INSTALLER’S IMPORTANT SAFETY NOTE
When installed in conjunction with a gas heater, be sure to equip it with a
fireman’s switch or install a check valve between the heater and the filter. Make
sure all pressure or flow switches are set properly.

SPRING ACTUATED BY-PASS
All models have a built-in spring actuated by-pass which allows 100% filtration of the water on low speed of two speed pumps. During high speed
operation, the spring opens, permitting unrestricted flow and maximum
hydrotherapy action. Before installation this by-pass can be easily removed
and a plug inserted to disable by-pass allowing 100% filtration at all times.
(See instructions on back).

WHERE TO INSTALL
The Dynamic Series II & III filters must be installed on the pressure side of the
pump with flow arrow on bottom manifold pointing in direction of water flow.
Filter can be installed directly to spa flange or deck using special
bottom lock flange or in rigid PVC plumbing. (See drawing on back for
installation options).

INSTALLATION INSTRUCTIONS WHEN INSTALLED AWAY FROM SPA OR
DECK
Be sure to install a valve on both inlet and outlet of filter when filter TOP will be
located BELOW water level. The valves will prevent out flow of water
during filter maintenance. Filter should be as near to vertical as possible.

INSTALLATION DIRECTLY TO SPA FLANGE OR DECK
NOTE: When using the optional Rainbow Filter Niche, follow niche
installation instructions.
1. Place filter on a level surface where hanger filter from spa flange or deck. Determine location and
cut a 6" diameter hole. For sealing between the filter and the spa
we recommend Rainbow’s optional O-ring #R170070. If a silicone sealant is
used, it is recommended you check with the silicone manufacturer for
compatibility with all sealing surfaces.
2. Remove bottom lock flange and slide filter through hole in flange or
dec or return ring.
3. Align filter for easiest plumbing, making sure inlet and outlet ports are in
the correct position.
4. Install bottom lock flange, hand-tightening securely. DO NOT OVER-
TIGHTEN. Overtightening may cause filter to leak around lid. This firmly
attaches filter to spa flange or deck making filter ready for plumbing. NOTES: If spa is
foamed on backside, avoid getting foam on filter, in case filter needs to be
removed for any reason.

PLUMBING INSTRUCTIONS FOR SLIP SOLVENT WELD PORTS
For rigid PVC, choose I.P.S. Weldon Solvent Cement #710, #711 or equal. For
flexible PVC, use #796 or equal. Follow standard solvent cement cutting,
priming and pluming procedures to install pipe to filter inlet and
outlet ports. Be careful not to let excess solvent cement foul operation of
by-pass assembly.

PLUMBING INSTRUCTIONS FOR FEMALE PIPE THREADED PORTS
Wrap male pipe threads of fitting to be installed with 3 full wraps of tape
or use other suitable pipe joint sealing compound. Tighten fitting as much
as possible by hand, then tighten another 1/2 to 2 turns more using proper
wrench. DO NOT OVERTIGHTEN.

If any plumbing other than noted above is used to install the filter,
i.e. additional filter-by-pass, it could affect the efficiency of the filter and/or the
chemical dispenser.

The RTLB was designed for bottom discharge using an elbow connection.
This allows a full 360 degree choice of discharge plumbing direction. The side
outlet port must be plugged. If necessary or desired the bottom outlet may be
plugged and the side outlet can be utilized for straight line plumbing.

NOTE: Do not use both outlet ports as double discharge as this lowers the
pressure and flow in each line possibly preventing the heater from operating.

NEVER USE ANY TYPE OF LUBRICANT ON LOCKING FLANGE OR
MATCHING THREADS ON FILTER

FILTER OPERATION
1. Make sure lock ring is secure. Close air vent valve.
2. Make sure inlet and outlet valves are open (if used).
3. Start pump. The filter’s design will automatically eliminate all air. Filter is
now operational.

MAINTENANCE
IT IS RECOMMENDED THAT YOUR CARTRIDGE BE CLEANED EVERY
3 TO 6 WEEKS OR AS NEEDED. REPLACE WHEN NECESSARY.

TO MAINTAIN WARRANTY PROTECTION, USE ONLY RAINBOW
LIFEGARD CARTRIDGES.

