



P.O. Box 404, 221 Turnpike Road, Southborough, MA 01772, (508) 485-1307

CLOSING INSTRUCTIONS

IN-GROUND MC CARTHY POOLS: Do not drain any water from your pool for the winter

HALF IN/HALF OUT OF GROUND MC CARTHY POOLS: Drain water just below the skimmer and use 1 1/2" threaded PVC plugs for the main suction and return line fittings. Also, disconnect the union in front of the pump. If there is no union, disconnect the lines from the pump.

1. Closing chemicals and supplies.....	pg. 2
2. Gas and Electric Heaters.....	pg. 3
3. Filter preparation.....	pg. 4
4. Pump preparation.....	pg. 5
5. Automatic Chlorinators.....	pg. 6
6. Automatic Pool Cleaners.....	pg. 6
7. Preparation of Pool Fittings inside pool.....	pg. 6
8. Electrical Connections.....	pg. 7
9. Deck Equipment.....	pg. 7
10. Winter Covers and Watertubes.....	pg. 7
11. Storage of	
A. Chemicals.....	pg. 8
B. Solar Cover and Reels.....	pg. 8
12. Advice.....	pg. 8

1. POOL CLOSING CHEMICALS

Adding chemicals to the pool in the fall will reduce the amount of spring cleanup. We highly recommend the following chemicals to be used for the pool closing.

A. LIQUID SHOCK - 4 or more gallons are recommended. It is the safest way to super-chlorinate for the winter, without having to run the filter. Add SHOCK directly to the pool just before covering.

B. SEAGARD - One 1/2 gallon will treat 30,000 gallons of water. Seagard is a winter grade algaecide.

C. PUMP PROTECTOR- Use 1/2 to 1 can of this foam lubricant to help prevent corrosion and rust build up in all pool pumps by lubricating the shaft and the seal.

D. ANTIFREEZE - Non-toxic Antifreeze is used to prevent freeze damage to pool components. Should be used in pumps, cartridge filter bases, and heaters.

2. POOL CLOSING SUPPLIES

A. GIZMO - A GIZMO is designed to absorb ice expansion in skimmers. It is a green cylinder which screws into the open hole at the bottom of the skimmer.

B. WINTER PLUGS- Rubber expansion plugs that protect the pool from leakage through a wall fitting (outlet) or skimmer should a pipe or pipe fitting break during the winter. Threaded plugs are recommended for pools that have filters below the water level of the pool. We urge you to utilize this product. A #10 rubber plug or a 1 1/2" PVC threaded plug is recommended.

C. HYDROSEAT REMOVAL TOOL - A special tool designed to remove the threaded body of the hydrosweep (eyeball fitting) from the return wall outlet in the pool.

D. WATERTUBES - Long vinyl tubes that are filled with water and placed on top of the winter cover along the edges of the pool, in order to secure the cover.

E. WINTER COVER - Helps keep debris from entering the pool. Water builds up on top of the solid cover. A mesh cover allows water to seep through, but not debris.

F. WATER LUBE - Used to lubricate all o'rings, ladder sockets, and handrail sockets.

3. HEATER WINTERIZING

A. Teledyne Laars Heater Winterizing

1. Open all Petcocks on either side of heater cabinet
2. Remove all water drain plugs
3. Disconnect COPPER TUBING for the PRESSURE SWITCH which is located inside the front door cabinet
4. Shut OFF Gas Supply
5. For filters that have a multiport valve, pour a gallon of NON-TOXIC ANTIFREEZE into the pump housing as the filter is operating. Wait until the Antifreeze comes flushing out of the petcocks before shutting the system down. **NOTE: Sand Filters and Vertical D.E. filters should have multiport selector handles positioned on "RECIRC" when flushing the antifreeze through the heater. Some systems may require more than one gallon of ANTIFREEZE to completely flush the water out of the heater. DO NOT WRAP HEATER IN PLASTIC!**

B. RAYPAK RP2100 HEATER WINTERIZING

1. Turn off gas valve, manual gas valve, and electrical supply to the heater
2. Open drain plug located on the inlet/outlet header, (under water pipes)
3. Remove the heat exchanger inspection panel on the side opposite water piping to gain access to the drain plug on the return header
4. Open drain plug on the return header.
5. For heaters without union connectors on the inlet/outlet header - Disconnect compression fittings from the pressure switch and return header that connects to the 1/4" copper tube and allow the tube to drain
6. For filters that have a multiport valve, pour a gallon of NON-TOXIC ANTIFREEZE into the pump housing as the filter is operating. Wait until the Antifreeze comes flushing out of the petcocks before shutting the system down. **NOTE: Sand Filters and Vertical D.E. filters should have multiport selector handles positioned on "RECIRC" when flushing the antifreeze through the heater. Some systems may require more than one gallon of ANTIFREEZE to completely flush the water out of the heater. DO NOT WRAP HEATER IN PLASTIC!**

