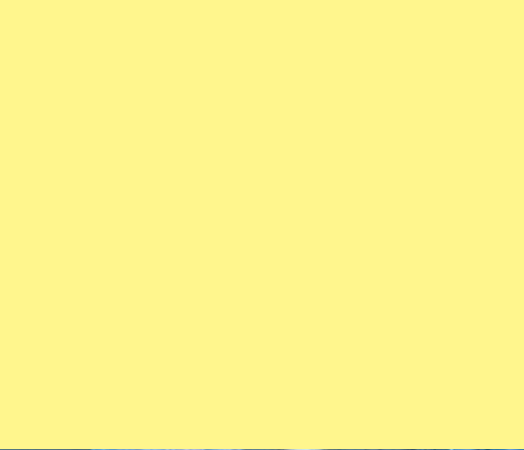


Dehumidifiers from Seibu Giken DST





Seibu Giken DST has just the dehumidifier for you!

There is moisture everywhere. Damp air in the wrong place can damage products and buildings or reduce the efficiency of a production process. Dehumidifiers from Seibu Giken DST AB are your best means of avoiding such harmful moisture.

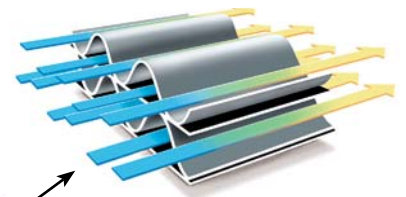
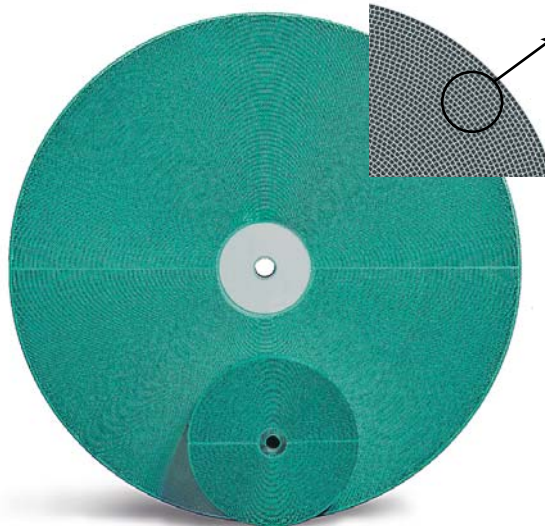
There is a Seibu Giken DST AB dehumidifier for all applications from small portable units to large dehumidifiers. For the process industry for example. All of DST's units use the unique SSCR rotor from Seibu Giken, Japan. A guarantee of high dehumidification capacity!

DST's dehumidifiers are characterised by:

- high level of operational reliability
- low energy consumption
- service-friendly design

The SSCR rotor from Japan is at the heart of every DST dehumidifier

Seibu Giken in Japan manufactures the rotors for all of DST's dehumidifiers. Thanks to our research and development efforts, the SSCR rotor has been at the leading edge of sorption technology for many years. The quality of the rotor is crucial for a dehumidifier.



Section of a dehumidifier rotor from Seibu Giken. The high number of channels means that moisture is adsorbed with extra efficiency!

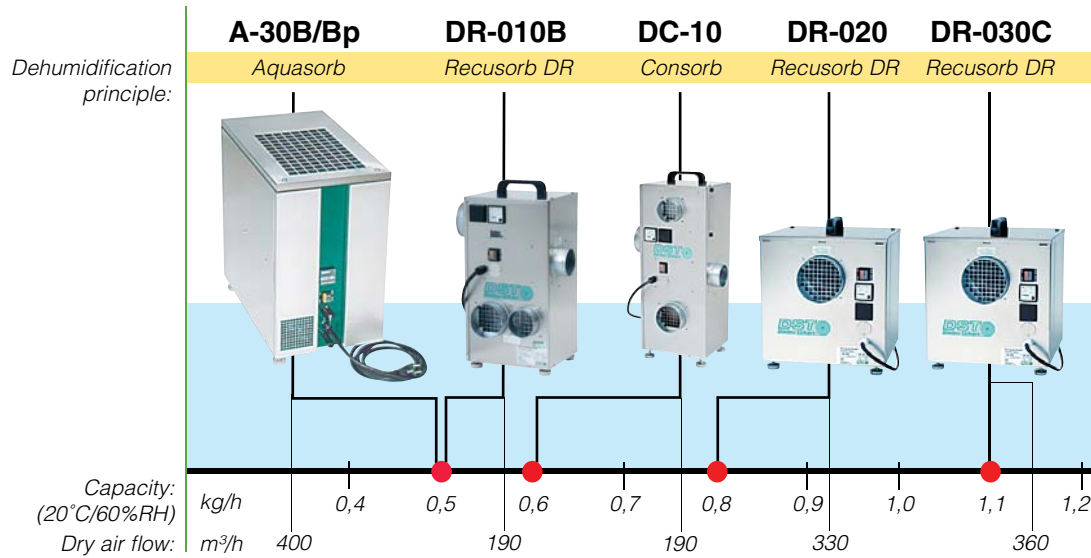
Contact your nearest DST agent for more information!

