Furnish this manual to the end user of this filter; its use will reduce service calls and chance of injury and will lengthen filter life.
SYSTEM 3® MODULAR MEDIA FILTERS:
To avoid unneeded service calls, prevent possible injuries, and get the most out of your filter, READ THIS MANUAL CAREFULLY!
The Sta-Rite System 3® Modular Media Filter:
• Is designed to filter water for swimming pools, spas and hot tubs.
• Is an excellent performer; durable, reliable.

Table of Contents
Safety Instructions ......................................................2
General Information .....................................................3
Installation ................................................................3-4
Specifications...............................................................4
Initial Startup ...............................................................5
Filter Disassembly/Assembly ......................................5
Filter Cleaning Procedure .........................................6-7
System Inspection/Winterizing .....................................7
Troubleshooting Guide.................................................8
Pressure Drop Curve ...................................................9
Repair Parts List ........................................................10

READ AND FOLLOW SAFETY INSTRUCTIONS!
⚠️ This is the safety alert symbol. When you see this symbol on your system or in this manual, look for one of the following signal words and be alert to the potential for personal injury.
⚠️ DANGER warns about hazards that will cause serious personal injury, death or major property damage if ignored.
⚠️ WARNING warns about hazards that can cause serious personal injury, death or major property damage if ignored.
⚠️ CAUTION warns about hazards that will or can cause minor personal injury or property damage if ignored.

The label NOTICE indicates special instructions which are important but not related to hazards.

Carefully read and follow all safety instructions in this manual and on filter.
Keep safety labels in good condition.
Replace missing or damaged safety labels.

⚠️ WARNING Incorrectly installed equipment may fail, causing severe injury or property damage. Read and follow operational parameters given below when installing equipment described in this owner’s manual.
1. Follow instructions and procedures in owner’s manual for installation, operation, and maintenance of equipment.
2. Do not connect any part of pool or spa system to city water system, well water system, or to any other type of high pressure water system or supply.
3. Do not attempt to use pool or spa equipment in any type of installation other than a pool or spa.
4. Trapped air under pressure in system can cause explosion and serious injury. Follow instructions in owner’s manual or on equipment to make sure that no air is trapped in the system before testing or operating equipment.

⚠️ WARNING Equipment that is incorrectly pressure tested may explode, causing severe injury or property damage. Pressure testing should only be done by trained pool professionals, following test parameters given below when testing the equipment described in this owner’s manual.
1. Make physical check for correct tightness of all clamps, bolts, lids, and system accessories prior to test. See owner’s manuals covering equipment being tested for this information.
2. Make sure there is no air entrapped in system. Release all air in system before testing.
3. When using a Sta-Rite pump and trap, tighten pump trap lid to 30 ft. lbs. (4.1 kg-m.) torque before testing.
4. Water pressure for testing must be 25 PSI (172 kPa) or less.
5. Water temperature for testing must be 100°F (38°C) or less.
6. Test length must be 24 hours or less.
7. After test, make visual check of system to make sure that it is ready for operation. Remove Sta-Rite pump trap lid and retighten hand-tight only.
8. Exceeding any one of limits 2 through 6 or omitting physical checks specified in Steps 1 and 7 can result in equipment and property damage or physical injury.

NOTICE: These parameters apply to Sta-Rite pool and spa equipment only. For non-Sta-Rite equipment, consult manufacturer.
**GENERAL INFORMATION**

**WARNING** Hazardous pressure. Can cause severe injury or major property damage from tank blow up. Release all pressure and read instructions before working on filter.

Clean a new pool as well as possible before filling pool and operating filter. Excess dirt and large particles of foreign matter in the system can cause serious damage to the filter and pump.

With a cartridge filter system in place and operating correctly, clean water is returned to the pool faster than the pool water is being contaminated. A typical pool installation will require approximately one week to obtain and maintain the sparkle that your filter is capable of giving you.

Keep pool water pH at recommended level (7.2 to 7.6).

Be sure clamps are in place and knobs are securely tightened before starting filter.

