



## Thermal Cyclers from Bioer Technology

Simple, economical and effective DNA amplification

Polymerase Chain Reactions (PCR) continue to perform a pivotal role in our understanding of the molecular realm.

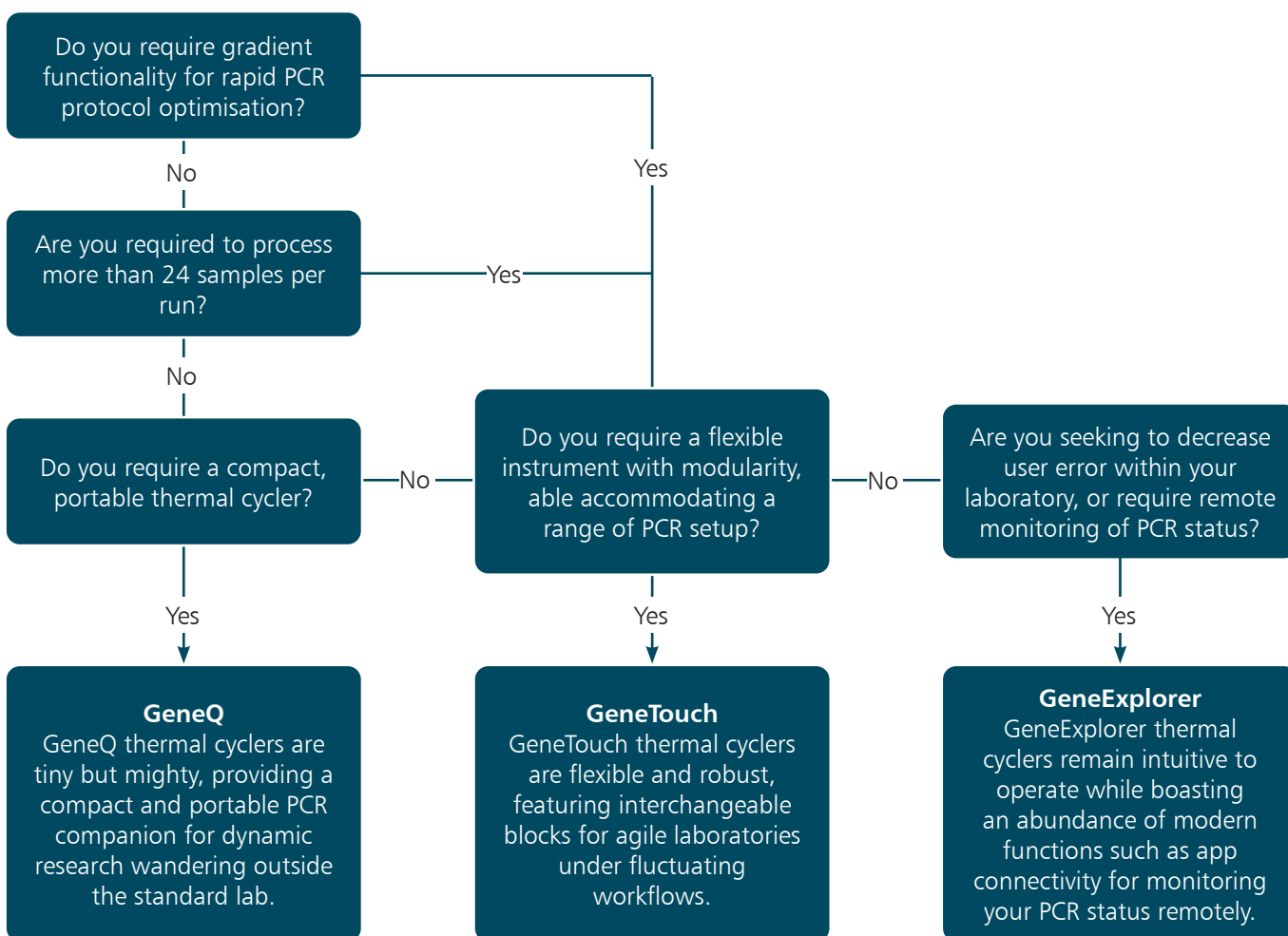
The landscape of PCR has shifted, with thermal cyclers becoming an ever more ubiquitous tool for laboratories.

