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80
TIMES
LESS
ENERGY USE

BENEFITS

- + The fastest cyclor on the market today, it can perform a 3 step, 30 cycle program in under 2 minutes*
- + Well to well uniformity across the block is better than 0.1 °C
- + Significant energy savings, 180 watts during its operation compared to the competition at over 1 kWh
- + Universal plate acceptance 96 or 384 well**
- + Frees space with a small footprint

NEXTGEN PCR

NG PCR: An entirely new ultra-fast PCR system introduced by MBS

ABOUT

THE WORLD'S FIRST, UNIVERSAL FAST PCR SYSTEM

HISTORICALLY PCR INSTRUMENTATION has relied on Peltier technology to power the process, which has led to run times remaining similar for the last 30 years. Manufacturers have lived in the belief this is fast enough and the only way to differentiate their products is via the user interface.

The MBS system flies in the face of conventional thinking and delivers astounding speed, accuracy and most of all increased throughput.

The unit is capable of delivering End Point PCR in 2 minutes* (100bp fragment). No other system can deliver this level of throughput – in either 96 or 384 well plates.

WELCOME TO NEXT GENERATION PCR!

20%
LESS
SPACE



For further information please contact **Simon Nicklin**

TEL +31 6 12719260 EMAIL simonnicklin@mbspcr.com SKYPE [simon.nicklin3](https://www.skype.com/user/simon.nicklin3) WEB www.nextgenpcr.com

ABOUT

The MBS NG PCR system consists of consumables and equipment

The system is built around a highly innovative thermal cycler, using just 180 watts. In the NEXTGEN PCR there are 3 user adjustable temperature zones which form the heart of the instrument. The consumables with ultra thin wall wells (less than 50 micrometers), are brought to a temperature zone (denaturing, annealing or extension), where the wells and their PCR mix reach the required temperature almost instantly.

The total time needed for 90 temperature changes is reduced to around 2 seconds. The rest of the time is used for the reactions to take place.

MBS microplates are fully compatible with 96-well and 384-well standards

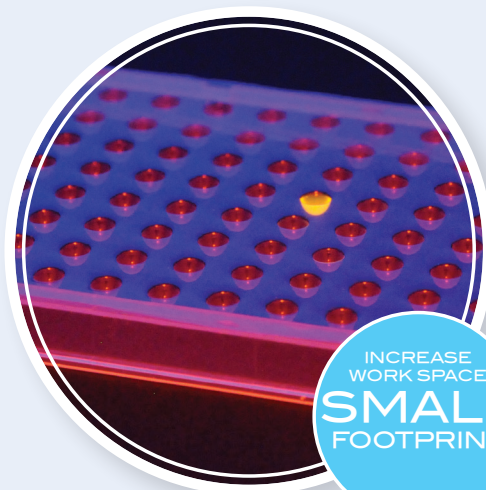
The frames have all properties, needed for integration in existing laboratory set-ups. Plates are available in 96-well and 384-well. All plates have the same frame, with a polypropylene foil with 96 or 384 wells. 96-well plates may be used with volumes from 5 – 20 or 2-5 microliter. 384-well plates can be used with volumes from 2 – 5 microliter. The MBS PCR machine takes 96-well plates and 384-well plates without any changes to the PCR-machine. All microplates have wells with a wall thickness of less than 50 microns.

The wells are sealed simultaneously, but individually, using a heat sealer and a proprietary anvil. Wells can be sealed with aluminium or polyester backed polypropylene foil. Both foils can be pierced with MBS pipette tips.

Pipette tips

MBS proprietary pipette tips are available for easy recovery of PCR-products from sealed microplates. These pipette tips are sharp and easily puncture aluminium backed or even polyester backed sealing films.

30
CYCLES
3
TEMPERATURES
2
MINUTES



INCREASE
WORK SPACE
SMALL
FOOTPRINT

SUITABLE FOR
ALL
FORMATS**



EASE OF USE

- + Touch screen with an intuitive graphic user interface
- + Easy accessibility for loading
- + SILA-protocol for integration in automated laboratory systems
- + Small footprint
- + Low power consumption – just 180 watts
- + Suitable for 96-well and 384-well plates without modification.** One machine, ALL FORMATS!
- + Ultra-fast: 30 cycles, 3 temperatures in 2 minutes*
- + Robot ready – the speed enables it to keep pace with robots for pipetting

*When using Kapa 2G FAST and 100 base pair fragment
**On release 96 well available, remaining formats available soon



For further information please contact Camlab Ltd
TEL 01954 233110 EMAIL support@camlab.co.uk WEB www.camlab.co.uk