Maintain pressure gauge in good working order. Replace gauge if it fails or is damaged.

Make sure internal air bleed tube and air bleed filter (Key Nos. 9 and 10, Page 10) are in place before operating filter. Clean air bleed periodically.

Cleaning interval is based on pressure differential, not on length of time filter is operated. Different areas and water conditions will have different normal cleaning intervals.

**NOTICE:** Some pool disinfectants may clog filter media. To maximize media-life and filter cycle time, closely follow disinfectant manufacturers instructions when cleaning pool or filter.

**WARNING** If filter is improperly disassembled or assembled, it may explode under pressure! To avoid danger of severe injury or major property damage, always follow service instructions in this manual when working on filter!

**WARNING** NEVER operate this filter system at more than 50 pounds per square inch (50 PSI/345kPa) pressure!

On a new pool installation, we recommend:
1. Disassemble the filter after the initial cleanup.
   **WARNING** To prevent severe injury or major property damage, follow exactly “Filter Disassembly/Assembly Procedure” on Page 5.
2. Hose down the element assembly to remove contaminants.

**INSTALLATION - GENERAL**

Installation of filter should only be done by qualified, licensed personnel.

Filter mount must
Provide space and lighting for easy access for routine maintenance.

Provide adequate ventilation and drainage for pump.
Be protected from weather and reasonably level.
Be less than three feet above pool water level.
Be as close to pool as possible to reduce line loss from pipe friction.

**Piping**
All piping must conform to local and state plumbing and sanitary codes.

Never use pipe joint sealing compound on pipe and fittings that are plastic or may come into contact with plastic. Use only thread seal tape on PVC pipe and fittings; pipe joint compound may cause stress cracking of plastic components. Use pipe joint compounds only on metal-to-metal joints.

Support pipe independently to prevent strains on filter or pump.

Use 2” or larger pipe to reduce pressure losses.

**NOTICE:** High flow rates may require larger pipe to produce adequate flow through filter.
Check local codes.
Fittings restrict flow; for best efficiency use fewest possible fittings.
Keep piping tight and free of leaks: pump suction line leaks may cause trapped air in filter tank or loss of prime at pump; pump discharge line leaks may show up as dampness or jets of water.

Either plug drain fitting with a 2" NPT pipe plug or run piping from drain fitting to an acceptable waste water disposal point. Provide plug or valve for wastewater line.

Valves
Provide isolation valves to allow for easy servicing of filter. A check valve installed between pool and filter inlet will prevent contaminants from draining back into pool. A check valve installed between filter and heater will prevent hot water from heater from backing up into the filter and deforming filter elements.

NOTICE: Damaging filter elements through excessive heat voids the warranty.
Do not use selector valves (i.e., slide or multiport etc.) with this filter. Filter cannot be backwashed. See Page 6 for cleaning information.

Electrical
BE SURE filter grounding and bonding meets local and National Electrical Code standards. All wiring, grounding and bonding of associated equipment must meet local and National Electrical Code standards.

SPECIFICATIONS

TABLE I - SPACE REQUIREMENTS in inches (mm)

<table>
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<tr>
<th>Model No.</th>
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<th>D</th>
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<td>S7M120, S7M400</td>
<td>28-1/2 (724)</td>
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<td>7</td>
<td>36 (914)</td>
<td>68 (1730)</td>
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<td>68 (1730)</td>
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* Number of clamps.

TABLE II - FILTER SPECIFICATIONS AND OPERATING INFORMATION

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<th>S7M400</th>
<th>S8M500</th>
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<td>Filter Area</td>
<td>300 Sq. Ft. (27.9 Sq. M)</td>
<td>450 Sq. Ft. (41.8 Sq. M)</td>
<td>400 Sq. Ft. (37.2 Sq. M)</td>
<td>500 Sq. Ft. (46.5 Sq. M)</td>
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<td>Maximum Flow Rate</td>
<td>100 GPM (378 l/min.)</td>
<td>125 GPM (473 l/min.)</td>
<td>115 GPM (435 l/min.)</td>
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<tr>
<td>Max Operating Pressure</td>
<td>50 PSI (345 kPa)</td>
<td>50 PSI (345 kPa)</td>
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Figure 1 - Dimensions in inches (mm)
INITIAL START-UP

Turn pump OFF before starting procedure.
Properly seat filter clamps and securely tighten clamp knobs before proceeding.
Read “Warning Instructions For Clamp Assembly” decal on tank.
Water pressure in filter must not exceed 50 PSI (345 kPa) under any circumstances.

