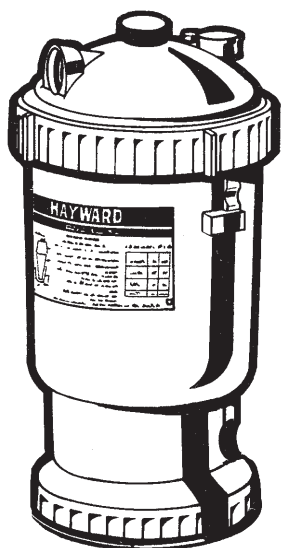


**HAYWARD®**

# ASL™ Filter Series

*All Season Long*

MODELS C850, C1250



*The ASL models C850 and C1250 are high performance swimming pool filters with a maximum flow rating of 70 gallons per hour. Manufactured from Hayward's exclusive PermaglassXL™ material, ASL is designed to provide years of trouble-free operation.*

## A. FEATURES

- New glass reinforced, non-corrosive Permaglass XL™ filter tank will provide years of trouble-free operation.
- Easy-Lok™ ring design allows quick access to all internal components.
- Unique safety latch prevents unwanted entry into the tank.
- Self-venting design automatically purges any air present in the system.

## B. FILTER LOCATION

1. Though the filter is designed for outdoor use, it is advisable to protect electrical components from the weather. Select a well drained area, one that will not flood when it rains.
2. Set the filter on firm, level ground. Position the tank for easy access to the internals, and pressure gauge, with at least 24" (61 cm) for the C850 or 27" (69 cm) for the C1250 of top clearance. Position the filter so that it may drain by gravity.

## C. PLUMBING

1. Use 1-1/4" or 1-1/2" I.D. flexible plastic pipe or hose joined with insert fittings and stainless steel clamps. If rigid PVC is used, be sure to provide unions for easy servicing.
2. All plumbing connections on the ASL filter are 1-1/2" N.P.T. When making connections, use plastic male-end adapters. Apply three turns of Teflon tape or plastic pipe sealant to the male threads. Screw the fitting into the thread hand tight; then using a wrench, tighten one more full turn if necessary. Adapters have varying tolerances and over tightening with a wrench may only cause damage to the filter.
3. Ball type valves are recommended where needed. (See fig. 1)
4. Connect the pool suction plumbing between the skimmer, pool outlet, and the pump.
5. Connect the pool return (inlet) plumbing.
6. A filter drain valve or plug is furnished with each filter and is all that is needed for complete filter draining. A manual air vent valve is furnished to aid in the bleeding of unwanted air when starting or draining the filter.
7. All electrical connections should be made in accordance with local codes.
8. Refer to pump instruction book for pump information.

## PREFERRED FILTER LOCATION—BELOW WATER LINE

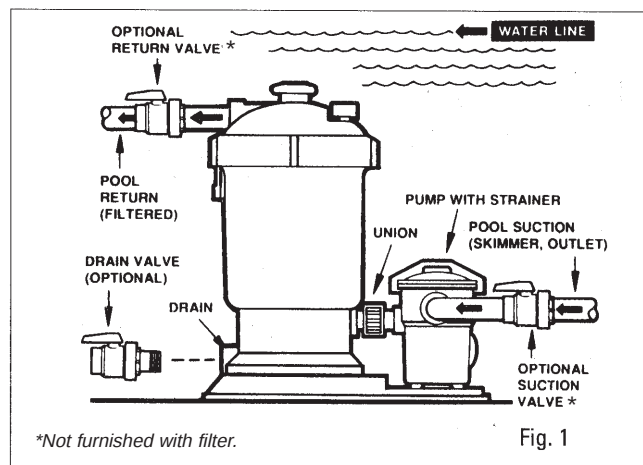


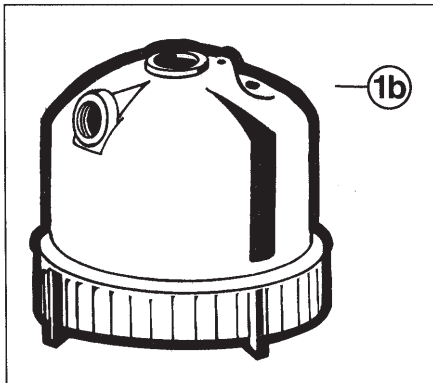
Fig. 1

**NOTE:** ANSI/NSPI-4 Article V, standard for above-ground and on-ground pools, advises that components such as the filtration system, pumps and heater be positioned so as to prevent their being used as a means of access to the pool by young children.

