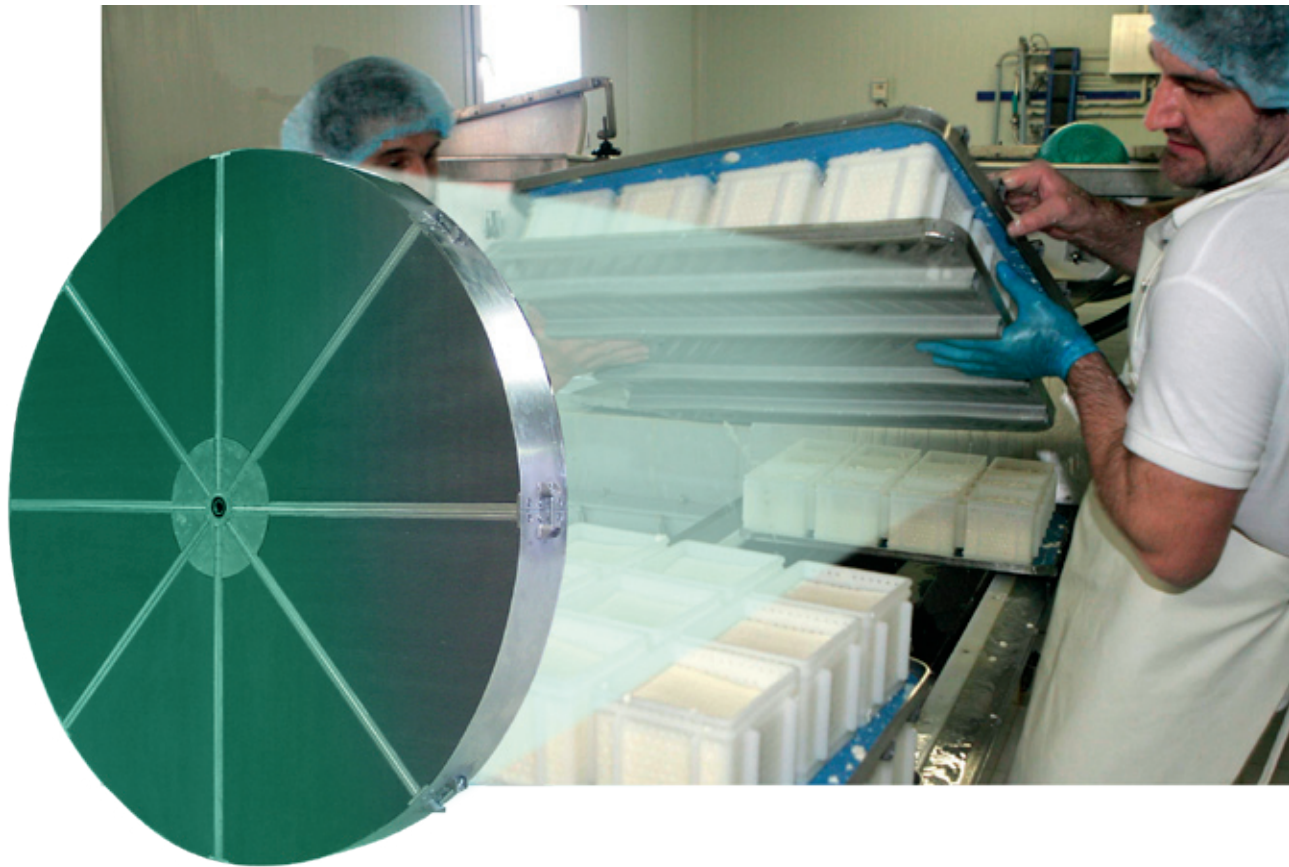


Desiccant Silica Gel Rotor – PPX



The PPX Silica gel rotor is intended for use in dehumidifiers where the process air has a very high moisture content and needs extraordinary reduction of the moisture content (a high delta x). Systems designed for high delta x often use a pre-cooler to take out some of the moisture before it reaches the desiccant rotor. Under certain conditions, the PPX rotor can do the job alone without the need for an extra pre-cooler.

The PPX 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 PPX formula ensures improved dehumidification performance and energy efficiency. As a result, a dehumidifier with a PPX 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 PPX 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 PPX 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.

PPX 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 - ~280 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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