

# Dehumidifier Consorb **CZ-82, -102, -102L, -104**

**DST** 

*Dehumidifying capacity at 20°C / 60%RH*

**22 - 65 kg/h**

*Dry air flow*

**3200 - 8000 m<sup>3</sup>/h**

- Washable rotor
- Long lifetime
- No desiccant carry-over
- Suitable for high ambient water contents
- Excellent deep drying ability
- Option:
  - Hot-water coil for regeneration air pre-heating
  - Process fan equipped with frequency converter

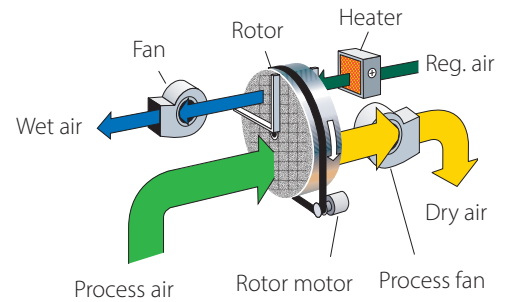


*Section of a dehumidifier rotor from Seibu Giken. The high number of channels means that moisture is adsorbed with extra efficiency.*

*World leaders in dehumidification.*

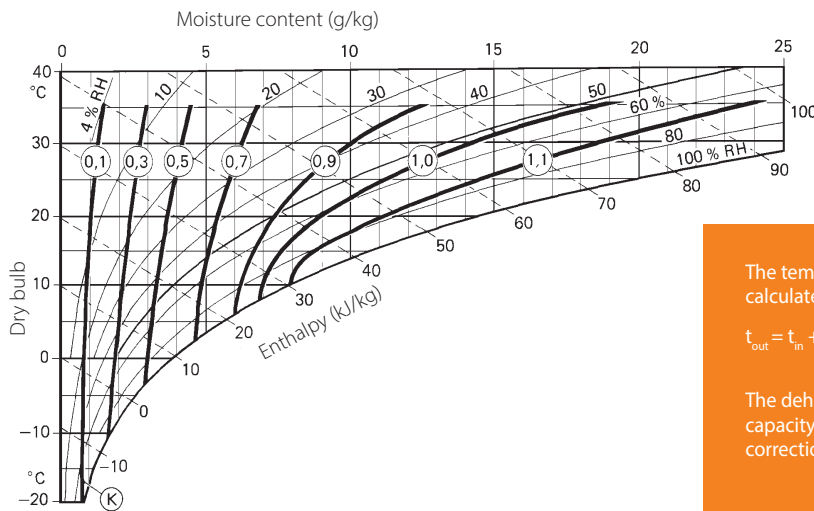
# TECHNICAL DATA

Dehumidifier model	CZ-82	CZ-102	CZ-102L	CZ-104
Nominal capacity <sup>1</sup> (kg/h)	22	36	50	65
Dry air flow <sup>2</sup> (m <sup>3</sup> /h)	3200	5200	7200	8000
at static pressure (Pa)	200	200	200	200
Wet air flow <sup>2</sup> (m <sup>3</sup> /h)	850	1400	2000	2500
at static pressure (Pa)	200	200	200	200
Heater power <sup>3</sup> (kW)	30	50	74	95
Max. electric consumption (kW)	34.1	54.5	81.7	106.5
Supply fuse 3x400V 50Hz (A)	63	100	160	200
Weight (kg)	300	380	400	560



- <sup>1</sup> Valid for inlet conditions 20°C/60%RH. For other inlet conditions the capacity can be calculated by using the diagram shown below.
- <sup>2</sup> Volume flow for density 1.20 kg/m<sup>3</sup>.
- <sup>3</sup> Electric reactivation heater is standard. Steam and hot water is optional.

# CORRECTION DIAGRAM



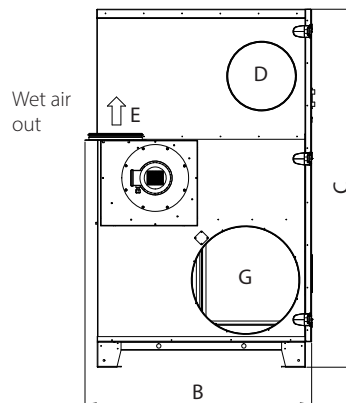
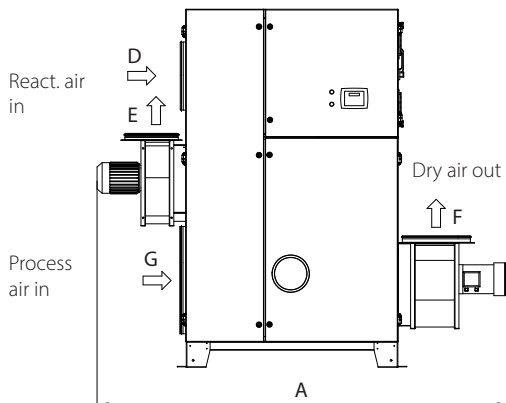
The temperature of the dry air at nominal air flows is calculated by:

$$t_{out} = t_{in} + (K) \times 14 + 5$$

The dehumidifying capacity is estimated as the nominal capacity from above, multiplied by factor (K) from the correction diagram.

# DIMENSIONS

Subject to change without notice. Download installation drawing at [www.dst-sg.com](http://www.dst-sg.com)



CZ	82	102	102L	104
A	2370	2425	2540	2915
B	1065	1265	1260	1255
C	1905	2105	2105	2105
D	Ø250	Ø400	Ø400	Ø400
E	Ø160	Ø315	Ø315	Ø315
F	Ø400	Ø400	400x940	350x840
G	Ø400	Ø630	Ø630	Ø630

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