

## TECHNICAL DATA

	Dry air flow m <sup>3</sup> /h	Dry air condition* g/kg	Dry air available pressure Pa(s)	Dehumi- dification capacity kg/h*
RZ-81	2800	2.8	>200	44
RZ-101	4500	2.7	>200	71
RZ-102	7000	2.7	>200	110

\* At process air inlet 35 °C 15,8 g/kg and cooler 1 as a precooler with water in/out 6/12 °C

## COILS

RZ-81			
	Heater*	Cooler 1**	Cooler 2***
Capacity (kW)	28	40	28
Liquid flow (l/s)	0.35	1.6	1.1
Liquid pressure drop (kPa)	6	28	16
RZ-101			
	Heater*	Cooler 1**	Cooler 2***
Capacity (kW)	45	67	46
Liquid flow (l/s)	0.55	2.7	1.8
Liquid pressure drop (kPa)	11	16	20
RZ-102			
	Heater*	Cooler 1**	Cooler 2***
Capacity (kW)	70	100	71
Liquid flow (l/s)	0.86	4	2.8
Liquid pressure drop (kPa)	4	21	24

\* 80/60 °C

\*\* 6/12 °C, 0 % freezing additive. Cooler 1 as precooler.

\*\*\* 6/12 °C, 0 % freezing additive. Cooler 2 as postcooler.

Cooler 2 can also be placed as a precooler.

## ROTOR OPTIONS\*

	<b>SSCR-U</b> – rotor for standard applications
	<b>SSCR-H</b> – a bactericidal and hygienic rotor
	<b>SSCR-CI</b> – 100% silicon free rotor
	<b>SZCR</b> – at low dew points

\* DST offers four unique rotors from Seibu Giken Co Ltd. 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.



Seibu Giken DST  
is certified according  
to ISO 9001.

## RZ FLEX DEHUMIDIFIERS

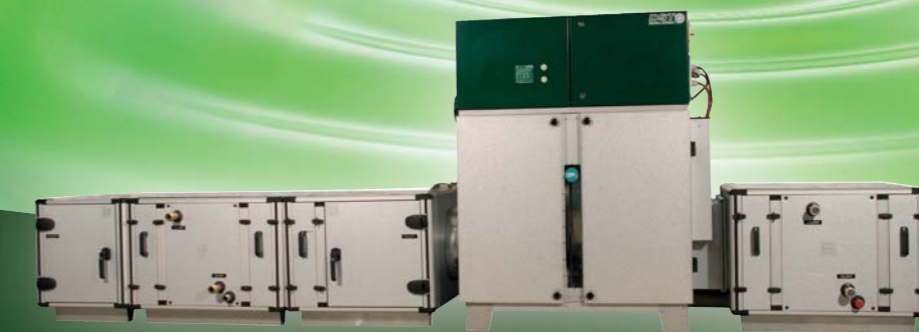
SEIBU GIKEN DST

Dehumidifying capacity  
at 20 °C/60 % RH

14–50 kg/h

Dry air flow

2800–7000 m<sup>3</sup>/h



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# RZ Flex, choose components according to your project!

## Simpler planning with one supplier

RZ Flex consists of a modular system integrated with an RZ standard dehumidifier. Choose components such as precooling and postcooling, or integral temperature and moisture control. DST supplies a complete unit, which results in simpler planning, faster commissioning and unequivocal functional responsibility compared with systems built up via several different suppliers. All control functions are tested at the factory prior to delivery.

Low energy consumption is guaranteed thanks to the "Recusorb" dehumidification principle with integral heat recovery. With RZ Flex, the combination of precooling and sorption dehumidification is optimal for every project. For applications with stringent hygiene requirements, we recommend a solution using dry cooling.

## Module structure

The modules are made up using an aluminium framework. The panels are made from aluminium zinc (stainless steel is available as an option) with 50 mm double wall insulation, which also results in high levels of noise attenuation. All functional elements (see the example below) can be placed either before or after the dehumidifier.

## Filter

RZ Flex comes with integral bag filters, class F7, with centre latches fitted as standard or F9 as an optional extra.

## Heating and cooling coils

Cooling coils are available with various outputs. Inspection hatches are placed before and after the coils. The fins of the cooling coil are treated with hydro fin, which prevents water carry-over and reduces the pressure drop.

## Fans

A directly driven process fan with rear-facing blades requires minimal servicing and ensures low energy consumption. The chamber fan can be provided with a frequency converter (optional). The fan is mounted on runners. At low dewpoints, the fan can be placed before the dehumidifier as a compressive fan. The impeller is powder-painted.

