Objective
This case study tests the heating power of JULABO PRESTO® A40 with a 5 liters glass reactor. The A40 is connected to the reactor via two 2.0 m metal tubings. The A40 is programmed to heat up from +100 °C to +150 °C.

Test Conditions
JULABO unit: JULABO PRESTO® A40
Cooling power:
- +20 °C 1.2 kW
- 0 °C 0.9 kW
- -20 °C 0.6 kW
Heating capacity: 2.7 kW
Band limit: No
Flow pressure: 0.40 bar
Bath fluid: JULABO Thermal HL40
Reactor: 5 liters glass reactor (Rettberg)
filled with 5 liter JULABO Thermal HL40
Control: External (ICC)

Test Results
See chart on back page: The A40 heating process from +100 °C to +150 °C in 35min without overshoot.

Environment
Room temperature: +20 °C
Humidity: 45 %
Voltage: 230 V / 50 Hz

Tip
You can also use the robust Pt100 with PTFE coating.

More tips on back page >>
**Tip**

Make use of the option to regulate the pump pressure. You can define the desired pressure in the PRESTO® settings.

**Tip**

The Ethernet interface permits full access to all operational functions of the PRESTO®.

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**Measured with EasyTEMP Professional**

<table>
<thead>
<tr>
<th>°C</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>+100</td>
<td>0</td>
</tr>
<tr>
<td>+120</td>
<td>7</td>
</tr>
<tr>
<td>+140</td>
<td>25</td>
</tr>
<tr>
<td>+160</td>
<td>35</td>
</tr>
</tbody>
</table>

**Heat-up time 35 min**

- **Setpoint**
- **Temperature in reactor’s interior**
- **Temperature in reactor’s jacket**

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