



10/05

Element Filter

Owner's Manual and Installation Guide

Congratulations! You have purchased one of the most user-friendly pool filters available. Ideal for most pools, this element filter will provide you with many years of pool enjoyment.

This step-by-step installation and maintenance guide will provide the necessary information for you to install your new filter and easily maintain the equipment.

Before Installation be sure to read all instructions and warnings carefully. Refer to product dataplate(s) for additional operating instruction and specifications.

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this equipment, basic safety precautions should always be followed, including the following:

⚠ WARNING This filter operates under pressure. If this unit is not assembled properly or is operated with air in the circulation system, serious bodily injury and/or property damage could occur.

⚠ WARNING Your filter is a pressure vessel and should never be serviced while under pressure. Always shut off pump to relieve the pressure in the filter and open air bleed prior to servicing the unit.

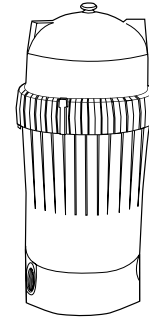
⚠ WARNING Always make sure the filter Ring-Lok is tightened to "built-in stop" prior to operating pump. **Do Not** remove or adjust the ring-lok while the pump is running; doing so may cause the filter cover to blow off, causing injury or property damage.

⚠ WARNING To reduce risk of injury, do not permit children to use this product unless they are closely supervised at all times.

⚠ WARNING Locate the system at least five feet (1.5M) from the pool to prevent it being used as a means of access to the pool by young children. (See ANSI/NSPI-8 1996 "Model Barrier Code For Residential Swimming Pools, Spas and Hot Tubs").

INSPECTION

Examine the equipment when received. Notify your dealer or carrier of any damage or missing parts. Verify that equipment is of size and model specified.



INSTALLATION LOCATION

Locate unit on a solid foundation as close to pool/spa as possible, but keep at a distance of at least 5 feet (1.5 m). (See above Warning). Give consideration to drainage - away from equipment, ventilation, and access for future servicing and winterizing.

PUMP SELECTION

A full line of pool/spa pumps are available for installation with these filters. For those installations where the equipment will be placed above the water level, a self-priming pump should be selected. Ask your dealer to determine the proper size pump for your application. Consideration must be given to pipe size and distance from pool or spa and friction losses of associated equipment.

GENERAL PLUMBING

FOR SOLVENT WELD CONNECTIONS

Rigid or flexible PVC pipe can be used. Pipe ends should be clean and free of any flask caused by the cutting operation. Be sure that the proper adhesive is used on the type of pipe specified.

Caution: We recommend that you consider climatic conditions when applying adhesives. Certain atmospheric situations, such as high moisture content, make the adhesive action of certain glues less effective. Check the manufacturer's instructions.

FOR THREADED CONNECTIONS

Use only Teflon tape or equivalent on threaded plumbing connections. Other pipe compounds may damage threads. We do not recommend the use of silicone or petroleum based compounds. **DO NOT OVER-TIGHTEN: HAND TIGHTEN PLUS 1/2 TURN IS SUFFICIENT.**

FILTER PLUMBING

Your filter is provided with 1-1/2" NPT or 2" NPT threaded inlet and outlet. When installing, look for the words PUMP and RETURN molded into the filter body.

When the filter is located below water level, a valve should be installed at both PUMP and RETURN. Shutting off both of these valves will prevent loss of water during regular maintenance.

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FILTER START-UP

1. If pressure gauge is not factory installed, thread the provided gauge (which is wrapped with Teflon tape) into the filter cover.
2. Check to be sure assembly nut on filter is tight, lock tabs engaged and drain valve closed. Open air relief.
3. Perform pump start-up.
4. Close vent when droplets first appear. An excessive spray of water may occur if venting is not done slowly.

WINTERIZING

Consult your dealer for advice on winterizing your equipment if freezing temperatures occur in your locality. His knowledge of your equipment makes him the best qualified source of information. Follow his recommendations, and if these include draining the filter, proceed as follows: 1. Clean the filter element and store in dry area. 2. Drain system by removing drain plug.