## D. PARTS

### MODELS C850, C1250

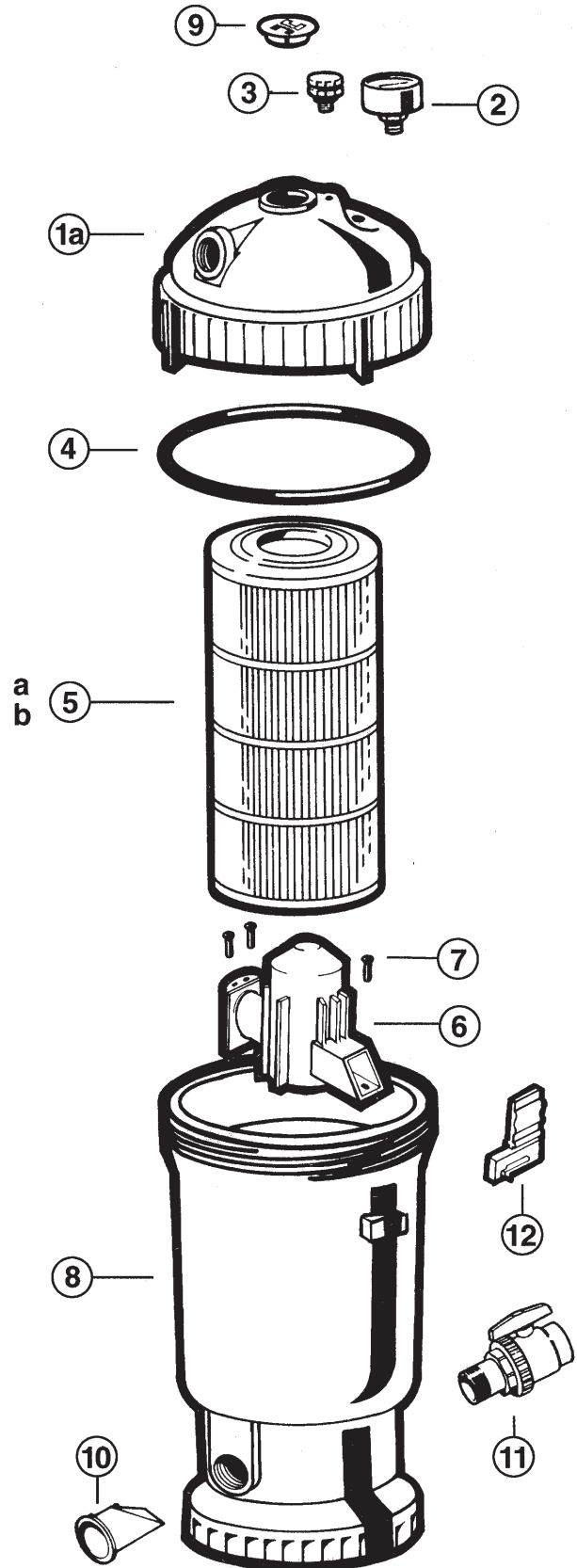
#### ASL SERIES FILTER



| REF. NO. | PART NO.  | DESCRIPTION                         | NO. REQ'D. |
|----------|-----------|-------------------------------------|------------|
| 1a       | SCX45BC   | C850 Filter Head with Locking Ring  | 1          |
| 1b       | SCX70BC   | C1250 Filter Head with Locking Ring | 1          |
| 2        | ECX27091  | Pressure Gauge                      | 1          |
| 3        | ECX1322A  | Air Relief                          | 1          |
| 4        | RGX45G    | Filter Head O-Ring                  | 1          |
| 5a       | CX850RE   | C850 Cartridge Element              | 1          |
| 5b       | CX1250RE  | C1250 Cartridge Element             | 1          |
| 6        | RGX45D    | Diffuser                            | 1          |
| 7        | RGX45Z1   | Diffuser Screws                     | 3          |
| 8        | RGX45AA   | Filter Body                         | 1          |
| 9        | RGX45L    | Logo Cap                            | 1          |
| 10       | ECX4077B1 | Check Valve                         | 1          |
| ----     | ECX1005A  | Snap Ring for Check Valve           | 1          |
| 11       | SP0723    | Ball Valve (optional)               | 1          |
| 12       | CX400D    | Locking Ring Latch                  | 1          |

