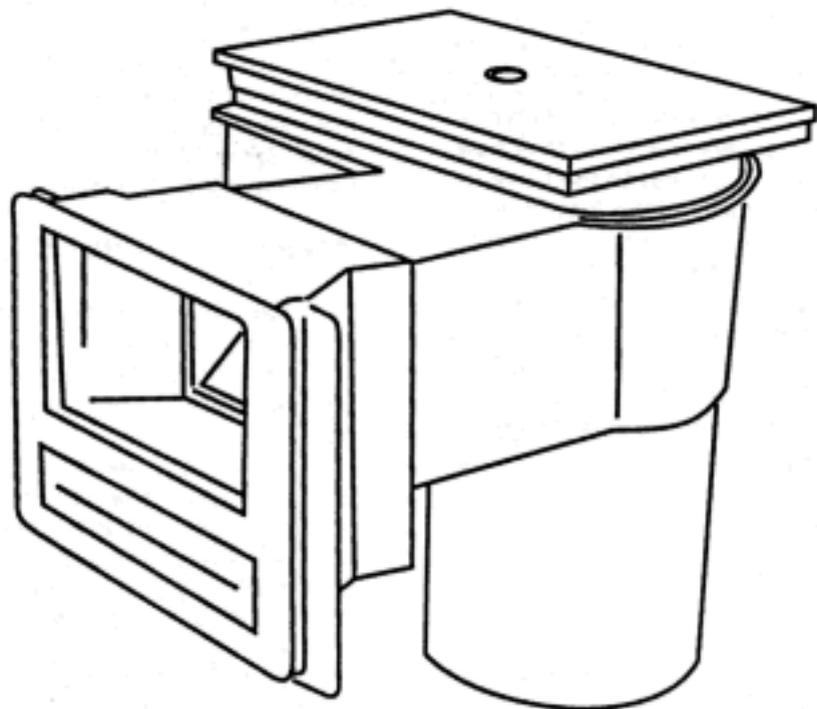




# AQUA GENIE

*The Automatic Way To Keep Pools Clean And Healthy*



## **INSTALLATION INSTRUCTIONS**

# OPERATING & MAINTENANCE INSTRUCTIONS

## AquaGenie SKIMMER/FEEDER

**AquaGenie** removes floating debris from surface water much faster than ordinary skimmers. In addition, it provides a constant controlled supply of chlorine to pool water automatically.

**AquaGenie** catches fine dirt, leaves, pollen, floating germ-laden scum before it becomes suspended in the pool water or settles to the bottom. (Ten times as much water must be run through filter to remove suspended dirt as to remove dirt caught while still on the surface.)

### **INSTALLATION**

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When the adjustable collar-feeder is installed, it will be necessary to connect the free end of the **3/16"** tubing (Item #9) to the base of the feeder tray. The fixed end of the **3/16"** tubing is attached to the pressure chamber, and should not be removed to make this connection.

When installed on pool, adjustable collar-feeder (Item #2 in accompanying pictorial chart) should be temporarily wedged up to the highest level so that the top is flush with the edge of the coping by using the extension collar provided if necessary. Before pouring concrete around **AquaGenie**, be sure to wrap a piece of polyethylene around the collar to prevent concrete from bonding to the plastic.

### **OPERATION**

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The **AquaGenie** feeder is operated by water being returned by the filter to the pool. This clean water is directed down and out through a nozzle slot in the orifice plate. The sheet-like jet of water created by this action causes counter currents which increase the effectiveness of the **AquaGenie's** skimming action. Pressure built up in the pressure chamber (behind the orifice plate) diverts some of this water through the tubing into the feeder tray. In the feeder tray a supply of chlorine is being constantly dissolved. Chlorine-laden water now pours over the tray's V-notch into the main sump of the **AquaGenie**, where it disinfects the water being drawn into the skimmer. Chemically treated water is then sent to the

filter for removal of solids and is returned to the pool.

