LACUS
INNOVATIONS

AZUR 200
OWNER'S MANUAL

CARTRIDGE FILTRATION
SYSTEM

⚠ NOTE

⚠ This symbol is intended to alert you to safety issues. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the possibility of personal injury or death.

⚠ **CAUTION** This symbol warns you to hazards that can cause serious bodily injury, death or significant damage and which, if ignored, may present a potential hazard.

⚠ **WARNING** This symbol warns you to hazards that **will or may cause** minor or moderate personal injury or damage, and which, if ignored, may present a potential hazard. It may also alert the consumer to unpredictable and risky actions.

SAVE THIS INSTRUCTION MANUAL

The Lacus AZUR 200 filter is specifically designed for the demands of today's above-ground pools. The advanced design reduces maintenance requirements while providing superior performance.

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INFORMATION ABOUT THE OWNER

DEALER'S PRINT AREA

DEAR OWNER

Congratulations on the purchase of your new above-ground pool filter.

Please take the time to read this Owner's Manual. You will find safety instructions, general information, installation instructions, operation, disassembly, filter assembly, and maintenance.

Thank you for your purchase and your confidence in our company.
We look forward to serving you!

This Owner's Guide utilizes the following symbols to emphasize specific information. The safety alert symbol indicates a potential hazard.

⚠ WARNING

TABLE OF CONTENTS

LACUS INNOVATIONS

AZUR 200™

CARTRIDGE FILTRATION SYSTEM

SAFETY INSTRUCTIONS

KEEP THESE INSTRUCTIONS

⚠ **READ, UNDERSTAND AND FOLLOW ALL SAFETY AND OPERATING INSTRUCTIONS.** FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

⚠ **NOTICE** To reduce the risk of injury, do not permit children to use or climb on this product. The ANSI/NSPI 4 Standard (above-ground pools) advises that components such as the filtration system, pumps, and heaters must be positioned to prevent their being used as a means of access to the pool by young children. Closely supervise children at all times.

⚠ **WARNING RISK OF SEPARATION OF COMPONENTS** The pool and spa water circulation systems operate with dangerous pressure during the start-up, normal operation, and possibly after the pump has stopped. The pressure in the system can cause explosive separation of the filter top if safety and operating instructions are not followed. Serious injury or death may result.

⚠ **This product should only be installed and serviced by a certified professional.**

TO AVOID SEPARATION OF THE COMPONENTS

- Follow all safety and operating instructions.
- Do not operate the water circulation system if any component of the system is improperly assembled, damaged, missing or is not a genuine Lacus component.
- Before servicing the water circulation system, make sure that all system and pump controls are in the OFF position and the manual air relief valve is in the OPEN position.
- Always tighten the lock ring by hand until the safety latch engages.
- Before turning on the system pump, make sure all system valves are set to a position that allows filter water to flow back into the pool.
- Before starting the system pump, the manual air relief valve must be in the OPEN position.
- When starting the pump, do not stand near or lean over the filter.
- Return to the filter to close the manual air relief valve only when a steady stream of water (not air or a mix of air and water) exits the manual air relief valve.

SAFETY INSTRUCTIONS

⚠ WARNING RISK OF EXCESSIVE PRESSURE

Pressure testing of the pump and filter system with pressure above 30 psi can cause explosive separation of components. Separation of components can cause serious injury or death.

⚠ WARNING RISK OF ELECTRIC SHOCK

High-voltage electricity is present in pool and spa equipment.
High-voltage electricity can cause shock and electrocution.
Shock and electrocution can cause serious injury or death.

- All electrical wiring MUST comply with all applicable local codes and regulations and the National Electrical Code.
- Before servicing or repairing electrical equipment, turn off the power supply.
- Contact a certified electrician or building inspector for information on electrical code requirements for electrical connections.
- Ensure that water flowing from the filter's manual air relief valve does not flow in the direction of electrical devices.
- Do not position the pump controls above or near the filter.

⚠ WARNING RISK OF SUCTION

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

Hair entrapment – Hair can get caught in the suction outlet cover.

