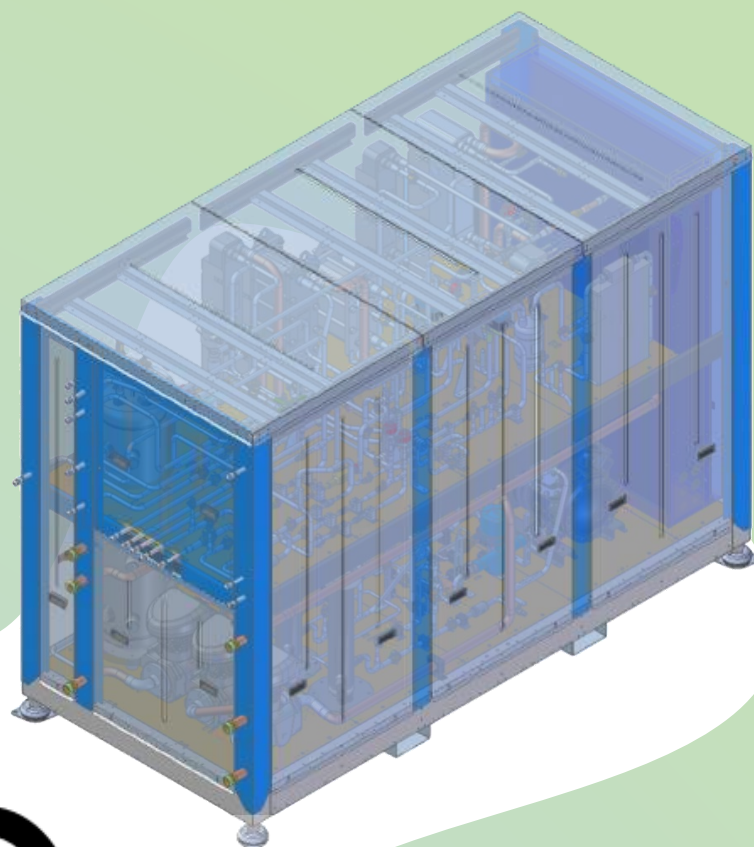


High Temperature & Expander Tests

P_{in}		110 bar (max)
P_{out}		20 bar (min)
T_{in}		120 °C (max)
m_{flow}		0,3 kg/ s (max)



CO₂ HUB

A modified CO₂-based industrial refrigeration unit with multiple bleeds for providing a **conditioned CO₂** flow **for components testing**

Trans-critical Components Tests

P_{in}		110 bar (max)
T_{in}		10-40 °C
m_{flow}		0,3 kg/s (max)

Low Temperature Tests

P_{in}		10-50 bar
T_{in}		-30 °C (min)
m_{flow}		0,3 kg/s (max)

