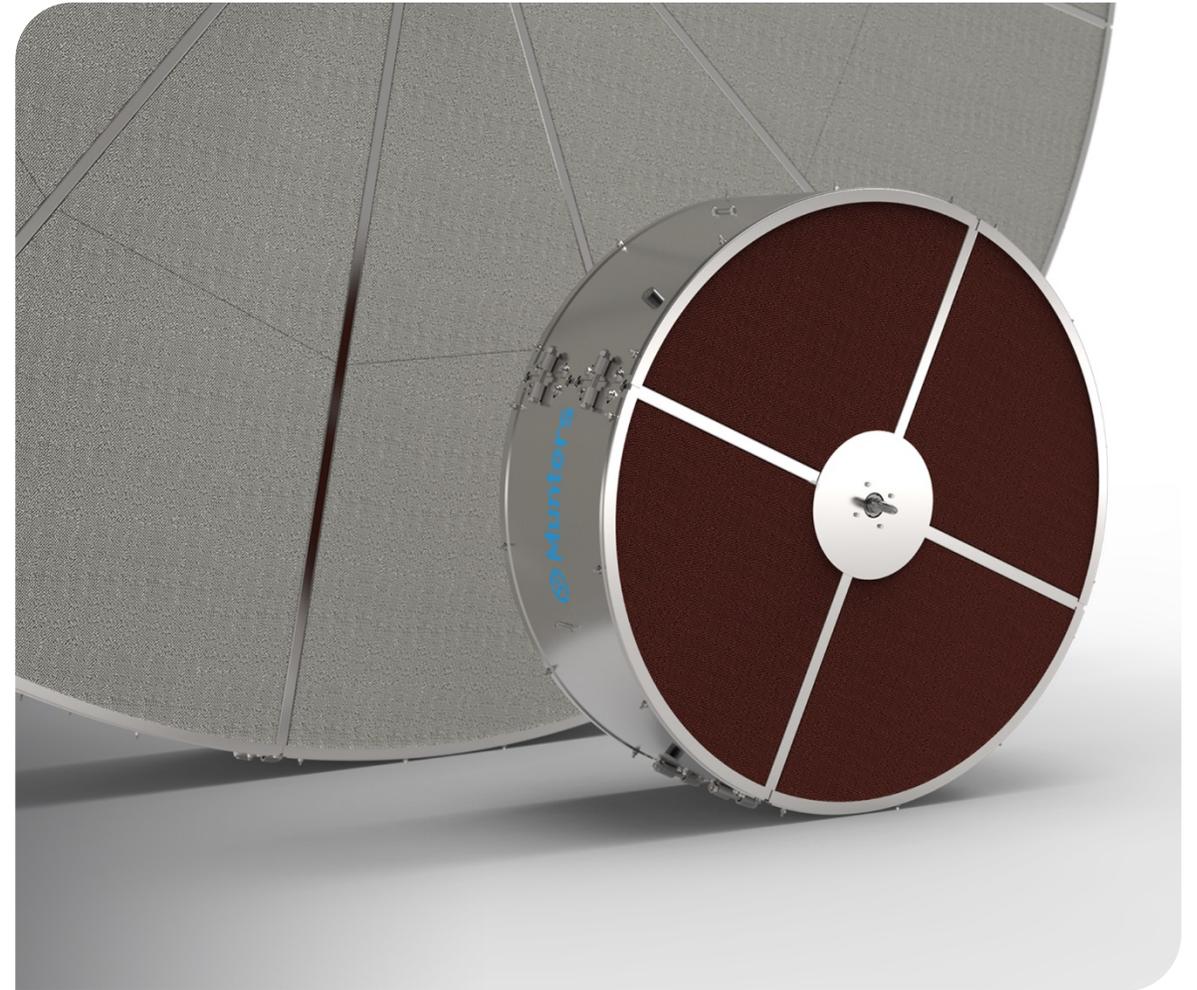


PureRotor

Sales Presentation by Sander Hielkema

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