HuTek introduces ProFlute, the next generation Desiccant Rotor. Designed for high performance, enhanced energy efficiency, and long service life.

**ProFlute Applications**
- Energy efficient dehumidification
- Latent load removal
- Simplify drying processes
- Improve manufacturing processes/product quality
- Preservation/Inhibit growth of microscopic organisms
- Corrosion/Condensation Prevention
- Energy/voc recovery
- Desiccant (non-CFCs) cooling

HuTek (Asia) Company Limited is an ISO9001:2000 certified, Thai-Swedish joint venture. We provide complete solution for climate control: ranging from dehumidification and humidification to evaporative cooling and energy recovery. We also provide consultation on how climate control can help reduce costs, enhance productivity, and improve product quality. Please contact us to explore the infinite possibility we can do for your businesses.
ProFlute Advantages

High Content of Active Desiccant
Unique patented manufacturing technology from Sweden gives our rotor higher active desiccant than any other rotors in its market segment. This ensures more dehumidification for less running costs. An independent test from National Renewable Energy Laboratory (NREL) confirms this fact.

High Adsorption Capacity
ProFlute rotor has high static capacity, picking up approximately 40% of its dry weight as moisture in humid environment. This results in high dynamic capacity as shown in diagrams.

Fire Resistance and High Surface Compression Strength
Test results according to ASTM E84 confirm that ProFlute rotor is fireproof. Achieved a fire spread index of 0 and a smoke index of 0. The rotor also has more than 200kpa surface compression strength.

Standard Used: ASTM E84-97A
- Flame spread index = 0
- Smoke index = 0

Comprehensive Technical Support
All essential performance data of our rotor can be easily calculated using our simulation software provided for all regular customers. HuTek's long experience in climate control ensures that we will be able to provide all the technical supports you need for successful implementation of our products in all your applications.

High degree of Flexibility
The variety of rotor type ensures that we can find a suitable product for various challenges your applications may meet; i.e., very low dew point, alkaline or acidic environment or hygienic environment.

High degree of Customization
We can provide rotor with customized sizes and details as well as replacement rotors that can fit most existing dehumidifiers known in the marketplace. We can also provide various choices of rotor, cassette, and driving system, with choices for fully assembled or in knockdown form to suit any of your specific demands.

PPS/PPX Rotor: For All Purposes
- Material Compositions:
  - 82% Active Silica Gel
  - 16% glass fibre
  - 2% Acrylic surface coating
- Properties:
  - Approximate Dry material density: 240kg/m³
  - Surface compression: > 200kpa
  - No limitation to highest humidity level (as long as no droplet is introduced into the rotor)
  - Can be washed with weak non-alkaline detergent after saturation in humid air
- Applications:
  - Suitable for General dehumidification applications such as steel bridge, electronics, seed storage, laminating glass, candy, desiccant cooling, etc.
  - Suitable for neutral to acidic environment.
  - PPS (modified silica gel) suitable for big moisture depressions such as milk powder, compressed air drying, products drying & conveying.

PPH Rotor: For Hygienic Enhancement
- Material Compositions:
  - 80% Active Silica Gel
  - 2% LICI
  - 0.1% microbiological growth restraint
- Properties:
  - Approximate Dry material density: 240kg/m³
  - Surface compression: > 200kpa
  - No exposure allowed for relative humidity > 95%
  - Can be washed with weak non-alkaline detergent after saturation in humid air (must be re-impregnated by HuTek after washing)
- Applications:
  - Suitable for applications where enhanced bacteriostatic is required such as pharmaceutical, food, etc.

PPM Rotor: For Super Low Humidity
- Material Compositions:
  - 37% Molecular Sieve
  - 45% Active Silica Gel
  - 16% glass fibre
  - 2% Acrylic surface coating
- Properties:
  - Approximate Dry material density: 250kg/m³
  - Surface compression: > 200kpa
  - No limitation to highest humidity level (as long as no droplet is introduced into the rotor)
  - Can be washed with weak alkaline detergent after saturation in humid air
- Applications:
  - Suitable for applications with very low dew point and/or high process air temperature such as lithium battery, plastic hopper, etc.
  - Suitable for alkaline to neutral environment

Standard Dimensions

<table>
<thead>
<tr>
<th>Rotor Diameter (mm)</th>
<th>Available Depth (mm)</th>
<th>Shaft Diameter (mm)</th>
<th>Delivered Knock-down</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-350</td>
<td>50-100, 200</td>
<td>20</td>
<td>No</td>
</tr>
<tr>
<td>450-550</td>
<td>100, 200, 400</td>
<td>20</td>
<td>No</td>
</tr>
<tr>
<td>600-1050</td>
<td>200, 400</td>
<td>20</td>
<td>On request</td>
</tr>
<tr>
<td>1150-1950</td>
<td>200, 400</td>
<td>30</td>
<td>No</td>
</tr>
<tr>
<td>2000-3000</td>
<td>200, 400</td>
<td>40</td>
<td>No</td>
</tr>
<tr>
<td>3050-4500</td>
<td>200, 400</td>
<td>50-70</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Ordering Key

Example: PPS-125X000 = Desiccant with diameter of 152.5mm and depth of 200mm