There are agents in approximately 40 countries all over the world at your service. DST is now one of the world's leading suppliers of dehumidifiers. DST's dehumidifiers are only sold through authorised agents. You can find all contact information at www.dst-sg.com.



Small dehumidifiers

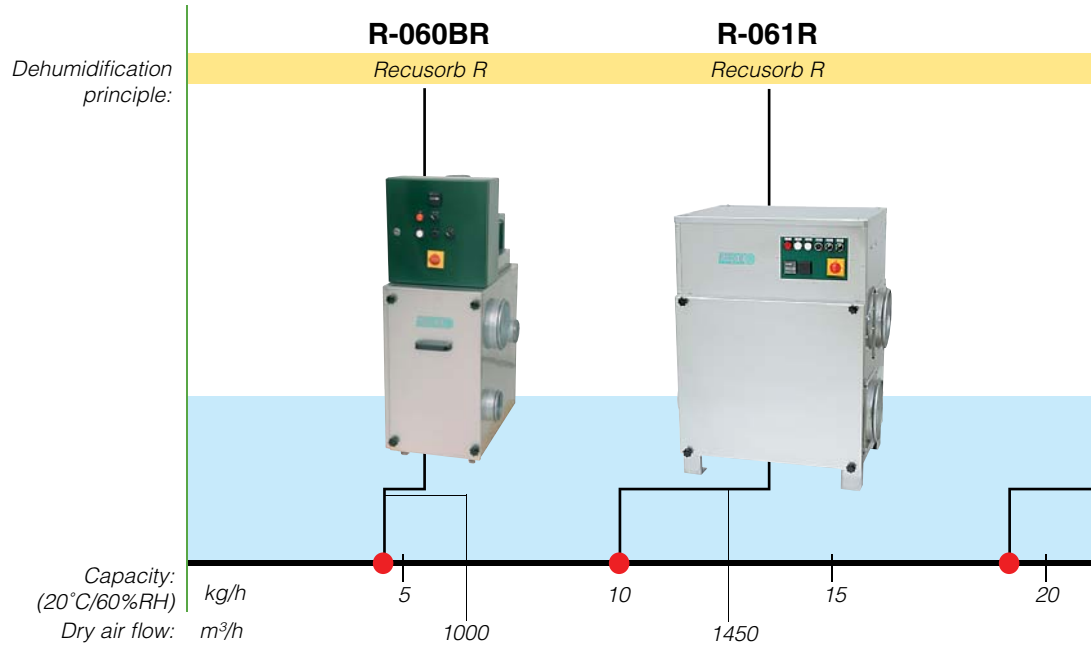
Stainless steel units. These dehumidifiers are used for purposes such as dehumidification in military warehouses, hydropower plants and for permanent installations in areas with relatively low moisture levels.



Medium-sized dehumidifiers

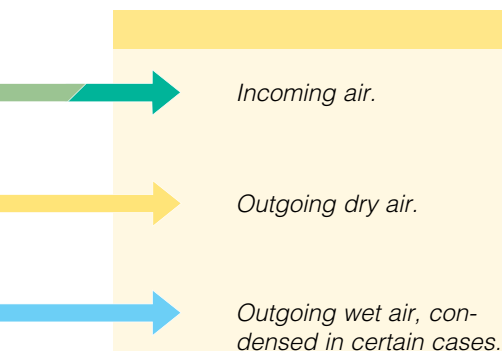
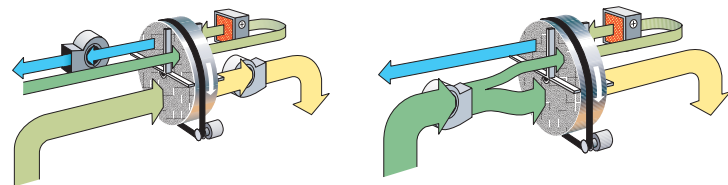
The R-060 and R-061R are stainless steel units used in fields such as process industry, warehouses, plastic halls or in the event of serious water damage.

