Product Description

BioKube’s Venus systems are small STP plants most commonly used for single or smaller groups of households.

The Venus systems are typically installed after a septic tank either in- or above ground.

Dimensions & Pipe Placement

<table>
<thead>
<tr>
<th></th>
<th>Venus 1850</th>
<th>Venus 1850, S</th>
<th>Venus 1850 - small lid</th>
<th>Venus 2200</th>
<th>Venus 2200, S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>1,850</td>
<td>1,850</td>
<td>2,160</td>
<td>2,220</td>
<td>2,220</td>
</tr>
<tr>
<td>Diametre (mm)</td>
<td>1,100</td>
<td>1,100</td>
<td>600/1,010</td>
<td>1,260</td>
<td>1,260</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>220</td>
<td>220</td>
<td>200</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Weight with Water (kg)</td>
<td>1400</td>
<td>1400</td>
<td>1400</td>
<td>2300</td>
<td>2300</td>
</tr>
<tr>
<td>Power consump. (kwh/year)</td>
<td>450</td>
<td>650</td>
<td>450</td>
<td>900</td>
<td>1000</td>
</tr>
<tr>
<td>Size of Internal Pump well (L)</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td>Tank Material</td>
<td>PP</td>
<td>PP</td>
<td>PP</td>
<td>PP</td>
<td>PP</td>
</tr>
<tr>
<td>Piping Material</td>
<td>PVC</td>
<td>PVC</td>
<td>PVC</td>
<td>PVC</td>
<td>PVC</td>
</tr>
<tr>
<td>Outlet/Sludge Return Pipe (mm)</td>
<td>110/110</td>
<td>110/110</td>
<td>110/110</td>
<td>110/110</td>
<td>110/110</td>
</tr>
<tr>
<td>Capacity (L/day)*</td>
<td>625-900</td>
<td>700-1800</td>
<td>625-900</td>
<td>1250-2700</td>
<td>2000-3600</td>
</tr>
<tr>
<td>Capacity, PE <em>/</em>*</td>
<td>5-10</td>
<td>5-10</td>
<td>5-10</td>
<td>10-15</td>
<td>15-20</td>
</tr>
</tbody>
</table>

* Capacity varies according to input characteristics & output requirements

** 1 PE = 60g BOD, 13 g Ntotal, and 2,5 g Ptotal, 125-180 L/day
**FACT SHEET**

**Venus**

**Control Components**

- **BioKube E-III Control Unit**
  - All electrical components in the Venus Unit; e.g., blowers, pumps, UV Units, are integrated and connected to the BioKube E-III control unit, from where the power is distributed and controlled.
  - The Control Unit is placed in the internal control room (see drawing).
  - The plant is normally powered with 230 Volt, 1 phase power supply. The maximum current is 2.5 Amperes depending on the number and size of components installed.
  - Systems for 110V power supply regions can be supplied upon request.

**Installation Components**

- **Septic tank**
- **Venus wastewater treatment plant**
- **Sludge return pipe**

*For more information see the installation manual*

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**Full Installation Principles**

1. **Septic tank**
2. **Venus wastewater treatment plant**
3. **Sludge return pipe**

*For more information see the installation manual*

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**Construction Principles - Backfilling**

1. **Min 100 mm levelling layer**
2. **100 mm gravel**
3. **Optional Concrete Buoyancy Control Anchor (only for Venus 2200)**

**Backfilling**

- The system requires to be installed on a level and compressed surface (e.g., gravel layer).
- When backfilling a 100 mm layer of gravel must be placed around the plant.
- In case of high ground water levels it is recommended to cast a buoyancy control concrete anchor around the bottom of the Venus plant.
- The Venus plant can also be installed above ground without any additional equipment.

*For more information see the installation manual*