



## POOL CARTRIDGE FILTER 425SQF

ITEM: 75202



## OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER)

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: 909.628.0880 MON-FRI 9AM TO 3PM PST



## GENERAL SAFETY WARNINGS

THE WARNINGS, PRECAUTIONS, AND INSTRUCTIONS DISCUSSED IN THIS INSTRUCTION MANUAL CANNOT COVER ALL POSSIBLE CONDITIONS AND SITUATIONS THAT MAY OCCUR. IT MUST BE UNDERSTOOD BY THE OPERATOR THAT COMMON SENSE AND CAUTION ARE FACTORS WHICH CANNOT BE BUILT INTO THIS PRODUCT, BUT MUST BE SUPPLIED BY THE OPERATOR. READ CAREFULLY AND UNDERSTAND ALL **ASSEMBLY AND OPERATION INSTRUCTIONS** BEFORE OPERATING. FAILURE TO FOLLOW THE SAFETY RULES AND OTHER BASIC SAFETY PRECAUTIONS MAY RESULT IN SERIOUS PERSONAL INJURY.

- To reduce the risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. The ANSI/NSPI-4 Standards (above ground and on ground pools advise that components such as the filtration system, pumps and heaters be positioned to prevent their being used as a means of access to the pool by young children.
- Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and possibly after pump shut off. Pressure in system can cause explosive component separation of the upper filter body if safety and operation instructions are not followed. Severe personal injury or death can result.
- This product should be installed and serviced only by a qualified pool professional.

## TO AVOID COMPONENT SEPARATION

Follow all safety and operation instructions.

- **Do not** operate water circulation system if a system component is assembled improperly, damaged, missing, or not a genuine Hayward component.

- Before performing maintenance on the water circulation system, verify all system and pump controls are in OFF position and filter manual air relief valve is in the OPEN position.

- Never rely on hand tightening the clamp nut to the clamp bolt. Using a  $\frac{3}{4}$ " socket on a torque wrench, torque clamp nut and clamp bolt to 150 inch-lbs.

- Before starting system pump, insure filter manual air relief valve body is in LOCK position in filter upper body.

- Before starting the system pump, verify that all system valves are set in a position to allow water from the filter to return back to the pool.

- Before starting the system pump, the manual air relief valve must be in the OPEN position.

- When starting pump, do not stand over or near filter.

- If water leakage appears in the area of the filter tank clamp, immediately turn off all system circulation pumps and electrical power. Do not return to the filter until all water flow has stopped. Reassemble the clamp system per the instructions in this owner's manual to stop the leak.

- Return to filter to close manual air relief valve only when a steady stream of water (Not air or air and water) is discharged from the manual air relief valve.

- **Do not** change filter control valve position while system pump is running.

## EXCESS PRESSURE HAZARD

Pressure testing of the pump and filter system in excess of the 50 PSI can cause explosive separation of the components. Component separation can result in severe personal injury or death.

# IMPORTANT SAFETY INFORMATION

## ● WARNING ELECTROCUTION HAZARD

High Voltage electricity is present in the pool and spa equipment. High voltage electricity can cause shock and electrocution. Shock and electrocution can result in severe personal injury or death.

- All electrical wiring MUST be in conformance with applicable local codes, regulations and the National Electrical Code (NEC).
- Before performing any service or maintenance on electrical equipment turn off all electrical power.
- Contact a licensed electrician or building inspector for information on local electrical codes for bonding requirements.
- Verify water discharge from the filter manual air relief valve is directed away from electrical devices. Do not locate pump controls over or near filter.

## ● WARNING – SUCTION ENTRAPMENT HAZARD

Suction in suction outlets and/or suction outlet covers that are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:

**Hair Entrapment-** Hair can become entangled in suction outlet cover.

**Limb Entrapment-** A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

**Body Suction Entrapment-** A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

**Evisceration/ Disembowelment Entrapment-** A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover that is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment entrapment.

