

xxpress[®]

The Next Generation
of Thermal Cyclers



LabConsulting.at
Our global network for your success

Speed

Resistive heating technology

Heating and cooling @ up to 10°Cs^{-1}

xxplates[®] 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

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

Great Return on Investment (ROI) more runs per day

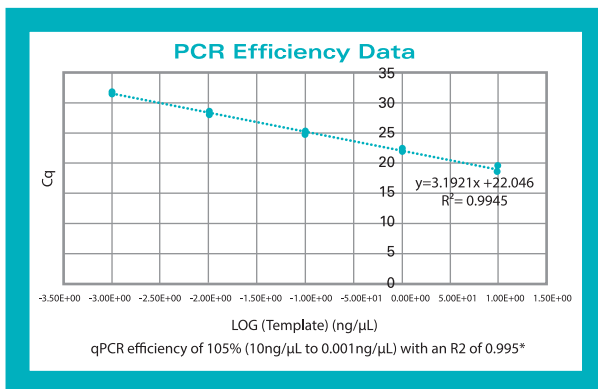
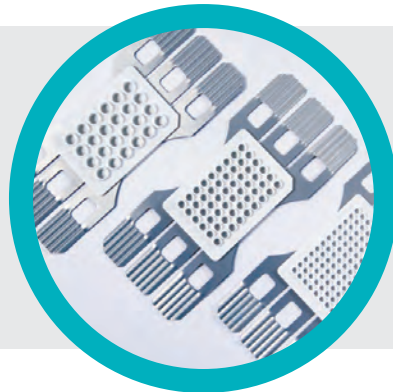
Faster results delivery

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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