C. AEROTEMP HEAT PUMP WINTERIZING

1. Set the water temperature setting to OFF
2. Turn the pool heater breaker to OFF
3. Remove the zinc anode plug located on the water inlet piping of the unit (for units that have the plug) or for Ti units, remove the front panel and remove the plug on the heat exchanger
4. Disconnect water piping unions
5. Use an air compressor at the inlet water piping union to blow out any remaining water inside the heat exchanger
6. When all the water is out of the heat exchanger, reconnect the "inlet" water piping union and replace the plug.

7. For filters that have a multiport valve, pour a gallon of NON-TOXIC ANTIFREEZE into the pump housing as the filter is operating. Wait until the Antifreeze comes flushing out of the zinc anode plug and/or the "outlet" water piping union before shutting the system down. **NOTE: Sand Filters and Vertical D.E. filters should have multiport selector handles positioned on "RECIRC" when flushing the antifreeze through the heater. Some systems may require more than one gallon of ANTIFREEZE to completely flush the water out of the heater.**
8. Reconnect the "outlet" water piping union.

D. MYBLUEPOOL HEAT PUMP WINTERIZING

1. Shut off power to unit
2. Disconnect the pool piping to and from the unit
3. Use an air compressor at the inlet fitting to blow out any remaining water inside the heat exchanger
4. When all the water is out of the heat exchanger, reconnect the "inlet" water piping union
5. For filters that have a multiport valve, pour a gallon of NON-TOXIC ANTIFREEZE into the pump housing as the filter is operating. Wait until the Antifreeze comes flushing out of the "outlet" water piping union before shutting the system down. **NOTE: Sand Filters and Vertical D.E. filters should have multiport selector handles positioned on "RECIRC" when flushing the antifreeze through the heater. Some systems may require more than one gallon of ANTIFREEZE to completely flush the water out of the heater.**
6. Reconnect the "outlet" water piping union

If you have any questions regarding the proper winterization of your gas heater or electric heat pump, please call our SERVICE DEPARTMENT at (508) 485-6343. Your heater warranty does not cover winter freeze damage.

4. FILTER WINTERIZING

A. SAND FILTER:

1. To drain water, remove DRAIN PLUGS or DRAIN CAP on the bottom of the filter tank.
2. SAND FILTER MULTIPOINT VALVES:
 - A. TOP MOUNT VALVES
 - Open petcock/air relief valve if there is one located on valve
 - Remove Pressure Gauge
 - Open Backwash Gate Valve
 - Move Selector Handle to a raised portion, in-between positions.
 - B. SIDE MOUNT VALVES
 - Open petcock or air relief valve on top of filter

- tank if existing on tank
- Remove Pressure Gauge
- Open Backwash Gate Valve
- Move Selector Handle to a raised portion, in-between positions.
- Loosen the large connector nuts and disconnect the top and bottom pipe assembly from the filter tank. Leave piping disconnected for the winter. Lightly lubricate valve pipe o'rings with WATER LUBE.

- C. BACKWASH LINE:
- Make sure the backwash line is intact or that your discharge hose has been disconnected. The backwash gate valve remains open for the winter.

B. CARTRIDGE FILTERS:

1. STA-RITE CARTRIDGE FILTERS (1 cartridge element only)

- A. Open petcock or air relief valve
- B. Remove pressure gauge
- C. Remove tank top and cartridge element from inside
- D. Remove (2) 3/4" Black PVC Plugs from the Base. Store them in your pump basket for the winter.
- E. ANTIFREEZE: Non-toxic antifreeze should be added as extra protection against winter freeze damage.
- F. Reinstall the base o'ring and tank top and put base clamp back loosely.

2. SYSTEM III CARTRIDGE FILTERS (2 cartridge elements)

- A. Open air release valve on tank top
- B. Remove drain plug located on back of tank
- C. Disassemble filter; remove elements
- D. Soak elements in a solution of FILTER MAGIC and water, rinse, dry, & store off the floor in dry area.
- E. ANTIFREEZE: Non-toxic antifreeze should be added as extra protection against winter freeze damage after the pump has been winterized
 - 1) After the pump has been winterized, reinstall the drain plug in the filter tank
 - 2) Pour non-toxic antifreeze into the tank bottom
- F. Replace tank top on filter and insert clamps loosely

PLEASE NOTE: ALL cartridge elements should be hosed off, chemically cleaned, and allowed to dry before storing off the floor.