Our selection of Thermal Cyclers delivers economically priced mid-range instruments to support research and innovation, ensuring strict budget does not cap scientific inquiry.

## Choosing Your Next Thermal Cycler

Deciding which thermal cycler is right for you and your lab can be daunting. It's critical to consider the type of molecular experiments being undertaken by your lab, as well as the frequency of this, and who ultimately will be using these instruments.

- **Gradient features** allow the ideal temperature for your enzymes to be found with ease, eliminating the need for multiple optimisation runs, saving you time and reagent waste.
- **Block control** measures and monitors the block temperature. Choose block control if your PCR is quite robust and you need the results quickly.
- **Tube control** uses an internal calculation to ensure the sample temperature reaches the target temperature. It takes a little longer but is more accurate particularly if your protocol is very sensitive.



	GeneQ	GeneTouch	GeneExplorer
<b>Block Sample Capacity</b>	TC1200 24-well	TC1110 96-well TC1120 48-well dual block TC1130 48-well Universal block TC1140 384-well TC1150 4 x standard in situ plates	GE-96G 96-well GE-48D 48-well GE-384G 384-well
<b>Cooling Technology</b>	Peltier elements	Peltier elements	Peltier elements
<b>Display</b>	3.8 inch dot matrix LCD screen	6.52 inch 262k-colour LCD display with stylus touch screen	8 inch Full colour touchscreen
<b>Temperature Range</b>	4 - 99.9°C	4 - 105°C	4 - 105°C (min. resolution: 0.1°C)
<b>Heating speed of ramping</b>	≥5°C/sec	TC1110 and TC1120 Up to 4°C/sec TC1130 and TC1140 Up to 2.8°C/sec TC1150 Up to 1.8°C/sec	Up to 6°C/sec
<b>Cooling speed of ramping</b>	≥4°C/sec	TC1110 and TC1120 Up to 4°C/sec TC1130 and TC1140 Up to 2.8°C/sec TC1150 Up to 1.8°C/sec	Up to 5.5°C/sec
<b>Temperature uniformity</b>	≤±0.2°C	≤±0.2°C	≤±0.2°C
<b>Temperature accuracy</b>	≤±0.2°C	≤±0.1°C (55°C) : ≤±0.2 C (≥90°C)	≤±0.2°C (30s after reaching 55, 72 and 95°C respectively)
<b>Temperature control modes</b>	Block or Tube	Block or Tube	Block or Tube
<b>Memory</b>	100 programs	250 programs Limitless with USB flash drive storage	200 programs Limitless with USB flash drive storage
<b>Maximum number of cycles</b>	99	99	≥99
<b>Gradient range of temp differential</b>	N/A	1 - 30°C	1 - 30°C
<b>Hot-lid temperature range</b>	30 - 110°C	30 - 110°C	30 - 110°C
<b>Interfaces</b>	RS232	USB and LAN	USB, LAN and WIFI
<b>Mobile App</b>	N/A	N/A	iOS / Android
<b>Power supply</b>	AC 220V, 50Hz, 200VA	100-240V, 50-60Hz, 600W	100-240V, 50-60Hz, 600W
<b>Dimensions (WxDxH)</b>	297 x 212 x 200mm	368 x 250 x 285mm	420 x 269 x 254mm
<b>Net weight</b>	3.2kg	10.5kg	10.5kg



## GeneQ

Product Code	Description
TC1200	24 well Personal Thermal Cycler

## GeneTouch

Product Code	Description
TC1100	Base Unit
TC1110	96 well Gradient Block
TC1120	48 well Dual Block
TC1130	Universal Block
TC1140	384 well Gradient Block
TC1150	In Situ Block

## GeneExplorer

Product Code	Description
GE-48D	48 well Dual Block Thermal Cycler
GE-96G	96 well Gradient Thermal Cycler
GE-384G	384 well Gradient Thermal Cycler

### Alpha Laboratories Limited

40 Parham Drive  
Eastleigh, Hampshire  
SO50 4NU United Kingdom

**Tel:** 023 8048 3000

**Email:** [sales@alphalabs.co.uk](mailto:sales@alphalabs.co.uk)

**Web:** [www.alphalabs.co.uk/thermal-cyclers](http://www.alphalabs.co.uk/thermal-cyclers)