

# Reacti-Therm

## Sample Derivatization System

This unique product combines heating, stirring and evaporation with unmatched convenience and versatility. The system is comprised of a Thermo Scientific™ Reacti-Therm™ heating/stirring module (uniform dry heat to the sample) coupled with the Thermo Scientific™ Reacti-Vap™ evaporator (simultaneous or separate delivery of pressurized gas) to provide a complete solution for derivatization or other small scale reactions.

### Reacti-Therm Tips & Tricks

The Reacti-Therm temperature is set by turning to heat knob until the desired temperature appears in the LED display

#### Tip 1

The displayed value will continue to flash until the Reacti-Block temperature approaches the set temperature. Allow 30-60 minutes to reach the set temperature, then a further 15 minutes for the temperature to stabilise



Reacti-Therm units are available in single and triple block configurations to hold 1 or 3 Reacti-Blocks respectively.

#### Tip 2

If using the triple block version, the unit must be filled with three Reacti-Blocks in order to obtain acceptable heating performance



Reacti-Therm units are available with heating only and heating / stirring functions

#### Tip 3

Select the heating / stirring functions if working with samples that are viscous or sticky in nature. Here, a magnetic stirrer bar needs to be inserted into the vial



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A more accurate and responsive control of the heating function of the Reacti-Therm can be achieved

#### Tip 4

Use a Remote Temperature Probe in conjunction with a standard thermometer

The maximum pressure specification for a Reacti-Vap is 2PSi

#### Tip 5

Each Reacti-Vap has a test run for a maximum pressure, but not a maximum flow rate. Reacti-Vaps are pressure rated to a maximum of 2PSI. There is a pressure relief valve connected to the side of the Reacti-Vap that will “pop off” when the internal pressure reaches 2PSI, not allowing it to go any higher.

Reacti-Vap parts can easily be replaced

#### Tip 6

A range of replacement parts, such as needles, luer-lok® plugs and mounting brackets are available and can easily be changed by a user



Reacti-Therm Dry Block Sample Incubation Systems perform derivatization and other small-scale reactions reliably and with ease. It features Reacti-Therm Modules that utilize dry block heaters to provide uniform, stable heating with a temperature range of 10–200 °C. The Reacti-Therm Dry Block Sample Incubation System is available in four models—single block and triple block sizes with either heat-only or heat-and-stir capability. This versatile system is compatible with a range of interchangeable accessories and is ideal for performing heating, stirring, and evaporation functions on small samples for a range of applications.

See more at: [www.thermoscientific.com/chromatography](http://www.thermoscientific.com/chromatography)

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#### Technical Support

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