C. DIATOMACEOUS EARTH FILTERS

1. VERTICAL GRID D.E. FILTERS (Nautilus, Clearflo, Titian)

- A. Backwash filter.
- B. Remove Pressure gauge and open petcock or air relief valve
- C. Open backwash gate valve
- D. Put handle on the raised portion, in-between selector positions.
- E. Disconnect the top and bottom pipe assembly from filter tank by loosening the 2 large connector nuts. Lightly lubricate valve pipe o'rings with WATER LUBE.

PLEASE NOTE: ALL D.E. elements should be hosed off, chemically cleaned, and allowed to dry before storing off the floor.

4. PUMP WINTERIZATION

A. STA-RITE DURAGLAS PUMPS (Plastic Pumps)

1. Remove pump cover
2. Optional: Remove (2) 1/4" PVC Plugs on the bottom of the pump (One is underneath the pump housing)
3. Open MAIN and SKIMMER Gate Valves - leave open
4. NON-TOXIC ANTIFREEZE should be added to the pump as an extra protection against winter freeze damage. After pump has fully drained reinstall the pump plugs, and pour a gallon of non-toxic antifreeze into the pump housing while the pump is running. Turn the motor off when the Anti-Freeze bottle is empty. (If you have a heater/heat pump and a filter with a multiport valve, you have already completed this step).
5. Spray PUMP PROTECTOR into pump housing then turn on motor for 5 seconds to draw pump protector in towards motor components.
6. Turn off power
7. Remove the pump basket from the pump housing and empty any debris. Reinstall pump basket in pump housing and store any filter plugs in the pump basket for the winter (they can easily be misplaced)
8. Lubricate pump cover o'ring with WATER LUBE before reinstalling pump cover.

5. AUTOMATIC CHLORINATORS & SALT SYSTEMS

A. MYBLUEPOOL AUTO CHLOR CHLORINE GENERATOR

1. Disconnect the IN and OUT union nuts from the cell on the return line
2. Drain the cell completely.
3. Clean the cell in a solution of Muriatic Acid and water
4. Reconnect the cell to the return line

B. OFF-LINE CHLORINATORS (Hayward CL-220)

1. Disconnect the IN and OUT Lines from the main body
2. Disconnect pump plug connector if your chlorinator is set up directly to the pump housing.
3. Empty tablets and rinse chlorinator out with water

4. Take out inlet and check valve fittings from chlorinator
5. Rinse out both inlet and check valve fittings with water and do not reconnect
6. Allow chlorinator to completely dry
7. Bring the chlorinator inside where there is no chance of exposure to freezing temperatures

6. AUTOMATIC POOL CLEANERS

A. STA-RITE GREAT WHITE and ARNESON POOL VAC

1. Rinse out Vac Head and Hoses with clean water and allow to dry completely.
2. Store Pool Vac Hoses and Head in original boxes. Keep components out of the sun.

7. PREPARATION OF POOL FITTINGS INSIDE OF POOL

A. WALL SKIMMER: Remove skimmer basket. Store with rest of pool fittings. Screw a GIZZMO into the open threaded hole on the bottom of the skimmer.

B. RETURN and MAIN SUCTION FITTINGS: Remove the Safety Grate from the Main Suction fitting and remove the Hydrosweep (eyeball) from the Return outlet fitting. Use a HYDROSEAT REMOVAL TOOL to remove the threaded body of the Hydrosweep. Insert and tighten #10 RUBBER EXPANSION PLUGS into the pool fittings.

CAUTION: DO NOT INSTALL THE GIZZMO OR PLUGS UNTIL AFTER THE FILTER HAS BEEN DRAINED!
FILTERS BELOW POOL WATER LEVEL: If your filter and pump is below the water level of the pool, we recommend using an 1 1/2" THREADED PVC PLUGS instead of rubber plugs. You MUST INSTALL PLUGS BEFORE DRAINING FILTER and PUMP. Make sure to DISCONNECT the UNION between the pump and the main and skimmer gate valves.

8. ELECTRICAL CONNECTIONS

A. HOUSE CIRCUITS: Shut off electrical switch by the motor and shut off electrical circuit at the circuit box in the house. Be sure to shut the circuit to the underwater light off as well.

