Dehumidifier Consorb
CZ 82, 102 HW

Dehumidifying capacity at 20°C / 60%RH
19.0 - 50.0 kg/h
Dry air flow
3,200 - 7,200 m³/h

- Washable rotor
- No desiccant carry-over
- Suitable for high ambient water contents
- Long lifetime
- Hot water regeneration

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**

<table>
<thead>
<tr>
<th>Dehumidifier model</th>
<th>CZ-82HW</th>
<th>CZ-102HW</th>
<th>CZ-82HWR 60-40</th>
<th>CZ-102HWR 60-40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity¹ (kg/h)</td>
<td>19</td>
<td>36</td>
<td>23</td>
<td>50</td>
</tr>
<tr>
<td>Dry air flow² (m³/h)</td>
<td>3200</td>
<td>7200</td>
<td>3200</td>
<td>7200</td>
</tr>
<tr>
<td>Static pressure (Pa)</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Wet air flow³ (m³/h)</td>
<td>1600</td>
<td>3000</td>
<td>1600</td>
<td>3000</td>
</tr>
<tr>
<td>Static pressure (Pa)</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Electric heater power (kW)</td>
<td>0</td>
<td>0</td>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>Total power (kW)</td>
<td>4.5</td>
<td>9.5</td>
<td>34.5</td>
<td>69.5</td>
</tr>
<tr>
<td>Supply fuse 3x400V 50Hz (A)</td>
<td>16</td>
<td>25</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>Hot water heater 80°C/60°C (kW)</td>
<td>30</td>
<td>56</td>
<td>30</td>
<td>56</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>600</td>
<td>800</td>
<td>850</td>
<td>900</td>
</tr>
</tbody>
</table>

¹ Valid for inlet conditions 20°C/60%RH. For other inlet conditions the capacity can be calculated by using the diagram shown below.

² Volume flow for density 1.20 kg/m³.

**CORRECTION DIAGRAM**

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

\[
HW: t_{\text{out}} = t_{\text{in}} + (K \times 14) + 5
\]

\[
HWR: t_{\text{out}} = t_{\text{in}} + (K \times 18) + 5
\]

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

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