1. Open air release valve (Key No. 3, Page 12) located on top of filter tank head.
2. Start pump.
3. When a steady stream of water comes from air release valve, close valve.
4. After filter is operating, record filter pressure gage reading in owner’s manual for future use.

NOTICE: When installed on a new pool, filter element may need cleaning after approximately 48 hours of operation.
NOTICE: A new or recently cleaned filter element may pass some foreign material until it builds up a sufficient coating to stop all “fines”. This is normal; a short operational period should correct the condition.

Check pressure gauge; if pressure has risen more than 10 PSI (70 kPa) above startup pressure, remove and clean element.

FILTER DISASSEMBLY/ASSEMBLY PROCEDURE

Before Disassembling Filter:

1. STOP PUMP.
2. OPEN air release valve.
3. WAIT until all pressure is released from filter tank and system before loosening clamp knobs.

Disassembly:

1. Stop pump.
2. Open air release valve (Key No. 2, Page 10) on top of filter tank to release all pressure from inside of tank and system.
3. Close plumbing inlet and return valves to prevent flooding.
4. Remove filter drain plug (Key No. 17 or 18, Page 10) and drain all water from tank.
5. To equalize flange stresses, loosen clamps alternately (that is, on opposite sides of tank) around tank. Remove clamps.
6. Being careful not to damage Cord ring (Key No. 23, Page 10), lift upper tank half (Key No. 24, Page 10) off of lower tank half (Key No. 22, Page 10).

Assembly:

1. Remove Cord Ring slowly to avoid stretching or tearing it.
2. Inspect Cord Ring (Key No. 23, Page 10) for cuts, nicks, etc. If damaged, replace with a new one.
3. Clean Cord Ring area of tank half (both halves) and Cord Ring.
4. Carefully install Cord Ring and upper tank half (Key No. 24, Page 10).

NOTICE: Be sure upper tank half contacts Cord Ring surface evenly and seal area is clean and free from dirt. Do not lubricate Cord Ring; lubricants may cause the Ring to swell.
5. Install clamps. Do not tighten clamps yet.
6. See Figures 2 and 3 for clamp tightening sequence. Tighten all clamp knobs securely hand tight.

NOTICE: To equalize stresses on tank, be sure to tighten clamps in sequence shown. DO NOT work your way around the filter tightening adjacent clamps.
7. Open isolation valves.
8. Follow directions under “Initial Startup”.

Figure 2 - 21” Filter clamp tightening sequence.

Figure 3 - 25” Filter clamp tightening sequence.
FILTER CLEANING PROCEDURE

NOTICE: When sanitizing your pool using PHMB (polyhexamethylene biquanide based) cleaners, use only PHMB cleaners to clean the module. When using PHMB sanitizers, the filter module MUST be cleaned more thoroughly and frequently than for a pool using chlorine. Follow manufacturer’s instructions carefully. Use of any other type of cleaners with PHMB pool sanitizers will void the filter’s warranty.

With hose, wash foreign material from inside of tank. Avoid washing debris into outlet port.

Be sure inside surface of tank is clean.

Keep track of filter operating pressure. When pressure reaches 10 PSI (70 kPa) above initial operating pressure, clean filter element.

If filter is used with a spa, soak element (see “Special Cleaning Instructions,” Page 9) at each regular cleaning.

⚠️ WARNING ⚠️ Filter elements are too heavy for safe lifting when wet and dirty. To avoid back injury, clean and drain elements as far as possible in operating position in filter tank. Have two people lift elements and lift with care. Follow cleaning procedure given below.

