



Energy Recovery



Dehumidification



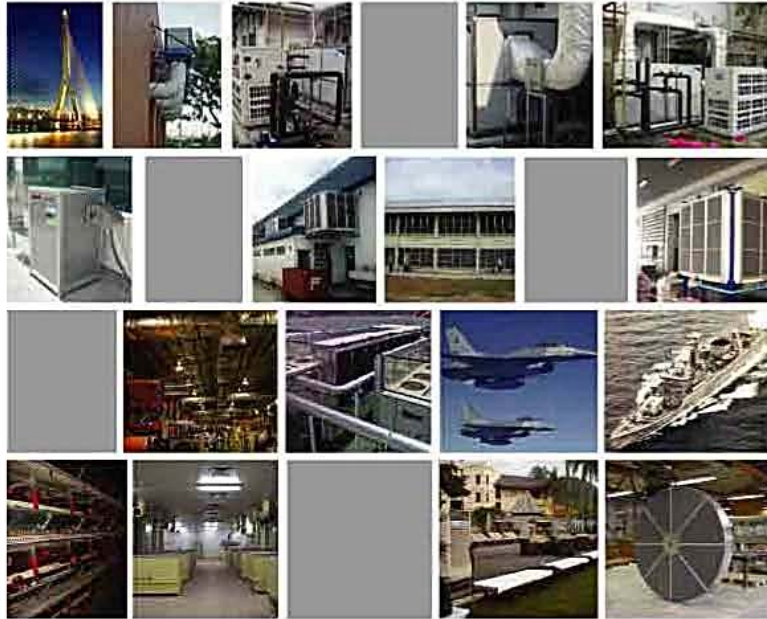
Humidification



Industrial / commercial
Evaporative cooling



Agricultural
Evaporative 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.



Preservations



Evaporative Pre-cooler
Energy Saving



Gas Turbine Inlet
Pre-cooler

ProFlute DESICCANT ROTORS

For The More Efficient Dehumidification Solution



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
- Preservations/Inhibit growth of microscopic organisms
- Corrosion/Condensation Prevention
- Energy/voc recovery
- Desiccant (non-CFCs) cooling

HuTek
HuTek (Asia) Company Ltd.
Climate Control Experts



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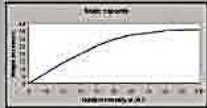
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ProFlute Advantages



"The results were exceptional"

"High Performer in terms of dehumidification and energy efficiency"



High Content of Active Desiccant

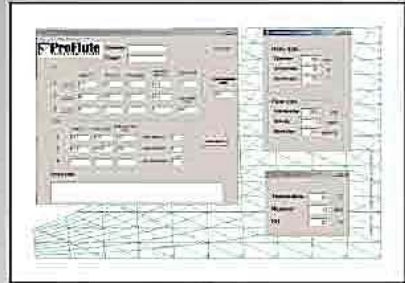
Unique patented manufacturing technology from Sweden gives our rotor higher active desiccant than any other rotors in its market segment. This ensures more dehumidification for less running costs. An independent test from National Renewable Energy Laboratory (NREL) confirms this fact.

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 fire proof. Achieved a flame-spread index of 0 and a smoke index 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 knock-down form to suit any of your specific demands.



Type "T" Cassette construction



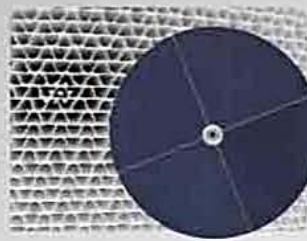
Type "Y" Cassette construction



In 2007, we delivered the world's biggest desiccant dehumidifier rotor* with 4500mm in diameter and 400mm in depth (*as of October 2008)



PPS/PPX Rotor: For All purposes



Material Compositions:

- 82% Active Silica Gel
- 16% glas fibre
- 2% Acrylic surface coating

Properties:

- Approximate Dry material density 240kgs/m³
- Surface compression strength > 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.
- PPX (modified silica gel) suitable for big moisture depressions such as milk powder, compressed air drying, product drying & conveying, etc.

PPH Rotor: For Hygienic Enhancement



Material Compositions:

- 80% Active Silica Gel
- 2% LiCl
- 0.1% microbiological growth restraint
- 16% glas fibre
- 2% Acrylic surface coating

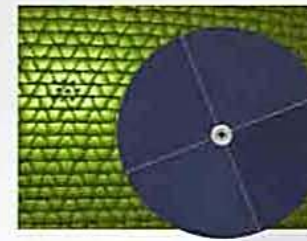
Properties:

- Approximate Dry material density 240kgs/m³
- Surface compression strength > 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% glas fibre
- 2% Acrylic surface coating

Properties:

- Approximate Dry material density 250kgs/m³
- Surface compression strength > 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

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

Ordering Key