#### ASL SPECIFICATIONS

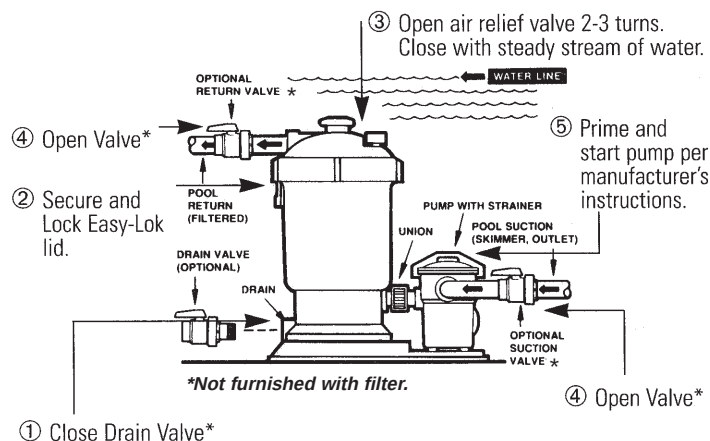
| Model No.                         | C850    |          | C1250   |          |
|-----------------------------------|---------|----------|---------|----------|
| Design Flow Rate                  | 70 GPM  | 265 LPM  | 85 GPM  | 322 LPM  |
| Pressure Loss at Design Flow Rate | 1.0 PSI | .07 BAR  | 1.0 PSI | .07 BAR  |
| Maximum Working Pressure          | 50 PSI  | 3.45 BAR | 50 PSI  | 3.45 BAR |
| Required Clearance                |         |          |         |          |
| Side                              | 18"     | 46 CM    | 18"     | 46 CM    |
| Above                             | 20"     | 51 CM    | 27"     | 69 CM    |



## E. BEFORE STARTING THE FILTER

Superchlorinate the pool water by adding unstabilized granular or liquid chlorine. Stabilized forms of chlorine are recommended for normal use after the initial clean-up of the water. Follow chemical manufacturer's recommendations for superchlorination and daily use.

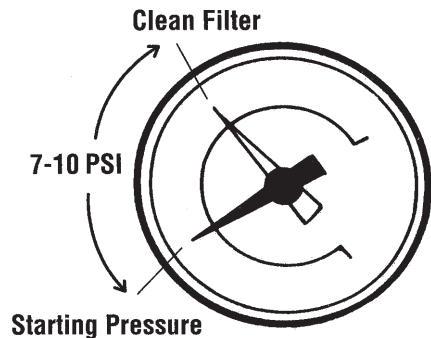
## F. STARTING THE FILTER



**Caution:** All suction and discharge valves must be open before operating the filter system. Failure to do so could cause severe personal injury and/or property damage.

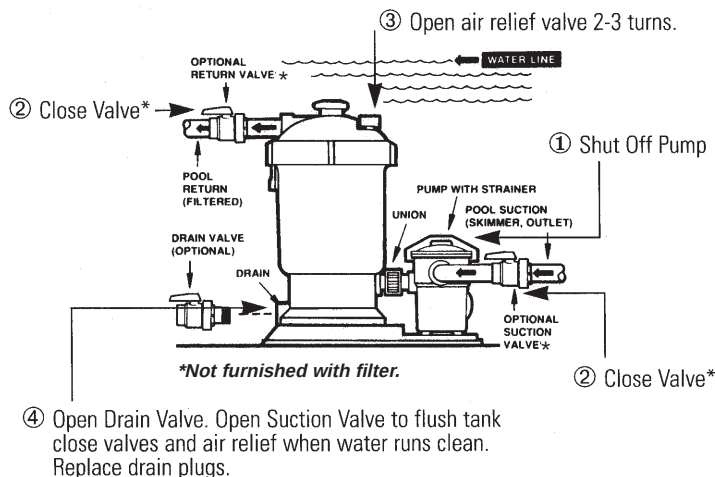
## G. FILTERING

Filtration starts as soon as flow is steady through the filter. Clean cartridge when pressures rises 7-10 PSI (.49-.69 Bar) from starting pressure.



## H. CLEANING/REPLACE CARTRIDGE ELEMENT

### Cleaning Cartridge Element



## I. REMOVING/CLEANING CARTRIDGE ELEMENT

Another method by which to clean the element is to open the filter and hose it clean.

1. Follow steps 1-4 in cleaning.
2. Depress safety latch and unscrew in a counterclockwise direction.
3. Lift out filter element and clean as instructed in PREVENTATIVE MAINTENANCE SECTION.