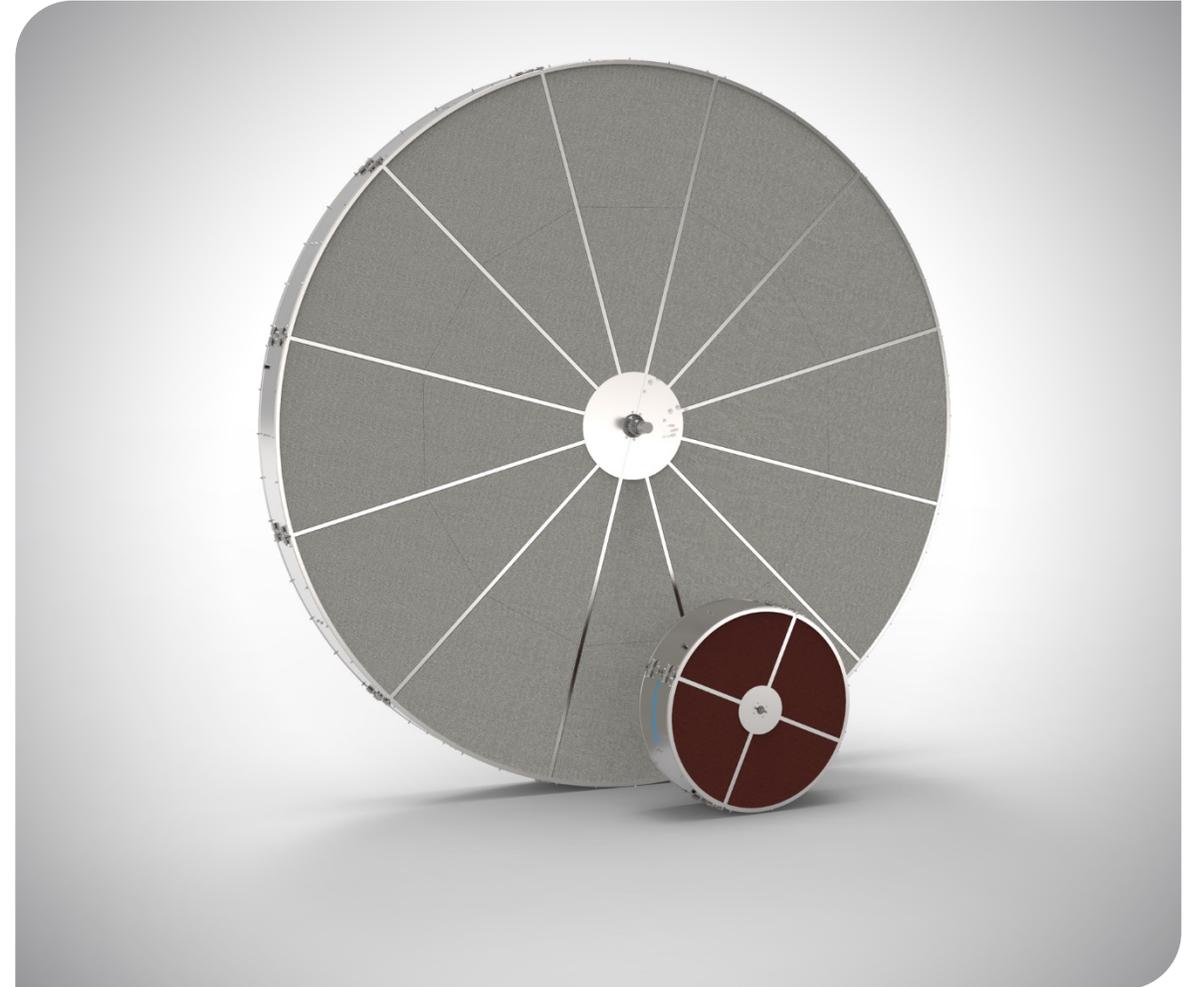


PureRotor for Pure Series

The Premium Desiccant Rotor for spray drying and other high - demanding food and pharma applications.

