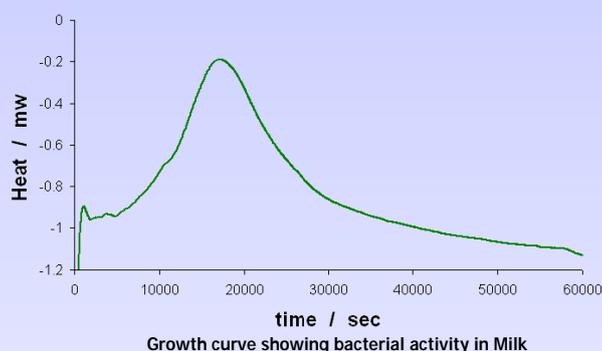


# Biology, education and specification



## Biological Applications

The  $\mu$ RC can be used for a wide range of bio-chemical applications including binding studies (of proteins, lipids and enzymes) cell growth, organism metabolism and denaturation. Several features of the  $\mu$ RC make it unique for study of these classes of materials including the incremental titration, temperature scanning, and stirring which, with the removable cells of the micro reaction calorimeter mean that if your experiment precipitates or forms a gel you can simply dispose of the vial and start the next experiment with a clean one.

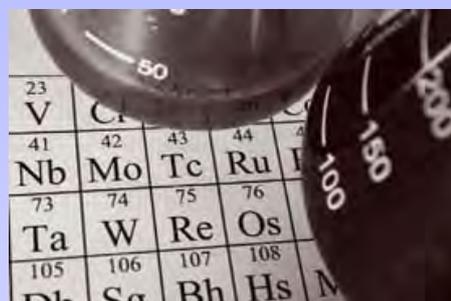


## Educational Applications

The Micro Reaction Calorimeter, as can be seen in this brochure, has a very wide range of applications. This versatility makes the  $\mu$ RC the ideal instrument for an academic environment as a range of varied users can perform different experiments on it.

In the teaching laboratory the  $\mu$ RC provides an elegant method of performing kinetics experiments without polystyrene cup calorimeters and watching iodine clock experiments in a water bath. As a research tool the  $\mu$ RC gives a rapid, accurate and unique way of studying a range of parameters which may not be measured by other methods. New applications are being discovered all the time - don't hesitate to enquire.

The  $\mu$ RC benefits from a small footprint, lack of external service requirements (no water bath or chiller) and a simple PC connection (only a USB connection to a PC). The  $\mu$ RC is designed to operate in any chemical or biochemical laboratory and conforms to modern safety standards.



Baseline Noise	From 5 $\mu$ W
Dynamic Range	5 $\mu$ W to 600mW
Temperature Range	-5°C to 170°C
Standard Modes of Operation	Isothermal Titration Scanning
Optional Modes	Pressure - pressurise cell up to 10bar
Scanning Rate	Up to 2°C/min
Isothermal Stability	+/- 0.0001°C over extended time period
Cell Volume	1.5 ml
Cell Type	Removable glass vial
Injection Volume	1 to 250 $\mu$ l
Temperature Control	Peltier based (no external cooling)
Stirring Speed	0 - 400 rpm
Measurement Principle	Power compensation
Connection to PC	via USB cable
Footprint (width x depth x height)	19 x 31 x 35 cm

Certain other specifications may be possible by discussion. Contact us with your exact requirements.

## Options

The  $\mu$ RC has a range of options. Pressure options include pressure measurement, pressure relief and gas flow. Solid dosing and disposable syringe options are also available.

### Head Office

1 North House • Bond Avenue • Bletchley • MK1 1SW • England  
T: +44 1908 646800 F: +44 1908 645209 E: info@thtuk.com W: www.thtuk.com

### US Mid West Office

PO Box 25 • Whitestown • Indiana • 46075 • USA  
T: +1 317 222 1904 F: +1 317 660 2092 E: info@thtusa.com W: www.thtusa.com

### Asia Office

Suite 1416 • No 1101 Pu Dong Road (S) • Shanghai • 200 120 • China  
T: +86 21 5836 2582 F: +86 21 5836 2581 E: info@thtchina.com W: www.thtchina.com

### Indian Office

808, Eighth Floor Tower - I • Pearls Omaxe • NetaJi Subhash Place • PitamPura • Delhi - 110034 India  
T: +91 11 4701 775 F: +91 11 4701 779 E: info@thtindia.com W: www.thtindia.com