WATER CHEMISTRY

A proper and consistent use of chemicals is necessary to maintain clean, sanitary water, prevent a spread of germ infection and control the growth of algae which can spoil the appearance and enjoyment of your pool or spa. Chlorine is the most commonly used chemical to provide clean, sanitary water. Either dry or liquid chlorine (calcium or sodium hypochlorite) can be used which should be added daily as it is dissipated by dirt and germs as well as by the sun and the wind. It is also important that the correct level of acidity or alkalinity of the pool water be maintained. This is the pH of your pool with pH 7.0 being neutral. Readings above pH 7.0 are alkaline and readings below are acid. A desirable range is 7.2 to 7.4. Consult your local pool/spa dealer for complete information on proper application and use of chemicals.

FILTER MAINTENANCE

Filter tank and contents should not require attention other than cleaning filter element, provided water is kept in continuous chemical balance without heavy dosages of corrosive chemicals.

Note: The element support assembly on the SherLok automatically purges any accumulated air to maintain the internal water level up to the top of the element. We, however, recommend periodic manual opening of the vent plug to purge any small amounts of air accumulated under the cover.

REMOVING AND CLEANING FILTER ELEMENT

When the new filter is first placed into service, note the reading on the pressure gauge. As dirt builds up in the filter, the pressure reading will increase. When it reads 6 - 8 psi above the original reading, the filter element should be cleaned as described below or replaced.

Filter Element Cleaning:

1. **STOP** pump.
2. Close inlet and outlet valves if installed (for units below water level).
3. Loosen the yellow air vent on the top of the filter.
4. Remove the Ring-Lok. Push in the top of the yellow locking tab as you begin to rotate the Ring-Lok to allow removal.
5. Using the Lid Removal System tabs on the bottom side of the nut, remove the cover by inserting the tabs between the cover and the body and rotating the nut allowing the tabs to pry the cover upward.
6. Grasp the filter element by the handle and remove it from the support pipe.
7. The element can usually be cleaned with a high pressure nozzle on a garden hose. Place the nozzle inside the element and spray outward pushing any trapped debris from the element.

TIP: For optimum cleaning, allow your element to dry. Brush off the remaining dirt and chemicals that will not wash off with the hose. An additional element will allow you uninterrupted enjoyment of your pool during this cleaning procedure.

INSTALLING FILTER ELEMENT

1. Remove and clean the O-ring on the filter body and lubricate with petroleum jelly. Also, clean the O-ring groove on the filter body and the sealing surface inside the filter cover to ensure a leak-free seal. Install the O-ring on the filter body.
2. Clean the dirt catcher at the bottom of the support tube. This assembly can be removed if desired by lifting upward on the support tube while rocking it from side to side. Once clean, replace it by firmly pushing it back into the filter body.
3. Slide the clean filter element back onto the support tube and press it firmly into place.
4. Place the cover on the filter body and press firmly downward until it seats. **TIP:** It is easier to replace the cover if the air bleed valve is open.
5. Clean the threads of the Ring-Lok nut and the threads on the filter body with water or a clean rag. Place the Ring-Lok nut on the filter and tighten to the built-in stops on the threads. Be sure the yellow locking tab is fully engaged.

SERVICE & REPAIR PARTS

Refer all service to your local dealer as his knowledge of your equipment makes him the best qualified source of information. Order all repair parts through your dealer. Give the following information when ordering repair parts: Unit nameplate information and description of part.

TROUBLE SHOOTING

FILTER TANK LEAKS WATER

- *Split in tank due to freeze or other damage. Replace.
- *Lid O-ring damaged, twisted, or not lubricated. Inspect.
- *Lock ring to lid not tight. Inspect and tighten down to engage lock tabs.
- *Air bleed valve loose or O-ring missing. Inspect.
- *Inlet/outlet fittings loose or not sealed. Inspect.

DEBRIS BACK TO POOL

- *Dirty filter. Clean element in filter cleaner or replace.
- *Cracked dirt catcher. Inspect and replace if necessary.
- *Filter collapsing. By-pass through top of dirt catcher. Inspect or replace.
- *Filter isn't seated in dirt catcher. Inspect.
- *Filter is installed upside down. Install top side up. Inspect.

