Maintenance

Regular maintenance of the pump will ensure a long life and maximum performance. You can clean the pump and its components by soaking them in a general citric acid solution (citric acid:water=1:1) once every 3 months.

**O1000 SKIMMER 140 & O1005 SKIMMER 190**

Release the nut ring

You can pull out all the components very easily, make sure to have them back in position.

**O1010 SKIMMER 270 & O1015 SKIMMER 400**

Loosen the screw on the top of the pre-chamber

Turn the pre-chamber counter-clockwise, and pick up the pre-chamber.

You can pull out all the components, make sure to have them back in position.

**Attention**

We should have bearings on both sides of the impeller assembly, once the bearings are not assembled correctly, the pump will not be able to operate as usual. Make sure to have the bearings in position.

Usually, we can see the bearings on both sides of the impeller assembly. If you cannot see them after you disassemble the pump, you might see them in the center groove of the pre-chamber and inside of the pump body.

- bearing of 140
- bearing of 190 / 270 / 400

**Collection Cup**

The collection cup should be cleaned frequently with a sponge and warm water.

(DO NOT USE ANY SOAP OR CHEMICALS)

Check if there’s any clogging regularly.

Remove the limescale by soaking in a general citric acid solution (citric acid:water=1:1)

**Specifications**

<table>
<thead>
<tr>
<th>Pump footprint (mm)</th>
<th>140</th>
<th>190</th>
<th>270</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>SICCE SYNCRAS</td>
<td>195x163</td>
<td>223x176</td>
<td>240x196</td>
<td>280x235</td>
</tr>
<tr>
<td>SICCE INTERTEK PSK</td>
<td>240x168</td>
<td>557</td>
<td>567</td>
<td>590</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>140</th>
<th>190</th>
<th>270</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>455</td>
<td>517</td>
<td>567</td>
<td>590</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rating (L)</th>
<th>140</th>
<th>190</th>
<th>270</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>280-500</td>
<td>400-720</td>
<td>520-1000</td>
<td>860-1680</td>
<td></td>
</tr>
</tbody>
</table>

**Before Use**

Please open the package carefully, and check for any missing or damaged parts.

From the top of the package we have:
1. accessories box:
   - pump*1, diffuser*1, venturi*1, drain port plug*1
   - threaded fastener (for 140 / 190) *1
   - nut (for 270 / 400) *1

2. Main body with:
   - adjusting valve, silencer, air hose, silicone feet *4, Titanium screws *5

3. Collection cup with lid

While we take great care to keep any contaminants away from our products during assembly, please take a moment to clean the skimmer with warm water before you use it. Never clean Acrylic with alcohol-based products. Use caution when handling as acrylic scratches easily.
**Assembly**

1. Loosen the titanium screws on the base plate to pick up the skimmer body, and loosen one of the screws (5/16”) on the base plate to pick up the pump fixer.

![Images of the skimmer body and pump fixer](image1)

2. Install the pump, put back the pump fixer, and tighten the screw (5/16”) to make the pump fixed.

![Images of the installed pump](image2)

3. Loosen the center screw (6mm) on the diffuser to pick up the base plate of the diffuser, and use the threaded fastener to fix the base plate of the diffuser onto the pump.

![Images of the diffuser and base plate](image3)

4. Tighten the center screw (6mm) to finish the installation of the diffuser.

![Images of the tightened screws](image4)

5. Put the main body onto the base plate, and tighten the titanium screws (*5) in an alternating pattern.

![Images of the main body with screws](image5)

6. Install the venturi, and connect the air hose to the venturi.

![Images of the venturi and air hose](image6)

7. Install the collection cup, and the drain port plug.

![Images of the collection cup and drain port](image7)

**Adjustment**

- **Water level**
  - Turn the valve to open / close the water outlet to control the water level.
  - **Clockwise:** Close the water outlet, and higher the water level.
  - **Counter-clockwise:** Open the water outlet, and lower the water level.

![Images of the water outlet and valve](image8)

You can have the skimmate you want by adjusting the water level:

- **Water outlet**
  - Open
  - Close

- **Skimmer color**
  - Low
  - High

For example, a higher water level leads to a wetter skimmate that has a lighter color.

**Air Intake**

- To adjust the airflow by turning the thumbscrew (5/16”) on the silencer.

![Images of the air intake and thumbscrew](image9)

- Mostly, we want the airflow higher, so we can leave the thumbscrew in a higher position (not in contact with the air tube in the silencer).

- If you need to lower the airflow, turn the thumbscrew until it gets into the air tube inside the silencer, the lower position leads to a lower airflow.

**Operation**

1. The pump must be completely submerged underwater when in use. Running the pump dry or in too low of a water level will damage the pump.

2. For proper performance of the products, the water in your sump must not be any higher than the following levels:

<table>
<thead>
<tr>
<th>Water Level</th>
<th>140</th>
<th>190</th>
<th>270</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>200-230</td>
<td>230</td>
<td>230</td>
<td>230</td>
</tr>
</tbody>
</table>

![Images of the water levels](image10)