

# POOL-QUIP HRS 2000 FILTER

## ASSEMBLY INSTRUCTIONS

### FUNCTION OF THE FILTER:

The purpose of a filter is to remove foreign material from the water. These materials are dead algae growth, inert bacteria and airborne debris and organic matter introduced by swimmers.

Filtration is entirely a physical mechanical straining out of unwanted foreign solids. A correctly maintained filter will eliminate most of the causes of unsightly water, keeping your pool sparkling clean.

### Important hints to remember:

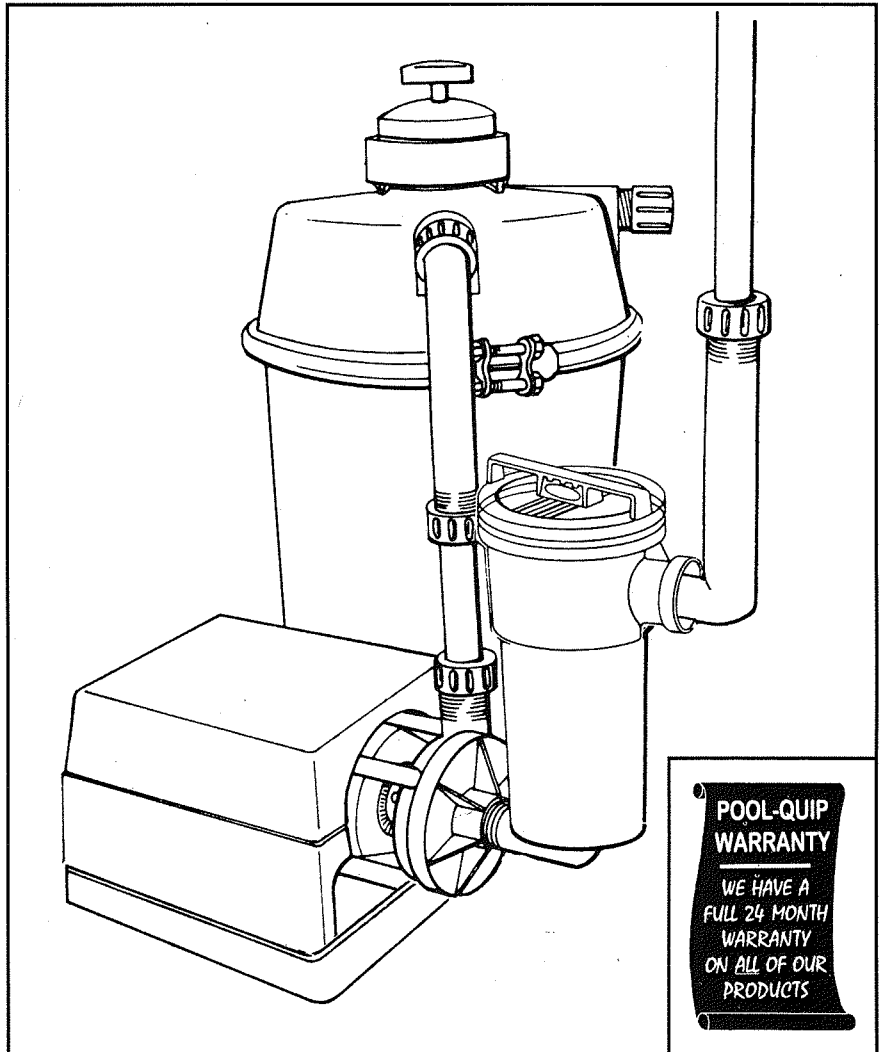
- (1) A filter, regardless of size, will not remove live algae from your pool.
- (2) A filter does not purify water.
- (3) Algae is killed and purification is accomplished by proper use of chemicals (Refer to instructions for chemical treatment of pools).
- (4) Correctly chemically treated water enhances filtration.
- (5) Green water indicates presence of live algae — DO NOT run filter until algae is killed.

