Case Study

JULABO ED-39 and FT402

Determining the lowest working

temperature when using an FT402

immersion cooler with an ED-39 heating bath circulator

The Objective

The test is carried out to determine the lowest temperature that could be achieved when using an FT402 for cooling an ED-39

Setup

For the test an ED-39 heating bath circulator (filling volume: 39 liters) is filled with Thermal G bath fluid. The FT402 immersion cooler is used as cooling device; the probe is immersed at the left side of the bridge. The temperature inside the bath is registered with an LC6 laboratory controller connected to a laptop.

Test Conditions

Instruments

Mains voltage Ambient temperature Bath fluid

ED-39 heating bath circulator FT402 immersion cooler 230 Volts/ 50 Hz 20°C (room temperature) Thermal G



Cool-down curve

Result

Under the test conditions above, a value of -9.9 °C is achieved as lowest temperature.



probe for cooling the bath

39 liters bath with immersion

Case Study

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Setup with heating bath circulator and immersion cooler



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