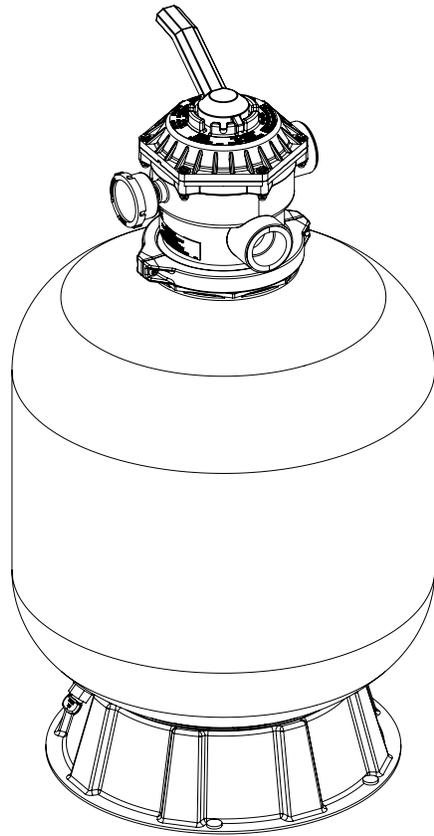




AQUATIC ECO-SYSTEMS™

ARIAS™ 6000 FIBERGLASS AQUACULTURE
SAND FILTER WITH MULTIPORT VALVE
MODELS: A6000-40, A6000-60, A6000-100



INSTALLATION AND USER'S GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

CUSTOMER SERVICE / TECHNICAL SUPPORT

If you have questions about ordering Pentair Aquatic Eco-Systems, Inc., replacement parts and products, please contact:

Customer Service

8 AM to 7 PM — Eastern and Pacific Times

US

Phone: (877) 347-4788

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IMPORTANT WARNING AND SAFETY INSTRUCTIONS



Important Notice:

This guide provides installation and operation instructions for this product. Consult Pentair with any questions regarding this equipment.

Attention Installer: This guide contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment after installation or left on or near the filter.

Attention User: This manual contains important information that will help you in operating and maintaining this filter. Please retain it for future reference.

READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE 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 can cause death, serious personal injury, or major property damage if ignored.

▲ WARNING

Warns about hazards that may cause death, serious personal injury, or major property damage if ignored.

▲ CAUTION

Warns about hazards that may or can cause minor personal injury or property damage if ignored.

NOTE indicates special instructions not related to hazards. Carefully read and follow all safety instructions in this manual and on equipment. Keep safety labels in good condition; replace if missing or damaged.

▲ WARNING

Before installing this product, read and follow all warning notices and instructions which are included.

Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (US) (877) 347-4788 - INT: (407) 886-3939 for additional free copies of these instructions.

Consumer Information and Safety

This filter is designed and manufactured to provide many years of safe and reliable service when installed, operated and maintained according to the information in this manual and the installation codes referred to in later sections. Throughout the manual, safety warnings and cautions are identified by the “▲” symbol. Be sure to read and comply with all of the warnings and cautions.

▲ WARNING

Do not operate the filter until you have read and understand clearly all the operating instructions and warning messages for all equipment that is a part of the circulating system. The following instructions are intended as a guide for initially operating the filter in a general installation, however each installation may have unique conditions where the starting procedure could be different. Failure to follow all operating instructions and warning messages can result in severe injury, death, or property damage.

▲ WARNING

Do not permit children to use or operate this filter.

▲ WARNING



FILTER OPERATES UNDER HIGH PRESSURE.

When any part of the circulating system, (e.g., clamp, pump, filter, valve(s), etc.), is serviced, air can enter the system and become pressurized. Pressurized air can cause the lid to separate which can result in severe injury, death, or property damage.