Unique features:

- High strength construction making it suitable for extreme high airflows
- Certified bactericidal rotors for food safety
- Corrosion resistant stainless steel
- Energy saving up to 40%
- Premium desiccant media
 - HPS (High Performance Silica gel)
 - Energy efficient Quantum™
- Up to 25% lower pressure drop



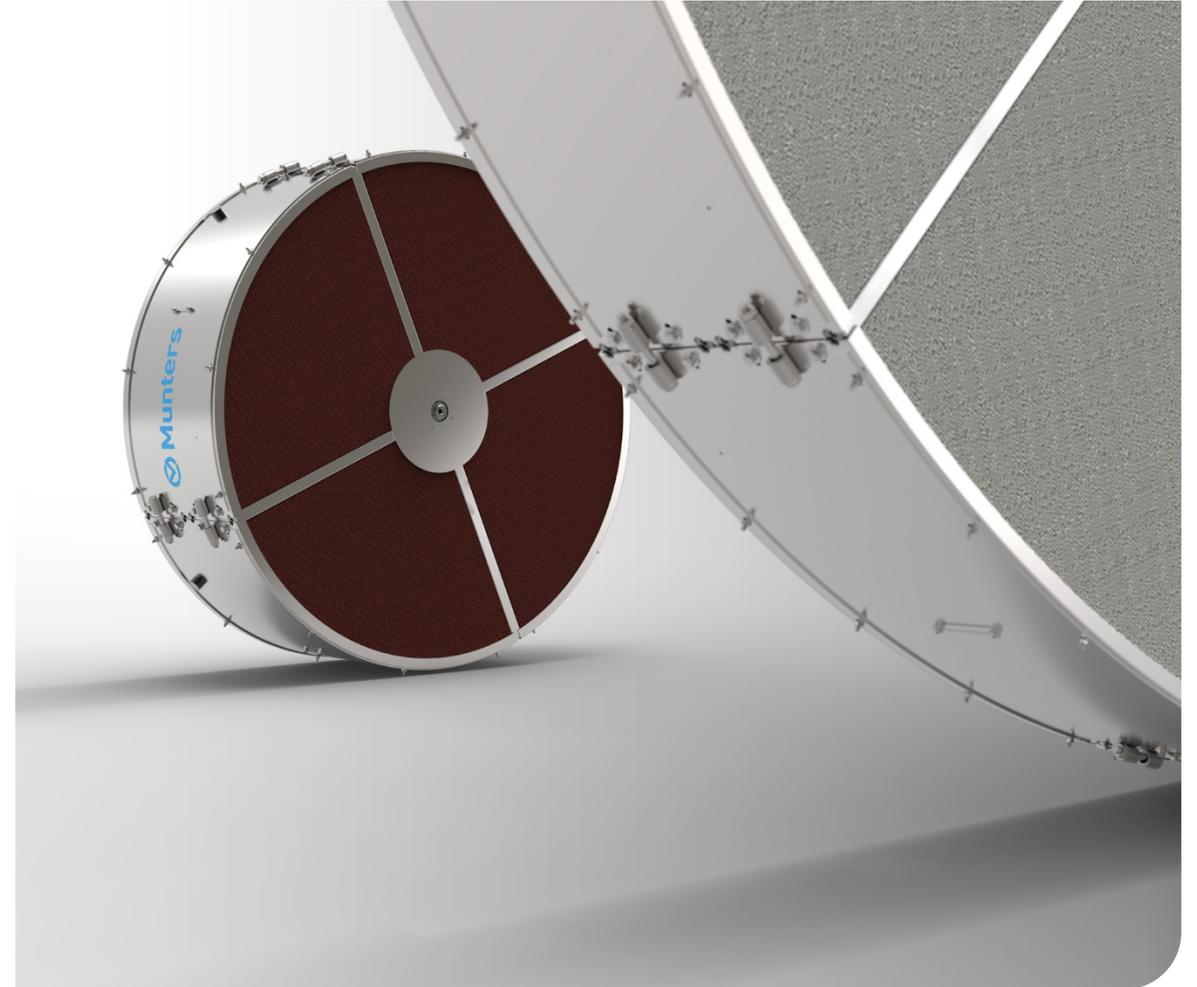
Proven technology and outstanding quality