Limb entrapment – If a limb is inserted into a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or unsecured, the limb may become stuck and swell.

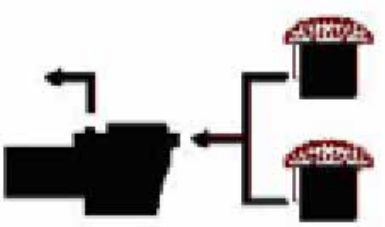
Body suction – If a lot of pressure is applied by a large part of the body or limb, onto a suction outlet, it can cause a blockage.

Evisceration – Negative pressure applied directly to the intestines through a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing or unsecured, may result in evisceration.

Mechanical entrapment – Jewelry, swimwear, hair accessories, fingers, toes, or knuckles can get caught in the opening of a suction outlet cover, which can cause mechanical entrapment.

SAFETY INSTRUCTIONS

TO REDUCE THE RISK OF ENTRAPMENT:



- At least two functional suction outlets must be installed for each pump. Suction outlets located on the same surface (i.e., bottom or wall) must be installed at least 3 feet (91 cm) apart, measured at the nearest points.
- The location of the dual suction fittings and their distance from each other must be calculated to avoid any “dual blockage” by the user.
- Dual suction fittings should not be located on seating areas or on backrests of seating areas.
- The pool or spa water circulation system must be designed in accordance with ANSI/APSP-7 2006.
- Suction outlets shall conform to ANSI/ASME A112.19.8.
- Never use the pool or spa if any part of the suction outlet is damaged, broken, cracked, missing or unsecured.
- Replace damaged, broken, cracked, missing or unsecured suction outlet components without delay.
- The CPSP and the ICC International Residential Code, Part IX, Appendix G, Section AG106, require the installation of a vacuum breaker safety system complying with ASME A112.19.17 or an approved gravity drain system.
- If the plugs used during pressure testing or winterization of the pool or spa are not removed from the suction outlets, the potential for entrapment will be increased.
- If the suction outlet components are not kept free of debris, such as leaves, dirt, hair, paper, and other materials, the potential for entrapment will be increased.

Suction port outlet components do not have an infinite life span. These parts should be inspected regularly and replaced before the end of the service life.

SAFETY INSTRUCTIONS

The AZUR 200 filtration system is designed for use with permanent above-ground pools and can also be used with spas if marked as such. DO NOT use with demountable pools. A permanent pool is built on the ground or in a building, and cannot be disassembled and stored. A demountable pool is constructed so that it can be disassembled, stored, and reassembled in its original form.

Although this product is designed for outdoor use, it is strongly recommended that the electrical components be protected from the weather elements. Choose an area with adequate water drainage that will not be flooded in the event of rain. Free air circulation is necessary to allow cooling. Do not install the pump in a damp, unventilated area.

Connect the motor to the pool structure. Use a medium or larger solid copper conductor. Run a continuous-length cable from external bonding lug to the reinforcing rod or mesh. Connect a #8 AWG (8.4 mm) solid copper bonding wire to the pressure wire connector provided in the motor housing, to all metal parts of the pool or spa, and to all electrical equipment, metal piping (except gas lines), and conduits within 5 feet (1.5 m) from the inside walls of the pool or spa (in Canada use #6 AWG bonding wire).

NOTE: the National Electrical Code allows a maximum cord length of 3 feet (1 meter). If your pump is equipped with a cord complying with National Electrical Code standards, the following three (3) items apply:

⚠ WARNING RISK OF ELECTRIC SHOCK

Connect the system only to a supply circuit that is protected by a GFCI. Contact a qualified electrician if you are unable to confirm that the outlet is protected by a GFCI.

To reduce the risk of electric shock, replace damaged cords as soon as possible. Do NOT bury the cord. Position the cord to reduce the risk of damage from a lawn mower.

To reduce the risk of electric shock, do NOT use an extension cord to connect the unit to the electric supply. Provide an outlet in a suitable location. All electrical wiring MUST be done by qualified personnel.