To avoid this potential hazard, follow these instructions:

1. Before repositioning valve(s) and before beginning the assembly, disassembly, or adjustment of the clamp or any other service of the circulating system: (A) Turn the pump **OFF** and **shut OFF** any automatic controls to ensure the system is NOT inadvertently started during the servicing; (B) open the manual air relief valve; (C) stand clear of the filter; (D) wait until all pressure is relieved.
2. Whenever installing the filter clamp **FOLLOW THE FILTER CLAMP INSTALLATION INSTRUCTIONS EXACTLY.**
3. Once service on the circulating system is complete **FOLLOW SYSTEM RESTART INSTRUCTIONS EXACTLY.**
4. Maintain circulation system properly. Replace worn or damaged parts immediately, (e.g., clamp, pressure gauge, valve(s), o-rings, etc).
5. Be sure that the filter is properly mounted and positioned according to instructions provided.

▲ WARNING



Due to the potential risk that can be involved it is recommended that the pressure test be kept to the minimum time required by the local code. Do not allow people to work around the system when the circulation system is under pressure test. Post

appropriate warning signs and establish a barrier around the pressurized equipment. If the equipment is located in an equipment room, lock the door and post a warning sign.

Never attempt to adjust any closures or lids or attempt to remove or tighten bolts when the system is pressurized. These actions can result in a separation or failure of system components. This instantaneous release of energy can cause components to be accelerated to high velocities and to travel far distances. These components could cause severe personal injury or death if they were to strike a person.

▲ WARNING



Never exceed the maximum operating pressure of the system components. Exceeding these limits could result in a component failing under pressure. This instantaneous release of energy can cause the closure to separate and could cause severe personal injury or death if they were to strike a person.

▲ WARNING



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.

This filter must be installed by a qualified service professional in accordance with the National Electrical Code and all applicable local codes and ordinances.

Always disconnect power to the equipment at the circuit breaker before servicing any of the equipment. Ensure that the disconnected circuit is locked out or properly tagged so that it cannot be switched on while you are working on the equipment. Failure to do so could result in serious injury or death to serviceman, users or others due to electric shock.

Position the filter and the air relief valve to safely direct water drainage and purged air or water. Water discharged from an improperly positioned filter or valve can create an electrical hazard that can cause severe personal injury as well as damage property.

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

⚠ WARNING

This filter is intended for use in aquaculture installations ONLY. DO NOT use with any type of swimming pool, hot tub, or spa.

⚠ DANGER

SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS FILTER IS NOT INSTALLED AND USED CORRECTLY.

⚠ DANGER

INSTALLERS, OPERATORS AND OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS FILTER.

⚠ DANGER

HAZARDOUS PRESSURE: STAND CLEAR OF PUMP AND FILTER DURING START UP



Circulation systems operate under high pressure. When any part of the circulating system (i.e. locking ring, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized.

Pressurized air can cause the pump housing cover filter lid and valves to violently separate which can result in severe personal injury or death. Filter tank lid and strainer cover must be properly secured to prevent violent separation. Stand clear of all circulation system equipment when turning on or starting up pump.

Before servicing equipment, make note of the filter pressure. Be sure that all controls are set to ensure the system cannot inadvertently start during service. Turn off all power to the pump. **IMPORTANT: Place filter manual air relief valve in the open position and wait for all pressure in the system to be relieved.**

Before starting the system, fully open the manual air relief valve and place all system valves in the “open” position to allow water to flow freely from the tank and back to the tank. Stand clear of all equipment and start the pump.

IMPORTANT: Do not close filter manual air relief valve until all pressure has been discharged from the valve and a steady stream of water appears. Observe filter pressure gauge and be sure it is not higher than the pre-service condition.

For Installation of Electrical Controls at Equipment Pad (ON/OFF Switches, Timers and Automation Load Center)

⚠ CAUTION



Install all electrical controls at equipment pad, such as on/off switches, timers, and control systems, etc. to allow the operation (startup, shut-down, or servicing) of any pump or filter so the user does not place any portion of his/her body over or near the pump strainer lid, filter lid or valve closures.

This installation should allow the user enough space to stand clear of the filter and pump during system start-up, shut down or servicing of the system filter.

⚠ CAUTION

The following information should be read carefully since it outlines the proper manner of care and operation for your filter system. As a result of following these instructions and taking the necessary preventative care, you can expect maximum efficiency and life from your filtration system.

General Installation Information

The following information should be read carefully since it outlines the proper manner of care and operation for your filter system.

You can expect maximum efficiency and life from your filtration system by following these instructions and taking the necessary preventative care.

