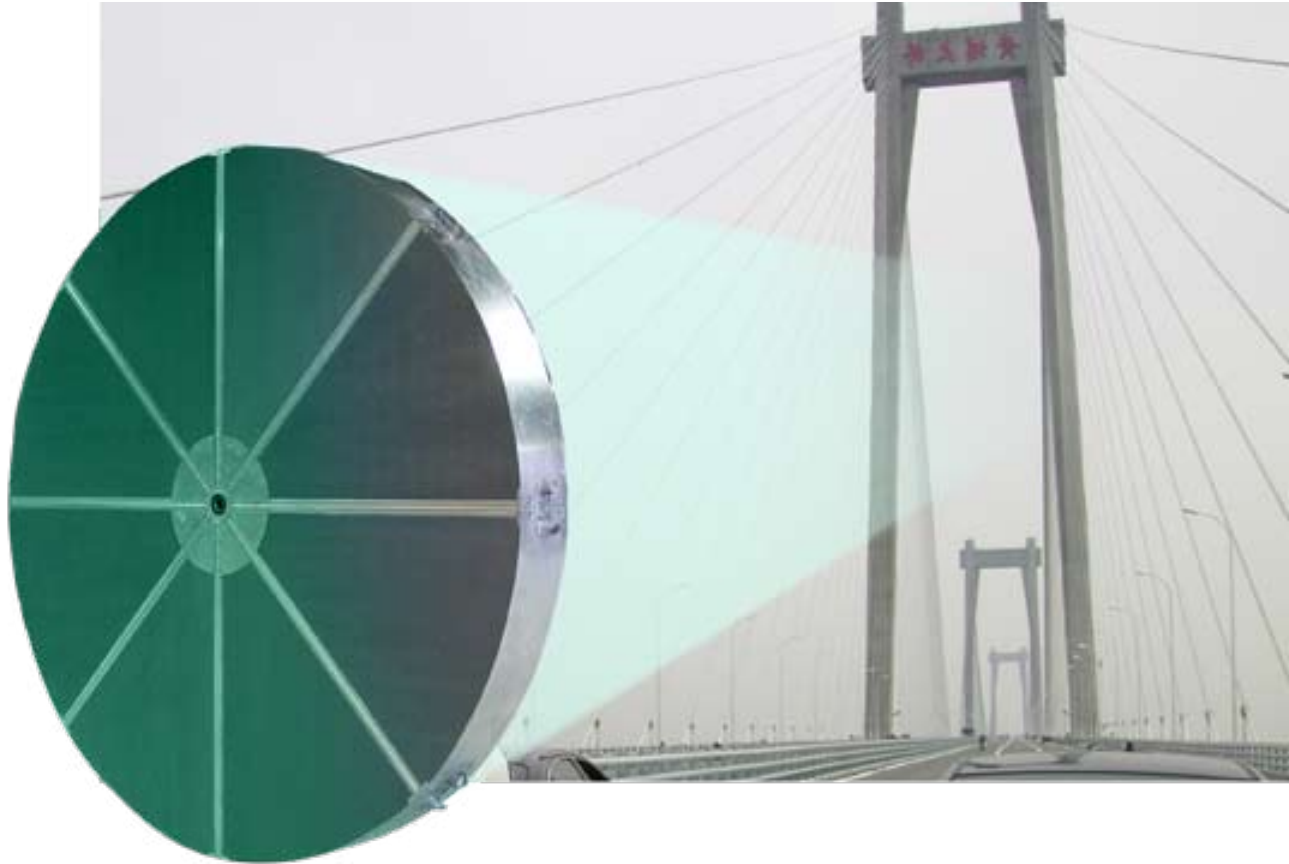


Desiccant Silica Gel Rotor – PPS



The third generation Silica rotors are intended for use in dehumidifiers and desiccant cooling systems. The design is of third generation Proflute silica gel rotors which are well known as market leading products, and widely recognized for outstanding performance in most applications and environments.

The PPS family of rotors has higher contents of active silica gel than any other rotor in its market segment. The silica gel is produced in situ during the manufacturing process, and the PPS formula ensures improved dehumidification performance and energy efficiency. As a result, a dehumidifier with a PPS rotor offers more dehumidification for less running cost than a unit equipped with another rotor of the same dimensions. This is an important factor when LCC aspects (Life Cycle Cost) for a dehumidifier plant are evaluated.

To protect the integrity of our customers, Proflute holds patents on the unique manufacturing process of PPS rotors. The well defined and stable manufacturing conditions makes it possible to closely tailor the amount and characteristics of the silica gel used in the rotors. This ensures and maintains a high level of repeatability in the process which in the long run guarantees a stable and high quality production output of world class rotors.

The capacity, pressure drop and other process characteristics of the PPS rotors are easily calculated using our projecting software, which is available for all regular customers.

Apart from delivering rotors with standard dimensions and properties as outlined overleaf, Proflute can produce replacement rotors in sizes to fit most existing dehumidifiers.

Our offer to you is to provide rotors to fit your needs, with world class performance and dimensioned to your specific demands.

PPS Desiccant Silica Gel Rotor features*

Material composition

- Very high silica gel contents – 82%
- Low glass fiber contents– only 16%
- Acrylic surface coating – remaining 2%

Fire resistance

- ASTM E-84 tested:
- Flame index – 0
- Smoke produced – 0

Technical properties

- No limit on high relative humidity
(as long as no droplets are introduced in rotor during operation)
- Rotor can be washed in water
(with weak non-alkaline detergent after saturation in humid air)

Physical properties

- Dry material density - ~240 kg/m³
- Water vapour adsorption capacity >40%
- Surface compression strength - >200 kPa

Dimensions, standard rotors

Diameter, mm	Available depth, mm	Shaft diameter, mm	Delivered knock-down
100-350	50, 100 or 200	20	No
450-550	100, 200 or 400	20	No
600-1050	200 or 400	20	No
1150-1950	200 or 400	30	On request
2000-3000	200 or 400	40	Yes
3050-4500	200 or 400	50-70	Yes

*) Contents in this leaflet is subject to change without prior notice.



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