

APPLICATIONS

The RF units are suitable for applications requiring complete solutions for dehumidification, with moisture and temperature control.

Seibu Giken DST also offers 4 different rotors for environments with special requirements; during pharmaceutical manufacturing, in the plastics industry, the manufacture of food and confectionery, the automotive industry, and others.

Some of our references: Volvo Cars (Sweden), Borealis AB (Sweden), Rayhaneh Pharma (Iran), AstraZeneca (Sweden), Kaufland (Czech republic), Swedish Meats.



Automotive industry



Food industry

Confectionery industry



Plastics industry



Seibu Giken DST is certified according to ISO 9001.

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DST
Seibu Giken

RF DEHUMIDIFIERS

SEIBU GIKEN DST

Dehumidifying capacity
at 20 °C/60 %RH

19–90 kg/h

Dry air flow

3200–15600 m³/h



DST
Seibu Giken

RF, Compact and energy-efficient dehumidifiers

The RF range is a series of compact dehumidifiers from Seibu Giken DST which have been developed to meet the varying needs of the process industry. The "Recusorb" dehumidification principle involves integral heat recovery and hence low energy consumption. You can choose from electricity, steam or gas for rotor regeneration so that you can always make the most of all energy options open to you. Energy saving systems combined with various options allow you to create a dehumidifier to suit the specific needs of each and every project.

These units are constructed using an anodised aluminium frame. The smooth interior design, with no sills or pockets, and external locks on the hatches make the inside easy to wash so as to maintain good hygiene levels. Stainless steel panels are available as an optional extra for dehumidification in demanding environments. Our RF dehumidifiers are tested at our Swedish factory so as to keep the start-up time to a minimum when they are installed.

Energy-efficient controls

There are several different energy saving systems to choose from, such as binary or linear dehumidification capacity control (see our "Energy savings" brochure). A clear graphic display showing the dehumidification process, temperature and humidity is available as an optional extra. You also have the

option of keeping track of the entire process online, thereby saving on travel and facilitating monitoring.

Filters for all environments

Integral bag filters, class F7, with centre latches fitted as standard. DST offers pre-filters for demanding environments and post-filters to HEPA class as optional extras.

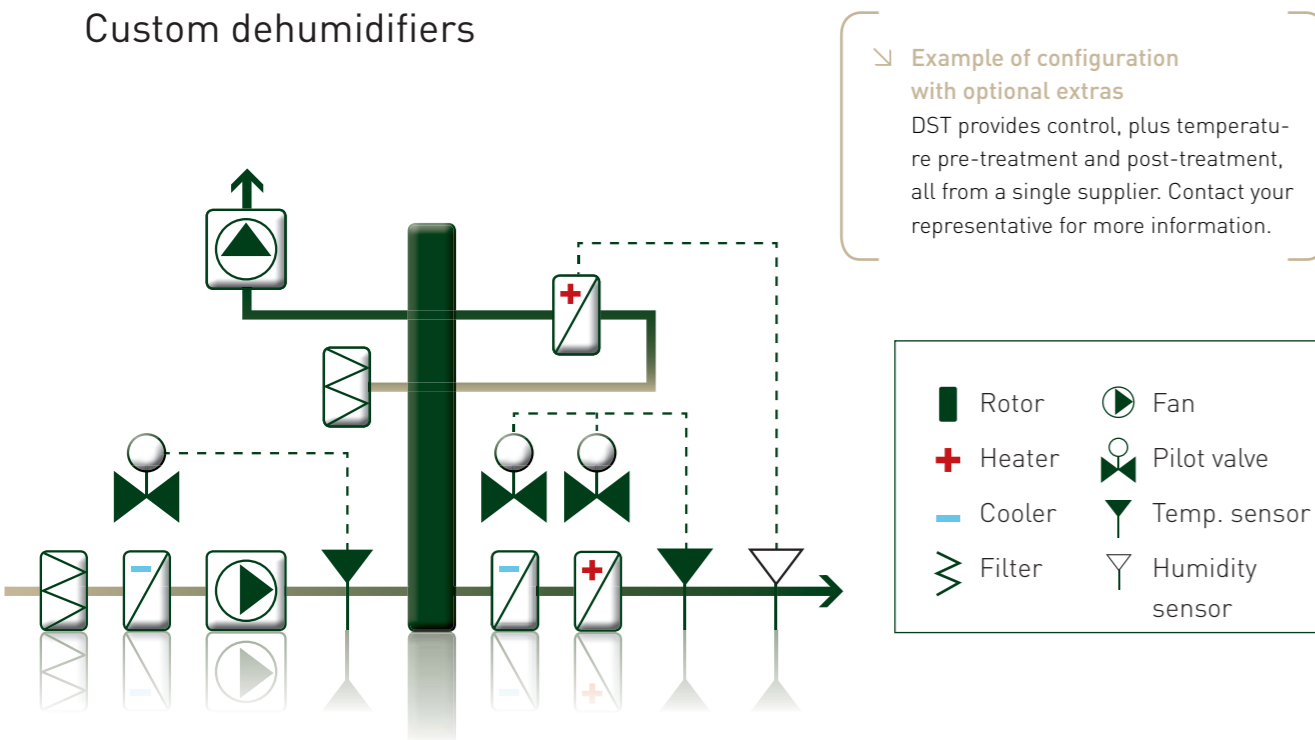
Low-noise fans

Integral plug fans and panels with insulation between the sheets ensure low noise levels. Direct driven plug fans ensure low energy consumption with integral frequency inverters. Frequency inverters and integral measuring devices allow air flows to be altered and adjusted with ease. The frequency converters also save energy due to the fact that no dampers are required for adjustment.