- Have a trained professional perform all pressure tests.
- Do not connect the system to a high pressure or city water system.
- Trapped air in the system can create a hazardous condition. BE SURE to purge all air from the system before operating or testing equipment.
- DO NOT pressure test with compressed air!
- Piping must conform to local/state plumbing and sanitary codes.
- Support piping independently to prevent strains on filter or valve.
- Fittings restrict flow; for best efficiency, use the fewest possible fittings.
- A check valve installed ahead of the filter inlet will prevent contaminants from draining back into the system.
- A check valve installed between the filter and heater will prevent hot water from backing up into the filter and deforming the internal components.
- All wiring, grounding and bonding of associated equipment must meet current local and/or National Electrical Code standards.

Only a qualified plumbing professional should install this filter. Refer to the “Important Warning and Safety Instructions on pages iii-iv for additional installation and safety information.

SAVE THESE INSTRUCTIONS

Section 1

Installation

Note: Before installing this product, read and follow all warning notices and instructions in this manual.

Installing the Arias™ 6000 Sand Filter

Only a qualified service person should install the sand filter. This filter is designed and intended to filter water.

Introduction

The following general information describes how to install the sand filter. This filter operates under pressure and if assembled improperly or operated with air in the water circulation system, it can separate and result in an accident causing property damage or serious bodily injury. A warning label has been affixed to the top of the filter and should not be removed. Keep safety labels in good condition and replace if missing or illegible.

How your sand filter works

Your high rate sand filter is designed to operate for years with a minimum of maintenance and when installed, operated and maintained in accordance with these instructions, it will provide years of trouble free operation.

Dirt is collected in the filter as the water flows through the control valve at the top of the filter and is directed downward onto the top surface of the filter sand bed. The dirt is collected in the sand bed and the clean water flows through the lower piping at the bottom of the filter up through the center pipe into the control valve at the top of the filter. Clean water then returns through the piping system into the source water supply.

The pressure will rise and the flow to the system will be lowered as the dirt is collected in the filter. Eventually, the filter will become so plugged with dirt that it will be necessary to perform the backwash procedure. It is important to know when to backwash the filter. Backwashing is discussed further under the subsequent sections of this guide.

Please note that a filter removes suspended matter and does not sanitize the water. The water must be sanitized and the water must be chemically balanced water quality. The filtration system should be designed to meet your local health codes.

Arias™ 6000 Sand Filter Installaton

⚠ WARNING



Filters should never be tested or subjected to air or gas under pressure. All gases are compressible and under pressure create a danger. Severe bodily injury or property damage could occur if the filter is subjected to air or gas pressure.

1. Check carton for any evidence of damage due to rough handling in shipment. If carton or any filter components are damaged, notify the freight carrier immediately.
2. Carefully remove the accessory package and the filter tank from the carton.
3. Mount the filter on a permanent slab, preferably concrete poured in a form or on a platform constructed of concrete block or brick. DO NOT use sand to level the filter or for the pump mounting, as it will wash away.
4. Provide space and lighting for routine maintenance access. Do not mount electrical controls over the filter. One needs to be able to stand clear of the filter when starting the pump. Minimum space requirements may be found on the large nameplate on the filter.
5. Sand specifications – be certain the proper sand is used. Before pouring the sand into the filter, look inside and check the lower under-drain for broken or loose laterals (or fingers), which may have been accidentally damaged by rough handling during shipment. Replace any broken parts if necessary.
6. Install the sand guide in the top of the filter and fill the tank about half full with water. Pour the sand into the top of the filter at a slow rate so that the weight of the sand does not damage the laterals. After filling to the proper level, remove and discard the sand guide. Wash away all sand around the opening at the top of the tank.
7. Be sure that all sealing surfaces are clean and apply a light coating of a silicone based lubricant to the valve o-ring.
8. Position valve so that the port locations are in the desired final positions. Follow the enclosed valve installation procedure instructions.
9. Assemble piping and pipe fittings to pump and valve. All piping must conform to local and state plumbing and sanitary needs.
10. Use sealant compounds on all male connections of pipe and fittings. Use only pipe compounds suited for plastic pipe. Support pipe to prevent strains on filter, pump or valve.

