

# xxpress<sup>®</sup>

The Next Generation  
of Thermal Cyclers



## Speed

Resistive heating technology

Heating and cooling @ up to  $10^{\circ}\text{Cs}^{-1}$

xxplates<sup>®</sup> have a low thermal mass, meaning they are very efficient to heat with little thermal waste



<http://xxpresspcr.com/xxpert-advice/calculator/>

## Cost Saving

Save up to 90% of your reagent running costs, check out [www.xxpresspcr.com/xxpert-advice/calculator](http://www.xxpresspcr.com/xxpert-advice/calculator)

The ideal multi-user system (walk up, run, get results, walk away)

Great Return on Investment (ROI) more runs per day

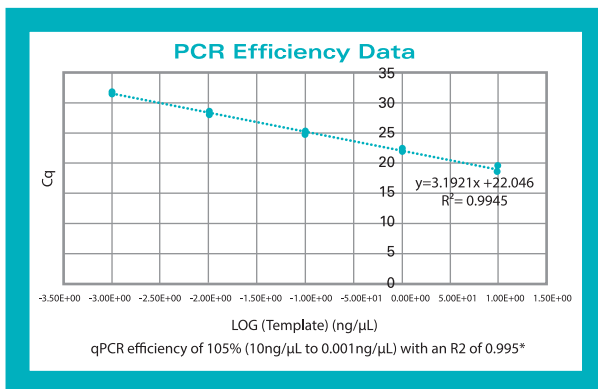
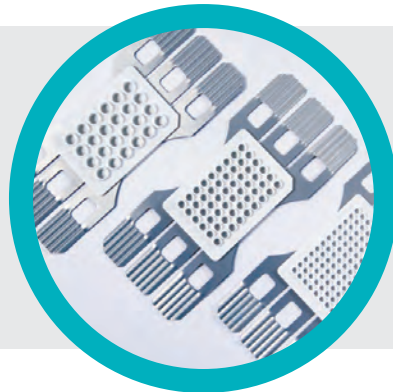
Faster results delivery

See how much you could be saving

## Flexible

24 well, 54 well and 96 well plates all run on same hardware

Increased speed means qPCR is available to use in new applications



## Thermal Accuracy

Low thermal mass results in more accurate temperature control

Sample is only  $10\mu\text{M}$  from heat source, twenty times closer than in conventional systems

Infrared temperature measurement reads and modifies 100 times a second

qPCR efficiency of 105% (10ng/mL to 0.001ng/mL) with an R2 of 0.995\*

## Intuitive

Simple touch screen programming

Icon based programming, including pre-set methods

Straightforward method planning designed by scientists



# 5 Steps to Successful qPCR

1

**Speed**  
10 min qPCR  
Innovative Ultra-Fast  
Resistive Heating

2

**Cost Saving**  
Save up to 90%  
of reagent costs

3

**Thermal Accuracy**  
Accurate at every  
stage of your run

4

**Flexible**  
Plate size to suit  
your demands

5

**Intuitive**  
Touch screen icon  
based software



# Technical Specification

## xxpress® Thermal Cycler

Thermal ramp rate user selectable up to 10°C per second

Temperature range 40°C-99°C

Temperature accuracy of +/- 0.3°C within the sample

Five colour multiplexing, via five channel excitation

Channel Number	LED Colour	Peak Excitation (λ)	Emission Wavelength Band (λ)
1	Blue	470	513-531
2	Green	530	569-588
3	Amber	590	600-617
4	Red	627	662-685
5	Red	627	694-734

Intuitive interface powered by embedded quad core processor

### Interchangeable xxplates®

24 well suggested total volumes of between 5-40µL

54 well suggested total volumes of between 2-15µL

96 well suggested total volumes of between 1-5µL

### Thermal Uniformity

After 1 second @95°C thermal uniformity +/- 0.3°C

After 1 second @60°C thermal uniformity +/- 0.3°C

qPCR efficiency of 105% (10ng/µL to 0.001ng/µL) with an R2 of 0.995\*.

\*Acceptable criteria for this type of experiment should have the efficiency calculated between 90%-110% and the R2 > 0.985

### xxpress® Weight and Dimensions

Dimensions 300mm X 320mm X 590mm

Weight 25Kg

## Additional Equipment In The xxpress® Range

xxpress® centrifuge with custom rotors for spinning the xxplates® prior to PCR

xxpress® heatsealer to seal the xxplates® to ensure there is no evaporative loss during the run

## Consumables

xxplates® come in convenient benchtop packs of 20

Sealing sheets for use with 24, 54 or 96 well xxplates® are in packs of 100

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