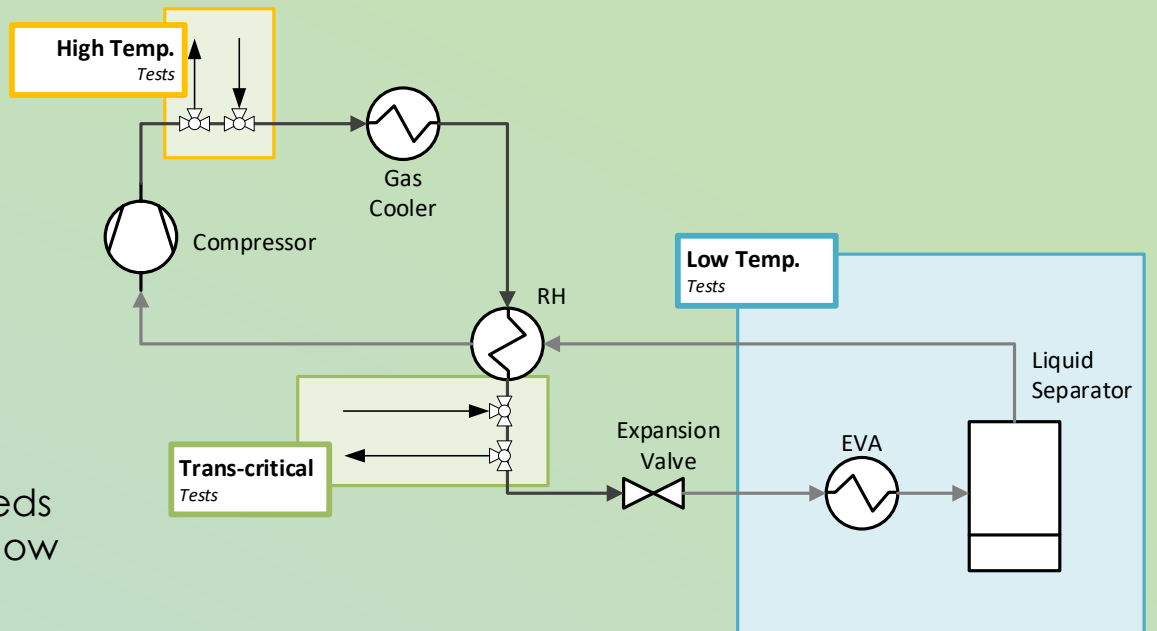


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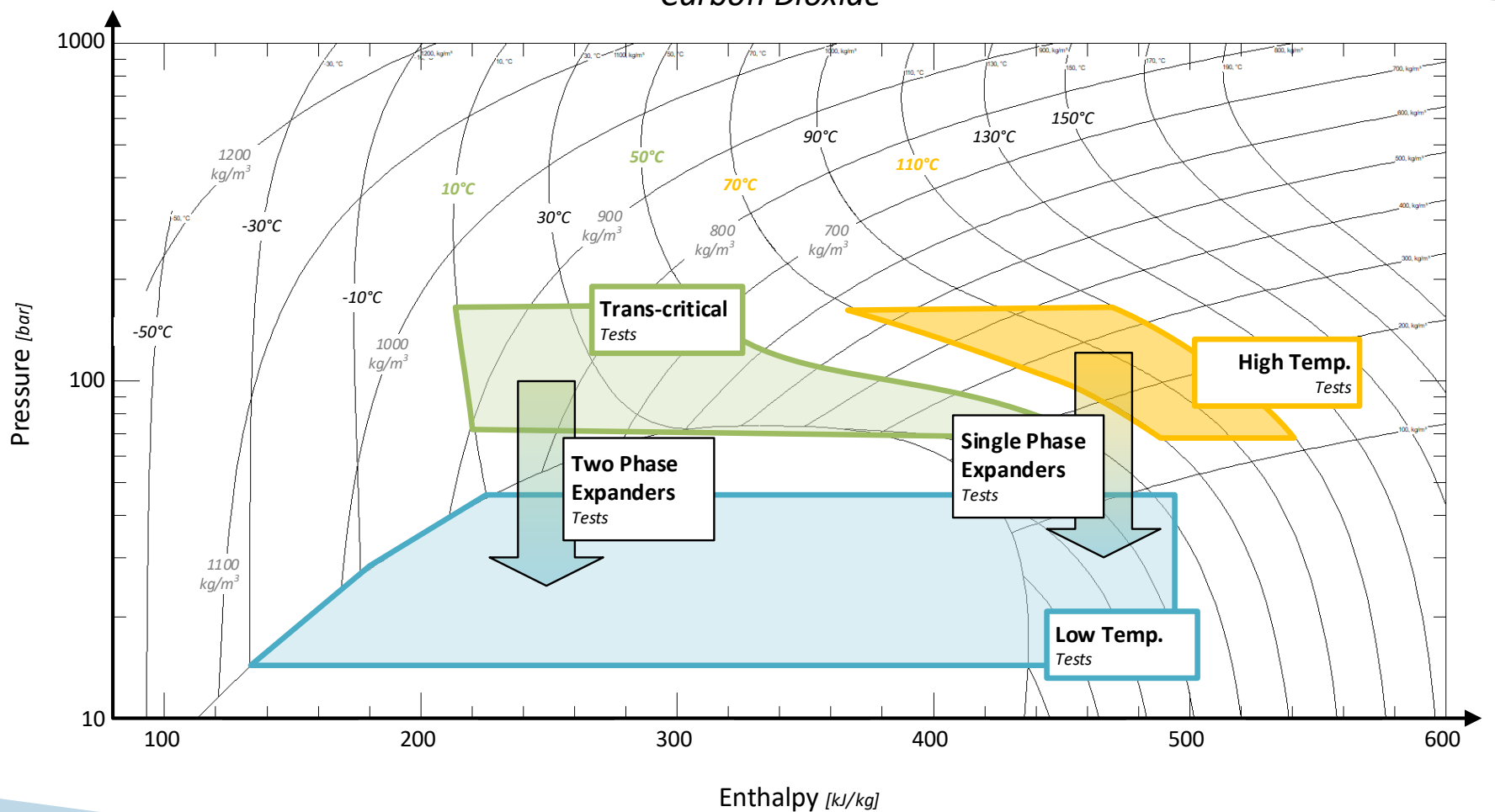
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CO₂ HUB