### How often should you filter?

The length of operating time required by your filter to achieve clear water is governed by a number of factors:—

- (1) Use of the pool.
- (2) Number of people in the pool.
- (3) Climatic conditions.
- (4) Environment and area where the pool is located.
- (5) Chemical treatment.
- (6) Size of Pool.

Hence pool water differs and once the proper filter run has been established make it a daily pattern. On hot days and increased bathing you should run the filter longer. A greater chemical dosage will also be required. Run your filter every day, even if the pool has not been used. Avoid running your filter in extreme heat. The best time to run your filter is during early morning and evening. Chlorine should be added after sundown and the filter



should be running to ensure complete dispersion of chlorine throughout the water. During the winter it is advisable to check water condition and run filter approximately every two weeks.

Before you instal your filter, Due consideration should be given to local Council by-laws.

All electrical equipment should be properly earthed.

Weatherproof plug and switches should be used and installed in minimum of 45cm (18") above ground level and 3 metres (10') from the pool perimeter; in accordance with the national code.

**INSTALLATION OF PLUGS AND SWITCHES SHOULD BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.**

The pump motor must be connected to a three wire earthed system using a weatherproof plug, lead and switch.

DO NOT CONNECT wire to lighting system. Install filter on a precast concrete slab in a dry place with ample drainage and free from damage by flooding.

**DO NOT RUN PUMP WITHOUT WATER.**

NOTE: The manufacturer accepts no responsibility for damage caused by pump being run without water or if motor is found to have water damage due to insufficient drainage. Read carefully the instructions before starting normal maintenance.

The Manufacturer reserves the right to alter all specifications without notice.