SAFETY INSTRUCTIONS

PERFORMANCE DATA OF THE AZUR 200 FILTRATION SYSTEM

Effective Filtration Area		200 ft²
Design Flow Rate		120 GPM
Maximum Working Pressure		30 PSI
Required Clearance:		
Side		18 in
Above		36 in
Replacement Cartridge		C-8319AM / PXST200-M
Turnover	8 hours	57,600 gal
	12 hours	86,400 gal

GENERAL INFORMATION

This manual contains information for the proper installation and operation of the AZUR 200 Filtration System. AZUR 200 model is high performance, above-ground swimming pool filter. Instructions in this manual **MUST** be followed precisely.

PRODUCT FEATURES

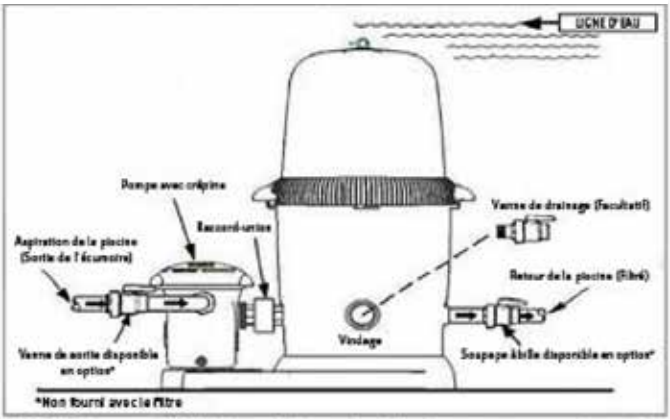
- Engineered for easy use with flexible or rigid plumbing.
- Sleek, flush mounted pressure gauge.
- Extra large dirt capacity.
- Quick release, high capacity air relief valve.
- The filter tank, non-corrosive and reinforced with glass fiber, will provide you with years of worry-free operation.
- Lock ring design allows quick access to all internal components in a single turn.

INSTALLATION INSTRUCTIONS

FILTER LOCATION

Set the filter on firm, level ground. Select a well-drained area, one that will not flood when it rains. Position the filter so that it may drain by gravity. The tank should be positioned for easy access to the internals, pressure gauge, and air relief valve.

PREFERRED FILTER LOCATION - BELOW WATER LINE



NOTE : Article V of the ANSI/NSPI-4 standard recommends that for above-ground pools, components such as the filtration system, pumps, and heater should be positioned in a way that young children cannot use them to climb and access the pool.

PLUMBING

To facilitate servicing of the filter system and to allow for indoor storage during the winter months, installing quick connect unions at the suction and outlet ports is recommended.

Use Teflon tape to seal threaded connections on molded plastic components. All plastic fittings must be new or thoroughly cleaned before use. **NOTE: DO NOT use Plumber's Pipe Dope, as it may cause degradation and cracking of plastic components.** When applying **Teflon tape** to plastic threads, wrap the entire threaded portion of the male fitting with one to two layers of tape. Wind the tape clockwise as you face the open end of the fitting, beginning at the end of the fitting.

The pump suction and outlet ports have molded-in thread stops. Do NOT attempt to force hose connector fitting past this stop. It is only necessary to tighten fittings enough to prevent leakage. Hand-tighten the fittings first, then use a tool to tighten up to a maximum of 1 ½ additional turns.

INSTALLATION INSTRUCTIONS

Use care when using Teflon tape as friction is greatly reduced; DO NOT overtighten fittings as damage may result. If a leak occurs, remove the fitting, remove the Teflon tape, wrap the fitting with an additional layer or two of Teflon tape and replace the connector. Use a flexible plastic hose with an inside diameter of 1 1/2" with an intermediate fitting and a hose clamp. If you use rigid PVC, be sure to install union fittings for ease of maintenance. All plumbing connections on the AZUR 200 filter are equipped with 1 ½" NPT threads. When making connections, use plastic male-end adapters. Apply three (3) turns of Teflon tape or plastic pipe sealant to the male threads. Screw the fitting into the thread by hand, then using a wrench, tighten an additional full turn as required. (NOTE: adapters have varying tolerances and over tightening with a wrench can damage the filter.) Ball valves are recommended when needed.

