Clean Air Supplier

Rasa Island
North Latitude: 24° 27' 57"
East Longitude: 131° 11' 23"

Mobile Filtering System

Rasa Industries, Ltd.

Kimura Chemical Plants Co., Ltd.
Severe Accident

In case of severe accident in nuclear power plant, radioactive substances which contain various aerosols and volatile gases will diffuse into atmosphere. To protect employees and local residents from radiological exposure, the radioactive substances must be removed. We propose “Mobile Filtering System” which can supply clean air without radioactive substance. This system can be easily used to hospital, school, office, residential building and everywhere.

Merits of “Mobile Filtering System”

1. This system can be transferred to everywhere because it is wholly mounted on a track.
2. Electricity is not needed from outside because a generator is mounted on the track.
3. Radioactive aerosols (Cs, Te, Sr etc.) can be removed by using HEPA filters.
4. Radioactive iodine which is one of volatile gases has strong toxicity for human. This system can remove the radioactive iodine by using a filter which is filled with silver zeolite.
5. Iodine has two forms, elemental iodine and organic iodine. Although it is difficult to remove organic iodine, our special silver zeolite can remove not only elemental iodine, but also organic iodine efficiently.
6. There are many options to satisfy customers’ requests. We can grade up this system for flow rate, radiation shield, removal efficiency, mobility, operation temperature, material, life time of filter and so on.
7. This system needs no operator except start up and maintenance operation. Therefore, the radiological exposure can be minimized.
**Typical specifications**

<table>
<thead>
<tr>
<th>Items</th>
<th>Contents</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate</td>
<td>1000 m³/hr, 2000 m³/hr</td>
<td></td>
</tr>
<tr>
<td>Maximum temperature</td>
<td>60 °C</td>
<td></td>
</tr>
<tr>
<td>Main material</td>
<td>Stainless steel 304</td>
<td></td>
</tr>
<tr>
<td>Vehicle</td>
<td>2 ton track, 4 ton track</td>
<td></td>
</tr>
<tr>
<td>Removal efficiency for aerosol</td>
<td>Over 99.97 %</td>
<td></td>
</tr>
<tr>
<td>Removal efficiency for iodine</td>
<td>Over 99 %</td>
<td>Elemental and organic iodine</td>
</tr>
</tbody>
</table>

Remarks: we can modify the system according to your request because the above table is one of sample.

**Sample drawing**

We, Rasa and Kimura, are not only manufactures of filter systems; we also have extensive experience in the following fields:

1. Design and manufacture of filter vessel and adsorption tower
2. Total design and installation of ventilation system
3. Design and construction of chemical plant
4. Design and manufacture of pressure vessel
5. Design and manufacture of cask for nuclear fuel and various special vessel ... and so on

Please contact to us.
Rasa Industries, Ltd.

URL: http://www.rasa.co.jp/
Tokyo Head Office
1-1, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-0031, Japan
Tel: INTL+81-3-3278-3831 Fax: INTL+81-3-3281-6699

Kimura Chemical Plants Co., Ltd.

URL: http://www.kcpc.co.jp/
Energy and Environment Engineering Division
Osaka Sales Department
Kuise-Terashima 2-1-2, Amagasaki-City, 660-8567 JAPAN
Tel: INTL+81-6-6488-2506 Fax: INTL+81-6-6488-5800
Tokyo Sales Department
Higashi-Ueno 1-2-13, Taito-ward, Tokyo, 110-0015 JAPAN
Tel: INTL+81-3-3837-1831 Fax: INTL+81-3-3837-1970