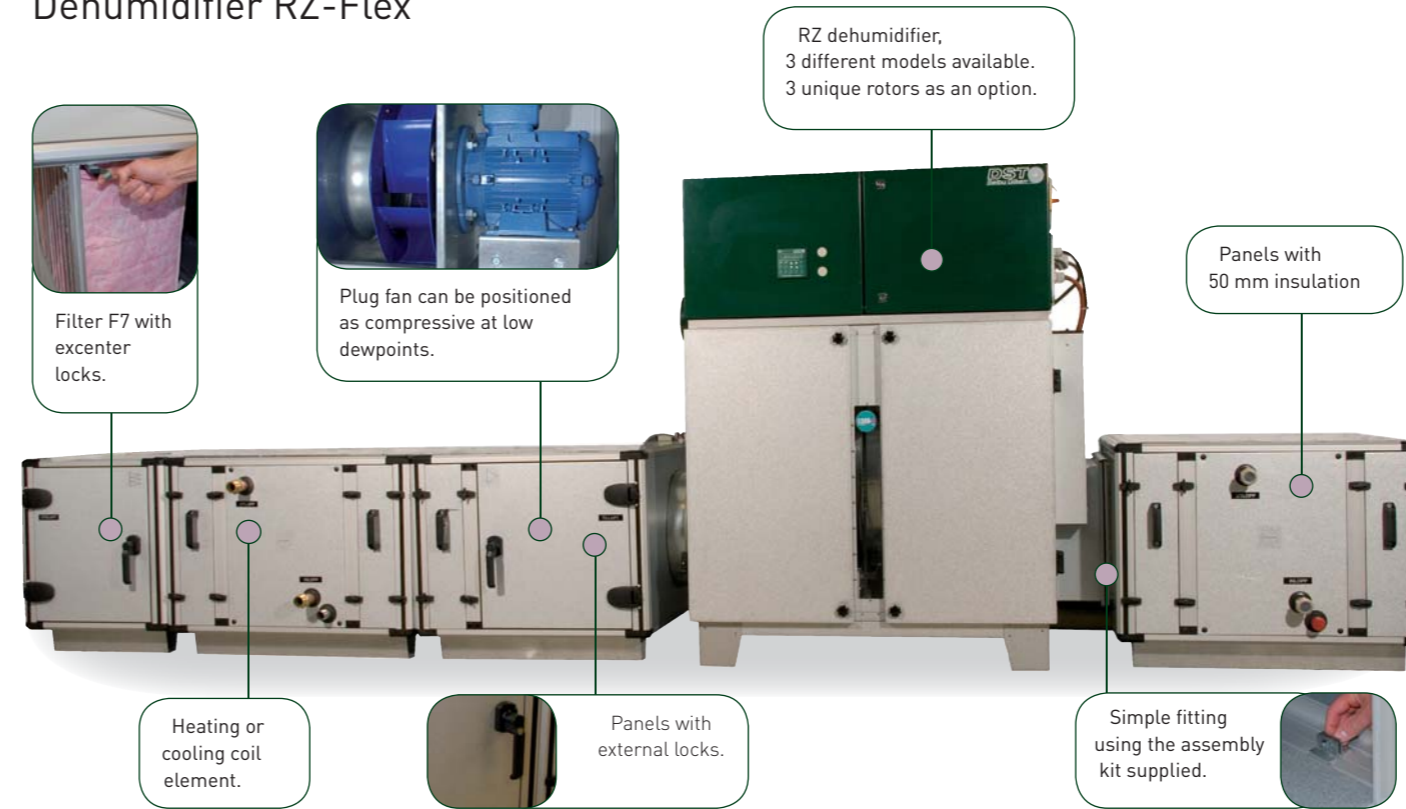
## Controls

Temperature and moisture control are available as optional extras, and are programmed and tested at the factory for faster startup in site. Sensors and controllers are supplied with cables for simple connection to the central electric unit.

## Washable, highly efficient rotor

All DST dehumidifiers come with the SSCR-U rotor fitted as standard. The SSCR-U has a high dehumidification capacity and long service life, and it is washable and non-flammable. Another three rotors with unique properties are available as optional extras. (See the tab on the right and the DST rotor folder.)