If you desire to return the filtered water to the pool through an auxiliary return fitting, or through a jet nozzle installed on optional stairs, it's important to maintain water flow to **AquaGenie**. If the pool is equipped with such an auxiliary return, there should be a valve on the return line to the **AquaGenie**, and another valve on the line to the auxiliary return fitting. When using the auxiliary return line, don't close the valve on the **AquaGenie** return line. Keep it "cracked open" enough to continue a flow of water to the **AquaGenie**. Enough back pressure will develop to keep the feeder operating. As long as water is leaving the feeder tray over the V-notch, it is being chlorinated and returned to the circulatory system. For full benefit of **AquaGenie's** automatic skimming and chlorinating, do not use auxiliary returns unnecessarily. Keep **AquaGenie** operating normally, with full flow as continuously as possible.

### **AquaGenie CANISTER**

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Carefully read directions and cautions on **AquaGenie** canisters.

Insert canister in feeder tray with canister cap being near the outside wall of the feeder tray.

To prevent the possibility of a highly concentrated chlorine solution remaining in the feeder, or entering the pool, the feeder tray will receive no water from pressure chamber, and will automatically drain if the filter pump is shut down, or if there is a power failure.

**Never put any mater/a/ In the feeder tray other than AquaGenie canisters and Trichloro tablets. Contact with other brands of chlorine tablets may cause a violent reaction or explosion.**

### **MAINTENANCE**

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Always maintain water level of pool up to the water level marks on the **AquaGenie** face plate (see Sketch #1). Flow should be over the weir.

**Always bring water level up to marks as soon as possible.**

## VACUUMING

1. Clean baskets before vacuuming. Backwash filter before and during procedure, if condition of filter bed hampers flow.
2. Screw a plastic insert fitting in the vacuum adapter plate (5), fill vat-hose with water, attach hose to fitting and drop adapter plate over basket (or simply insert vat-hose in

adapter plate). The adapter plate is tapered to seal against seat in **AquaGenie's** main sump.

3. Debris vacuumed off the bottom will be caught in the basket. Some material (hair and grass, for example) may pass through to the pump strainer. Finer material will be caught in the filter.

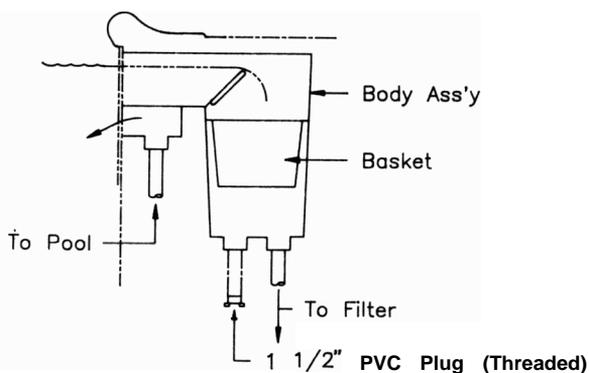
# INSTALLATION INSTRUCTIONS

## INSTALLATION INSTRUCTIONS

Read Completely Before Starting Installation. Refer to exploded view and parts list for proper nomenclature.

## LOCATIONS OF AquaGenie

**AquaGenie** should be located near the center of a long side of the pool. Vary the location to orient the **AquaGenie's** mouth towards the prevailing winds as with ordinary skimmer. The action of **AquaGenie** will be effective as long as it is installed at least eight (8) feet from either end. Choosing the correct location is important, but is not as critical as with ordinary skimmers. (see sketch #2 for ideal location)

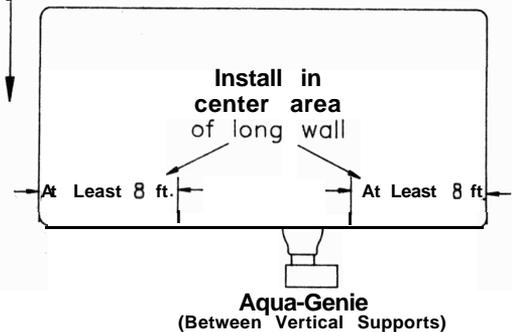


SKETCH #1

## PIPE ADAPTERS

Insert pipe adapters into the pressure throat port and the bottom port of the **AquaGenie**. Use the proper sealant (Permatex #51 Pipe Joint Compound or equal) for threaded connections and PVC cement for rigid pipe connections.