A. Cleaning in Place Procedure:
   1. Follow steps one through six under “Disassembly”, Page 5.
   2. With a garden hose, hose as much dirt as possible off of filter elements while they are still in place inside the tank (See recommendations, below, right). Allow tank to drain completely. Make sure that waste water disposal complies with local codes and ordinances.
   3. Lift out center element and hose it down thoroughly. Allow to drain.
   4. With large element still in tank, hose down both inner and outer pleats
   5. Inspect large element. If it is still dirty, allow it to drain thoroughly, lift it out of tank and repeat washing operation; then go to Step 6. If it is clean, go to Step 7.

   ⚠️ WARNING ⚠️ Filter elements are heavy when wet and dirty. To avoid back injury, allow filter element to drain completely before removing from tank. Have two people lift element and lift with care.

   6. Once it is clean, allow large element to drain thoroughly, then reinstall in filter tank.
      NOTICE: If this cleaning method does not remove stubborn deposits, use “Special Cleaning Instructions”, at right.
   7. Reinstall center element
   8. Follow steps one through eight under “Assembly”, Page 5.

B. Special Cleaning Instructions:

Use this procedure to clean scale or oils which are not removed by simply hosing down and scrubbing element. Be sure to dispose of spent chemicals according to all applicable codes and waste disposal ordinances. Use a soft stream nozzle to minimize flying water and spray.

Figure 4 - Hose down elements thoroughly.

Figure 5 - Clean inside as well as outside of elements.

Follow these recommendations for easier cleaning with a garden hose:
1. Prepare to get wet!
2. Use a soft flow nozzle which will reduce spray around filter.
3. Move around element while spraying to reach entire surface.
4. Repeat wash-down process for inside of element. Hold nozzle as close to inside of pleats as possible.

NOTICE: BE SURE all dirt and foreign material is washed away from INSIDE pleats of element.
5. Drain elements as much as possible before trying to lift them.
1. Clean filter elements first according to cleaning procedure above.
2. Use one of the commercial filter cleaners listed (see Table III)

**TABLE III - Specialty Filter Cleaners**
(for Degreasing and Scale Removal)

Consult your pool specialist for industry recommended filter cleaners.

⚠️ **DANGER** Risk of fire or explosion. Isolate filter from system before chemical cleaning; rinse filter and elements completely before returning to service. If filter cannot be isolated, remove media and clean at another location. Follow chemical manufacturer’s instructions for use. Do not mix chemicals except as directed by manufacturer. Do not allow cleaning chemicals to mix or to come in contact with chlorines, bromines, other chemicals, or chemical feed devices.

3. Sponge or spray elements according to chemical manufacturer’s directions. Leave elements in operating position or remove and clean elsewhere, depending on filter location, chemicals used, and chemical manufacturers instructions (see warning above).

4. If soaking is required, remove elements from filter body and submerge in a separate tank. Follow cleaner manufacturer’s instructions to mix enough chemical cleaner to soak element. Soaking may require four to six hours or more.

5. After soaking, drain and rinse elements completely. Dispose of cleaners in accordance with codes and waste disposal ordinances.

6. Rinse inside of filter tank completely and re-install elements (have two people lifting - lift with care).


8. Restore valving and other plumbing to service position; return system to service (see “Initial Startup”, Page 5).

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**SYSTEM INSPECTION**

**General**
Wash outside of filter with a mild detergent and water. Rinse off with hose.

**NOTICE:** DO NOT use solvents to clean filter; solvents may damage plastic components in system.

**NOTICE:** Open air bleed valve and bleed all air from filter each time pump is stopped and restarted.

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**Weekly Inspection:**
1. Skimmer basket - remove debris.
2. Stop pump, release all pressure. Remove trap cover and basket, remove debris.
3. Bleed air from filter each time system is started.
4. Check pump for leaks. If found, see pump owner’s manual.
5. Check pump strainer lid for tightness. Do not overtighten!

**NOTICE:** Filter must be protected from the weather and drained if freezing is anticipated. Allowing filter to freeze can cause damage to filter and WILL VOID THE WARRANTY!