**Mechanical Entrapment-** There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

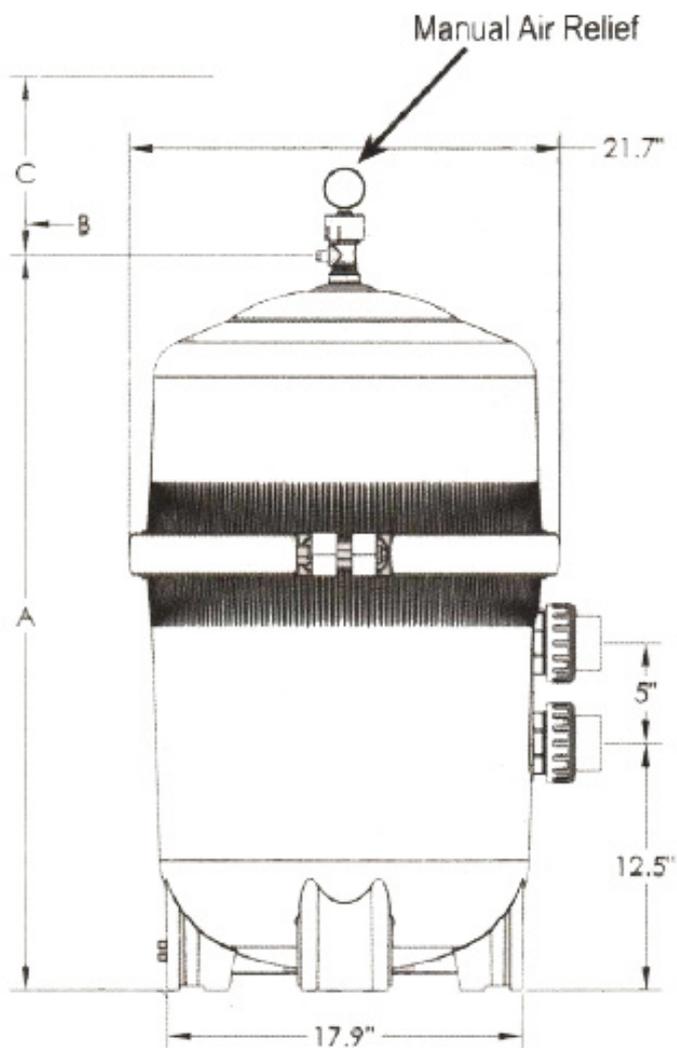
## TO REDUCE THE RISK OF ENTRAPMENT HAZARDS:

- A minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- Dual suction outlets shall be placed in such locations and distances to avoid “dual blockage” by a user.
- Dual suction outlets shall not be located on seating areas or on the backrest for such seating areas.
- The pool or spa circulation system shall be designed to comply with ANSI/APSP-7 2006.
- Suction outlet covers shall conform to ANSI/ASME A112.19.8
- Never use Pool or Spa if any suction outlet component (cover/grate) is damaged, broken, cracked, missing, or not securely attached.
- Immediately replace damaged, broken, cracked, missing, or not securely attached suction outlet components.
- The CPSP as well as the ICC International Residential Code Part IX, Appendix G, Section AG106 specifies the installation of a safety vacuum release system conforming to ASME A112.19.17, or an approved gravity drain system.
- Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increased potential for suction entrapment.
- Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increased potential for suction entrapment.

# INSTALLATION

		REQUIRED CLEARANCE			
		B SIDE		A SIDE	
IN	CM	IN	CM	IN	CM
37	94	18	46	16	48

**WARNING:** This product should be installed and serviced only by a qualified pool professional.



1. The filter system should be installed on a level concrete slab or other rigid base. Select a well drained and vented area, one that does not flood when it rains. Position the filter so that the piping connections, and winter drain are convenient and accessible for operation, service, maintenance and winterizing.

2. Position filter body such that all operation and safety labels are visible.

3. Position filter so the filter will drain by gravity.

4. If practical, place pump and filter in the shade to shield it from continuous, direct heat from the sun.

6. Connect the pump discharge (pump OUTLET) to the top port of the filter (filter INLET).

7. Connect the bottom filter port (filter OUTLET) to the pool return plumbing lines.

8. Do not locate pump controls over or near filter.

## STARTING THE PUMP and FILTER SYSTEM

1. Use ONLY original components; Non-original components may fail in use and cause explosive component separation. Verify that upper and lower filter bodies are properly secured with the filter body clamp. Never rely on hand tightening the clamp nut to the clamp bolt. Using a  $\frac{3}{4}$ " socket on a torque wrench, torque clamp nut to clamp bolt to 150 inch-lbs. (See Fig 1) Verify that the filter manual air relief body is in the LOCK position, and no filter components are missing, damaged or not genuine components. (See Fig 2)

2. Close filter drain. NOTE: Filter plug requires an o-ring seal. (See Fig 4)

3. Open all system valves to allow water from the pool to the filtration system and from the filter to return to the pool.

