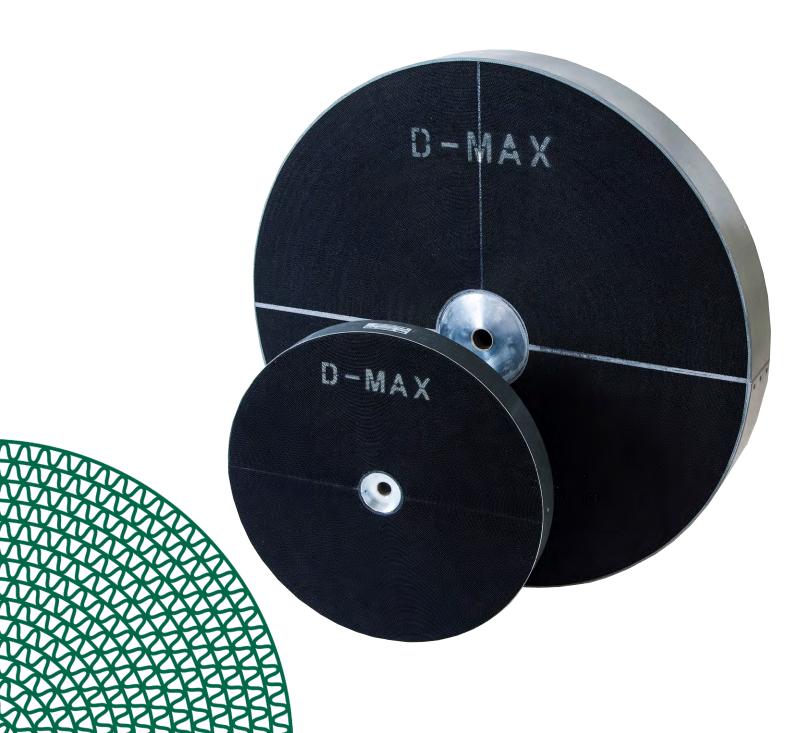
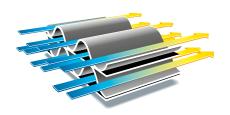


Desiccant Rotors



DEVELOPMENT OF THE SILICA GEL ROTOR

The adsorption rotor is manufactured from alternate layers of flat and corrugated sheets, impregnated with an active component called desiccant. It is made to form a vast number of axial air channels running parallel through the structure. As the air passes through the channels it is dried. In 1984 Seibu Giken, patented the first active silica-gel desiccant rotor known as the "SSCR®". Thereafter, the SSCR-M was developed, improving it's capacity by adding metal silicates.



Utsnitt ur en D-MAX rotor från Seibu Giken Co.

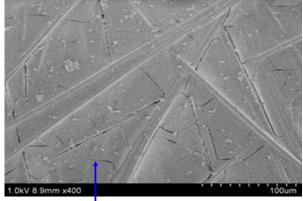
Optimal silica gel is bonded together with the paper

All DST desiccant dehumidifiers use the Seibu Giken Silica Gel Rotor. In the Seibu Giken rotor the silica gel is chemically bonded to the structure, which means that there is no desiccant carry-over to the air. It also means an excellent lifetime. After 10 years of operation the Seibu Giken rotor retains more than 90% of its original capacity. Another important feature is that the Seibu Giken rotor can be washed if it becomes contaminated. This is especially important for rotors working under harsh conditions.

Test carried out by Japan Food Research Laboratories shows that no dust is carried over to the dry air in a Seibu Giken rotor. Tests on DST dehumidifiers placed in sewage stations have also shown that the rotor is bacteriostatic.

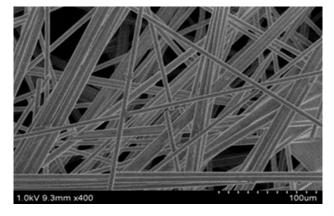
DST Rotor Evolution

- SSCR the world's first silica gel rotor.
- SSCR-M improved capacity with adding metal silicates.
- SSCR-U again better capacity with changes to surface treatment and desiccant mixture.
- DMR improved capacity thanks to thinner carrying material and optimised silica gel.



Silica gel is chemically bonded making the rotor better quality and long-lasting.

A Seibu Giken desiccant rotor can be washed if it is contaminated especially one working under harsh conditions.



Without silica gel

Seibu Giken was the first company to develop a silica gel rotor and is still the technology leader.

SEIBU GIKEN DST OFFERS YOU 5 DIFFERENT ROTORS WITH UNIQUE QUALITIES



D-MAX

Standard rotor for most DST units, and is suitable for most application. The Millau bridge (France) has an extended life time, due to the corrosion prevention of the box sections by using DST dehumidifiers.



D-MAX H

A hygienic rotor developed for the confectionery, pharmaceutical and food industry. The rotor surface eliminates existing bacteria and prevents the formation of new bacteria. Bactericidal due to inclusion of antibacterial agent during manufacture.



D-MAXZ

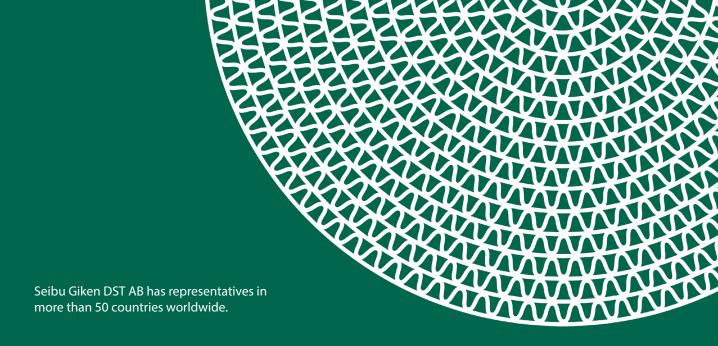
This rotor was developed specifically for the automotive, pharmaceutical and other industries requiring 100% silicon free air supply. Manufacturing material is guaranteed silicon-free.

Common use is in automotive spray painting and some laboratories.



SZCR

The manufacturing process for lithium batteries requires a very low humidity level (ca 2 % RH). The latest environmentally friendly electric vehicles use lithium i-on batteries.





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Seibu Giken DST is certified according to ISO 9001

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