



MASMEC

BIOMED

omnia
Automated liquid handling workstations

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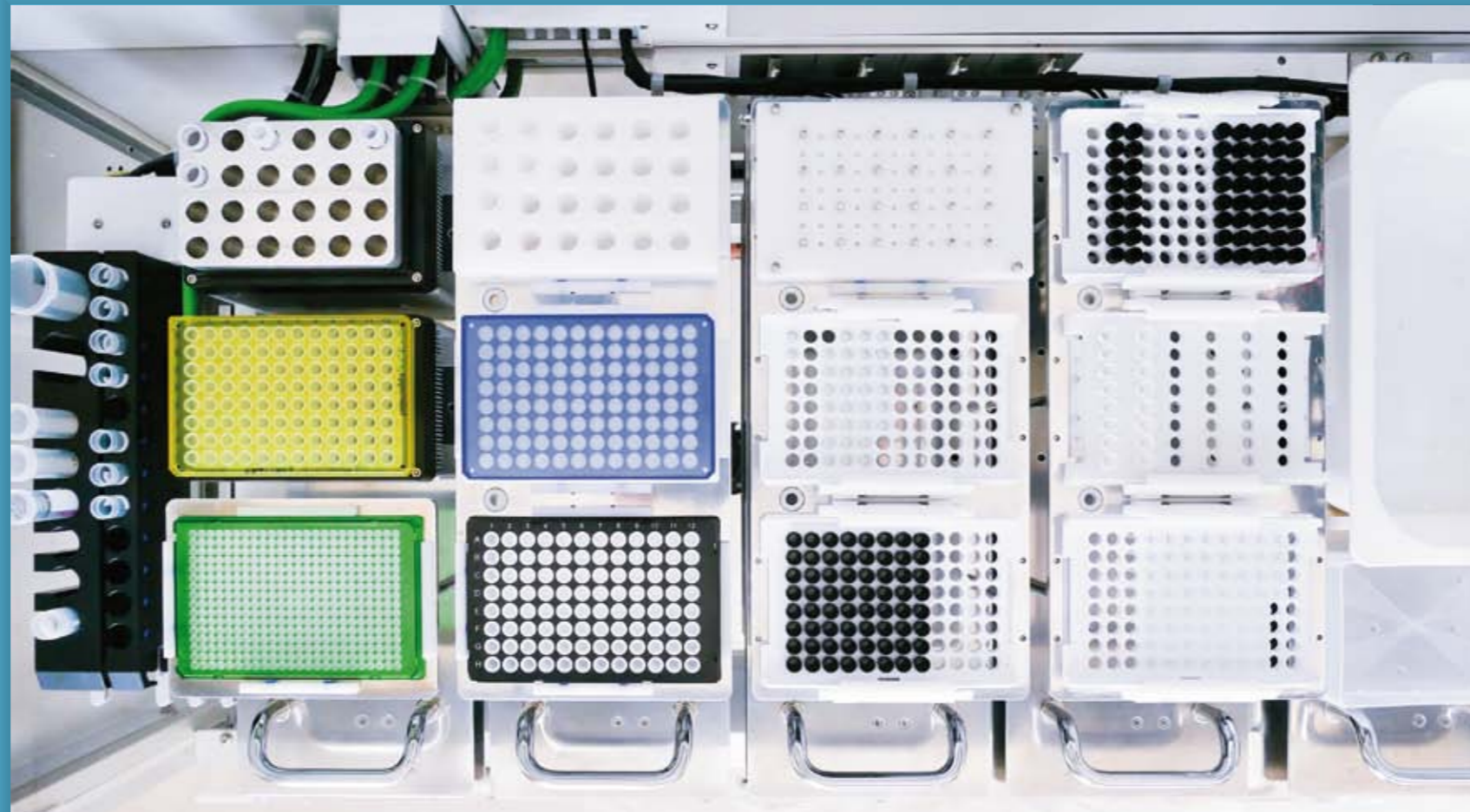
Omnia is a liquid handling platform for biomedical laboratories that stands out for its high flexibility, which makes it suitable for a large variety of applications in molecular biology and omics sciences.

As a fully automated laboratory, customised through the integration of different devices, Omnia performs dispensing and sample preparation, with minimal or no operator intervention. Hence, it ensures greater safety and accuracy, and significant time-saving.



ADDITIONAL DEVICES

- Thermoshaker (RT to 95° C, 100 rpm to 2000 rpm)
- Heating and cooling unit (4° to 70° C)



GRIPPER FOR HANDLING OF PLATE AND LABWARE

MODULAR, SCALABLE AND CUSTOMISABLE DECK, UP TO 12 SBS PLATE POSITIONS

SAFETY AND DECONTAMINATION TOOLS

- Easy-to-clean deck
- UV lamp
- Removable waste bin



EXTRACTION AND PURIFICATION MAGNETIC TOOLS

- Magnetic tool with 8/16 or 12/24 magnets
- Magnetic base for purification of small volumes

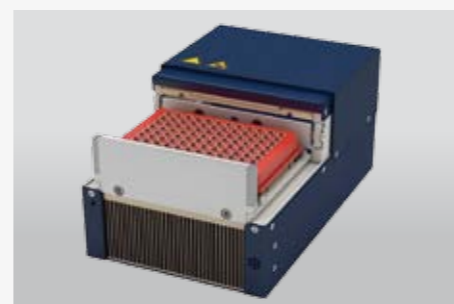


REMOVABLE RACKS FOR REAGENTS AND FOR SAMPLES DIRECTLY FROM THE PRIMARY TUBE



INTEGRATED AND/OR EXTERNAL BARCODE SCANNER

- Traceability of reagents, samples and processes
- Bidirectional interface with the hospital Laboratory Information System (LIS)



ON-DECK THERMAL CYCLER

- Full automation of NGS and omics workflows
- High heating and cooling rates
- Excellent temperature uniformity
- Rapid transition into plateau temperature



FRAMEWORK SOFTWARE

- Easy editing of protocols in "open" mode
- Libraries of preset protocols
- User-friendly interface on touchscreen
- Monitoring of operations even remotely



LIQUID HANDLING

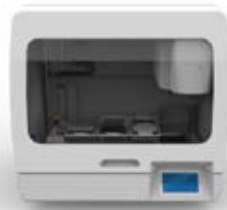
- Dispensing system with 1 to 8 dependent and independent channels
- Pipetting volume range: 1 µl to 1000 µl
- Precision: CV ≤ 0.2% at full stroke
- Droplet control for drop-free liquid dispensing
- Use of washable needles or single-use tips
- Liquid level sensor for liquid detection
- Pressure level sensor for clot detection

omnia



LH 60

NUCLEIC ACID
EXTRACTION AND
PURIFICATION



LH 75

NUCLEIC ACID
EXTRACTION AND
PURIFICATION

PCR SETUP



LH 100

NUCLEIC ACID
EXTRACTION AND
PURIFICATION

PCR SETUP

NGS PROTOCOLS

ALWAYS BY YOUR SIDE

Remote and on-site assistance
Protocol update
Software update
Staff training
Other configurations on demand

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