1. Connect the pool's suction plumbing between the skimmer and the pump's inlet (IN).
2. Connect the return plumbing from the pump's OUTLET port to the INLET port at the bottom of the filter body.
3. Connect the OUTLET port of the filter, located at the bottom of the filter body, to the pool's return line.

A filter drain plug is provided with each filter; this is all you need to perform the filter drainage. The plug must be installed into the DRAIN port at the bottom of the filter. A manual air relief valve is also included to assist in purging unwanted air during filter startup or drainage.

START-UP AND OPERATION

NEW INSTALLATION/SEASONAL START-UP

1. Close drain valve at the base of the filter.
2. Tighten and lock the locking ring.
3. Open air relief valve (turn the lever counterclockwise).
4. Open the suction and return valves (if equipped during installation).

⚠ WARNING RISK OF SEPARATION OF COMPONENTS

All suction and outlet valves MUST be OPEN before operating the filter system. Failure to do so could cause severe personal injury and/or property damage.

5. Prime and start the pump per manufacturer's instructions.
6. Once air has escaped the filter and a steady stream of water is flowing from the air relief valve, close the air relief valve and note the pressure gauge reading.

DISASSEMBLY AND ASSEMBLY

CLEANING/REMOVING CARTRIDGE ELEMENT

NOTE: an indication that the filter needs cleaning is when the pressure gauge rises 5-7 PSI above its normal pressure.

1. Shut off the pump.
2. Close valves* (*optional: suction and return valves).
   NOTE: if no shut off valves were installed between the pool skimmer and the pump, and between the filter and the pool return line, when the filter is open, water will flow out from the pool by gravity.
3. Open air relief valve.
4. Open drain plug (located at the base of the filter body).
5. Press the safety latch (located under the handle of the locking ring) and loosen the locking ring by turning it counterclockwise. Remove the lid from the filter body.
6. Lift out filter elements and clean as instructed in “Preventative Maintenance” section of this manual.

REINSTALLING CARTRIDGE ELEMENT

1. Clean and remove all debris from the bottom of the filter tank.
2. Place the filter element evenly onto the collector hub at the bottom of the filter body, ensuring it sits properly on the stops at the bottom of the filter.
3. Place the lid centered on the filter body. Turn the locking ring clockwise until the safety latch clicks firmly into place.
4. Reinstall and secure the drain plug (located at the base of the filter body).
5. Proceed as instructed in the “Start-Up and Operation”.

PREVENTIVE MAINTENANCE

CLEANING CARTRIDGE FILTER

NOTE: clean the cartridge when filter canister pressure reaches 5-7 PSI above the initial system or new cartridge starting pressure.

1. Remove the cartridge element from the filter housing following the directions in the “Cleaning/Removing Cartridge Element” section above.
2. Pressure wash the inside and outside of the cartridge using a cleaning wand or a hose fitted with a high-pressure nozzle. **NOTE: DO NOT use a pressure washer, as it may damage the filtration element.** Work from top to bottom, holding the nozzle at a 45-degree angle. Rinse until dirt and debris are fully removed. Gently brush the pleated surfaces and allow the cartridge to dry.

PREVENTIVE MAINTENANCE

CLEANING CARTRIDGE FILTER

Vacuuming the pool can be performed directly into the filter whenever needed. For faster results, clean the filter before and after each vacuuming. For heavy spring clean-ups, we recommend using a diverter valve to bypass the filter, this will prevent clogging up the filter and accelerate the clean-up process.

WINTERIZATION

In areas where sub-freezing temperatures can be expected, the filter should be drained and/or removed from its operating location and stored indoors. Clean the cartridge element at the end of the pool season by using a cleaning wand or a garden hose with a high-pressure nozzle (See “Cleaning Cartridge Filter” instructions in this manual).