The RZ range consists of three compact units made of galvanised steel with fans on the outside. Ideal for the process industry, for example.



Dehumidification principles

The basic principle of sorption dehumidification is that the rotating rotor continuously adsorbs the moisture. The moisture is discharged via an independent wet air outlet.

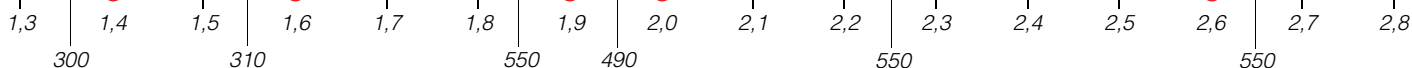
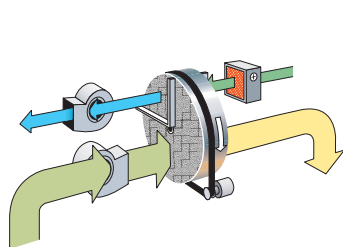
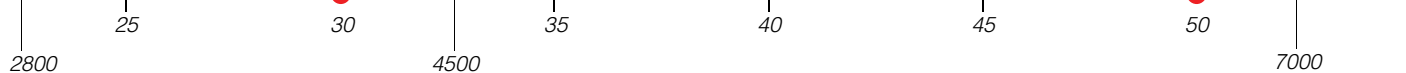


RECUSORB R

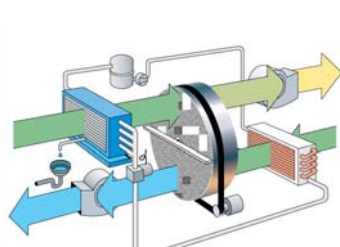
Recusorb R operates using integrated heat recycling. During the rotor's regeneration (green), heat is absorbed, and then recycled in the "purge zone", where incoming air is pre-heated and partly dehumidified. Energy consumption falls and the dry air becomes both drier and cooler compared to other sorption dehumidifiers.

RECUSORB DR

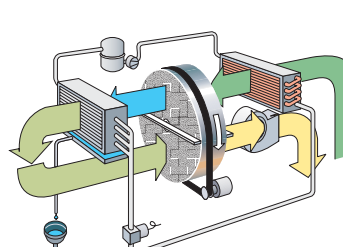
Like Recusorb R, Recusorb DR has heat recycling, but has a fan for both the dry airflow and the wet airflow. This makes installation simpler when you require overpressure in the room to be dehumidified. This principle is also suitable when you want to achieve very low dew points.

DC-031B*Consorb***DR-031C***Recusorb DR***DR-40 10A***Recusorb DR***DC-031C 16A***Consorb***DR-40 16A***Recusorb DR***DR-50R***Recusorb DR***RZ-081***Recusorb R***RZ-101***Recusorb R***RZ-102***Recusorb R***CONSORB**

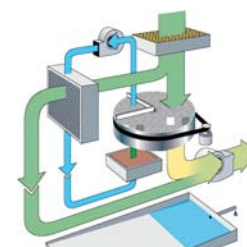
The Consorb principle is normally used at low regeneration temperatures, e.g. if you have surplus heat or when dehumidifying very damp air.

**ECONOSORB**

Econosorb combines a heat pump with the sorption rotor in a unique way, providing very low energy consumption and a low dry air temperature. Probably the most energyefficient dehumidifier on the market, with approx. 1/4 of the total energy consumption of regular sorption dehumidifiers. Econosorb has both condensation and wet air.

**FRIGOSORB**

Frigosorb is a principle patented by DST. Frigosorb is used in applications where it is difficult to remove a wet air airflow. Thanks to the heat pump function Frigosorb is very energy-efficient, using approx. 1/3 of the total energy consumption of regular sorption dehumidifiers.

**AQUASORB**

Aquasorb basically functions as a Consorb but the wet air flow is condensed in an air-chilled condenser instead of being led out. Thanks to the common fan for dry air and cool air, all energy is accumulated in the dry air. Aquasorb has a high dry airflow, which improves the drying effect.

Flexisorb – dehumidifiers for industrial applications

Flexisorb means flexibility. The Flexisorb range has been developed by DST to satisfy the varying requirements of industry. Flexisorb units are modular in their design, and have tremendous potential to be adapted according to the specific requirements of each application. Contact your nearest agent for more information!