Washable, highly efficient rotor

All DST dehumidifiers are fitted as standard with the unique SSCR-U rotor from our parent company Seibu Giken. The SSCR rotor offers a high dehumidification capacity and a long service life thanks to its hard surface and chemically bonded silica gel. The rotor is washable and also non-flammable. A further three unique rotors (see table) are available as an option. The RF unit has a removable rotor cassette to facilitate cleaning and servicing.

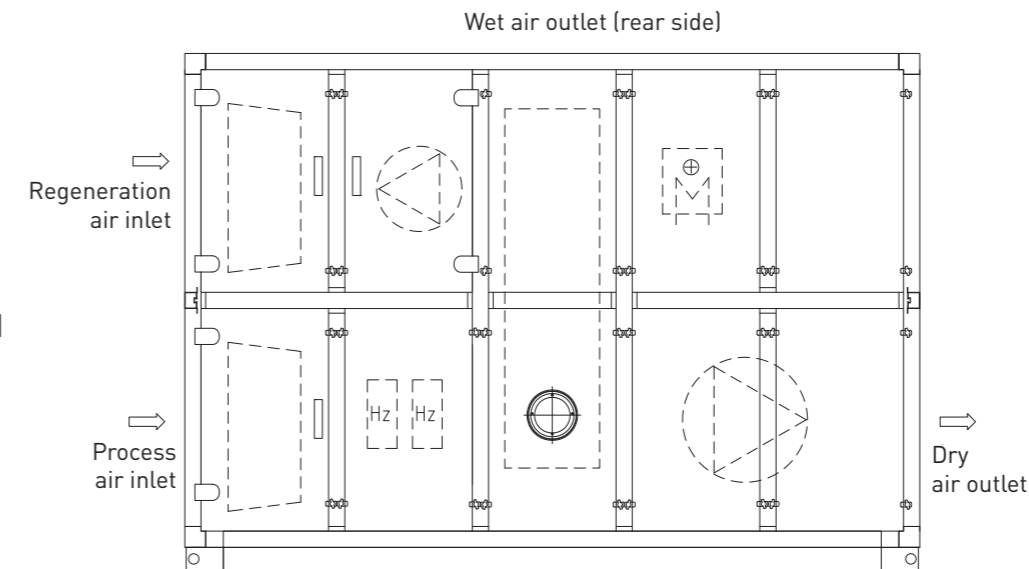
Custom dehumidifiers



Dehumidifier RF-122



The drawing shows the RF-122 standard



DIMENSIONS				
	RF-81	RF-101	RF-102	RF-122
Length	3010	3010	3110	3170
Width	1030	1330	1330	1610
Height	1630	1830	1830	2230
Dim. process air in	890x660	1190x760	1190x760	1470x960
Dim. dry air out	890x660	1190x760	1190x760	1470x960
Dim. regeneration air in	570x660	570x760	570x760	850x960
Dim. wet air out (30 mm flange)	178x400	178x400	178x400	205x542

The table shows standard dimensions. Standard dimensions are not applicable to other configurations. Contact your DST representative for information.

TECHNICAL DATA				
	RF-81	RF-101	RF-102	RF-122
Nominal capacity ¹ (kg/h)	19	33	54	90
Dry air flow ² (m ³ /h)	3200	7000	9500	15600
External static pressure (Pa)	200	200	200	200
Wet air flow (m ³ /h)	950	1750	2750	4700
External static pressure (Pa)	200	200	200	200
Heater power ³ (kW)	24	42	66	112
Maximum electric consumption ³ (kW)	26	45	74	127
Supply fuse 3 x 400 V 50 Hz ³ (A)	50	80	125	200
Steam consumption ⁴ (g/s)	10	20	40	50
Gas consumption ⁵ (m ³ /hr)	2.2	3.9	6.2	10.5
Weight (kg)	850	1000	1100	1800

- Valid at 20°C 60%RH, for other conditions contact your DST representative for information.
- Air flow at density 1.2 kg/m³
- Standard units equipped with electrical heater. Steam or gas as option.
- Steam 6 Bar(g)
- The gas has a calorific value of 37.5–43 MJ/m³

ROTOR OPTIONS*	
	SSCR-U – rotor for standard applications
	SSCR-H – bactericidal and hygienic
	SSCR-CI – 100% silicon free air
	SZCR – zeolite rotor for low dew points

* DST offers four unique rotors from Seibu Giken. SSCR-U rotors are fitted as standard to all DST dehumidifiers, other rotors are available as an option. See the separate rotor brochure for more information.