NOTE: The free board distance is the most important variable and should be maintained. Sand density will vary and therefore sand amount is given as a reference.

11. Long piping runs and elbows restrict flow. For best efficiency, use the fewest possible number of fittings, large diameter pipe (at least 1½” for A6000-40 and at least 2” for A6000-60 and A6000-100) and locate equipment as close to the body of water as possible.

⚠ CAUTION

Operating at excessive vacuum levels can cause the tank to crack and could cause property damage.

12. When installing backwash lines it is recommended that a vacuum breaker, be installed on installations where the backwash line is 1½” and the length exceeds 40 ft., or if the backwash line discharges 10 ft. or more lower than the surface level of the body of water. Alternately, a vacuum break pit could be provided on systems using 2” or larger backwash lines.
13. A check valve is recommended between the filter and heater to prevent hot water “back up” which will damage the filter and valve.
14. The maximum operating pressure of this unit is 50 pounds per square inch. Never operate this filter above this pressure or attach a pump to this filter that has more than 50 psi shut-off pressure.

15. A positive shut-off valve is not recommended at the outlet of the filtering system. If the system is ever run with such a valve closed, the internal air relief system becomes inoperative which can cause the filter to separate. Additionally, running the system with no flow will seriously damage the equipment.

**WARNING**

Chemical fumes and/or spills can cause severe attack of filter structural components. Structurally weakened filter components can cause filter valve or attachments to separate and could cause severe bodily injury and/or property damage.

16. Never store chemicals within 10 ft. of the filter. Chemicals should always be stores in a cool, dry,will ventilated area.

Initial Start-up

1. On a new system, clean the system before filling the system with water. Excessive dirt and large particles can cause damage to the pump and filter.
2. Ensure that the backwash line is open so that water is free to come from the source of water and flow out the backwash line. Set control valve to backwash position.
3. Check pump strainer pot to be sure it is full of water. Replace pump lid.

**WARNING**

Air entering the filter and the valve clamp not closed properly can cause the valve to separate and could cause severe bodily injury and/or property damage.

4. Check valve clamp on the filter for tightness.
5. Open the manual air bleeder on the 6-Way Valve, (except A6000-100). Stand clear of the filter and start the pump allowing it to prime.
6. Close the air bleeder on the 6-Way Valve, (except A6000-100), when all the air is removed from the filter and a steady stream of water emerges.

NOTE: Filter media sand is typically pre-washed and should not require extensive backwashing. However, the shipping process may cause excessive abrasion which could require an extended backwash cycle at initial start-up; continue to backwash until the backwash water is clear.

**CAUTION**

To prevent equipment damage and possible injury, always turn the pump off before changing the valve position.

7. Stop the pump. Set the valve to the filter position.
8. Ensure all suction and return lines are open so that water is free to come from the source and return to the system.
9. Open the manual air bleeder on the 6-Way Valve, (except A6000-100). Stand clear of the filter and start the pump.
10. Close the air bleeder on the 6-Way Valve , (except A6000-100), when a steady stream of water emerges.
11. The filter has now started its filtering cycle. You should ensure that water is returning to the water and take note of the operating pressure when the filter is clean. Never store chemicals within 10 ft. of your system filter. System chemicals should always be stores in a cool, dry,will ventilated area.

Section 2

Maintenance

This section describes how to maintain the Arias™ 6000 Sand Filter.

Filter Care

The filter is a very important part of the system and installation. Follow these suggestions for long trouble-free operation:

1. To clean the exterior of the filter of dust and dirt, wash with a mild detergent and water then hose off. Do not use solvents.
2. If internal maintenance is required, sand may be removed by removing the entire drain spigot from the bottom of the filter and flushing with a garden hose.
3. If, after a number of years, the filter tank appears foggy in color or rough in texture, the tank surface can be painted. We recommend the use of a Quick Dry Spray Enamel. **Do NOT paint the VALVE.**



WARNING Always visually inspect filter components during normal servicing to ensure structural safety. Replace any item which is corroded, deformed or otherwise visually defective. Defective filter components can allow the filter top or attachments to separate and could cause severe bodily injury or property damage.