Direction of Wind



SKETCH #2

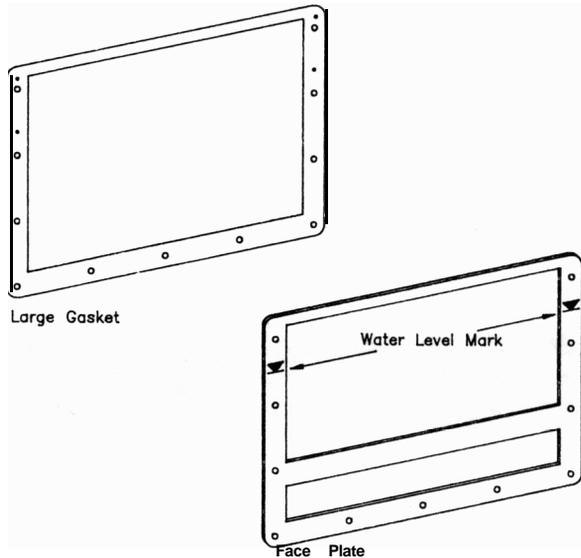
## INSTALLING FACE PLATE

Apply a small amount of Permatex to one side of one of the large gaskets to hold temporarily while assembling. Place the adhesive side of the gasket on the face plate, aligning the holes. (see sketch #3)

Before positioning the face plate assembly, make two small vertical slits in the vinyl liner as indicated on sketch #4. The purpose of these slits is to permit easier removal of the vinyl from behind the horizontal bar of the face plate after installation of **AquaGenie**.

Carefully position the face plate/gasket assembly on the vinyl liner, covering the face of the **AquaGenie**. Pierce the liner through the top two holes of the face plate prior to inserting screws. Screw two Phillips head Hi-Lo screws into these holes using **only a #3 Phillips screwdriver**. Any other size screwdriver will destroy the screw head and prevent making a leak-proof seal.

**DO NOT** completely tighten these two screws at this time. Allow the heads to project about **1/8"** from the countersink in the face plate.

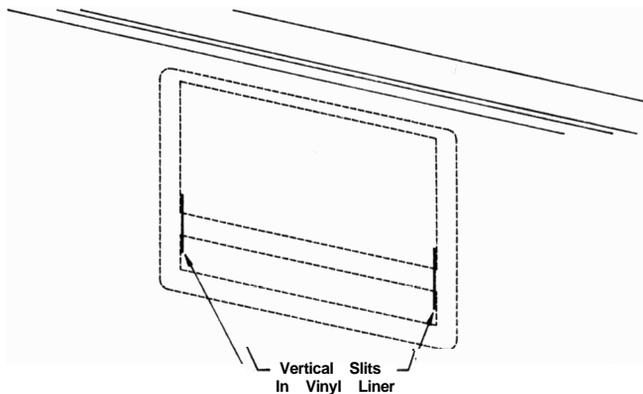


SKETCH #3

Now pierce the remaining holes through the face plate, and tighten screws to within  $1/8$ " of countersink.

Relieve tension on the vinyl liner *inside* the face plate by making crosswise slits in the vinyl as shown in sketch #5. At this point you may tighten all screws completely.

