### TECHNICAL DATA Brine Operation

**WEIDER – Heat Pumps**

#### Heat Pump Type

<table>
<thead>
<tr>
<th>Heat Pump Type</th>
<th>HT60</th>
<th>HT90</th>
<th>HT140</th>
<th>HT330</th>
<th>HT350</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brine Operation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With a feed temperature of 0 °C and heating flow temperature of 35, 55 and 65 °C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>°C</td>
<td>35</td>
<td>55</td>
<td>65</td>
<td>35</td>
<td>55</td>
</tr>
<tr>
<td>Heating output kWh</td>
<td>5.3</td>
<td>4.8</td>
<td>4.7</td>
<td>7.8</td>
<td>7.2</td>
</tr>
<tr>
<td>Electric power consumption kWh</td>
<td>1.1</td>
<td>1.6</td>
<td>1.9</td>
<td>1.7</td>
<td>2.3</td>
</tr>
<tr>
<td>Coefficient of performance (ΔT 10 K)</td>
<td>4.7</td>
<td>3.1</td>
<td>2.5</td>
<td>4.7</td>
<td>3.1</td>
</tr>
<tr>
<td>Coefficient of performance (ΔT 5 K)</td>
<td>4.2</td>
<td>2.8</td>
<td>2.2</td>
<td>4.2</td>
<td>2.8</td>
</tr>
</tbody>
</table>

| Heat Exchanger: material no. 1.4401, V4A steel made of chromium-nickel-molybdenum |      |      |       |       |       |
| Heat exchanger: Type designation: egw for groundwater and eso for brine |      |      |       |       |       |
| Groundwater heat pumps with nickel brazed heat exchanger |      |      |       |       |       |
| HT 330 and HT 350 only available with copper brazed heat exchanger – in case of groundwater operation a secondary heat loop is necessary |      |      |       |       |       |
| Electrical protection system: IP41 |      |      |       |       |       |
| Subject to alterations, Date 12/2010 Version 4.4 WT08 |      |      |       |       |       |

### Diagrams

- Depth 520 mm View of rear panel
  - 1 = Heating flow
  - 2 = Heating return
  - 3 = Cold water discharge
  - 4 = Cold water supply
  - 5 = Electrical connections
  - All 1” except HT 150 6/4”

- Depth 750 mm View of rear panel
  - 1 = Heating flow
  - 2 = Heating return
  - 3 = Cold water discharge
  - 4 = Cold water supply
  - 5 = Electrical connections
  - All 6/4”

- 1 SW 500 + 1 HT 350 module or 1 SW 600 + 1 HT 350 module
## TECHNICAL DATA Groundwater Operation

### WEIDER – Heat Pumps

### GROUNDWATER OPERATION

with a feed temperature of 10 °C and heating flow temperature of 35, 55 and 65 °C

<table>
<thead>
<tr>
<th>HEAT PUMP TYPE</th>
<th>HT80</th>
<th>HT100</th>
<th>HT150</th>
<th>HT330</th>
<th>HT350</th>
</tr>
</thead>
<tbody>
<tr>
<td>°C 35</td>
<td>10,3</td>
<td>14,4</td>
<td>14,1</td>
<td>33</td>
<td>30</td>
</tr>
<tr>
<td>°C 55</td>
<td>9,7</td>
<td>14,4</td>
<td>14,1</td>
<td>29,2</td>
<td>29,2</td>
</tr>
<tr>
<td>°C 65</td>
<td>9,2</td>
<td>14,1</td>
<td>14,1</td>
<td>27,4</td>
<td>27,4</td>
</tr>
</tbody>
</table>

- **Heating output (kW)**: 8.5, 7.9, 7.6, 10.3, 9.7, 9.2, 15.4, 14.4, 14.1, 33, 29.2, 27.4, 40, 35, 34
- **Electric power consumption (kW)**: 1.3, 2.1, 2.6, 1.7, 2.6, 3.2, 2.5, 3.1, 4.6, 5.6, 7.8, 9.1, 6.8, 9.7, 10.8
- **Coefficient of performance (ΔT 10 K)**: 6.2, 3.7, 2.8, 6.2, 3.7, 2.9, 6.1, 3.6, 2.9, 5.9, 3.6, 3.0, 5.9, 3.6, 3.0
- **Coefficient of performance (ΔT 5 K)**: 5.7, 3.4, 2.5, 5.7, 3.4, 2.5, 5.6, 3.3, 2.5, 5.5, 3.3, 2.5
- **Volume flow rate – groundwater (m³/h)**: 1.8, 2.4, 2.4, 3.3, 7.5, 10
- **Pressure drop – evaporator (mbar)**: 100, 110, 150, 150, 150
- **Temperature range – groundwater (°C)**: +7 to +20
- **Volume flow rate - heating water (m³/h)**: 0.7 to 1.5, 0.9 to 2.6, 2.8 to 5.7, 2.8 to 5.7, 3.4 to 6.9
- **Pressure drop - heating water (mbar)**: 10 to 40, 10 to 40, 40 to 90, 30 to 120, 30 to 120
- **Temperature difference Δt (°C)**: 5 to 10
- **Feed temperature (°C)**: 25 to 70
- **Mains connection (V)**: 2 x 230/400
- **Operating current max. (A)**: 6.5, 10, 11, 25, 32
- **Electric power consumption max. (kW)**: 3.5, 4.5, 5.9, 11.4, 14
- **Starting current (lasts for 2 periods) (A)**: 28, 34, 50, 167, 198
- **Pre-fuse, external (A)**: 3x16, 3x16, 3x16, 3x13/3x32, 3x13/3x32
- **Approx. weight (complete) (kg)**: 102, 110, 116, 400, 450
- **Refrigerant R407C (kg)**: 2.1, 2.1, 2.1, 7.0, 7.0

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