FILTER DOESN'T KEEP WATER CLEAN

- *Filter collapsing. Bypass through top of dirt catcher. Inspect or replace.
- *Holes in filter. Inspect or replace.
- *Filter installed upside down. Inspect or install top side up.
- *Filter isn't seated in dirt catcher. Inspect or install top side up.
- *Water started out dirty. Continue to filter and clean as necessary.
- *Heavy swimmer load. Clean filter as necessary.
- *Flow rate too low. Increase flow to turn water more often.

PRESSURE DOESN'T DROP IN FILTER AFTER CLEANING

- *Dirty filter. Clean element in filter cleaner or replace.
- *Gate valve closed in return line. Inspect.
- *Return line partially clogged. Inspect.
- *Return fitting clogged. Inspect.

TANK WILL NOT ALIGN WITH BASE MOUNTING HOSES

- *Check position of tank. Rotate.
- *Loosen pump from base to allow filter to move and align.

FILTER LID LEAKING

- *Inspect O-ring, cracks, twisted. Replace.
- *Lid cracked. Replace.
- *Tank cracked. Replace.

If the recommendations in the TROUBLE SHOOTING portion of this manual do not solve your particular problem, please contact your local dealer for service.

JACUZZI® POOL PRODUCTS - Limited Warranty

Cantar Pool Products (the Company or CPP) warrants Jacuzzi® pool products to be free of defects in material and workmanship for a period of **36 months** from the date of purchase or **48 months** from the date of manufacture, whichever comes first, with the following exceptions:

Shaft Seals - For all pumps with the Jacuzzi® patented "dry-run" heat sink, the shaft seal carries an *unconditional* warranty against damage or failure for 2 years from date of purchase/installation.

Light Bulbs - FullMoon Watercolor LED light bulbs are warranted for 1 year from date of purchase; incandescent bulbs are warranted for 90 days from date of purchase.

Misc. - Filter elements, DE grids, white-goods, strainer baskets, strainer basket "flap" and "priming tube", pressure gauges, square rings, o-rings, gaskets, and all replacement parts are warranted for 1 year from the date of purchase.

In order to activate this 3-year warranty, Jacuzzi® products may be registered with Cantar Pool Products by either of the following methods:

- Mail-in Warranty Registration Card
- Online at www.cantar.com

This warranty extends only to the original retail purchaser and only during the time in which the original retail purchaser occupies the site where the product was originally installed. CPP's warranty obligation with regard to equipment not of its own manufacture is limited to the warranty actually extended to CPP by its suppliers.

THIS WARRANTY IS EFFECTIVE January 1, 2005. ANY IMPLIED WARRANTIES WHICH THE PURCHASER MAY HAVE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE WARRANTY PERIOD. Some US states or Canadian provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. IN NO EVENT SHALL CPP BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some US states or Canadian provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

This warranty applies to products used in swimming pool, spa, & aquaculture applications only and does not apply to any product which has been subjected to negligence, alteration, accident, abuse, misuse, improper installation, abrasives, corrosion and/or electrolysis, improper voltage supply, vandalism, civil disturbances, or acts of God (including but not limited to freeze damage, lightning strikes, and other damage caused by catastrophic events). The only warranties authorized by CPP are those set forth herein. CPP does not authorize other persons to extend any warranties with respect to its products, nor will CPP assume liability for any unauthorized warranties made in connection with the sale of its products. The Company will not be responsible for any statements that are made or published, written or oral, which are misleading or inconsistent with the facts as published in the literature or specifications furnished by the Company.

WARRANTY CLAIM PROCEDURE

Warranty claims shall be made by contacting the installing/selling, builder, dealer, or retailer (point of purchase) or the Jacuzzi® pool products distributor in your area.

All equipment must be inspected by a local Company representative or at the factory before warranty is authorized. All charges or expenses for freight to and from the factory, removal and reinstallation of the products, or installation of a replacement product are the responsibility of the purchaser unless otherwise expressly authorized by Cantar Pool Products. The Company, at its discretion, may repair or replace free of charge (F.O.B. factory in Toronto, Ontario) any product that proves defective within the warranty period, or it may issue credit in the amount of the invoice of the defective

equipment in lieu of repair or replacement. The Company reserves the right to substitute new or improved equipment on any replacements.