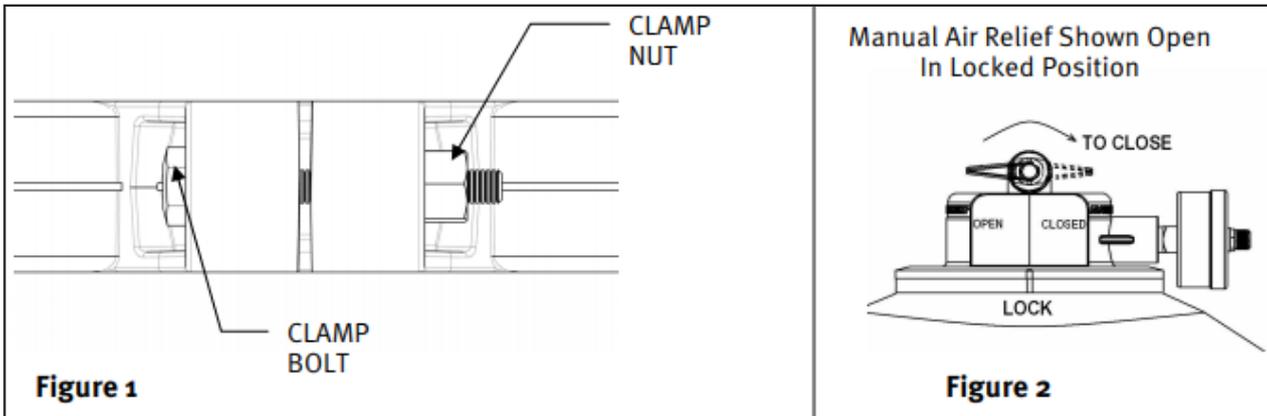
# OPERATION

4. Place the manual air relief valve in OPEN position. (See Fig 2)

## STARTING THE PUMP

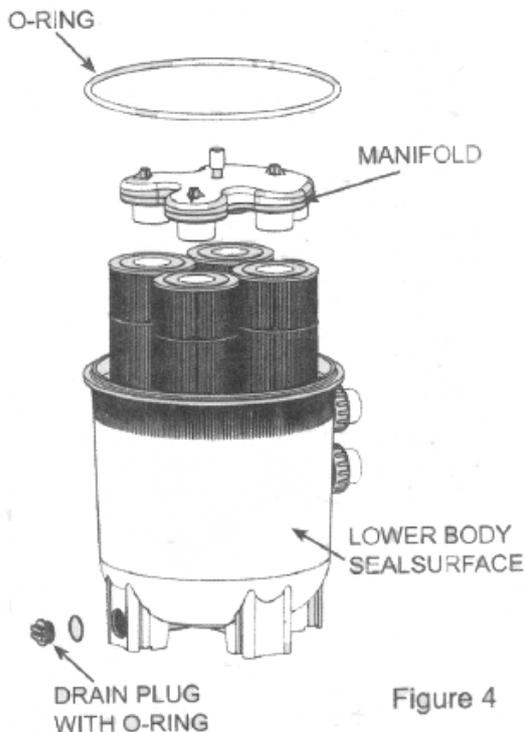
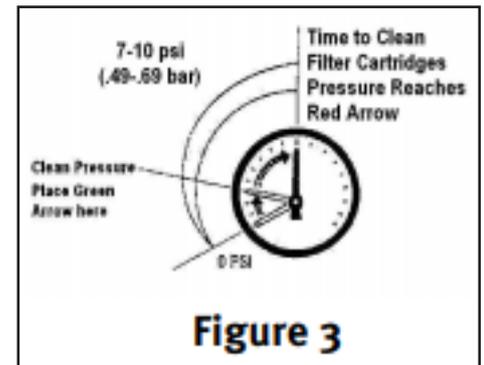
1. When starting system pump, do not stand over or near filter. If water leakage appears at filter tank clamp, immediately turn off all system circulation pumps and all electrical power. Do not return to the filter until all water leakage has stopped.