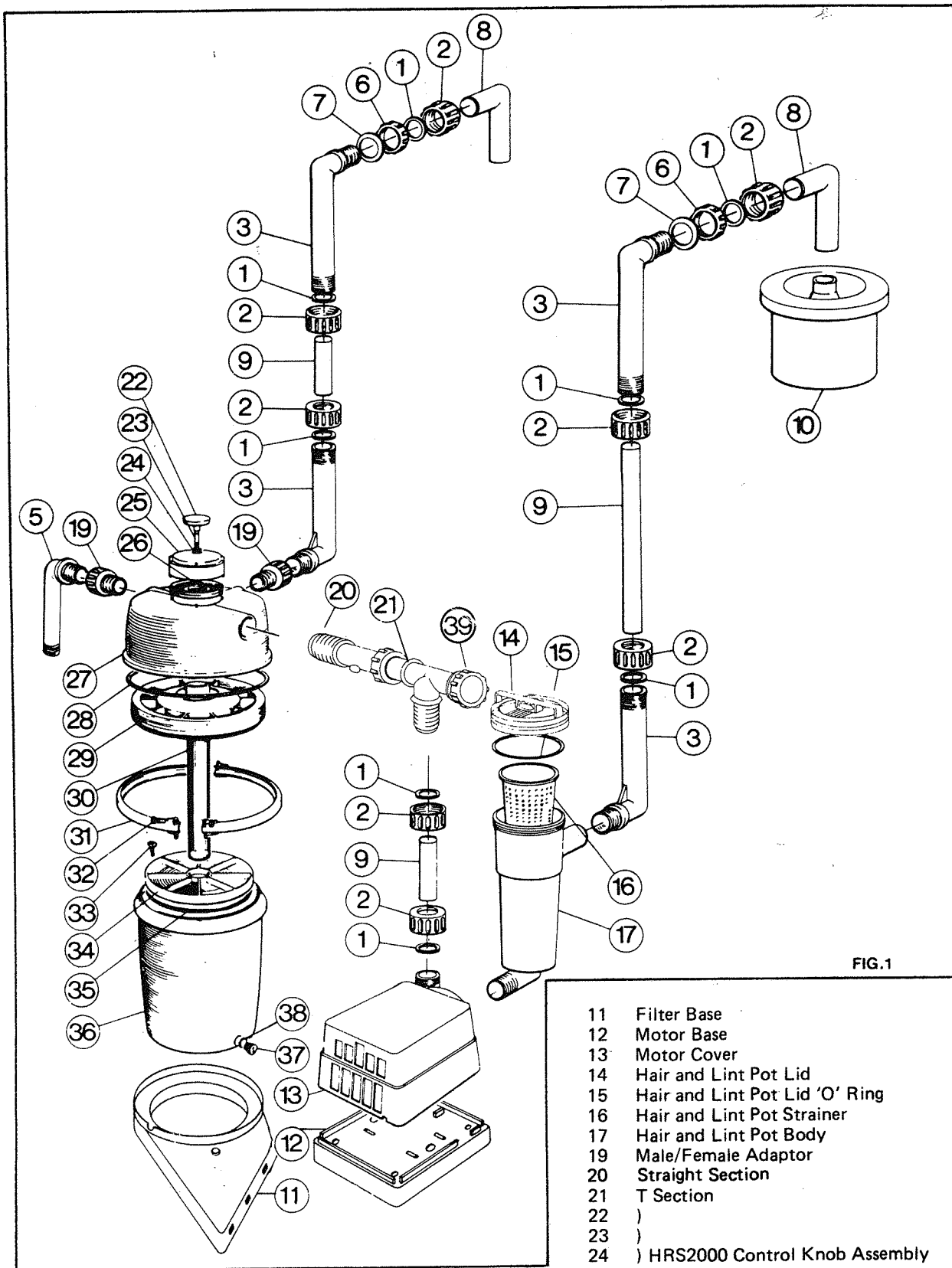


FIG.1

**ITEM NO. DESCRIPTION**

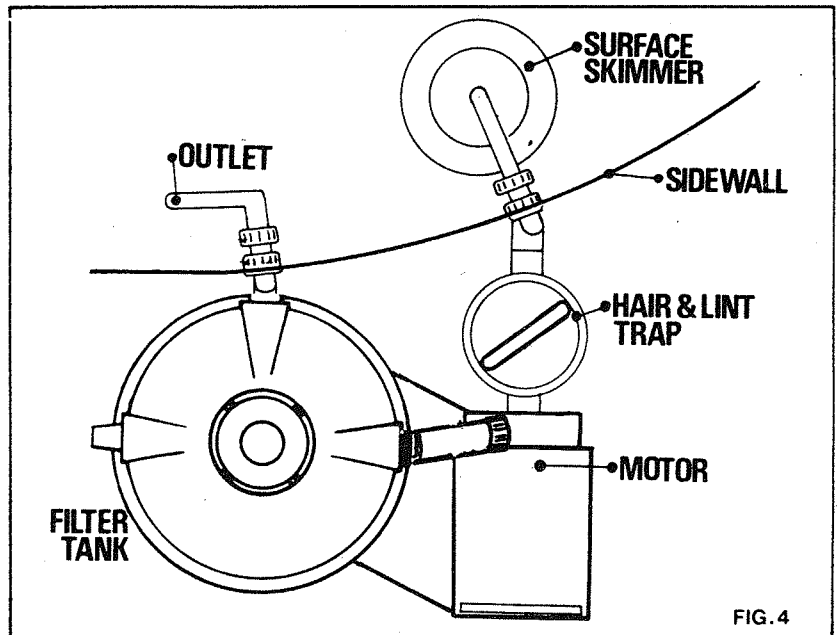
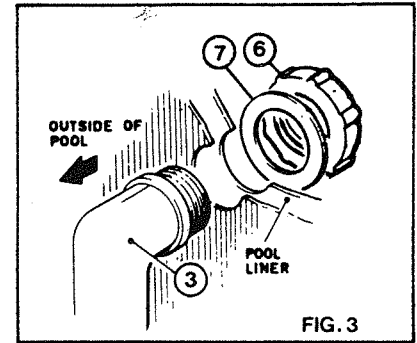
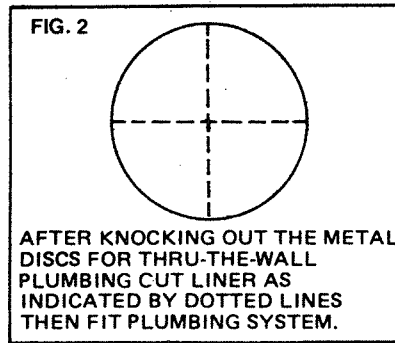
- |    |                                    |
|----|------------------------------------|
| 1  | Slip Nut 'O' Ring                  |
| 2  | Slip Nut                           |
| 3  | Elbow Riser                        |
| 5  | Elbow Riser Clear                  |
| 6  | Lock Nut                           |
| 7  | Lock Nut Washer                    |
| 8  | Plain Elbow                        |
| 9  | Straight Cane                      |
| 10 | Surface Skimmer complete           |
| 11 | Filter Base                        |
| 12 | Motor Base                         |
| 13 | Motor Cover                        |
| 14 | Hair and Lint Pot Lid              |
| 15 | Hair and Lint Pot Lid 'O' Ring     |
| 16 | Hair and Lint Pot Strainer         |
| 17 | Hair and Lint Pot Body             |
| 19 | Male/Female Adaptor                |
| 20 | Straight Section                   |
| 21 | T Section                          |
| 22 | )                                  |
| 23 | )                                  |
| 24 | ) HRS2000 Control Knob Assembly    |
| 25 | )                                  |
| 26 | )                                  |
| 27 | HRS2000 Tank Lid                   |
| 28 | HRS2000 Tank Closure 'O' Ring      |
| 29 | HRS2000 Defuser Plate              |
| 30 | HRS2000 Centre Tube                |
| 31 | HRS2000 Clamp Band                 |
| 32 | HRS2000 Clamp Band Screws and Nuts |
| 33 | HRS2000 Sand Plate Screws          |
| 34 | HRS2000 Sand Plate                 |
| 35 | HRS2000 Sand Plate 'O' Ring        |
| 36 | HRS2000 Filter Tank                |
| 37 | HRS2000 Drain Plug                 |
| 38 | HRS2000 Drain Plug 'O' Ring        |
| 39 | Blanking Off Nut                   |

