1 Carbon Dioxide Gas Neutralization Treatment Unit
I. Standard type -----

- Keeping consumption volume of carbon dioxide to a minimum by high reaction speed and dissolution efficiency through utilizing both original line mixer and ejector
- Saving running cost by control of carbon dioxide supply through electromagnetic bulb control adjusted by pH meter
- Little installation space by unitization, easy operation, safety without secondary environmental pollution
- Equipping operation integrating hour meter, pH alarm circuit, and more accurate and safety equipment design by installation of pH detector, record tank

Overview
- The neutralization treatment could realize accurate and safety operation without causing secondary environmental pollution.

Performance/Specifications
- Specifications of PGN series

<table>
<thead>
<tr>
<th>Type</th>
<th>Item</th>
<th>Capacity (m³/hr)</th>
<th>Raw water pump</th>
<th>Vaporization and Collection system</th>
<th>Electric power(kW)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGN-5</td>
<td></td>
<td>5</td>
<td>50A × 0.4kW</td>
<td>GK-2 100V 0.3kW 2 gas bottle × 2 line</td>
<td>0.7</td>
<td>250</td>
</tr>
<tr>
<td>PGN-10</td>
<td></td>
<td>10</td>
<td>50A × 0.75kW</td>
<td>GK-3 100V 0.5kW 4 gas bottle × 2 line</td>
<td>1.24</td>
<td>400</td>
</tr>
<tr>
<td>PGN-20</td>
<td></td>
<td>20</td>
<td>65A × 2.2kW</td>
<td>GK-6 100V 0.6kW 7 gas bottle × 2 line</td>
<td>2.8</td>
<td>650</td>
</tr>
<tr>
<td>PGN-30</td>
<td></td>
<td>30</td>
<td>80A × 2.2kW</td>
<td>GK-9 100V 0.9kW 11 gas bottle × 2 line</td>
<td>3.1</td>
<td>850</td>
</tr>
</tbody>
</table>

- Note: Carbon dioxide gas is necessary to outtake gas

Applications/Experience
- Ready-mixed concrete factory, second product factory from concrete, grindstone factory
- Site of construction and engineering works, washing bottle factory, washing factory, Cleaning factory, dyeing and fiber factory
- Other various industrial wastewater contained alkali
- Pretreatment/after treatment of wastewater treatment equipment

**Reference**

Elepon E.C.A.P. Corporation  
Osakashinai Bld., 3-2-23, Kitahama, Chuo-ku Osaka-shi, Osaka, 541-0041, Japan  
TEL : +81-6-4707-7771  FAX : +81-6-4707-7773  
E-mail : sales@elepon.co.jp  
URL : http://www.elepon.co.jp
II. Simple type -----  

- **Features**
  - Simple type of PGN series

- **Overview**

- **Performance/Specifications**
  - Specifications of PGS series

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Type</th>
<th>PGS-1</th>
<th>PGS-3</th>
<th>PGS-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment capacity</td>
<td></td>
<td>1 m³/hr</td>
<td>3 m³/hr</td>
<td>5 m³/hr</td>
</tr>
<tr>
<td>pH value of raw water</td>
<td></td>
<td>Less than 11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment temperature of raw water</td>
<td></td>
<td>Less than 40 centigrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact pipe caliber</td>
<td></td>
<td>20A</td>
<td>25A</td>
<td>40A</td>
</tr>
</tbody>
</table>

- Note: Wastewater containing concrete may be not handled occasionally.

**Reference**

- Solubility to water under normal pressure of carbon dioxide gas

<table>
<thead>
<tr>
<th>Temp.(Centigrade)</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>(50)</th>
<th>(60)</th>
<th>(100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility (m³)</td>
<td>1.713</td>
<td>1.194</td>
<td>0.878</td>
<td>0.665</td>
<td>0.530</td>
<td>(0.436)</td>
<td>(0.359)</td>
<td>(0.260)</td>
</tr>
</tbody>
</table>

- Note: Solubility indicates value per 1 m³ water

**Applications/Experience**

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