

### TC-412 Thermal Cycler

Industry Leading Warranty... 4 years or 80,000 cycles

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TC-412

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## TECHNE TC412 Thermal Cycler

# The **TC-412** is a high performance, high sample throughput instrument at a





#### Versatile block format

The truly user-friendly fully interchangeable block system allows blocks to be exchanged in a matter of seconds, without the need of any tools (60 x 0.5ml, 96 x 0.2ml, 384-well or flat plate for in-situ).

#### Adjustable heated lid

Defined pressure, programmable heated lid (100°C to 115°C)to accommodate a variety of consumables.

#### Intuitive programming

4-line display with intuitive, simple-to-use software with alphanumeric programming, password protection, simple copy/edit functions and much more.

#### 8 Peltiers

Building on the innovative Quad Circuit Technology of the TC-512, the TC-412 ensures unsurpassed control accuracy and temperature uniformity.

#### Low cost

The TC-412 is one of the most affordable full sized Thermal Cyclers.

#### PC networking

The TC-412 can be connected to a PC along with other Techne cyclers for low volume or high throughput applications using Gensoft\*

\* Techne thermal cyclers are PC friendly and can be linked in combination or alone to a PC using Gensoft.

\*\* Available by special order only

#### Technical Specification

Technical Specification		
Blocks Formats 0.5ml capacity 0.2ml capacity 384-well block In-situ block User interchangeable	60 96 Yes Yes Yes	
Block Temperature Maximum ramp rate* Block uniformity at 50°C* Temperature range Temperature set point precision	2.6°C/sec < ±0.3°C 4°C to 99°C 0.1°C	
Heated Lid Selectable heated lid temperature Heated lid enable/disable Over temperature cut out Regulated lid pressure Heated lid only comes on if block is set	100°C - 115°C Yes Yes Yes t above 35°C	
Programming Number of programs* Password protection Programming Incremental/decremental temperature Incremental/decremental hold time Maximum hold time Minimum hold time Variable programmable ramp rate Run end time calculation Pause and stop facility End of program alarm (enable/disable) Auto restart on power failure	80 Yes 4-line alphaN Yes 18 hrs 1 sec 0.1°C/sec steps Yes Yes Yes Yes Yes	
Miscellaneous Serial port Dual Voltage (120/230V) Temperature sensor Peltier elements/block Dimensions L x W x H (in inches) Footprint L x W (in inches) Connection to PC control program Free software upgrades from website Power consumption Frequency Net weight (in lbs.)	RS232 Yes Thermistor 8 16.5 x 8.6 x 10.2 16.5 x 8.6 Yes Yes 620 Watts 50 - 60 Hz 25	

#### Ordering information

#### Code Description

FTC41S5D	TC-412 60 x 0.5ml microtubes, 230/115V
FTC41H2D	TC-412 96 x 0.2ml microtubes or 96-well plate, 230/115V
FTC4384D**	TC-412 384-well microtitre plate, 230/115V
FTC41FLD**	TC-412 Flat plate for in-situ, 230/115V

#### Interchangeable Blocks

FTC41B5D	Block for 60 x 0.5ml microtubes
FTC41BHD	Block for 96 x 0.2ml microtubes or 96-well plate
FTC4B384**	Block for 384-well microtitre plate
FTC41BID**	Flat plate block for in-situ



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.