2. Reassemble the clamp system per the instructions on page 7 in this owner's manual to stop leak. 2. Return to filter to CLOSE manual air relief valve only when a steady stream of water (not air or, air and water mix) is discharged from the manual air relief valve.



## FILTERING

Filtration starts as soon as flow is steady through the filter. As the filter removes dirt from the pool water, the accumulated dirt causes a resistance to flow. As a result, the gauge pressure will rise and the flow will decrease. When the pressure rises between 7 and 10 psi (.49 - .69 bar) above the starting pressure, or when the flow decreases below the desired rate, clean or replace the filter cartridge elements. Once your filter is running and there is a pressure reading, line up the green arrow with the current reading. (See Fig 3) When the pressure rises to or above the red or second arrow, it is time to clean or replace your filter cartridge elements.

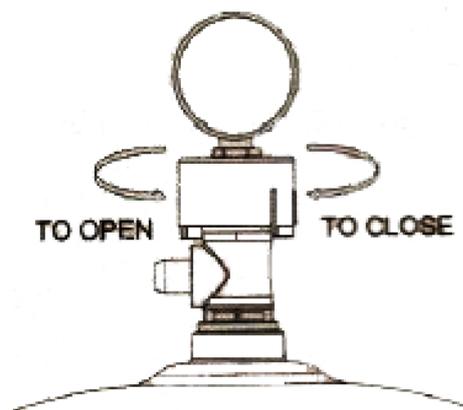


By recording the initial starting pressure (with clean filter elements) a determination can be made when the filter cartridge elements should be replaced rather than cleaned. After the filter elements have been cleaned and reinstalled if the starting pressure is higher than 6 PSI above the starting pressure with the new filter cartridge elements, the filter cartridge elements should be replaced the next time the gauge arrow reaches the red arrow.

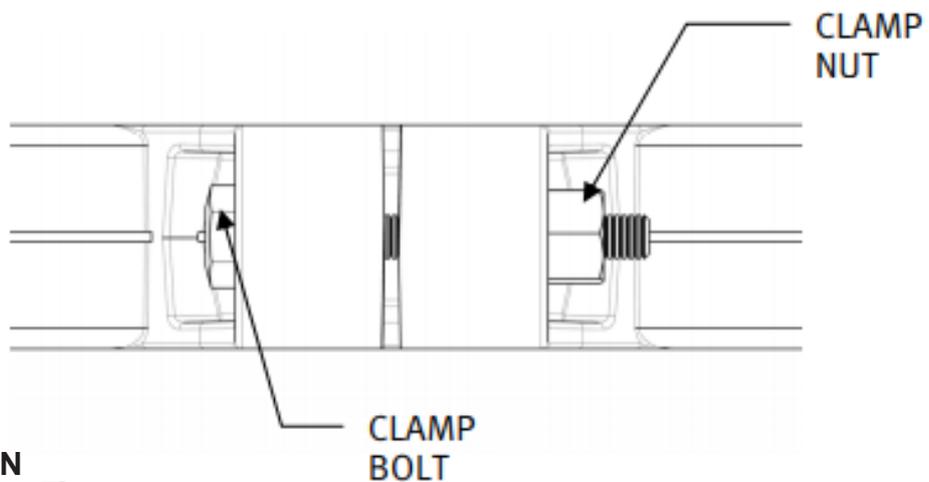
This product should be installed and serviced only by a qualified pool professional.

## FILTER DISASSEMBLY INSTRUCTIONS

1. Turn off all system circulation pumps and all electric power on the equipment pad.
2. Set all system valves in a position to prevent water flow to the filter.
3. The manual air relief valve must be placed in the OPEN position. (Fig 6)
4. Remove filter drain plug (Fig 4) and drain water from filter.
5. Using 3/4" wrenches or hex sockets, loosen and remove the clamp nut and the clamp bolt. (Fig 5)
6. Holding both ends of the filter clamp carefully spread the clamp ends. Remove the clamp by lifting over the upper filter body. Do not drop the clamp during removal, because the clamp could be damaged. Do not strike the clamp with metal tools as they can damage the clamp.
7. Lift off upper filter body. Do not use the pressure gauge to lift the upper filter body.