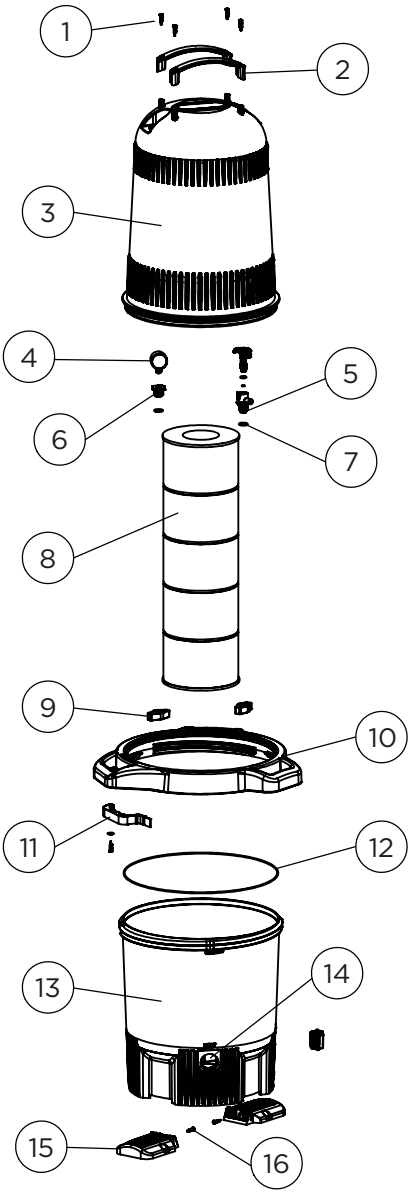
⚠ **NOTE: Do not use a high pressure washer, as it may damage the filtration element.**

TROUBLESHOOTING

Problem	What to look for	Treatment
Dirty, clogged, or abused element.	Dirt, debris, or tear in pleats or folds.	Clean or replace element.
Oversized pump. Produces excessive flow rates and/or pressures.	Flattened pleats or folds. Embedded dirt or debris into the filter material. Breaking of internal core of the element. Breaking or splitting of the end plates of the element.	Re-size pump and replace filter element.
Very dirty pool water.	Algae build-up on the pool walls.	Frequent cartridge cleaning or replacement. Consult professional pool company for pool chemistry instructions.

REPLACEMENT PARTS

	Part #	Description
1	160-0005	Handle screw
2	141-1008	Lid handle
3	141-1000	Lid
4	141-2000	Pressure gauge
5	141-4000	Valve
6	141-1004	Reducer
7	145-0007	O-ring
8	141-2001	Cartridge
9	141-1006	Butterfly Nut
10	141-4005	Locking ring
11	141-1003	Ring handle
12	145-0013	Sealing gasket
13	141-1001	Filter Base
14	145-1000	Plug
15	141-1009	Pedals
16	160-0026	Pedal screw(s)



LIMITED WARRANTY

To original purchasers of this equipment, Lacus Innovations Inc. warrants its products free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase.

Parts which fail or become defective during the warranty period, except as a result of freezing, negligence, improper installation, use, or care, shall be repaired or replaced, at our option, without charge, within 90 days of the receipt of defective products, barring unforeseen delays.

To obtain warranty replacements or repair, defective components or parts should be returned, transportation paid, to Lacus Innovations Inc. For more information, please refer to your Lacus retailer. No returns may be made directly to the factory without the express written authorization of Lacus Innovations Inc.

Equipment that becomes defective during the warranty period, except as a result of freezing, negligence, improper installation, use, or care, or as a result of use in association with an automatic valving system, shall be repaired or replaced, at our option, without charge. All other conditions and terms of the standard warranty apply.

Lacus Innovations Inc. shall not be responsible for cartage, removal and/or reinstallation labor or any other such costs incurred in obtaining warranty replacements.

Lacus Innovations Inc. warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.

Some states or provinces do not allow a limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty grants you specific legal rights, and you may also have other rights that vary by state or province.

PRODUCT REGISTRATION

(Keep this warranty certificate for your records in a safe and convenient place.)

INSTALLATION DATE: _____

INITIAL PRESSURE GAUGE VALUE (CLEAN FILTER): _____

PUMP MODEL: _____

POWER IN HP: _____

FILTER MODEL: _____

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