**Winterizing**
1. Stop pump.
2. Open air release valve.
3. Remove both drain plugs from lower tank half; loosen union connection to inlet and outlet ports to allow internal piping to drain. Leave unions loose over winter.
4. Drain ALL piping to and from filter.
5. Disassemble filter.

⚠️ **WARNING** To avoid severe injury or major property damage, exactly follow instructions under “Disassembly” (Page 5)!

6. Remove filter elements and store in a warm, dry area.

⚠️ **CAUTION** Do not remove or damage safety and instruction labels during cleaning. Replace any decals which may have been damaged.
TROUBLESHOOTING GUIDE

A. Short Cycle:
   Time between cleanings will vary with each installation and between different areas of the country. The following causes and remedies are for cycle times shorter than normal for your area.

   NOTICE: Some pool disinfectants may clog filter media. To maximize media-life and filter cycle time, closely follow disinfectant manufacturers instructions when cleaning pool or filter.

   1. Chlorine residual too low; maintain proper residual (consult pool professional for recommendation).
   2. Flow rate too high; restrict flow to rated capacity of filter (see instruction decal on filter).
   3. Filter too small; install larger filter or additional filter.
   4. Unstable water; consult pool professional.
   5. Filter element not cleaned properly or plugged with algae, iron, calcium, etc. - see “Special Cleaning Instructions”, Page 6.
   7. Heavy or improper application of powdered chlorine or chlorine pills using a binder; see “Special Cleaning Instructions”, Page 6.
   8. Algae in pool - Apply heavy dose of chlorine or algaecide as recommended by pool manufacturer. Continue until algae is controlled.

B. Low flow:
   1. Element is plugged; see “Special Cleaning Instructions”, Page 6.
   2. Pipe blocked downstream from filter; remove obstruction.
   3. Piping too small; replace with larger pipe (consult dealer for recommendation).
   4. Pump hair and lint trap is plugged - empty and clean.
   6. Pump too small for system - consult pool professional; if recommended, replace pump with larger pump.

C. Pool Water Not Clear:
   1. Chlorine dosage too low; maintain adequate chlorine residual (consult pool professional for recommendation).
   2. Element cloth torn or punctured; replace element.
   3. Filter too small, flow too low, or daily operating time too short, giving inadequate turnover rate; consult dealer to verify that equipment is properly sized for your pool.
   4. Pump too large - overpumping - reduce flow rate.
   5. Filter installed backward - replumb.

D. Long Recovery Time After Heavy Usage:
   1. Residual Chlorine level is too low - add chlorine.
   2. Filter too small - replace with larger unit.
   3. Pump too large - reduce flow rate.

E. Filter Bypasses Dirt:
   1. Air bleed tube and/or tube filter not in position. Exactly follow instructions under “Disassembly” and “Assembly” (Page 5)!
   2. Element cloth torn or punctured; replace element.
   3. Filter element is not seated properly in lower tank half; follow instructions under “Filter Disassembly/Reassembly”, Page 5, and reposition properly.
   4. Filter is plumbed backwards and element cloth is ruptured - replumb properly and replace element.
   5. Colloidal fines (very small suspended dirt particles) are present and passing through element covering. Floc with alum, or if fines have already settled, vacuum to waste.
PRESSURE DROP CURVE

Flow Rate in GPM (LPM)

PSI Loss (kPa Loss)

Max Flow Rate

S7M400

S7M120

S8M150

S8M500
## REPAIR PARTS LIST

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**       | Instruction Label                    | 1     | 32155-4037             | 32155-4037            | 32155-4039            | 32155-4039            |
**       | Warning Label                        | 1     | 32165-4004             | 32165-4004            | 32165-4005            | 32165-4005            |
**       | 2" Slip 1/2 Union Kit                | 1     | PKG 188                | PKG 188               | PKG 188               | PKG 188               |

* Models S7M120 and S7M400 require 7 clamps and clamp bolts; Models S8M150 and S8M500 require 8 clamps and clamp bolts.

** Not Illustrated  *** Includes all decals and labels.