A modified CO₂-based industrial refrigeration unit with multiple bleeds for providing a **conditioned CO₂** flow for components testing



Carbon Dioxide



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A modified CO₂-based industrial refrigeration unit with multiple bleeds for providing a **conditioned CO₂** flow for components testing

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Geothermal Test Sections

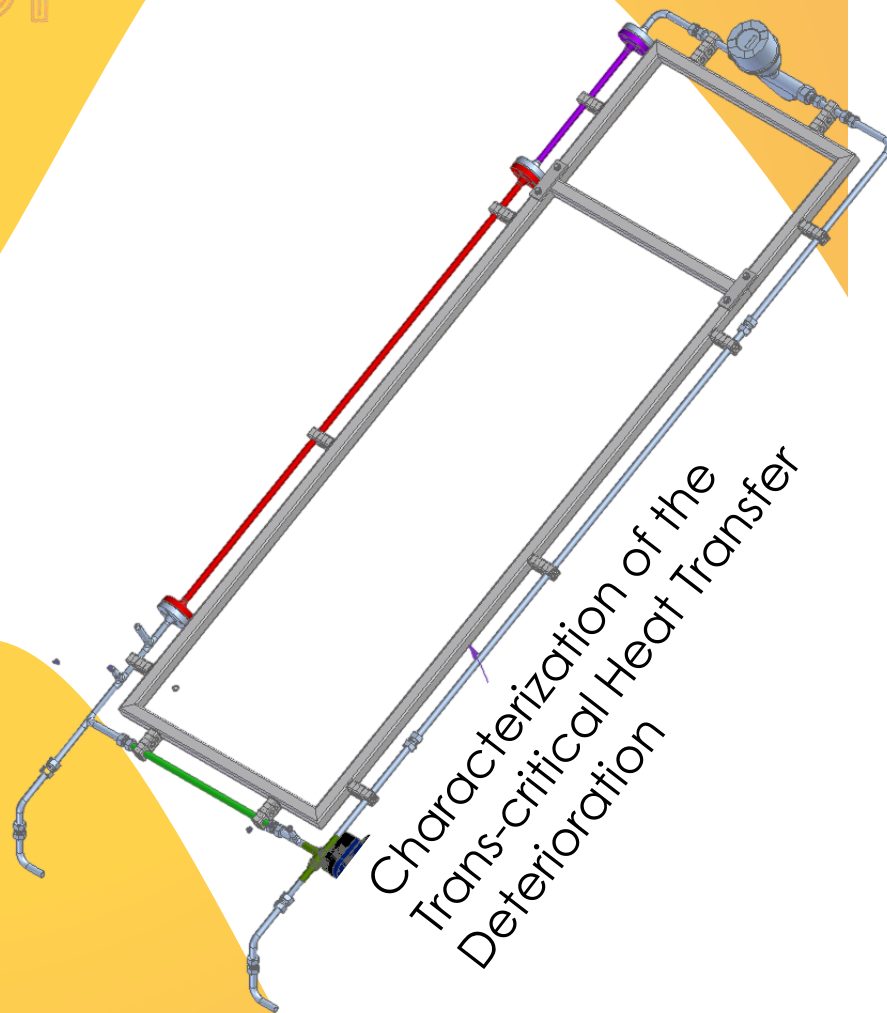
A multi-purpose geothermal-based test section have already been connected to the refrigeration unit. The test section has to possible configuration: one for **the study of the natural thermosyphon effect**, one for analyzing the **trans-critical heat transfer deterioration at different angles**. It relies on a 10kW/1kA Adjustable DC power supply for heating up the red tube directly trough resistive heating

 HOCLOOP

Stay tuned
for the first
results!



Demonstration of the
Thermosyphon Effect



Characterization of the
Trans-critical Heat Transfer
Deterioration



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