MANUAL RELIEF SHOWN OPEN



## REMOVING CARTRIDGES

1. Remove the top Manifold, which is exposed when the upper filter body is removed. (Fig 4)
2. Remove the filter cartridge elements by using slight rocking motion and lifting up.
3. Clean filter cartridge elements.

## CLEANING CARTRIDGES

The Cartridge filter element can be cleaned by washing inside and outside with a garden hose. After hosing cartridge, for best results, carefully brush the pleated surface to remove fine particles. Do not pressure wash as it can damage the filter element. You may find some debris on the cartridge pleats, which may not have been removed with hosing.

## RE-INSTALLING CARTRIDGES

1. Flush and drain any dirt or debris from the bottom of the lower filter body.
2. Flush any dirt or debris from the upper filter body and from around the manual air relief area.
3. Carefully replace the cartridges over the hubs on the bottom seal plate.
4. Place top manifold securely on top of cartridges, aligning the return pipe with the port in the manifold.

# OPERATION

## CLEAN SEAL RING AND SEAL SURFACE

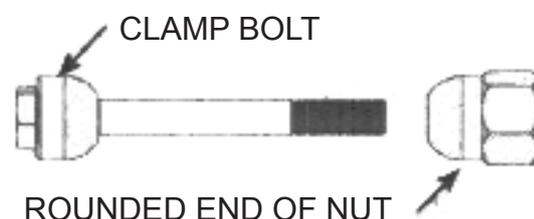
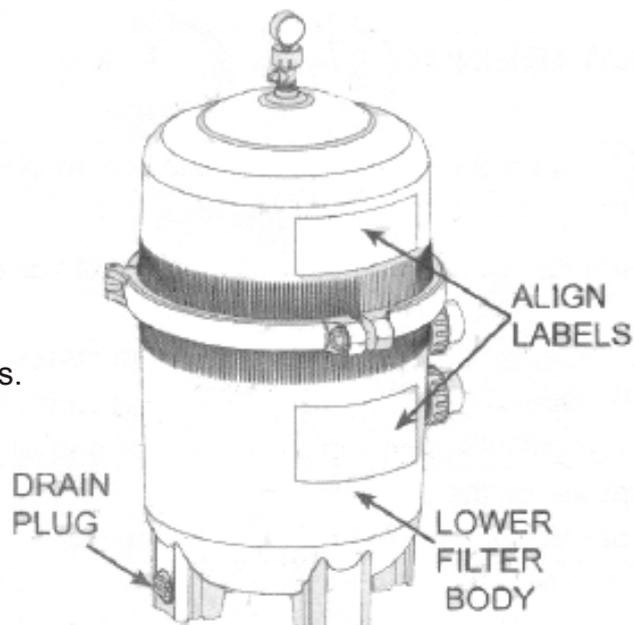
1. Remove filter tank seal.
2. With a clean cloth, wipe the lower filter body seal surface and clean seal of all dirt and debris. (Fig 4) Do not use a solvent.
3. With a clean cloth wipe the upper filter body seal surface.

### NOTICE:

- Do not use any petroleum solvents to clean filter components.
- Do not lubricate seal.

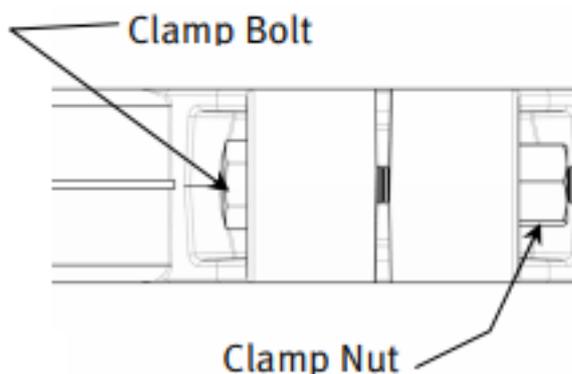
### WARNING

This product should be installed and serviced only by a qualified pool professional.



