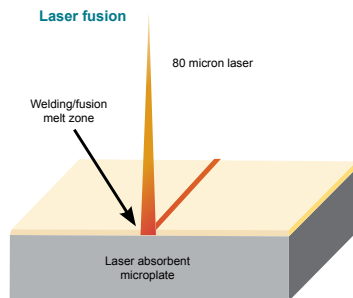


## Fusion<sup>3</sup>

### Cost-effective laser technology for microtitre plate sealing without heat

The ultimate in seal integrity, the Fusion<sup>3</sup>™ offers a cost-effective, laser sealing solution<sup>1</sup> that can be integrated with existing heat sealing instruments or utilised alongside the Kube™ heat sealing system.

Utilisation of the full potential of microplates, particularly high density formats, is frequently hampered by the need to use conventional heat based systems. The transmission diode laser welding with the Fusion<sup>3</sup> eliminates problems associated with traditional heat sealing of high density plates.



#### Sealing with the Fusion<sup>3</sup>

The initial heat seal on the Kube lightly ‘tacks’ the seal in place enabling the laser to fuse the seal to the plate in the next stage of the process.

- A laser absorbent microtitre plate or laser absorbent film must be used for laser sealing
- Typical 20-40 second plate sealing cycle
- Uses single sheets or a 265 mm diameter film-roll with a capacity of >4,000 seals, both initially prealigned using the Kube heat sealer
- Include laser safety glass for visual inspection and an easy to load automation friendly front plate load position
- Simple software operation with a user friendly graphical interface

#### Why choose the Fusion<sup>3</sup>?

- Laser sealing enables flexibility of assay/plate combinations including 96-, 384- and 1536-well plates
- Suitable for elevated temperature assays and long term storage
- Elongated incubation times possible
- Elimination of evaporation based edge-effects
- Seals can be optically clear or coloured to improve assay detection
- CO<sub>2</sub> permeable seals for tissue culture
- Ideal for light sensitive contents
- No possibility of amplicon contamination so no requirement for separation of pre- and post-PCR areas

## Fusion<sup>3</sup> specifications

<b>INSTRUMENT DIMENSIONS</b>	Depth: 50.0 cm (19.7") Width: 31.0 cm (12.2") Plus 15" Laptop Height: 31.3 cm (12.3") Provided with laptop/software
<b>INSTRUMENT WEIGHT</b>	Approx. 41 kg (90.4 lbs)
<b>ELECTRICAL REQUIREMENTS</b>	110/220 V, 10 A
<b>AIR REQUIREMENTS</b>	Compressed air: 6 bar (90 psi), 90 L/min
<b>CERTIFICATIONS</b>	CE

## Ordering information

Cat. no.	Description
KBS-0007-001	Fusion <sup>3</sup> laser welder
KBS-0005-001	Kube heat plate sealer
KBS-0900-024	Fusion <sup>3</sup> 12-month service contract

<sup>1</sup> Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).



## Consumables

Cat. no.	Description
KBS-0612-001	Polypropylene vision seal
KBS-0751-001	1536-well black plates landscape barcode (box of 20)
KBS-0750-001	384-well black plates landscape barcode (box of 20)
KBS-007-004	Fusion <sup>3</sup> laser pressure silicon pad
KBS-007-005	Fusion <sup>3</sup> laser non-stick teflon sheet (pack of 3)

## Complementary products

A comprehensive range of thermal and laser plate seals suitable for heat sealing is available at a very competitive price. We also have a portfolio of microtitre plates in 384- and 1536-well densities suitable for a full suite of assay types and detection systems. Whatever your seal requirements, our extensive portfolio of seals for many different applications is sure to include a format that meets your needs.



[www.lgcgroup.com/genomics](http://www.lgcgroup.com/genomics) • [genomics@lgcgroup.com](mailto:genomics@lgcgroup.com)

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