Flexisorb uses the *Recusorb*, *Consorb*, *Econosorb* or *Frigosorb* dehumidification principles.



Rotor cassettes

Rotor cassettes are used when a standard dehumidifier is not suitable or does not satisfy the customer's needs, e.g. air treatment units.

Model:

RU-060
 RU-061
 RU-062
 RU-082
 RU-102
 RU-122
 RU-152
 RU-172
 RU-192
 RU-242
 RU-274
 RU-334
 RU-424

Process airflow: 0 20 000 40 000 60 000 80 000 100 000 150 000 200 000 250 000 m³/h



The rotor cassette contains:

- Seibu Giken's unique SSCR rotor
- Rotor motor with transmission
- Sector seals

Control equipment

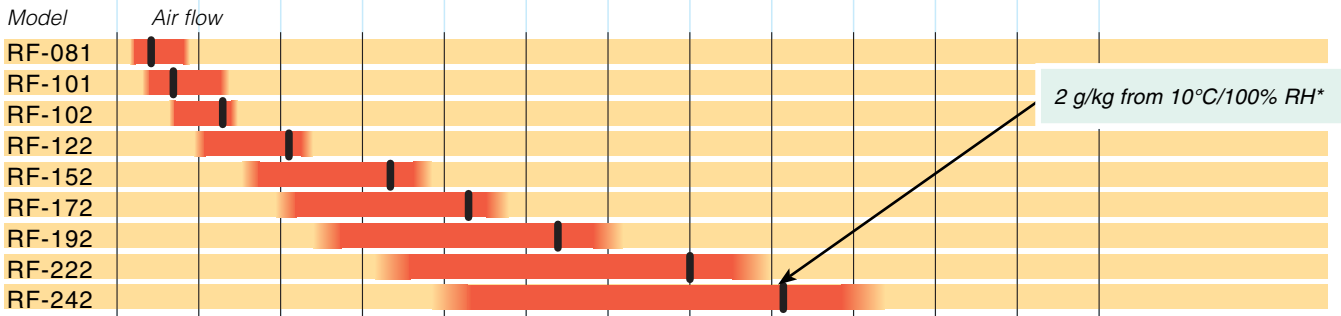
A good control system for dehumidification installations will usually have a very short payback period.

DST offers a number of tried and tested controls to meet the needs of various applications with regard to energy-saving, climate control and monitoring. See DST's separate brochure for further information.



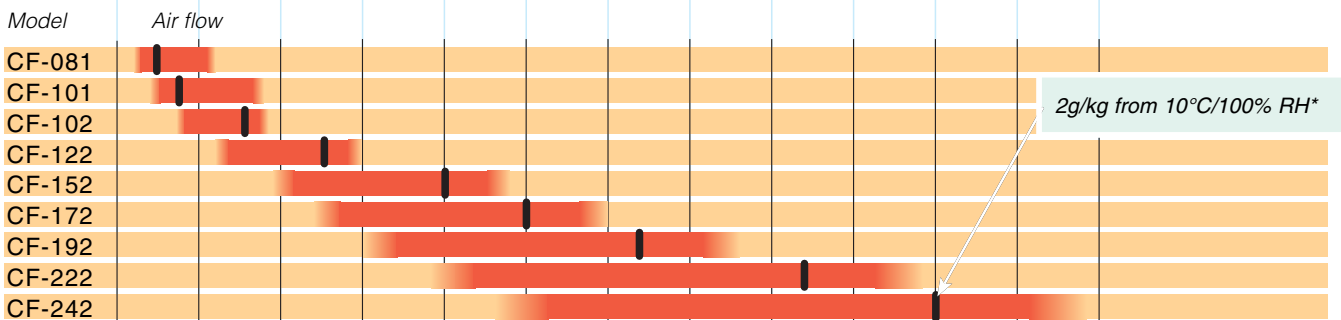
Process airflow 0 10 000 20 000 30 000 40 000 50 000 60 000 m³/h

Recusorb – embraces internal heat recovery whilst being highly energy efficient.