The new design gives the best of both worlds - a hybrid with the superior design features taken from the Munters rotors and the Pure spray drying experience with large rotor design and stainless steel materials. New techniques and materials were needed to accommodate the additional loads and meet other technical challenges due to the size of the wheel and the need to interface it with the existing PureSystem™ drive and seal systems. Cased in 304 stainless steel this large rotor is the perfect combination for the spray drying and other demanding food industries with significant moisture loads without the need for any pre-cooling.

Certified bactericidal rotors for your safety

The highly efficient and bactericidal Quantum™ media eliminates the need of wet coils, securing better hygienic conditions. Worldwide references confirm the hygienic advantages, reliability and energy efficiency of Munters Quantum™ rotors for demanding processes like dairy and baby milk powder production.

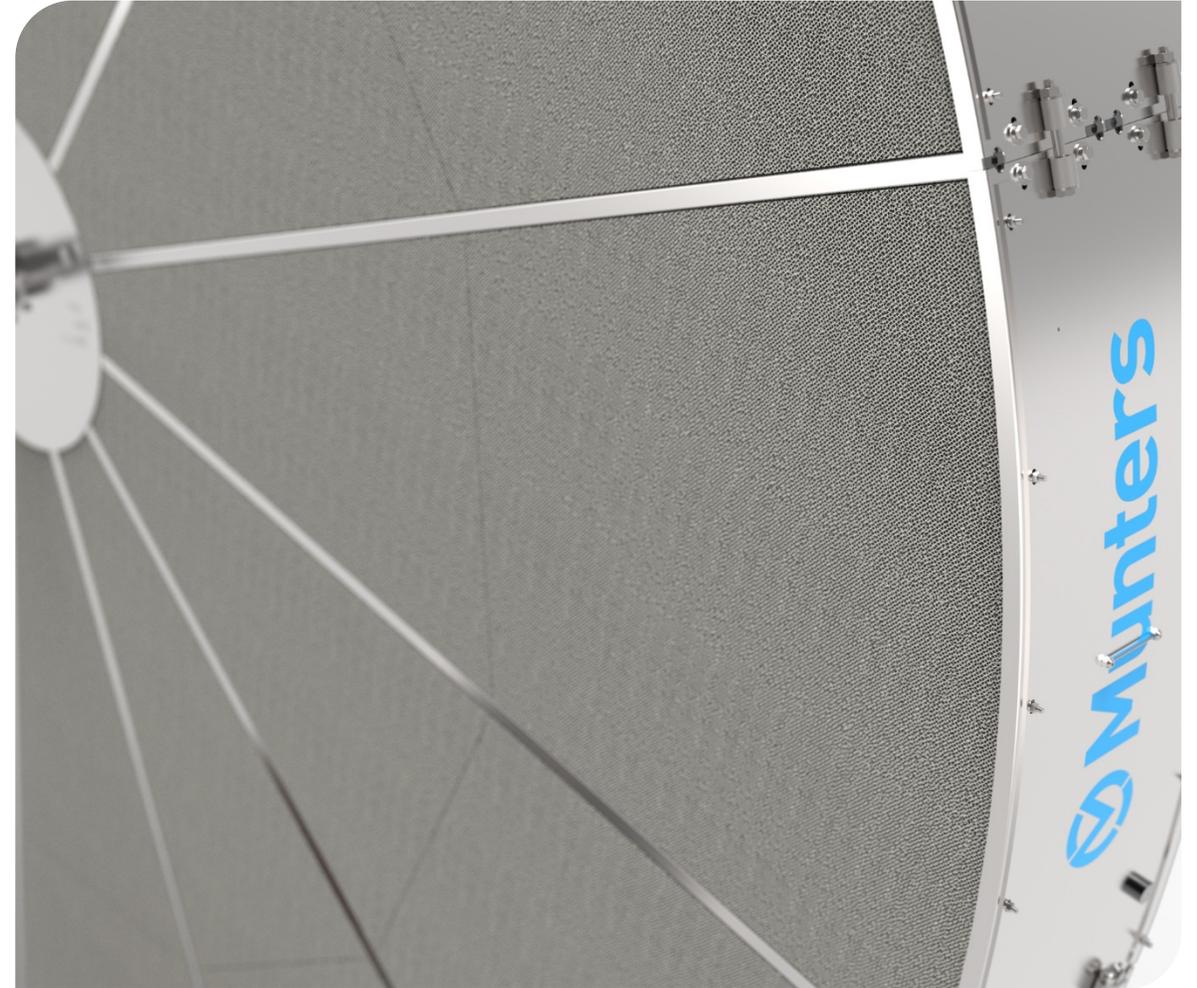
Made of a non-metallic, ceramic composite, Munters highly hygroscopic rotors are engineered to provide superior strength and durability. The unique and thorough manufacturing processes assure that the desiccant media and the casing is integrated perfectly. Our quality control tolerates no imperfections that can inhibit the performance of the dehumidifier, and the desiccant wheel is characterized by a smooth and regular surface - designed to last.



