

Piccolo 280 OLÉ

The temperature stability evaluation in case of using stainless steel sample chamber for measurement by viscometers

Requirement

This case study demonstrates the stability of temperature and ramp speed performance of a Piccolo 280 OLÉ connected to a stainless steel adapter for viscometers.

Method

The Piccolo and the chamber are connected using two 1.0-meter insulated silicone hoses. The chamber contains 16ml of water which substitute viscometry sample and the viscometer spindle is immersed in it.

Setup details

Unit

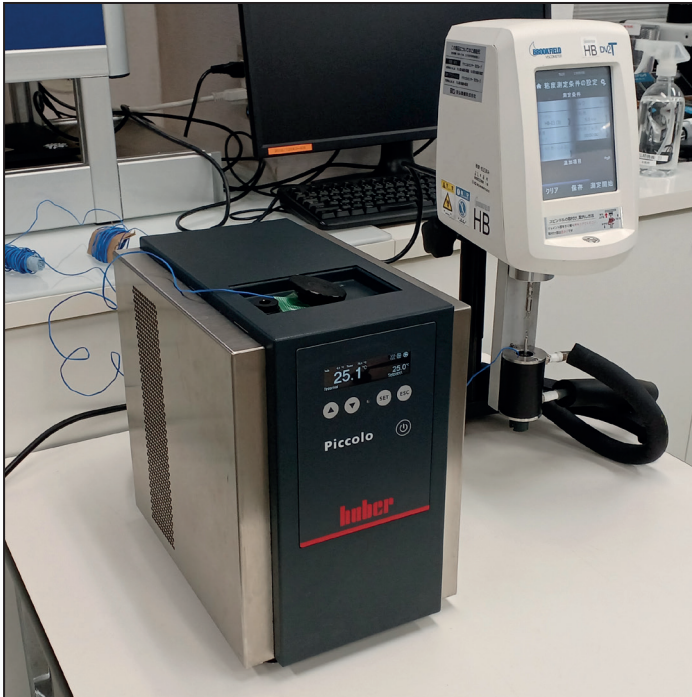
Temperature range: +4°C...+70°C
 Cooling power: 0.28 kW @ +20°C
 Heating power: 0.62 kW @ +20°C
 Hoses: 2x1.0 m; ID 6.0 mm silicone

Stainless steel chamber

Sample content: 16 ml water

Test conditions

HTF: Water
 Room temperature : 24°C



Results

1. Performance and stability

Temperature stability was +/-0.5 K at the set points. Thanks to the Peltier module, Piccolo 280 OLE shows rapid cooling and heating performance.