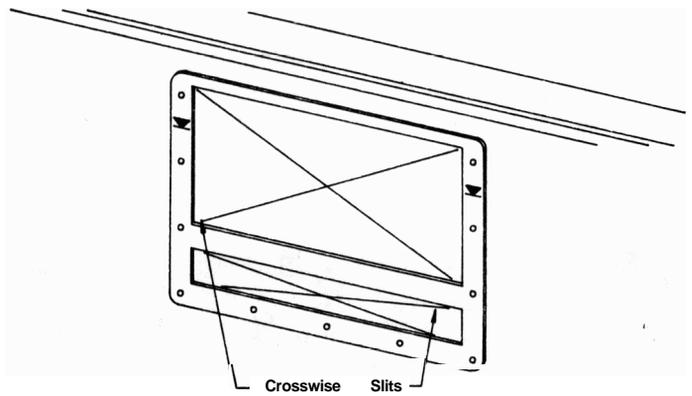
(Uneven pressure may distort the face plate and cause uneven seating of gasket seal.) Excessive torque may break the corrosion-resistant screws.



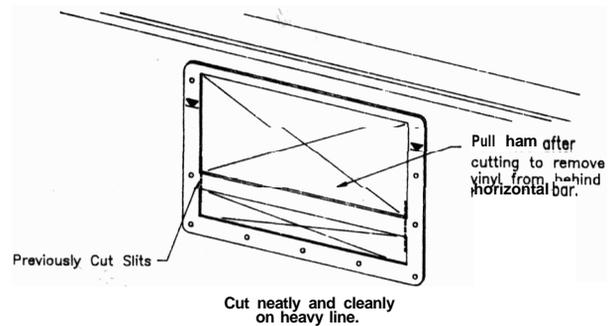
SKETCH #4

After the face plate has been installed, carefully cut out the vinyl liner using a sharp knife. Cut the top edge and the two sides of the skimmer opening, and the top, bottom and two sides of the orifice opening. Grasp the triangular piece of vinyl remaining at the bottom of the skimmer opening to remove it. The vinyl from behind the horizontal bar will be removed at this time. (see sketch #6)

Do not assemble the orifice plate yet. This will be done after all piping is completed and flushed.



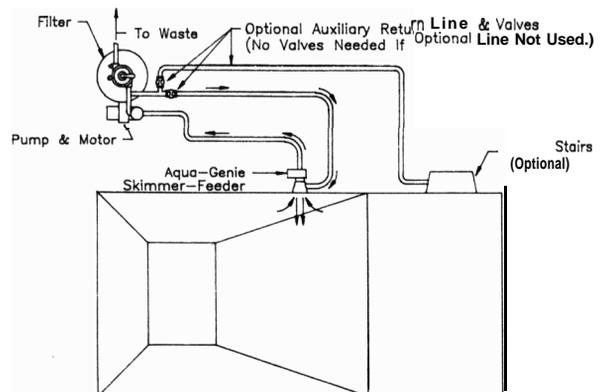
SKETCH #5



SKETCH #6

## PIPING

Use as few elbows as possible in the piping of the entire recirculation system. Each elbow reduces the efficiency of the **AquaGenie** in particular and the entire filtration system in general. Be sure to double clamp the return line when it connects to the adapter in the pressure throat. Follow piping layout as closely as possible. (see sketch #7)



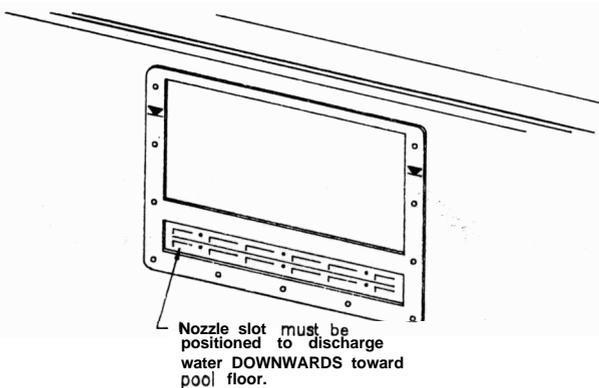
SKETCH #7

## BLOCKING UP

It is recommended to support the **AquaGenie** with a piece of 1-1/2" pvc pipe in the proper **receptacle**, located in the bottom of the unit, and support on a level concrete block. Do not disturb the **AquaGenie** while providing this support. Shim until the pier bears the weight of the **AquaGenie**.

