

# UNITEK TC2042

## Thermal Cycler



Unitek's design engineers set out to develop a robust, reliable and flexible thermal cycler which would offer good value for money. Their solution has been to avoid Peltier effect heating and use two tungsten halogen lamps for heating and fan driven air flow above and below the plate for cooling. A low thermal inertia high conductivity copper diffuser plate ensures temperature conformity across the sample holder and rapid response to temperature cycling. During operation, samples are totally contained in a closed environment which further enhances temperature uniformity and minimises condensation in the sample container.



### Simple programming

Four simple function keys are used to send instructions to the microprocessor, which manages up to 20 individual programmes each containing 42 steps; these programmes can be linked for the most intricate of applications.

### Competitive solution..

Unitek's thermal cycler has been used extensively in research establishments in the United States and throughout Europe since its launch, and has proved its reliability and effectiveness in service. An independent review reported that the Unitek thermal cycler is "a good product, does what it was designed to do well and is very economical".

Voltage range:	220/240V
Power requirements:	300Watts
Dimensions:	35x35x19 WxDxH
Weight:	4,6Kg
No. of programmes:	20
No. of steps / programm:	22
Max. no of repeats / programm:	99
Max. time of each step:	59min. 59sec.
Max. temperature:	99°C
Min. temperature:	Ambient or temp. of cooled surrounding
Max. time for delayed start:	23h. 59min.
Environmental operating range:	4-30°C (Optimal 10-30°C)
Rate of heating/cooling:	0,7 – 1,8°C/Sek. je nach Block