## BODY AND CLAMP RE-ASSEMBLY

1. Place the metal reinforced seal on lower filter body. (Fig 4) Place upper filter body on metal reinforced seal and lower filter body in a position which allows all operation and safety labels to be clearly visible and the upper filter body to be centered on the lower filter body. Press down firmly and evenly on the upper filter body to seat the seal. (Fig 7)
2. Replace the filter clamp around the upper and lower filter bodies. Hold the clamp ends to position the clamp on the filter bodies with the clamp ends adjacent to the safety and operation labels on the filter bodies. (Fig 7)
3. Insert clamp bolt through the clamp ends and thread the clamp nut onto clamp bolt with rounded end of the nut (Fig 8) towards the ends of the clamp. 4. Never rely on hand tightening of clamp nut to clamp bolt. Using a 3/4" socket on a torque wrench, torque clamp nut to clamp bolt to 150 inch-lbs. (Fig 9)
4. Never rely on hand tightening of clamp nut to clamp bolt. Using a 3/4" socket on a torque wrench, torque clamp nut to clamp bolt to 150 inch-lbs. (Fig 9) DO NOT HIT OR STRIKE CLAMP WITH HAMMER OR METAL TOOLS.
5. Follow Operation Instructions for "Starting the Pump and Filter System" (Page 5).



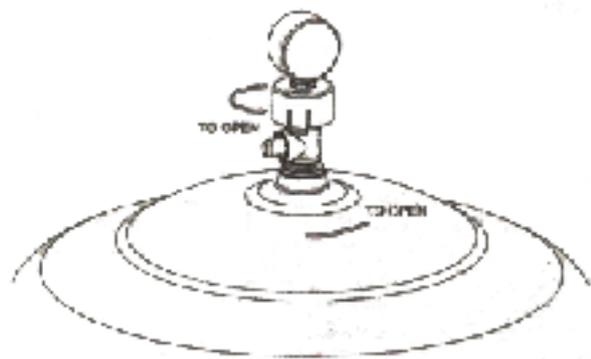
**Tighten clamp bolt and nut using a torque wrench to 150 inch-lbs.**

# OPERATION

## REMOVING THE MANUAL AIR RELIEF VALVE

This product should be installed and serviced only by a qualified pool professional. Your Filter comes with a Manual Air Relief Valve (MAR) pre-installed from the factory. For Qualified pool professionals only: If MAR valve needs to be serviced, follow these instructions carefully.

1. Turn off all system circulation pumps and all electric power on the equipment pad.
2. Set all system valves in a position to prevent water from flowing to the filter.
3. The manual air relief valve must be placed in the OPEN position.
4. Wait until all water leakage has stopped.
5. The air valve relief valve can be removed by screwing the whole part counter-clockwise.



## RE-INSTALLATION OF THE MANUAL AIR RELIEF VALVE

1. Check the o-ring seals, replace as needed.
2. With a clean cloth, wipe upper filter body and o-ring groove. Remove all dirt and debris.
3. Align the notch in the MAR Flange with notch on top of the upper filter body.
4. Press the MAR straight down into the upper filter body.
5. Turn the MAR clockwise until the indicator is aligned with the "LOCK" position on the upper filter body.
6. Verify the MAR discharge points away from all electrical connections.

## WINTERIZING FILTER

This product should be installed and serviced only by a qualified pool professional.

In areas where sub-freezing temperatures can be expected, the filter should be drained to protect the filter from damage.