4. The valve clamp used on the filter was manufactured with high quality corrosion resistant materials. The manufacturing process could allow sharp edges to be present on the parts. When working around the clamp, use caution to prevent potential injury to fingers or hands from contact with sharp edges.
5. Your filter is a pressure vessel and should never be serviced while under pressure. Always relieve tank pressure and open air bleeder on the filter valve before attempting to service your filter.
6. When restarting your filter, always open the manual air bleeder on the filter valve and stand clear of the filter.

Cleaning Frequency

1. There are three different ways to identify when the filter needs backwashing.
 - a. The most accurate indicator is to backwash when the flow decreases 30% from the original (clean filter) flow. For example, if the original flow was 60 GPM, the filter should be backwashed when the flow is reduced by about 20 GPM (or 30%) to 40 GPM.
 - b. The most commonly used but less accurate indicator is to backwash when the filter gauge reading increases 10 PSI over the initial (clean filter) reading.
3. It is important not to backwash the filter solely on a timed basis such as every three days. It is also important to note that backwashing too frequently actually causes poor filtration. Factors like weather conditions, heavy rains, dust or pollen, and water temperatures all affect the frequency of backwash. As you use the system, you will become aware of these influences.
4. If, at any time, the starting pressure after backwashing the filter indicates 4 to 6 PSI higher than normal starting pressure, it is time to perform chemical and mechanical cleaning procedures.

Filter Backwash Procedure



WARNING To prevent equipment damage and possible injury, always turn off pump before changing valve positions.

1. Stop the pump.
2. Be sure the suction and backwash lines are open so that water is free to come from the system and flow out the backwash line. Set control valve to backwash position.
3. **Stand clear of the filter** and start the pump.
4. Backwash filter for approximately 3 to 5 minutes or until backwash water is clean.
5. Stop the pump and set valve to rinse position.
6. **Stand clear of the filter** and start the pump.
7. Rinse filter for approximately 30 seconds.
8. Stop the pump and set valve to filter position.
9. Be sure the system return line is open so that water may flow freely from source back to the system.
10. Open manual air bleeder on 6-Way Valve (except A6000-100). Stand clear of filter and start the pump.
11. Close manual air bleeder on the 6-Way Valve (except A6000-100), when all the air is removed and a steady stream of water emerges from the bleeder.
12. The filter has now started its filtering cycle. You should ensure that water is returning to the system and take note of the filter pressure.
13. The filter pressure, in the above Step 12, should not exceed the pressure originally observed on the filter when it was initially started. If after backwashing, the pressure is 4 to 6 PSI above the start condition, it will be necessary to chemically clean the media bed.

Chemical Cleaning Procedure

1. It is recommended that an approved cleaner be used. Please contact your local chemical supplier or retail store for the proper cleaner.
These cleaners will remove oils, scale and rust from the sand bed in one cleaning operation.
2. Mix a solution following the manufacturers instructions on the label.
3. Backwash the filter with the Multiport Valve as outlined above.
4. If the filter is below water level, shut off the pump and close appropriate valving to prevent draining the system.
5. Shut off pump, open filter drain and let filter drain. Place valve in backwash position.
6. After filter has drained, close filter drain and remove the pump strainer pot lid.
7. Ensure that the backwash lines are open.
8. Turn the pump on and slowly, pour the cleaning solution into the pump strainer with the pump running. If the filter is below water level, open shut-off valve slightly to allow pump to run.
9. Continue adding solution until the sand bed is saturated with cleaning solution.
10. Shut off the pump and leave filter in backwash position. Allow filter to stand overnight (12 hours).
11. Replace the pump lid and follow backwash procedures as outlined above.
12. Do not allow the cleaning solution to get into the system.

Winterizing your Filter

1. In areas that have freezing winter temperatures, protect the pool equipment by backwashing the filter.
2. After backwashing, shut the pump off, open the manual air bleeder on the 6-Way Valve (except A6000-100), and move the handle of the Multiport Valve to the Winterize Position.
3. Remove the drain plug on the bottom of the filter. The filter will drain very slowly, and therefore, it is recommended that the drain plug be left out during shutdown season.

