The SP series has several unit types with different unit heights which can meet a wide range of water depth requirements for retrofit projects.

### KUBOTA SP Series References

- **United States**
  - 159,000 m³/d
  - 42.0 MGD
  - Sewage

- **France**
  - 4,400 m³/d
  - 1.16 MGD
  - Sewage

- **Turkey**
  - 6,700 m³/d
  - 1.92 MGD
  - Sewage

- **Saudi Arabia**
  - 12,000 m³/d
  - 3.17 MGD
  - Sewage

*KUBOTA SMU models shown in this brochure received image processing. KUBOTA SMU design and specifications are subject to change without notice.*

*Extra water depth will be needed for gravity filtration.*

---

### Unit Specification

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Total Membrane Area</th>
<th>Dimensions</th>
<th>Weight (Dry)</th>
<th>Required Min. Water Depth*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width</td>
<td>Height</td>
<td>Length</td>
<td>kg/ lbs</td>
</tr>
<tr>
<td>SPC200</td>
<td>200 m² / 2,153 ft²</td>
<td>1,877 mm / 6.2 ft</td>
<td>944 mm / 3.1 ft</td>
<td>2,186 mm / 7.2 ft</td>
</tr>
<tr>
<td>SPC300</td>
<td>300 m² / 3,229 ft²</td>
<td>2,401 mm / 7.9 ft</td>
<td>944 mm / 3.1 ft</td>
<td>2,186 mm / 7.2 ft</td>
</tr>
<tr>
<td>SPC400</td>
<td>400 m² / 4,306 ft²</td>
<td>2,923 mm / 9.6 ft</td>
<td>944 mm / 3.1 ft</td>
<td>2,186 mm / 7.2 ft</td>
</tr>
<tr>
<td>SPC600</td>
<td>600 m² / 6,458 ft²</td>
<td>4,213 mm / 13.9 ft</td>
<td>944 mm / 3.1 ft</td>
<td>2,186 mm / 7.2 ft</td>
</tr>
</tbody>
</table>

* Extra water depth will be needed for gravity filtration.

---

**KUBOTA Corporation**

Water Engineering & Solution Business Unit
http://www.kubota-global.net/

- **KUBOTA Corporation (Tokyo Head Office)**
  - 1-3, Ryobashi 2-chome, Chuo-ku, Tokyo, 104-8307 JAPAN
  - Phone: +81-3-3245-3665  Fax: +81-3-3245-3407

- **KUBOTA Membrane Europe Ltd.**
  - 3rd Floor, No.1 Fanter’s Yard, 77-85 Fulham Palace Road, London, W6 8JA, UK
  - Phone: +44-20-8741-5262  Fax: +44-20-8563-1616
  - http://www.kubota-mbr.com/

- **KUBOTA Membrane USA Corporation**
  - 11807 North Creek Parkway South, B-109, Bothell, WA 98011 USA
  - Phone: +1-425-898-2858  Fax: +1-425-898-2853
The Membrane Bioreactor (MBR) process is a proven wastewater treatment method which combines a biological treatment process and a membrane filtration process for final solid-liquid separation. The MBR perfectly eliminates the secondary clarifier and carry-over of the activated sludge. Therefore, the concentration of the activated sludge becomes higher and process tank volume becomes smaller compared to Conventional Activated Sludge (CAS) process.

Structure of KUBOTA SP Series

The KUBOTA SP series is made up of SMU models optimized especially for medium to large scale sewage treatment applications. Forty (40) flat membrane plates having 10 m² of membrane area and permeate collection chambers are integrated into a compact “Membrane Module”. This design improves packing density and reduces scour air requirements. Multiple Membrane Modules are assembled into a Membrane Block using simple coupling connections. The coupling connection also serves as a conduit to the permeate header. This structure simplifies the assembling procedure of the SMU during field maintenance work.

Advantages of KUBOTA SP Series

Based on its unique structure, the SP series reduces required space, required scour air, and required assembling time during maintenance work, all of which are important considerations for medium to large scale projects.