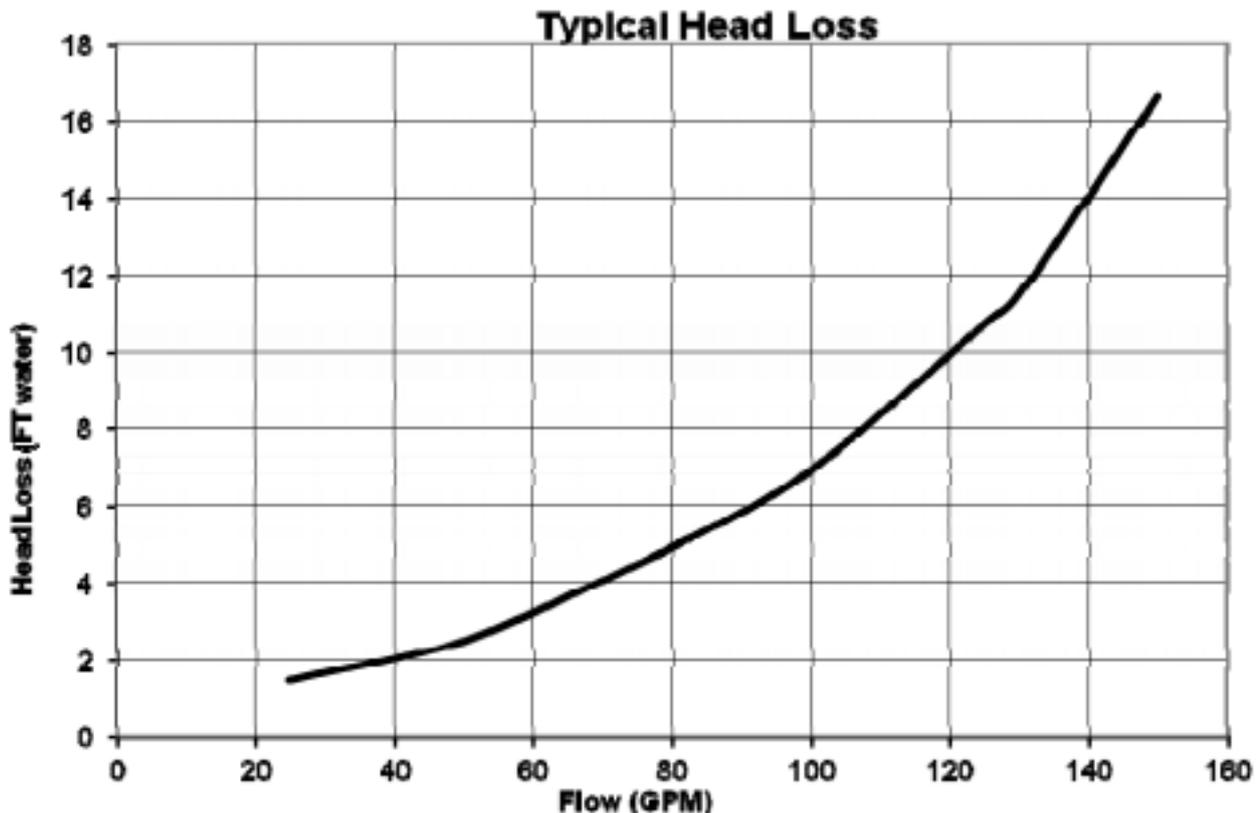
1. The filter should be disassembled and the filter cartridges elements cleaned or replaced.
2. Follow directions under FILTER DISASSEMBLY INSTRUCTIONS
3. Then follow REMOVING CARTRIDGES per instructions
4. Reassemble per FILTER RE-ASSEMBLY INSTRUCTIONS.
5. Be sure to leave the drain plug unattached during the winter season to avoid cracking the filter body

# MAINTENANCE

SUGGESTED POOL CHEMISTRY LEVELS	
pH	7.2 to 7.8
TOTAL ALKALINITY	80 to 120 ppm
CALCIUM HARDNESS	200 to 400 ppm
COMBINED CHLORINE	.2 ppm Maximum
CHLORINE (STABILIZED)	1.0 to 3.0 ppm
CHLORINE STABILIZER (Cyanuric Acid)	60 to 80 ppm