The provisions of this additional written warranty are in addition to and not a modification of or subtraction from the statutory warranties and other rights and remedies provided by any US state law or Canadian provincial law.

PARTS FOR MODELS SHER80, 120, 160 AND 200

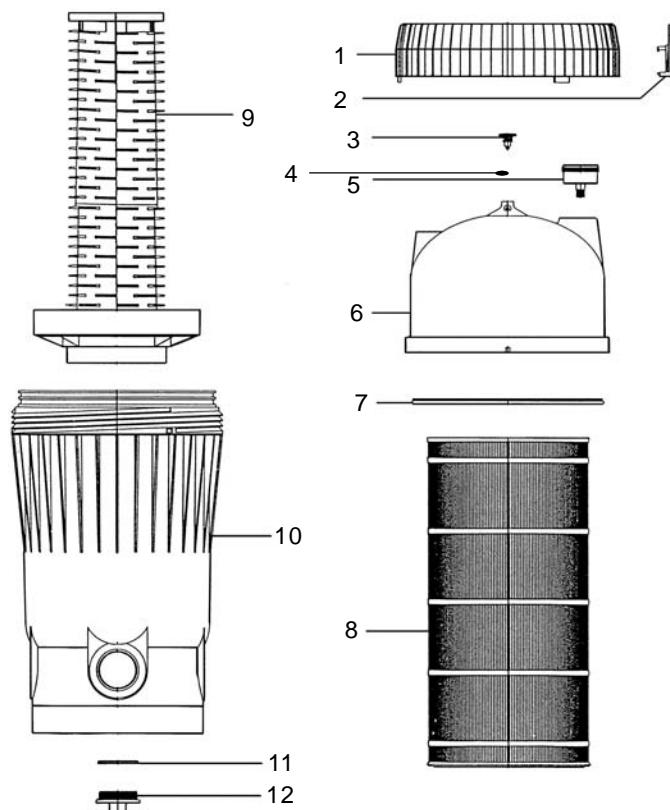


FIG. NO.	PART NO.	DESCRIPTION
1	42-3671-02-R	Ring-Lok™
2	42-3677-06-R	Cover Latch
	42-3677-06-R10	Cover Latch (10 per bag)
3	39-2547-01-R	Air Bleed Valve Knob w/O-Ring
	39-2547-01-R50	Air Bleed Valve Knob w/O-Ring (50 per bag)
4	47-0106-08-R	O-Ring 3/16" x 3/8" x 3/32"
5	9193-4182-R	Pressure Gauge 0-60# 1/4 CBM
6	42-2852-05-R	Cover - 80 sq. ft.
	42-2998-00-R	Cover - 120 sq. ft.
	42-3610-00-R	Cover - 160 sq. ft.
	42-3611-01-R	Cover - 200 sq. ft.
7	47-0380-47-R	O-Ring 11-1/2" x 11-7/8" x 3/16"
8	42-3674-09-R	Element Assy. 80 sq. ft. 14.59 LG
	42-3675-08-R	Element Assy. 120 sq. ft. 20.90 LG
	42-3667-07-R	Element Assy. 160 sq. ft. 24.32 LG
	42-3668-08-R	Element Assy. 200 sq. ft. 29.82 LG
	42-3674-19-R	Microban Element Assy. 80 sq. ft.
	42-3675-18-R	Microban Element Assy. 120 sq. ft.
	42-3667-17-R	Microban Element Assy. 160 sq. ft.
	42-3668-18-R	Microban Element Assy. 200 sq. ft.
9	42-2946-03-R	Dirt Catcher 80 sq. ft.
	42-2947-02-R	Dirt Catcher 120 sq. ft.
	42-3739-02-R	Dirt Catcher 160 sq. ft.
	42-3740-09-R	Dirt Catcher 200 sq. ft.
10	42-3673-00-R	SherLok 2 Filter Body
	42-3662-00-R	SherLok 1-1/2 Filter Body (Systems)
11	47-0228-01-R	O-Ring
12	43-3092-02-R	Plug 2" w/O-Ring
	43-3091-03-R	Plug 1-1/2" w/O-Ring

Uniel® Filter Cartridge Cleaning Instructions

For Baquacil® Users:

Special care must be taken when cleaning filter cartridges used in a swimming pool or spa using Baquacil® as a sanitizer. Because of the way Baquacil® works, the filter element must be cleaned more thoroughly and more frequently than in a chlorine system. If extreme care is not taken to completely remove all residue from the filter media a buildup will occur. This buildup will significantly shorten the life of the filter element.