CLEANING THE CARTRIDGE
1. Shut off pump and timers.
2. Close inlet and outlet valves (if used).
3. Open air vent valve.
4. Depress lock spring, disengaging lock tab from lock ring.
   Turning counter clockwise, unscrew lock ring. Lift off lid and/or dispenser
   and remove cartridge.
5. Remove cartridge gaskets (one each in bottom of cartridge housing and
   one on lid and/or dispenser).
6. Using a garden hose and nozzle or other high pressure device, hose
   cartridge clean with a jet stream of water. Work top to bottom on each pleat.
   CAUTION: Do not use a brush which can damage the material. To remove
   collected sun tan lotion and body oils that housing will not remove, soak
   cartridge in warm water with detergent added. To remove calcium deposits
   (a white chalky material) soak cartridge in a one part Muratic Acid to 1 parts
   water solution. (Use caution and read warnings on Muratic Acid container.
   Wear protective clothing, gloves and goggles for eye protection). USE A
   PLASTIC CONTAINER ONLY. Calcium deposits indicate a high spa/pool
   pH and should be corrected by adding acid to the spa/pool in very small
   amounts until the pH reads between 7.2 and 7.6 (7.4 is ideal). If condition
   persists consult a spa/pool dealer or service company familiar with local
   water condition problems.
   NOTE: Commericially available cartridge cleaners may be used and can be
   obtained from your spa/pool dealer.

INSTALLING THE CARTRIDGE
1. Clean and install cartridge gaskets.
2. Clean and lubricate lid O-ring with a Lifegard Silicone only. Use of other
   lubricants may damage the filter.
3. Place cartridge over cartridge support at bottom of housing.
4. Push lid and/or dispenser’s cartridge support firmly into center of
   cartridge.
5. Thread on lock ring until lock tab snaps into place. DO NOT FORCE
LOCK RING PAST STOP.

CAUTION: NEVER USE ANY TYPE OF LUBRICANT ON LOCK RING OR
MATCHING THREADS ON FILTER.
6. Be sure air vent is closed.
7. Open inlet and outlet valves (if used).
8. Start pump. Filter is now operational. Remember, a good cleaning job and
   properly maintained water chemistry in your spa/pool ensures long and
trouble free filter operation.

WINTERIZING YOUR FILTER
If freezing temperatures occur in your area, the filter must be drained when
not in use. Drain cartridge housing, clean cartridge and store indoors in a
dry place.
#7, #8A,

By-pass plug for applications where 100% filtration is desired at all times. Remove #8, 8A by-pass assembly by inserting a rod or pipe through manifold outlet port and tap on by-pass assembly to remove. Insert #7, 7A by-pass plug through inlet port and into manifold until firmly seated.

WARRANTY

The DYNAMIC® SERIES filter is warranted to be free from defects in material and workmanship for the first year from date of purchase. The remainder of the 5 year warranty is covered by a pro-rata schedule of 20% of list price for each year of service. Rainbow Lifegard will not be liable for any labor cost of removing or replacing the filter or replacing filter parts and owner agrees to pay all shipping charges to and from Rainbow Lifegard. El Monte, California. Cartridges and replaceable parts are not guaranteed after the first year because of normal wear and expected service replacement. Use of other manufacturer's replacement parts voids warranty.

This warranty does not cover failure in service due to improper or faulty installation; fire, trauma, flood, neglect, damage incurred in shipping, or extend to any incidental, consequential or in lieu of damages whatsoever. PLEASE NOTE: Some states do not allow the exclusion of incidental or consequential damages, so the above limitations or exclusion may not apply to you.

The foregoing warranties are exclusive and all other express warranties are void. Implied warranties, including but not limited to the implied warranties of merchantability and fitness for particular purpose shall not extend beyond the duration of the express warranties provided herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

DYNAMIC® SERIES II & III

TOP LOAD CARTRIDGE FILTER MODEL RTL/RCF 1 1/4" & 2" HIGH FLOW PARTS BREAKDOWN DRAWING

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<th>Qty</th>
<th>Description</th>
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<td>Air Vent Valve</td>
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<td>75 Sq. Ft. Cartridge</td>
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<td>R172079</td>
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<td>1 1/4&quot; Access plug (earlier models)</td>
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*All three cartridges are interchangeable

**Only one applies to your filter; check model number when ordering.