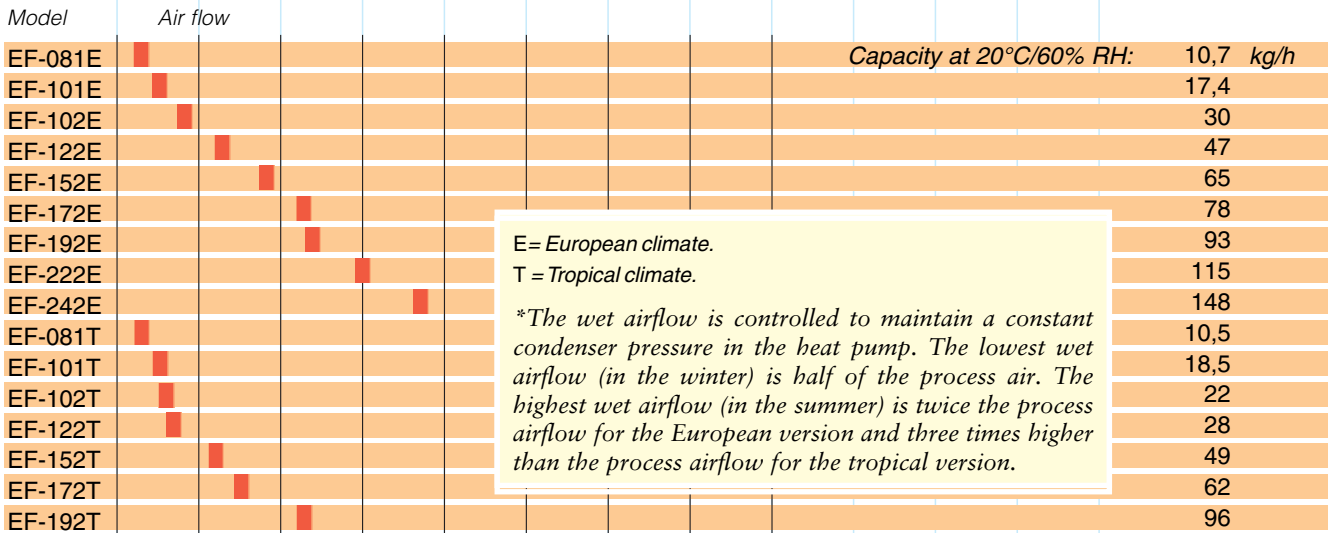
*Process air flow to achieve dry air with 2g/kg when process air in is 10°C/100% RH and when regeneration air in is 30°C/16g/kg. Wet air flow is 40% of the process air flow. Regeneration temperature is 140°C.

Consorb – suitable where there is a wide temperature difference between the process air and regeneration air.

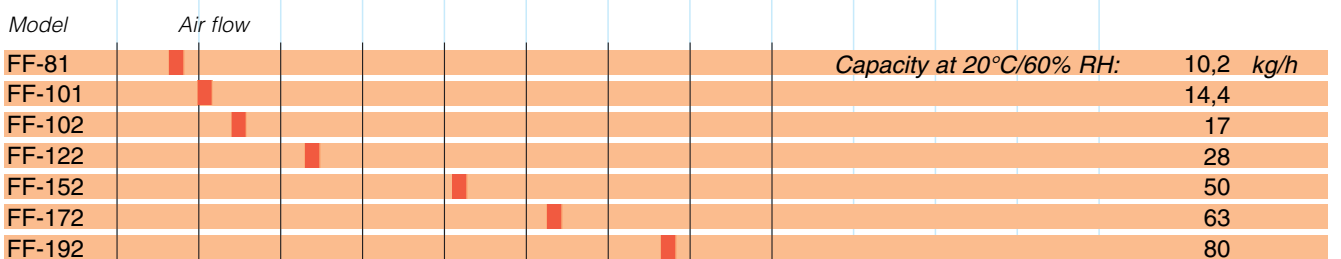


*Process air flow to achieve dry air with 2g/kg when process air in is 10°C/100% RH and when regeneration air in is 30°C/16g/kg. Wet air flow is 40% of the process air flow. Regeneration temperature is 140°C.

Econosorb - the most energy efficient unit in the DST range. No high temperature gain across the process sector.



Frigosorb – an energy efficient dehumidifier with built in condenser. No wet air outlet ducting required.



Process airflow 0 10 000 20 000 30 000 40 000 50 000 60 000 m³/h

Seibu Giken DST is now one of the world's leading suppliers of dehumidifiers, with agents in approximately 40 countries. Since 1993 DST has been a subsidiary of the Japanese company Seibu Giken Co Ltd. Seibu Giken Co manufactures dehumidifier rotors, VOC rotors, heat exchangers, etc.

Find out more at www.seibu-giken.co.jp



Seibu Giken's head office in Fukuoka, Japan

Seibu Giken DST
is certified according
to ISO 9001.

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