Before siting the filter near the pool the following assembly can be carried out.

**Assembly of the Filter Tank:**

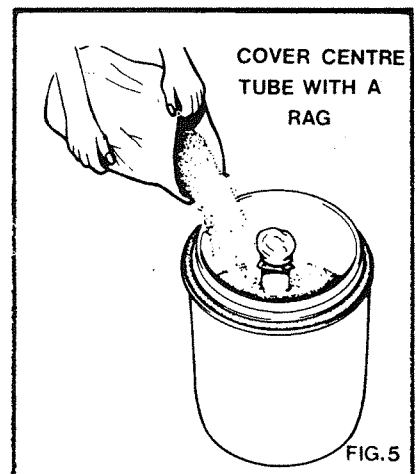
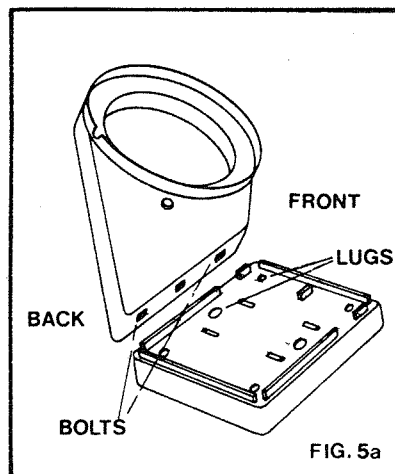
All screw joints where 'O' rings are not used must be wrapped with Ceelon Tape to ensure a good waterproof and leakproof seal.

- (1) Into the Waste and Return to pool ports in the filter tank lid (27) screw a 38mm (1½") — 32mm (1¼") Male/Female Adaptor (19).
- (2) Into the port marked "From Pump" screw the straight Section (20) then the T section (21).
- (3) Into the port marked "To Waste" screw the clear elbow riser (5).
- (4) Into the port marked "To Pool" screw the standard elbow riser (3).
- (5) Take the motor and pump assembly and screw the Hair and Lint pot assembly (14, 15, 16 and 17) into the pump face. Approximately ten turns of Ceelon Tape will be required on this thread, and it is important that the Hair and Lint pot is not screwed into the pump face too far or the pump impellor will be jammed. Screw standard Elbow Riser into the inlet of Hair and Lint pot.