B. TIME CLOCKS: Switch the timer to OFF and shut off the power at the circuit breaker. Take the Time Clock trippers off the time clock and place them inside the time clock box so you will be able to find them next Spring.

9. DECK EQUIPMENT

A. LADDERS: Remove ladders from anchor sockets. Grease sockets with WATERPROOF GREASE. Do not store the ladder in the same room in which you keep the Chlorine or other Chlorinating chemicals.

B. HANDRAILS: Remove handrail from anchor socket by loosening the wedge screw. Grease sockets and wedge screw with some WATERPROOF GREASE. Do not store the handrail in the same room in which you keep the Chlorine or other Chlorinating chemicals. It may deteriorate the finish. The stainless steel rail can be cleaned with a mild abrasive (S.O.S., Scrub free) to restore the shine.

C. DIVING BOARDS: Do not remove diving board or spring base. The winter cold will not affect the board or base. Clean the boards with a solution of TSP (Trisodiumphosphate) and water to remove any discoloration that forms.

D. SLIDES: Do not remove the slide. Do remove the plastic slide tubing and store for the winter. The tubing tends to crack and split during the cold winter months from exposure.

E. SAFETY ROPES AND MOUNTS: Remove and store safety rope for the winter. Do not remove rope mounts attached to the coping. Pools which have the plastic type eyebolts that anchor into the pool wall should remove the plastic eyebolt and replace it with a winter screw.

F. UNDERWATER LIGHTS: Make sure to turn off switch at pool side and the electrical circuit at the junction box in the house.

10. WINTER COVERS AND WATERTUBES

A. WINTER COVERS: DO NOT SIPHON OR PUMP WATER OFF THE WINTER COVER! YOU WILL LOWER THE WATER LEVEL IN THE POOL BY DOING SO. PLEASE FOLLOW INSTRUCTIONS BELOW OR CALL FOR INSTRUCTIONS .

If you wish to remove some water on the cover, you must put water in the pool UNDERNEATH the COVER at the same rate as you are pumping or siphoning the water off the top of the cover. If you want to siphon or pump the water on top of the cover back into the pool, be sure to TREAT THE WATER ON TOP of the COVER with SHOCK first.

B. LOOP-LOC COVERS: Because your Loop-Loc cover can act as a solar cover and heat up the pool water, it is necessary to add four gallons of Liquid Shock into the pool by April 15. The Shock can be added by simply unfastening one corner of the Loop-Loc and pouring the Shock underneath the cover. If the pool is not opened by May 1, another four gallons of Liquid Shock should be added. This process should be repeated every week or until the pool is opened.

C. WATERTUBES: DO NOT FILL WATERTUBES TO CAPACITY...only HALF-FULL! They will tend to roll and split when filled to much.

PLEASE NOTE: DO NOT USE PATIO BLOCKS, BRICKS, OR LOGS TO HOLD DOWN POOL COVER! If they fall into the pool or get pulled into the pool during a storm they will cause costly damage to the

pool liner. Keeping a few spare watertubes is much safer and cost effective than a costly patch job.

11. STORAGE OF:

A. CHEMICALS- Make sure to put covers back on all chemicals for the winter. STORE CHLORINE IN A ROOM AWAY FROM MOISTURE, LADDERS AND HANDRAILS AND YOUR LAWN MOWER. Cool and dry is best. Chemical gases can damage metal.

B. SOLAR COVERS AND REELS- Wash, rinse, and dry solar cover before storing in a clean, dry area, off the floor or in a trash bag, away from insects and mice. If you have a solar cover and reel set up, rinse off the cover then tightly roll the cover up on the reel; cover with plastic and wrap string around the cover to keep wrap in place and to protect it from snow and ice.

12. INFORMATION AND ADVICE

POOL WATER LEVEL: Throughout the year you should always maintain the pool water level no less than 6" from the top of the pool. If it drops or if your cover seems to be "sunk" into the pool, do not hesitate to call our Service Dept. at 485-6343

CHLORINE: Contributes to a fire but will not start a fire. You can obtain a bad burn from chlorine if the chlorine is damp, or hard when your hands are wet! Please take care in applying and using chlorine products.

POOL COMPONENT WARRANTIES: WARRANTIES ON POOL PUMPS, FILTERS, HEATERS, AND OTHER POOL COMPONENTS DO NOT COVER WINTER FREEZE DAMAGE. Do not hesitate to call McCarthy Pools if you have a problem draining components.