***NOTE:** The Multiport Valve should be left in the “Winterize Position” during shutdown season so that the valve diverter has no pressure on the rubber seal.

4. Drain all appropriate system piping.
5. We recommend covering the equipment with a tarpaulin or plastic sheet to inhibit deterioration from weather. Do **NOT** wrap the pump motor with plastic.

Section 3

Troubleshooting

Use the following troubleshooting information to resolve possible problems with the Arias 6000 Filter.



THIS FILTER OPERATES UNDER HIGH PRESSURE

When any part of the circulating system, (e.g., closure, pump, filter, valve(s), etc.), is serviced, air can enter the system and become pressurized. Pressurized air can cause the top closure to separate which can result in severe injury, death, or property damage. To avoid this potential hazard, follow these instructions:

1. If you are not familiar with your water filtering system and/or heater:
 - a. **Do NOT** attempt to adjust or service without consulting your dealer, or a qualified service technician.
 - b. Read this entire Installation and User's Guide before attempting to use, service or adjust the water filtering system or heater.
2. Before repositioning valve(s) and before beginning the assembly, disassembly, or any other service of the circulating system: (A) Turn the pump **OFF** and **shut OFF** any automatic controls to ensure the system is NOT inadvertently started during the servicing; (B) open the manual air bleeder valve; (C) stand clear of filter; (D) wait until all pressure is relieved.
3. Whenever installing the filter closure **FOLLOW THE FILTER CLOSURE WARNINGS EXACTLY.**
4. Once service on the circulating system is complete **FOLLOW INITIAL START-UP INSTRUCTIONS EXACTLY.**
5. Maintain circulation system properly. Replace worn or damaged parts immediately, (e.g., closure, pressure gauge, valve(s), o-rings, etc).
6. Be sure that the filter is properly mounted and positioned according to instructions provided.

Note: Turn off power to unit before attempting service or repair.

