Dehumidifier Recusorb

RL 61, 61 ICE, 61L, 61L ICE

Dehumidifying capacity at 20°C / 60%RH

7.5 - 11.5 kg/h
Dry air flow

1,300 - 2,100m³/h

- Excellent performance in all climates
- Built-in heat recovery
- Duct connection
- F7 filter
- Stainless steel chassis and panels
- Highly efficient D-MAX rotor
- Options:
  - Frequency inverter to control airflows
  - Filter guard
  - Linear capacity control
  - Panel mounted humidity / dew point controller
  - Insulated inlets to help prevent condensation

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

<table>
<thead>
<tr>
<th>Dehumidifier model</th>
<th>RL-61</th>
<th>RL-61 ICE</th>
<th>RL-61L</th>
<th>RL-61L ICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity* (kg/h)</td>
<td>7.5</td>
<td>8.0</td>
<td>11.0</td>
<td>11.5</td>
</tr>
<tr>
<td>Dry air flow* (m³/h)</td>
<td>1300</td>
<td>1600</td>
<td>1800</td>
<td>2100</td>
</tr>
<tr>
<td>Static pressure at disposal (Pa)</td>
<td>200</td>
<td>400</td>
<td>200</td>
<td>300</td>
</tr>
<tr>
<td>Wet air flow* (m³/h)</td>
<td>280</td>
<td>280</td>
<td>420</td>
<td>420</td>
</tr>
<tr>
<td>Static pressure at disposal (Pa)</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Heater power (kW)</td>
<td>9</td>
<td>9</td>
<td>13.5</td>
<td>13.5</td>
</tr>
<tr>
<td>Total power (kW)</td>
<td>10.2</td>
<td>10.9</td>
<td>15.6</td>
<td>16.3</td>
</tr>
<tr>
<td>Supply fuse 3 x 400V 50Hz (A)</td>
<td>20</td>
<td>20</td>
<td>25</td>
<td>32</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>130</td>
<td>130</td>
<td>132</td>
<td>132</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 correction diagrams 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: (Where C is the capacity in kg/h from the correction diagram).

- **RL-61:**  \( T_{\text{out}} = T_{\text{in}} + C \times 1.6 + 3 \)
- **RL-61 ICE:**  \( T_{\text{out}} = T_{\text{in}} + C \times 1.3 + 3 \)
- **RL-61L:**  \( T_{\text{out}} = T_{\text{in}} + C \times 1.2 + 3 \)
- **RL-61L ICE:**  \( T_{\text{out}} = T_{\text{in}} + C + 3 \)

DIMENSIONS

Subject to change without notice. Download installation drawing at www.dst-sg.com

Updated 18.12