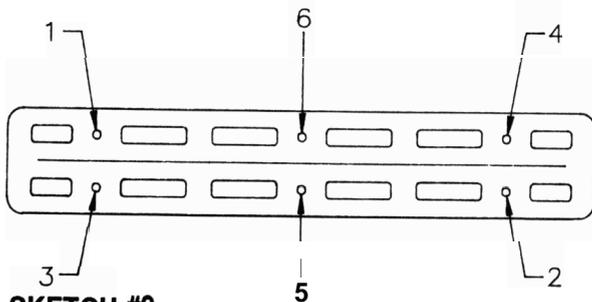
## ASSEMBLY OF ORIFICE PLATE

Apply a small amount of Permatex to the back of the orifice plate. Place a small gasket on the top, as marked, being certain all holes are aligned, and all edges are aligned. Before mounting the orifice plate to the **AquaGenie**, make sure that when assembled, the nozzle slot slopes downward. (see sketch #8)

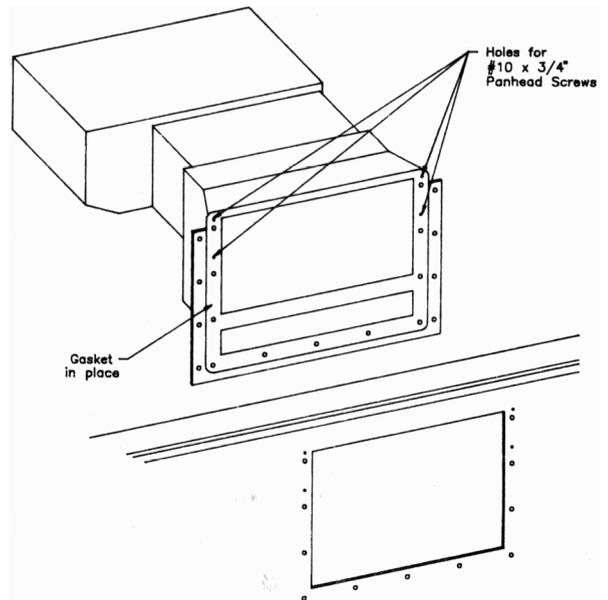


SKETCH #8

Secure the assembly using six Hi-Lo screws. Again, use only a #3 Phillips screw driver. Tighten the screws evenly in the order shown on Sketch #9. Develop your final screw pressure by following this sequence 3 or 4 times, similar to the technique of tightening an engine head. The orifice plate is not designed to fit flush with the face plate. The amount of protrusion will vary with the type of pool wall (foam, steel, or wood). Do not over tighten! A torque of 20"-1 lb. maximum is permitted. Excessive torque may break the corrosion-resistant screws.



SKETCH #9



SKETCH #10

## BACKFILL

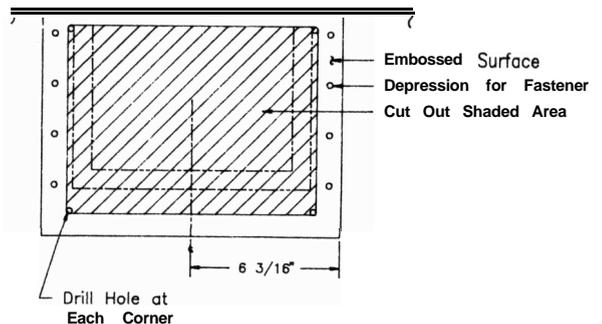
All backfill around the feeder must be free draining coarse sand or fine gravel. It should be very carefully tamped into place with an implement such as a shovel handle in layers to give maximum support.