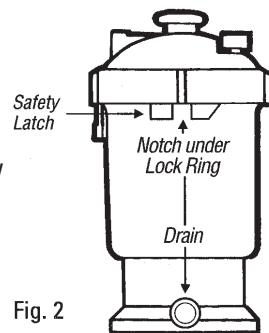


Fig. 2

## J. REINSTALLING ELEMENT

1. Clean debris from bottom of tank.
2. Replace element evenly on the collector hub in bottom of the filter body.
3. Place Easy-Lok lid evenly on filter body and turn clockwise until the notch on the locking ring engages securely to the safety latch directly over the drain. (See fig. 2)
4. Proceed as in STARTING THE FILTER.

## K. PREVENTATIVE MAINTENANCE

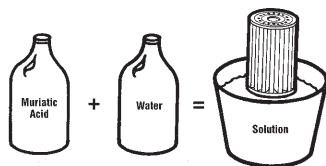
1. Pressure wash cartridge inside and out with Hayward's Jet-Action Cleaning Wand (EC2024) or a garden hose.

2. Allow to dry and brush pleated surface areas.

3. To remove algae, suntan oil and body oils, soak for one hour in a solution of filter element cleaner. (See your local pool dealer).

4. To remove calcium or mineral deposits, soak in muriatic acid solution. \*Caution: Use a plastic container and take extreme care—harmful to eyes, skin and clothing.

After cleaning, flush with water.



## L. VACUUMING

Vacuuming can be performed directly into the filter whenever needed. For fastest results, clean the filter before and after each vacuuming period. For heavy spring clean-ups, we recommend using a Hayward SP0727 diverter valve to by-pass the filter and accelerate the clean-up process. Consult your local Hayward dealer for a detailed explanation.

## M. WINTERIZING

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 element at the end of the pool season by using your garden hose with a high pressure nozzle or the Hayward EC2024 Jet-Action Cleaning Wand. You will then be prepared to

## N. SERVICE AND REPAIRS

Consult your local authorized Hayward dealer or service center. No returns may be made directly to the factory without the expressed written authorization of Hayward Pool Products, Inc.

## O. ALGAE CONTROL

Algae is a form of plant life which can vary in size from a few thousandths of an inch to the size of a small tree. Of the many forms of algae, those most frequently found in swimming pool water are microscopic in size and green in color.

Algae readily grows in sunlight and can, under favorable conditions, quickly overgrow a swimming pool turning it completely green in just a few hours. On the other hand, swimming pool water can be kept unfavorable to algae growth simply by maintaining a free chlorine level of at least 1.0 ppm in the water at all times. The chlorine level should be checked at least once a day using a suitable test kit.

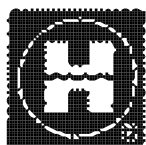
If an algae condition develops and the pool water "blooms" green, superchlorination of the pool will be necessary to clear it. Add unstabilized granular chlorine, or liquid chlorine. Follow chemical manufacturer's recommendation for superchlorination. The algae will quickly become inactive and can then be removed by the filter. Live algae, on the other hand, multiplies so fast that the filter cannot keep up with its growth rate.

When correctly used, commercial algaecides are effective against algae, though algaecides should be used in conjunction with, and not as a substitute for regular chlorination or superchlorination.

Maintaining a free chlorine level of at least 1.0 ppm in the pool water at all times is the most effective way to prevent algae growth in swimming pools.

## POOL CHEMISTRY GUIDELINES

| SUGGESTED POOL CHEMISTRY LEVELS     |                | ACTION REQUIRED TO CORRECT POOL CHEMISTRY |                                                                                                 |
|-------------------------------------|----------------|-------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                     |                | TO RAISE                                  | TO LOWER                                                                                        |
| pH                                  | 7.2 to 7.6     | Add Soda Ash                              | Add Muriatic Acid or Sodium Bisulphate                                                          |
| TOTAL ALKALINITY                    | 100 to 130 ppm | Add Sodium Bicarbonate                    | Add Muriatic Acid                                                                               |
| CHLORINE (UNSTABILIZED)             | 0.3 to 1.0 ppm | Add Chlorine Chemical                     | No action—chlorine will naturally dissipate                                                     |
| BROMINE                             | 2 to 4 ppm     | Add Bromine                               | No action—bromine will naturally dissipate                                                      |
| CHLORINE STABILIZER (Cyanuric Acid) | 40 to 70 ppm   | Add Stabilizer                            | Dilution—partially drain & refill pool with water that has not been treated with Cyanuric Acid. |



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