The micro bubble generator is using a simple method to solve tiny bubbles in a liquid. This bubble generator uses the properties of the vortex pump turbine and effectively solves gas with a liquid or two liquids, and adding it under pressure into a process.

No compressor, no injector, no static mixer and no big pressure tank needed.

Alternative solution for the mixing of:

- (Sea) water and air
- (Sea) water and oxygen
- (Sea) water and ozone
- Water and carbon dioxide
- Water and hydrogen gas
- Water and nitrogen
- Chemicals and/or different gases

The available models and their properties:

Performance of 0.4 MPa = 4 kg/cm² = 4 barg discharge pressure

Ratio air/water mixture of 8%

<table>
<thead>
<tr>
<th>Model</th>
<th>Water Flowrate L/min</th>
<th>Air Flowrate MP/h</th>
<th>Motor Power kW</th>
<th>Poles</th>
</tr>
</thead>
<tbody>
<tr>
<td>KTM20</td>
<td>16.6</td>
<td>1.00</td>
<td>0.75</td>
<td>2-Pole</td>
</tr>
<tr>
<td>KTM25</td>
<td>25.0</td>
<td>1.50</td>
<td>1.5</td>
<td>2-Pole</td>
</tr>
<tr>
<td>KTM32</td>
<td>50</td>
<td>3.00</td>
<td>2.2</td>
<td>2-Pole</td>
</tr>
<tr>
<td>KTM40</td>
<td>80</td>
<td>4.80</td>
<td>3.7</td>
<td>2-Pole</td>
</tr>
<tr>
<td>KTM50</td>
<td>133</td>
<td>8.0</td>
<td>5.5</td>
<td>4-Pole</td>
</tr>
<tr>
<td>KTM50</td>
<td>200</td>
<td>12.0</td>
<td>7.5</td>
<td>4-Pole</td>
</tr>
<tr>
<td>KTM50</td>
<td>250</td>
<td>15.0</td>
<td>11</td>
<td>4-Pole</td>
</tr>
<tr>
<td>KTM50</td>
<td>333</td>
<td>20.0</td>
<td>15</td>
<td>4-Pole</td>
</tr>
<tr>
<td>KTM60</td>
<td>700</td>
<td>42.0</td>
<td>22</td>
<td>4-Pole</td>
</tr>
</tbody>
</table>
THE MICRO BUBBLE GENERATOR INCLUDES SEVERAL FEATURES:

- suction
- mixing and dissolving
- transferring

A device that can be useful for efficient mixing and dissolving of the gaseous products in fluids. It is for this purpose equipped with a special impeller and can be used for continuous operation.

A device that is compact, lightweight and space-saving as use of an ejector, static mixer, pressure tank or compressed air is unnecessary.

A device that optimizes the contact between medium and gas by the increase of pressure. This pressure also contributes to a better and more efficient resolution.

A device that is simple to use, easy to control and to maintain.

APPLICABLE IN THE FOLLOWING INDUSTRIES

Among other for clarifying, for the removal of pollution, for the recovery of suspended crystals and other solid parts and all other applications where dissolving air/gas is desired:

- paper mills
- textile mills
- fish breeder calibrate / fish processors
- poultry companies / meat processing industry
- breweries
- frozen food processors
- potato and vegetable processors
- pig farms
- refineries
- spray paint
- chemical plants
- petrochemical plants
- pharmaceutical companies
- heat treatment companies
- sewage treatment plants
- drinking water
- glassworks
- steelworks
- and many other applications where process water is present.

Large contact surface

Comparison of bubble size distribution

Bubble size