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

Case Study 03-2007 Page 1 from 1



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

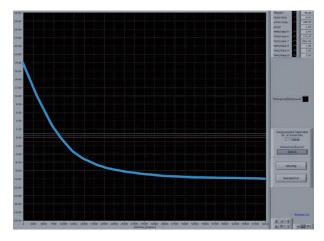
ED-39 heating bath circulator

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.



Setup with heating bath circulator and immersion cooler 39 liters bath with immersion probe for cooling the bath



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