Filter Problems and Corrective Actions

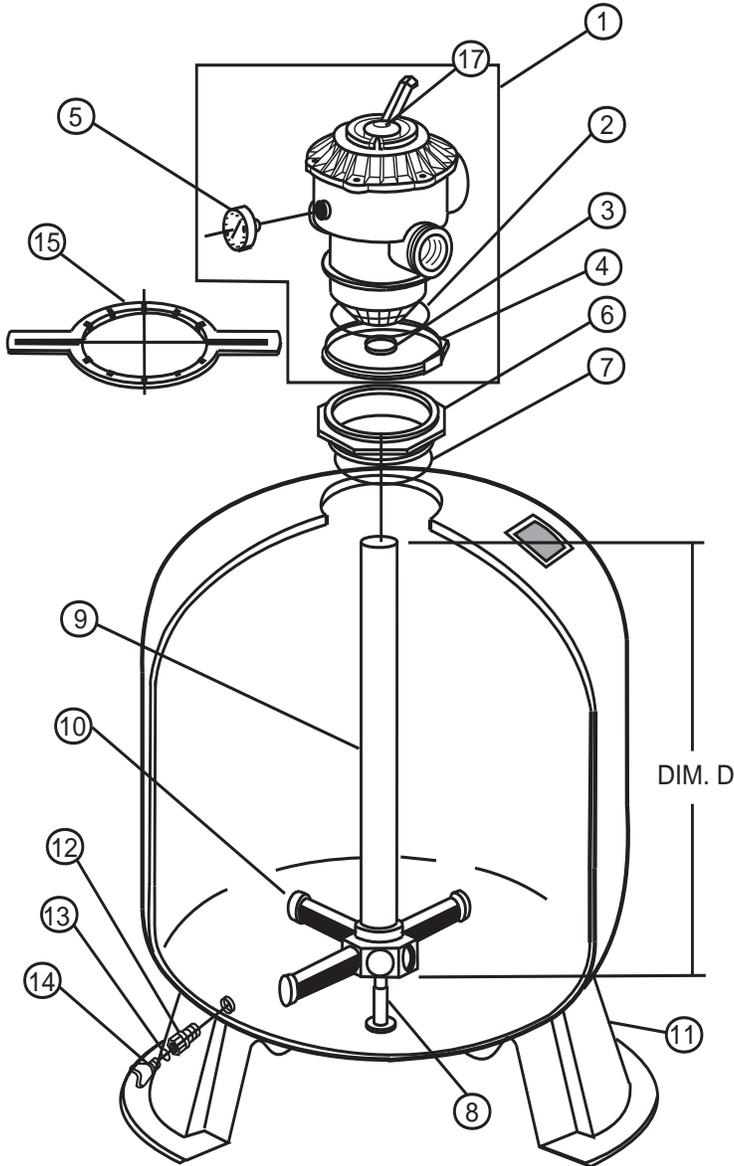
PROBLEM	CAUSE	REMEDY
Water not sufficiently clean	<ol style="list-style-type: none"> 1. Water chemistry not adequate to inhibit algae growth. 2. Too frequent a backwash cycle. 3. Improper amount or wrong sand size. 4. Inadequate turnover rate. 	<p>Maintain water chemistry or consult service technician.</p> <p>Allow pressure to build to 10 psi above clean filter condition before backwashing.</p> <p>Check sand bed Freeboard and sand size or consult a service technician.</p> <p>Run system for longer time or consult dealer or service technician.</p>
High filter pressure	<ol style="list-style-type: none"> 1. Insufficient backwashing. 2. Sand bed plugged with mineral deposits. 3. Partially closed valve. 	<p>Backwash until effluent runs clear.</p> <p>Chemically clean filter.</p> <p>Open valve or remove obstruction in return line.</p>
Short cycles	<ol style="list-style-type: none"> 1. Improper backwash. 2. Water chemistry not adequate to inhibit algae growth. 3. Plugged sand bed. 4. Flow rate too high. 	<p>Backwash until effluent runs clear.</p> <p>Maintain water chemistry or consult service technician.</p> <p>Manually remove top 1" surface of media, replace with new sand and chemically clean entire media as described in the Chemical Cleaning Procedure.</p> <p>Restrict flow to capacity of filter.</p>
Return flow to system diminished, low filter pressure	<ol style="list-style-type: none"> 1. Obstruction in pump hair and lint strainer. 2. Obstruction in pump. 3. Obstruction in suction line to pump. 	<p>Clean basket in pump strainer.</p> <p>Disassemble and clean pump.</p> <p>Remove obstruction in lines.</p> <p>Open valves in suction line.</p>
Sand returning to system	<ol style="list-style-type: none"> 1. Broken under drain lateral. 	<p>Replace broken or damaged laterals.</p>
Sand loss to waste	<ol style="list-style-type: none"> 1. Backwash rate too high. 2. Improper sand size. 3. Air strainer is damaged or missing. 	<p>Reduce backwash flow rate.</p> <p>Change to proper sand.</p> <p>Replace damage components.</p>
Leak at closure	<ol style="list-style-type: none"> 1. Improperly tightened closure. 2. Dirt or contamination on sealing surface. 3. Damaged part. 	<p>Shut off pump, relieve tank pressure, open air bleeder, tighten closure properly.</p> <p>Shut off pump, relieve tank pressure, open air bleeder, remove closure and clean all sealing surfaces. Reassemble closure properly.</p> <p>Same as above except replace damaged o-ring, closure, tank or any combination of parts as required.</p>

Section 4

Replacement Parts

ARIAS™ 6000 SAND FILTER

A6000-40
A6000-60
A6000-100



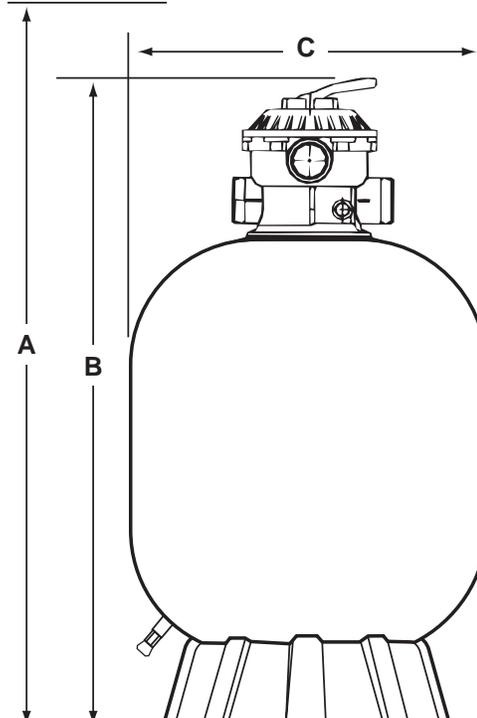
MODEL	A DIM.	B DIM.	C DIM.
A6000-40	47 in.	37 in.	19½ in.
A6000-60	57 in.	42½ in.	24½ in.
A6000-100	65½ in.	47½ in.	30½ in.

