOR PIZZA SILVERDOME AND PIZZA MEGADOME





POOL HOOK-UP

FOR ALL MODELS



ADDENDUM – Silverbarrel (Mini)

SilverBarrel (Mini) Installation Manual

Please reference Page 1 & Sections 1 3, & 4 of the Main WSP Manual before installing and operating your Silverbarrel (Mini) pool heater

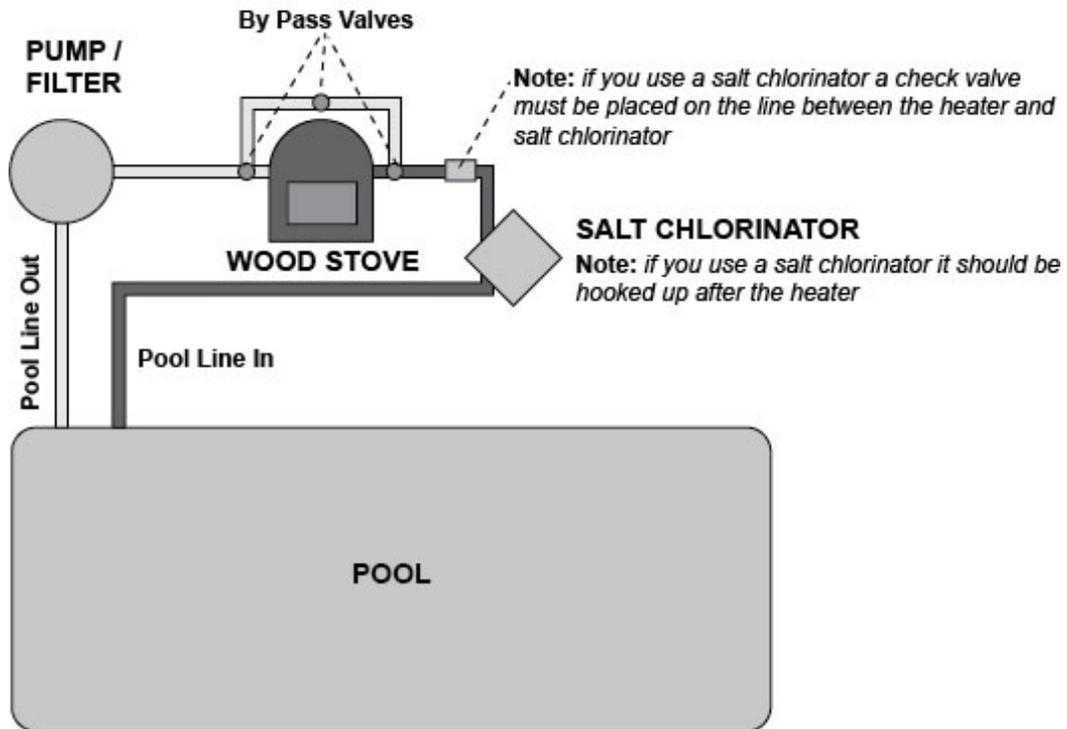
Refer to the Pool hook-up and by-pass installation diagrams below

1. The heater is to be installed after the pump and filter, but before any type of Chlorinator.
2. If you have a chlorinator as part of your pool set-up you must have a **Corrosive-Resistant check valve** after our stove and before your Chlorinator. **Purchase from your local pool store**
3. The pump must be running at all times when a fire is going
4. The inlet (water from the pool) is on the bottom of the stove – The outlet (water going to the pool) is on the top of the stove – The inlet and outlet are 1.5”
5. The by-pass is to be closed when heating the water so all the water flows through the stove (Centre ball valve closed inlet and outlet ball valves open).
6. **Depending on your pool set-up you may have to throttle down the inlet ball valve in order to ensure the best heat transfer, some pool systems will push the water too fast through the stove and may even damage (bubble) the exchanger if the flow is too fast.** When first starting the pump, ensure the inlet ball valve is throttled down to ensure your full flow, doesn't damage the heater.
7. When not using the stove for 3-4 days isolate the stove and drain the water using the PVC drain



POOL HOOK-UP

FOR ALL MODELS



BY PASS VALVE HOOK UP FOR SILVER BARREL (MINI)