PureRotor structure

The Premium Desiccant Rotor:

- High strength construction making it suitable for extreme high airflows
- Corrosion resistance stainless steel structure
- Unique durable dog-bone spoke structure
- Heavy duty external bearing with anti-movement hub
- Exchangable media segments with stainless steel gladding
- 200mm media blocks for easy installation
- Sizing up to 4500mm

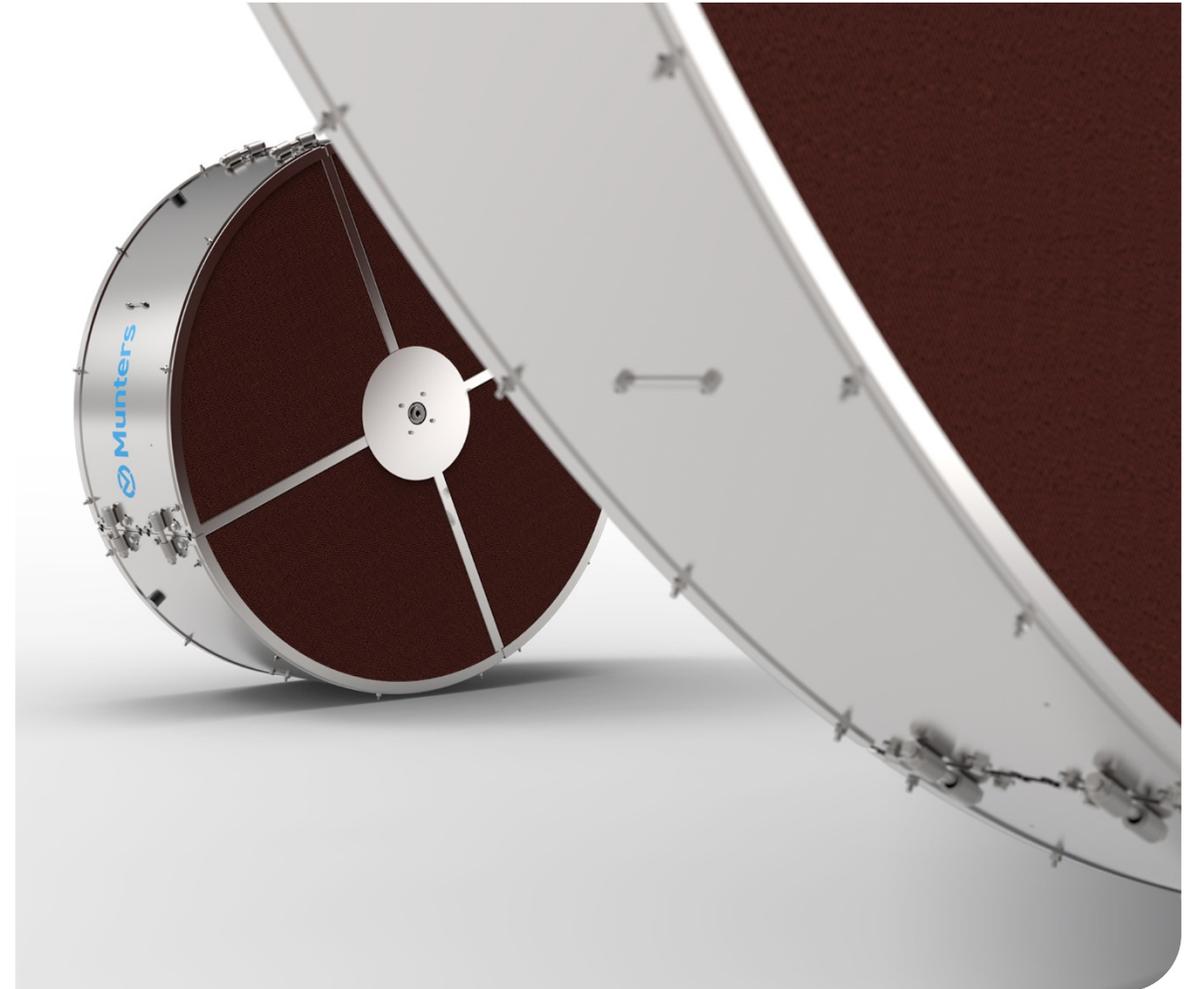


Our High Performance silica gel rotor

The HPS rotor is our all-round work horse, where water resistant titanium silica gel is the adsorbent. The manufacturing method, developed and patented by Munters, results in a strong and stable structure, offering ideal drying performance in a wide range of applications.

Inert, stable and non-toxic desiccant that can hold up to 40% of its dry weight in water (when in equilibrium with air at saturation).

- Certified to have bactericidal effect to contaminants and does not emit particles to the processed air
- Resistant to acids, sulphur products and most chemicals
- Silicone free version available for eg. car and electronic industry
- Fully washable if air passage ways have been blocked by dust, etc.