## Dehumidifier RZ-Flex



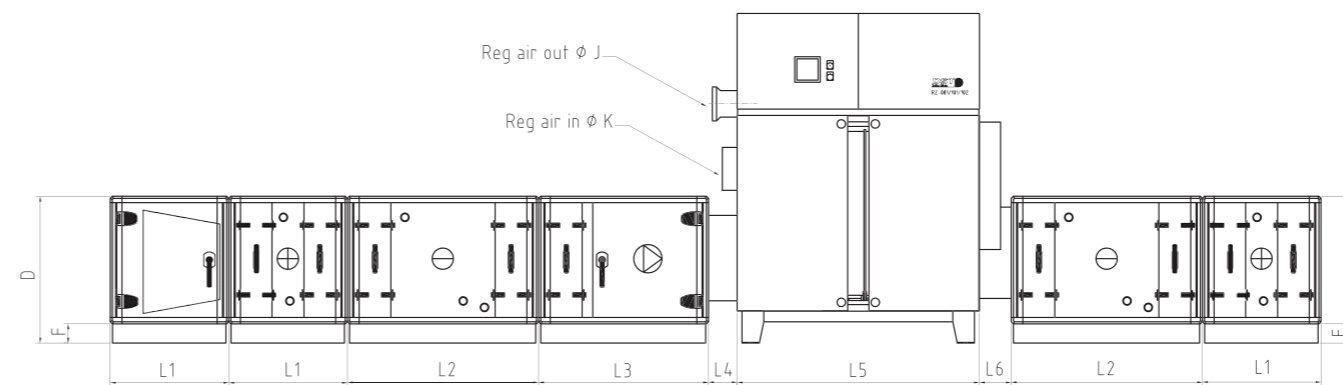
## APPLICATIONS

RZ Flex has been developed for applications requiring complete solutions for dehumidification, with moisture and temperature control. These units can also be fitted with special rotors for environments with special requirements; during pharmaceutical manufacturing, in the plastics industry, the manufacture of food and confectionery, the automotive industry, and others.



## The drawing shows a configuration with all optional components

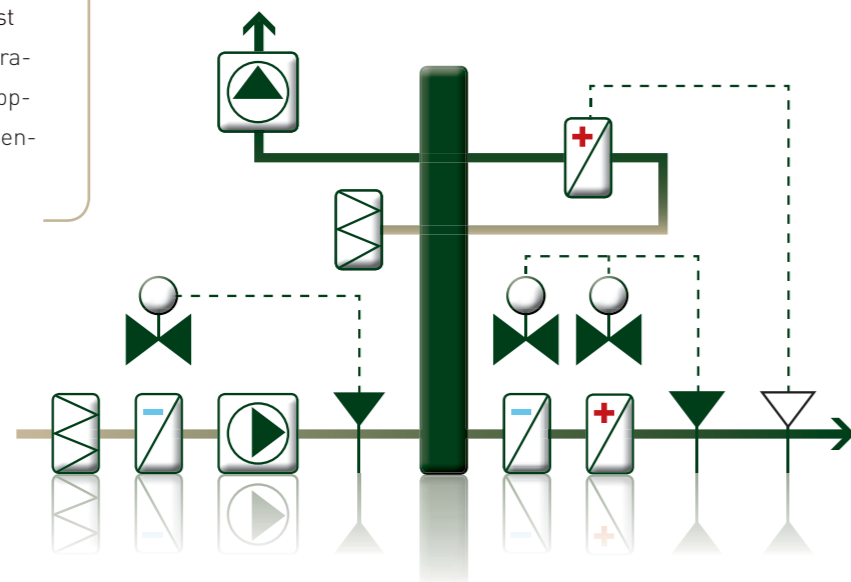
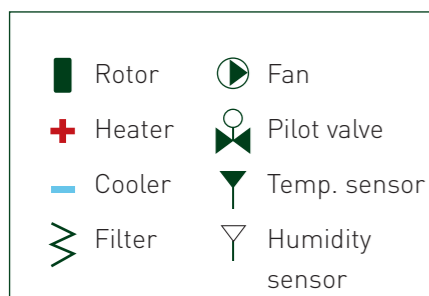
(Not the same as shown in the photo above)



DIMENSIONS (MM)									
	A	B	C	D	E	F	G	H	I
RZ-81	800	500	960	691	1550	90	820	1130	370
RZ-101	1100	600	1255	813	1850	90	1017	1445	510
RZ-102	1100	700	1255	990	1940	90	1080	1517	600
	J	K	L1	L2	L3	L4	L5	L6	
RZ-81	160	200	558	900	800	135	1140	150	
RZ-101	250	315	558	900	900	135	1140	135	
RZ-102	315	400	558	900	1000	881	1240	150	

## Example of configuration with options

DST provides pre treatment-, and post treatment coils complete with temperature control, and all from a single supplier. Contact your nearest DST representative for more information.



## RZ-Flex