**Assembly of Filter Base:**

- (6) With the two nuts, bolts and washers supplied, bolt the two sections of the base together as in the diagram 5a.
- (7) You will notice that one side of the base is slotted allowing some adjustment between the two sections. If your filter is supplied with a standard pump (Blue mouldings) then the two sections must be bolted with the motor base as far forward as the slots will allow and the bolts tightened. If the pump is a self priming unit (Black mouldings), then the motor base must be assembled as far to the rear as possible before tightening the bolts.
- (8) Place the assembled Motor Unit on the Motor Base locating it on the raised lugs.
- (9) Fit the filter tank in the base locating ring, making sure the drain plug lines up in the cut out section. At this stage the filter base (12) and all assembled pieces can be positioned by the pool sidewall. The filter should be sited on a pre-cast concrete slab or concrete blocks where it has good drainage and will not be subject to the excessive splashing from the pool.



- (10) Line up the filter inlet and outlets with the thru-wall (Fig 3) plumbing and using a connection cane (9) make a connection between the elbow rise from the thru-the-wall plumbing and the elbow riser (3) to the hair and lint pot. This is achieved by using slip nuts (2) and slip nut 'O' rings (1) to make a leakproof joint. No Ceelon Tape is required. Tighten the slip nuts firmly, but do not use a spanner.
- (11) Remove the clamp (31) from the filter tank by unscrewing the nuts and bolts (32), and remove the filter lid (27) and diffuser plate (29) by lifting straight up vertically.
- (12) Cover the centre tube (30) so that sand does not fill this tube. Pour the special filter sand evenly into the filter tank and fill the tank with water.
- (13) Clean the tank closure 'O' ring groove of all particles of sand. Replace the diffuser plate (29) and lid (27).
- (14) Replace clamps and secure clamp screws and nuts (32). Tap clamps with hammer lightly for a tighter seal.
- (15) Make the connection from the filter tank to the motor and then make the final connection to pool return outlet using cane (9) as outlined in section (9).

**Initial start-up cycle.**

Ensure that the water level is up to the inlet and outlet elbows (8). Ensure that the control knob is in the filtering position (No. 4) before starting the filter.

**Starting procedure:**

Prime pump by filling hair and lint pot with water. Start motor - check that there is a steady flow from the pool return - check for leaks in connections - stop motor. You are now ready to start the filtering cycle.

Run filter in filtering position No. 4 for approximately 2 minutes. Attach hose to backwash part of filter. Select backwash cycle No. 3 and run filter for approximately 2 minutes to clean out filter. Reselect filter cycle No. 4.

Important: Stop motor everytime when changing valve.

Important: Check "Chemical Treatment of Pool Water" for chemical instructions.

**NORMAL MAINTENANCE:**

**Filter cleaning**

When the discharge flow to pool is visibly decreased it is time to backwash the filter.

**Operation of backwash valve**

Reference Figure 8 Numbers 1 to 4 are marked on the top of the valve rotor. These numbers represent:

1. Recirculate cycle (by-passing) filter for obtaining the highest possible circulation.
2. Valve shut off (Not to be used when the filter is in operation).
3. Backwash Cycle.
4. Filter Cycle.

**NOTE:** Do not overtighten valve assembly.

**Vacuuming:**

Refer to Figure 9 for correct procedure of attaching hose to vacuum adaptor.

**NOTE:** If difficulty is experienced in fitting vacuum hose cuff to vacuum, heat to soften, in warm water.

Vacuum hose must be full of water before being connected to vacuum adaptor. If large amounts of debris are present on the pool floor, the filter will have to be backwashed after vacuuming.

**WARNING**  
**DO NOT VACUUM WITH VALVE IN BACK WASH POSITION.**