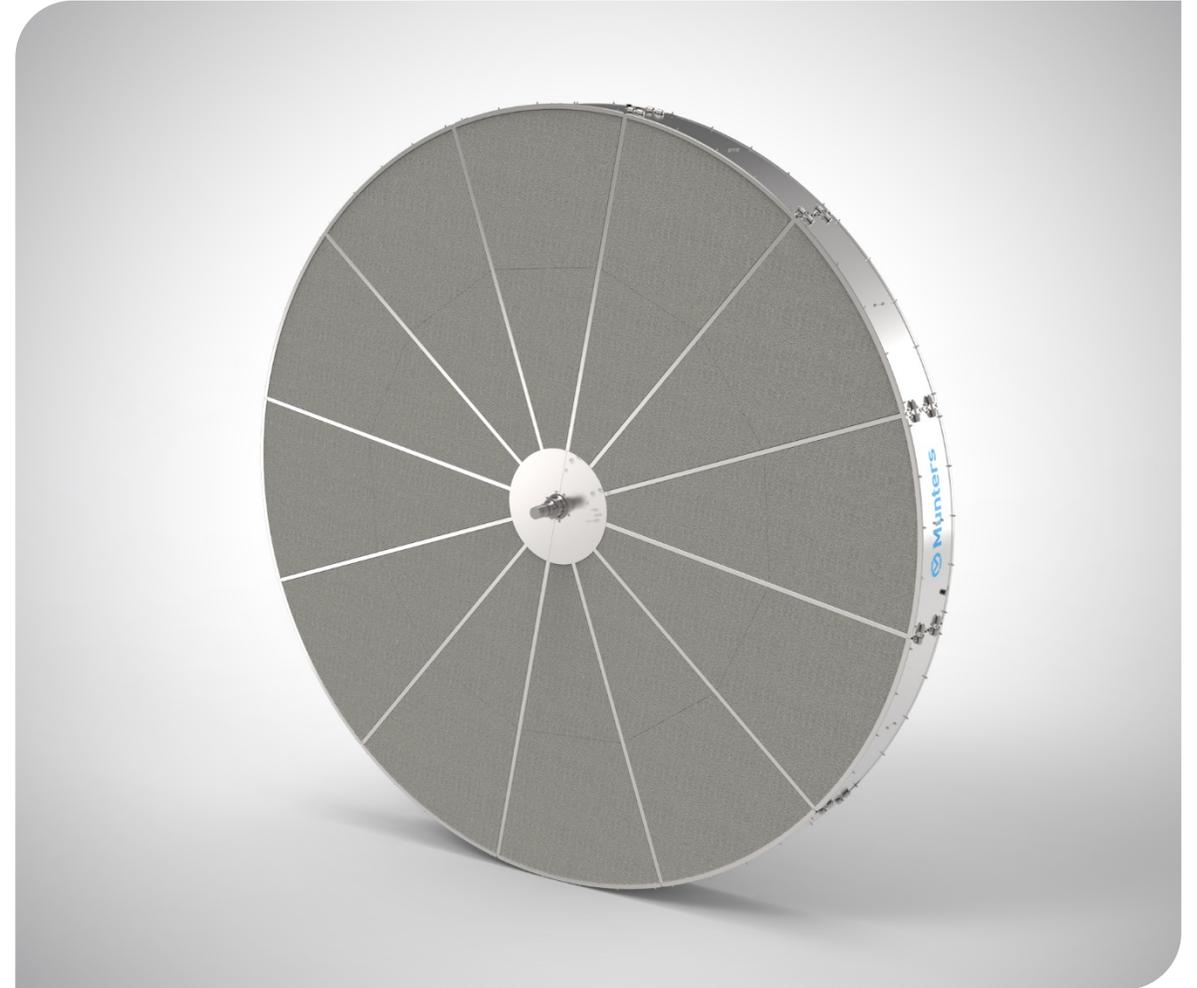


Our energy efficient Quantum™ rotor

Provides exceptional moisture removal without requiring any pre-cooling (eg. ΔX up to 15g/kg) thus making it suitable for high regeneration temperature applications.

The insoluble desiccant cannot be “washed out” - making it effective in applications utilizing 100% outdoor air.

- Certified bactericidal rotors for your food safety
- Energy saving unique and special desiccant that can stand very high regeneration temperatures
- Designed for all drying and cooling processes where a high ΔX is required
- Effectively eliminates the need of pre-cooling, reducing energy consumption
- Utilizes waste heat for regeneration
- Dry and hygienic environment due to no condensate in the system and certified bactericidal and fungicidal rotor properties



Application focus: spray drying, saving up to 40% energy



The special composition of the Quantum™ rotor enables it to stand extremely high regeneration temperatures, beneficial in eg. drying processes.



As no additional cooling and heating equipment is needed next to the desiccant dehumidification system the overall footprint will become small. Most important is the increased production capacity and stable quality as the production will no longer be affected by the outdoor climate.



COP and CO₂ emission per kilo powder produced will be reduced dramatically, thanks to an up to 40% more energy efficient and environmentally friendly production.





Munters

Your Perfect Climate