Unlike chlorine which oxidizes the bacteria in the water, polyhexamethylene biguanide (PHMB) based sanitizers destroy the bacterial cells. PHMB, the active ingredient in Baquacil®, locates and binds to bacterial surfaces. It then attacks and overcomes the outer bacterial cell wall. Once this wall has been compromised, the cytoplasmic membrane, the inner cell membrane, is destroyed. This destruction allows the cell contents to disperse into their surroundings where they are likely broken down into their elemental parts by the non-chlorine oxidizer Baqua Shock®.

In addition, Baquacil® is a mild coagulant which combines bacterial cells as well as other small particles contributed by the environment, bathers, etc. into particles large enough to be trapped by the filter. In comparison with all other trapped contaminants in a typical pool or spa the amount of bacterial cells that are deposited on the filter is minimal. *The resulting deposit is a gray sticky film which can only be removed with Baqua Clean®. If TSP or any TSP type cleaner is used prior to stripping the film, the cleaner and the gray film will combine to form a gum-like substance. Once this occurs, the substance cannot be removed from the media and the filter cartridge must be replaced.*

Caution: Please heed all manufacturers' posted instructions, warnings and cautions when using Baquacil® or Baqua Clean®.

Chlorine users please refer to the cleaning instructions on the reverse side.



Uniel®

Uniel wishes to thank Zeneca, Inc. for its assistance in compiling these cleaning instructions. Baquacil® and Baqua Clean® are registered trade marks of the Zeneca Corporation.

Filter Cartridge Cleaning Instructions for Chlorine Users:

START UP PRESSURE
6-8 PSI



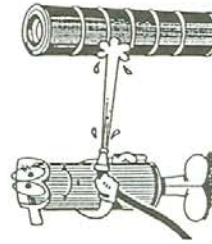
STEP 1:

Clean the cartridge when the filter canister pressure reaches a maximum of 6-8 PSI above the initial system or new cartridge starting pressure.



STEP 2:

Remove the cartridge from the filter housing. (Please refer to manufacturer's instructions.)



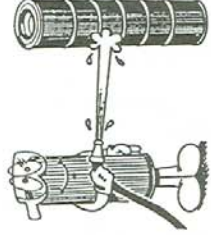
STEP 3:

Rinse the cartridge with a garden hose to remove all loose debris.



STEP 4:

Use a commercially available cartridge cleaner to remove oils. As an alternative, soak the cartridge overnight in a solution of either one cup tri-sodium phosphate (T.S.P.) or one cup of automatic dishwashing detergent to five gallons of water.



STEP 5:

Rinse the cartridge thoroughly before putting it back in the filter housing.



NOTE:

To remove calcium or mineral buildup, soak the cartridge in a separate solution of one part muriatic acid to twenty parts water until the bubbling stops. Thoroughly rinse the element before putting it back in the filter housing.

CAUTION: All oils and cleaning solution must be removed from the cartridge before soaking it in the acid solution (See Step #4 above).

Failure to remove all oils and cleaning solution before acid soaking will result in a permanent restriction of water flow and inability to reduce differential pressure, thus causing premature cartridge failure.

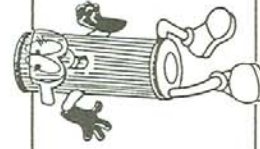
WARNING: Wear rubber gloves and safety glasses when using acid or chlorine.



Do not mix chlorine or liquid bleach with acid.

Always add acid to water.

Baquacil® users please refer to Baquacil® cleaning instructions. (See reverse side of page)



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