



## **Rheology Solutions**

*Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.*

*We hope the information you are seeking is contained within this file.  
If you have any questions, or require further information please contact us.  
We look forward to being of further service.*

*Regards from the Team at Rheology Solutions.*

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## Accessory for Thermo Scientific rheometer

### Rheological investigations on small sample volumes: Liquid temperature control holder for microtiter plate

For rheological measurements within the wells of a microtiter plate a holder for the Thermo Scientific HAAKE MARS has been developed (fig. 1).

This holder is mounted on the lower triangular holder of the HAAKE MARS rheometer instead of a "standard" temperature control unit. It is designed as an open water bath with connectors for a circulator. The bottom of the bath is equipped with a grid for manually positioning the adapter plate together with the microtiter plate (fig. 2). Thanks to this grid every single well of the micro-titer plate can be centered relative to the rheometer drive motor axis.

Using a suitable measuring geometry (with a diameter smaller than 20 mm) rheological measurements on a sample in any well can be performed.

As a standard, an adapter plate for a microtiter plate with 12 wells, each with 20 mm diameter and 4 ml sample volume, is available. Adapter plates for other microtiter plates are available on request.

This new equipment is suitable for high throughput tests and measurements on very expensive samples and/or volume limited materials. Since the microtiter plate can be closed by a cover after a series of measurements and stored for further tests it can also be used for running long term experiments.

Typical applications are measurements on cosmetic and pharmaceutical samples as well as biomaterials.

#### Key words

- Thermo Scientific HAAKE MARS
- Liquid temperature control unit
- Microtiter plate
- Small sample volumine
- Long term experiments

#### Order Information:

603-0283 Holder and temperature control unit for a microtiter plate, for HAAKE MARS, made out of stainless steel

Required accessories: suitable upper measuring geometry, e.g.

222-0586 Plate PP20 Ti (D=20 mm, titanium)

or

222-1326 FL 16, 4-blade vane rotor (D=16 mm) with

222-1276 Adapter coupling for FL vane rotors

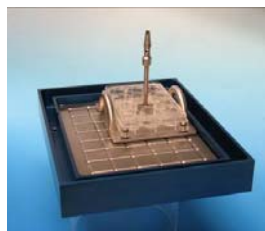


Fig. 1

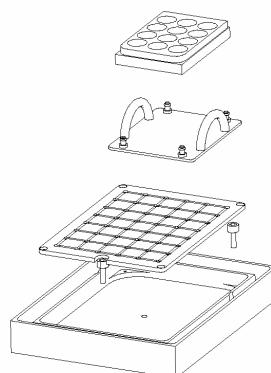


Fig. 2

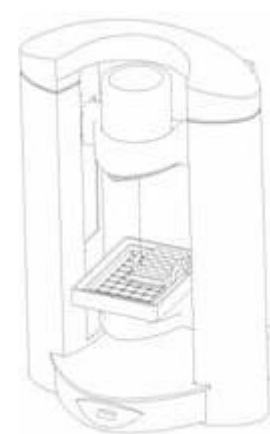


Fig. 1: Holder for microtiter plate with vane rotor FI16

Fig. 2: Exploded view of the holder (left) and the HAAKE MARS with mounted holder (right)

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