



Rheology Solutions

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Regards from the Team at Rheology Solutions.

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Temperature control unit Peltier cylinder - A new dimension in performance, ease of use and flexibility

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Key-words

- Peltier temperature control unit
- Measuring geometries: coaxial cylinders, plates and cones
- Thermo Scientific HAAKE MARS
- Thermo Scientific HAAKE RheoStress 6000

A new Peltier temperature control unit for coaxial cylinder geometries as well as plates and cones has been developed to complement the series of temperature control modules for the Thermo Scientific HAAKE MARS and HAAKE RheoStress 6000 (and its predecessor models).

The module fulfills the highest requirements with regards to performance as well as handling. The module can be adapted to the rheometer within seconds thanks to quick fit couplings, self-centering and auto-recognition.

This Peltier temperature control unit is suitable for fast temperature changes with temperature gradients up to 40 K/min in a temperature range between -40 up to 200 °C. For temperature different to room temperature using a sample hood is recommended in order to ensure an homogeneous temperature distribution within the measuring gap and avoiding condensation or ice formation at lower temperatures.

The Peltier cylinder is optimized for an easy insert of the measuring geometry as well as its quick and fast removal for cleaning. A wide range of coaxial cylinder geometries are available such as geometries acc. to DIN 53019 (also as disposable version), Mooney Ewart, double gap cylinder or vane rotors for relative measurements.

Plates and cones extend the application range of the Peltier temperature control unit. An insert with optimized mass and material (Ampcoloy) is available in the function of a lower measuring plate, ensuring fast heat transfer in a temperature range between -20 °C up to 180 °C.



Fig.1: Peltier temperature module for cylinders (left) and with built-in insert for plate and cone geometries (right), insert as well as plate and cylinder geometries

Order information

- 222-1955 Peltier temperature module
TM-PE-C for HAAKE
MARS III
- 222-1963 Peltier temperature module
TM-PE-C for HAAKE
RheoStress 6000*
- 222-1991 UTMC controller box for
usage of a Peltier and elec-
trical temperature module
in combination with
HAAKE RheoStress 6000*
and HAAKE MARS II
- 222-2010 Insert for TM-PE-C for
plate and cone measuring
geometries

* and identically designed previous models such as HAAKE RheoStress 600, 300, 150 etc.

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