NOTE 1: Item 3 O-ring - Standpipe is used on model A6000-100 Filters only.

NOTE 2: Replacement of Tank ft. requires the use of mounting tape. See part number listed.

NOTE 3: Lubricate O-ring liberally with silicone lubricant and tighten to following specifications: A6000-40, A6000-60, hand tighten plus 1/4" turn min. A6000-100, hand tighten plus 3/4" turn minimum.

Clearance to remove valve & internal piping



ARIAS™ 6000 Sand Filter Replacement Parts

Item No.	Part Number	Description
1	272544 (A)	VALVE 1½ in. 6-WAY CLAMP STYLE
1	271579 (B)	VALVE 2 in. 6-WAY CLAMP STYLE
1	281187 (C)	VALVE 2 in. 6-WAY CLAMP STYLE
2	272541 (A)	O-RING VALVE BODY 3/16 in. X 4¾ in. I.D.
2	275333 (B)	O-RING VALVE BODY 3/16 in. X 6½ in. I.D.
3	355330 (C)	O-RING STANDPIPE 1/8 in. X 2-3/8 in. I.D. (NOTE 1)
4	152165 (A/B)	CLAMP 6½ in. DIA. S/S, PLASTIC
4	152130 (C)	CLAMP 8.35 in. DIA.
5	190059	GAUGE BACK MOUNT PRESSURE
6	154555 (A/B)	ADAPTER 6 in. BUTTRESS THD.
6	154521 (C)	ADAPTER 8½ in. btr. THREAD
7	154494 (A/B)	O-RING VALVE ADAPTER .157 in. X 5.75 in. I.D.
7	355619 (C)	O-RING VALVE ADAPTER 1/8 in. X 8 ¼ in. I.D.
8	155002	STABILIZER, CENTER PIPE
9	155061 (A)	PIPING ASSY. (DIM. D = 17¾ in.)
9	155063 (B)	PIPING ASSY. (DIM. D = 22-5/8 in.)
9	155340 (C)	PIPING ASSY. - LESS HUB (DIM. D = 27¼ in.)
9	155323 (C)	PIPING ASSY. - w/HUB (DIM. D = 27¼ in.)
10	152290 (A)	LATERAL 6-11/16 in. LONG, 8 req.
10	150085 (B)	LATERAL 1/4 TURN
10	152202 (C)	LATERAL 9-1/8 in. LONG
11	154926 (A/B)	FOOT TANK
11	154596 (C)	FOOT TANK
12	154698 (A/B)	SPIGOT ¾ in. NPT SAND DRAIN
12	152220 (C)	SPIGOT 2 in. NPT SAND DRAIN
13	192115 (A/B)	O-RING DRAIN PLUG 1/16 in. X ½ in. I.D.
14	154871 (C)	1.5" THEADED CAP
14	357161 (A/B)	PLUG ¼ in. NPT DRAIN
15	154512 (A/B)	WRENCH 6½ in. ACROSS FLATS
15	151608 (C)	WRENCH 9 in. ACROSS FLATS
	154402 (A/B)	TAPE FT. MOUNTING (NOT SHOWN)
	154407 (C)	TAPE FT. MOUNTING (NOT SHOWN)
	155051	SAND GUIDE (NOT SHOWN)
	155281 (A)	HUB ASSY.
	152222	HUB ASSY. - 1/4 TURN
	154463 (C)	HUB ASSY A6000-100

A - A6000-40
B - A6000-60
C - A6000-100

Notes

Notes



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