## STEEL PANEL POOLS WITH FACTORY CUT OUT

Apply a small amount of proper sealant (Dow Corning or General Electric food grade **silastic** or equal) to one of the large gaskets and place it on the face of the **AquaGenie** body. Make sure the mounting holes align.

Now align the holes in the above assembly with the holes in the panel and mount with four #10 x 3/4 long slotted pan head screws. (see sketch #10)

Stretch vinyl liner and fill pool to within 2" of the bottom of the **AquaGenie**. Follow instruction for installation in "INSTALLING FACE PLATE."

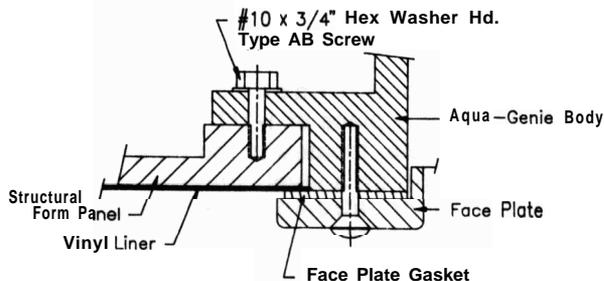


SKETCH #11

## **AquaGenie & skimmer-feeder Installation on foam wall panels.**

Foam wall panels are designed with embossed area for **AquaGenie** mounting location. Drill holes (**3/8"** dia.) at each inside corner of large embossed area. Make cutout by following the inside edge of embossed surface. If using a jig saw, it will be possible to cut bottom and both vertical sides from the back of panel. Once this is accomplished, mark a horizontal line on face of panel **13/16"** down from top for remaining cut. Using a **3/32"** drill bit, drill lead holes at depressions (8 total) on debossed surface for mounting fasteners. Holes should not be drilled all the way through but a maximum of **1/2"** deep. Place **AquaGenie** in cutout and mount from back with (8) **#10 x 3/4"** hex washer head type AB screws. (see sketch #11 & #12)

When installing **AquaGenie** on wood wall or "HYDRA" foam panels it will be necessary to use enclosed spacers to prevent unit from extending through the panel too far.



**SKETCH 12**

### **CUTTING NOTE**

The best results will be obtained by using a jig saw with 8 T.P.I. (fast cut, medium finish) blade. If jig saw is not available, use keyhole saw with 6-10 tooth combination blade. To prevent material buildup on saw blade, a cutting lubricant (water) should be used.

## **AquaGenie BILL OF MATERIAL**

| Item #    | Part #  | Description                                | # Required |
|-----------|---------|--|------------|
| 1         | HO0635  | Screw Set                                  | 1          |
| 2         | HG120   | Collar-Feeder                              | 1          |
| 3         | HG130   | Basket                                     | 1          |
| 4         | HO1 023 | Basket Handle                              | 1          |
| 5         | HG115   | Vacuum Adapter                             | 1          |
| 6         | HG125   | Cover                                      | 1          |
| 7         | HG150   | Weir Assembly (Consists of Items 7 & 8)    | 1          |
| 8         |         | Weir Pins & Spring (Not Sold Separately)   | 1          |
| 9         | HO2919  | Feeder Tube, 3/16 OD x .025 Wall x 16"     | 1          |
| 10        | HG105   | Face Plate                                 | 1          |
| 11        | HO1616  | Face Plate Gasket                          | 2          |
| 12        | HG110   | Oriface Plate                              | 1          |
| 13        | HO2190  | Oriface Plate Gasket                       | 1          |
| 14        | HG140   | Extension Collar                           | 1          |
| 15        | HG145   | Canister Assembly (Includes Cap and Label) | 1          |
| 16        | HO1664  | Canister Cap Only                          | 1          |
| Not Shown | HO2931  | Canister Plug                              | 12         |
| Not Shown | HO1 556 | Wall Spacers                               | 2          |