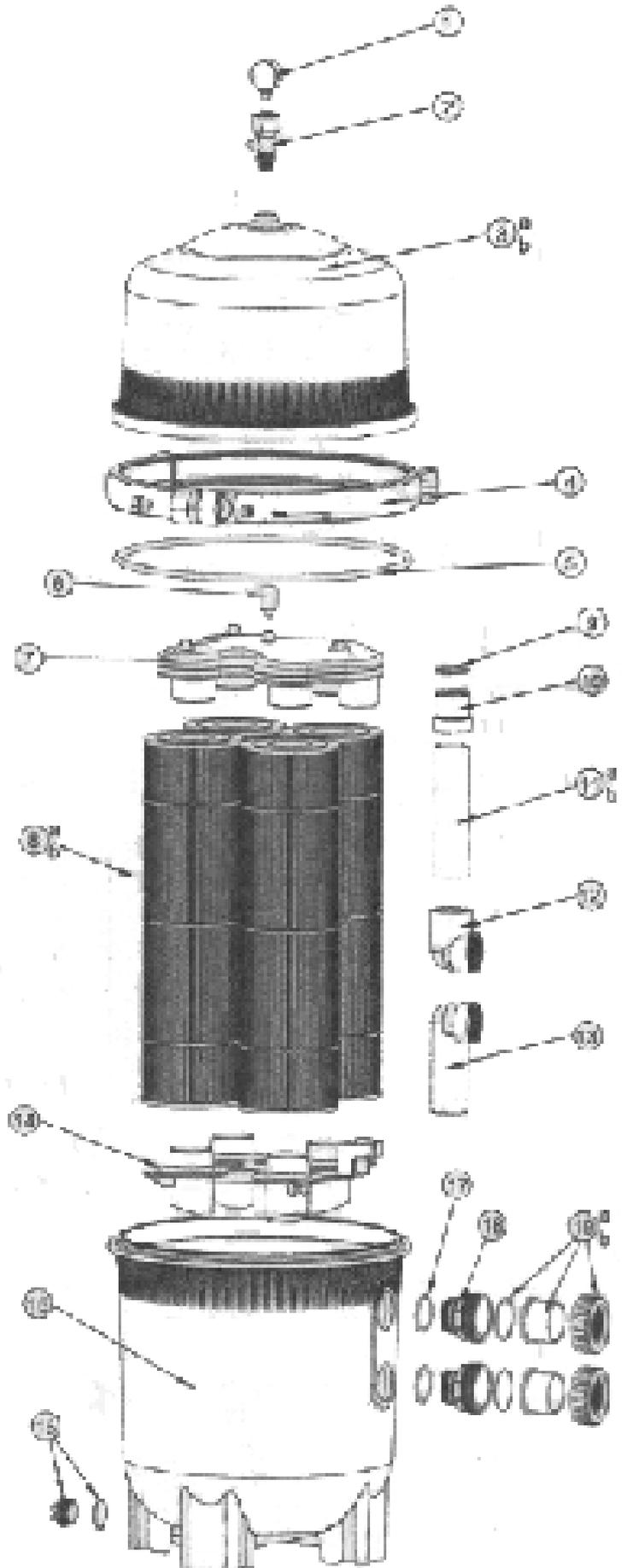
## PROBLEM SOLVING LIST

REMEDY	LOW WATER FLOW	SHORT FILTER CYCLES	POOL WATER WON'T CLEAR UP
	<ol style="list-style-type: none"> <li>1. Check skimmer and pump strainer baskets for debris.</li> <li>2. Check for restrictions in intake and discharge lines.</li> <li>3. Check for air leak in intake line (indicated by bubbles returning to pool).</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for algae in pool and super-chlorinate as required.</li> <li>2. Be sure chlorine and pH levels are in proper range (adjust as required).</li> </ol>	<ol style="list-style-type: none"> <li>1. Check chlorine, pH and total alkalinity levels and adjust as required.</li> <li>2. Be sure flow rate through filter is sufficient.</li> <li>3. Operate filter for longer periods.</li> </ol>



# PARTS

#	DESCRIPTION	QTY
1	Pressure Gauge	1
2	Manual Air Relief Assembly	1
3	Upper Filter Body	1
4	Clamp System including: Clamp, Clamp Nut and Bolt, Hang tag, Metal Reinforced	1
5	O-Ring	1
6	Air Relief Filter	1
7	Top Manifold	1
8	Cartridge Element	4
9	O-Ring	1
10	Adapter	1
11	Outlet Pipe	1
12	Inlet Elbow	1
13	Bottom Seal Plate	1
14	Lower Filter Body	1
15	1 1/2" Drain Plug w/O-Ring	1
16	O-ring	2
17	Bulkhead Fitting	2
18	Union Connection	2



# DISCLAIMER

## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



**SAVE THESE INSTRUCTIONS.**

### Questions, problems, missing parts?



Before returning to your retailer, our exceptional customer service is here to help.

Call Us: 909.628.0880

Email Us: [customer@xtremepowerusa.com](mailto:customer@xtremepowerusa.com)

Hours of Operation: 9am - 4pm (Monday - Friday)

**PRODUCT MADE IN CHINA**