Labotect
Labor-Technik-Göttingen

Labo C-Top
with SAFE Sens® pH monitoring

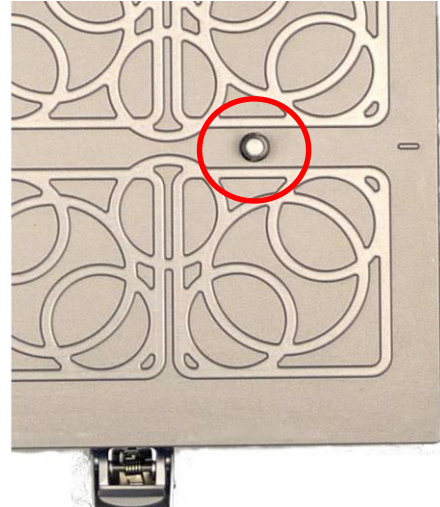## Benchtop incubator with integrated SAFE Sens® technology for continuous, non-invasive pH monitoring

Advantages of Labo C-Top with SAFE Sens® pH monitoring:

- All advantages and options of Labo C-Top combined with state-of-the-art pH monitoring system

- Independent monitoring of the pH-value in Labo C-Top chambers

- TrakPods™ integrated in surface of Labo C-Top without use of valuable dish space

- Real time monitoring of the pH-value every minute or every 30 minutes for up to 7 days

- Accurate measurements: ± 0.05 in a range of pH 7.00 to 7.60

- SAFE Sens® measurement technology utilizes a patented and proven LED-based optical fluorescent system

- Included Software for data recording capabilities and automatic alerts (by e-mail)

- Monitoring of up to 8 chambers with one TrakStation™

REF | 16377

Product features of Labo C-Top with SAFE Sens® pH monitoring:

- Changes in pH immediately visible due to continuous monitoring

- Monitoring without staff intervention and lid opening

- No petri-dish required (non-invasive)

- No costly, time consuming calibration required:

    - One qc^2 alignment tool needed per laboratory

    - Automatically adjusts fluorescent signal to restore to factory settings

    - No outside calibration services required, no incubator down time

Open Labo C-Top with SAFE Sens® sv^2-sensor (red marking)

Options for Labo C-Top with SAFE Sens® pH monitoring system

- Integrated SAFE Sens® TrakPod™ either on both sides or side of choice

- With or without SAFE Sens® TrakStation™

- Labo C-Top with lockable lids

- Labo C-Top with second gas inlet

Technical data of Labo C-Top:

Exterior:
- Dimensions 403 x 225 x 155 mm (w x d x h)
- Weight 8.8 kgs

Interior:
- Two chambers with 0.5 liters each
- Mixed load possible

Temperature:
- Overall heating from top and bottom of each chamber
- Range 30 °C – 42 °C from 7 °C above ambient temperature
- Stability / uniformity ± 0.1 °C / 0.3 °C

Gassing:
- Premixed gas
- Gas flow adjustable between 20 ml/min and 30 ml/min
- Flow rate after opening the lid (automatic gas purge): 250 ml/min for 3 minutes

Connection values:
- 110 – 230 V AC, 50/60 Hz, 100 VA
- Primary pressure for gas 0.8 bar
- Ambient temperature 18 °C – 30 °C

Classification:
- Safety class I
- Class IIa for every usage according to EC Directive 93/42/EEC
- Device is compliant to EN 61010

Product features of Labo C-Top:

Incubation chambers:
- Aluminum milled and eloxated
- In the lower part:
    - Slots provide full contact to culture dishes
    - Adaption for humidity block
    - Gas inlet
- Easy cleaning
- Independent, for use with (per chamber):
    - 4x IVF 4-well dishes 66x66 mm
    - 4x Petri dishes Ø 60 mm
    - 10x Petri dishes Ø 35 mm

Temperature:
- Overall heating from top and bottom
- Very homogeneous temperature distribution

Humidity:
- Humidification by means of humidity block
- Reservoir sufficient for 4 days (when gassing with 20 ml/min)
- Humidity block autoclavable
- Humidity alarm disengageable
- Current value of relative humidity is displayed (% rH)

Gassing:
- Connection of premixed gas (CO_2, O_2 < 21 %, N_2)
- Separate measuring and regulation of gas flow for each chamber
- Automatic gas purge when closing the chamber

Recovery times:
- Short recovery times for all adjustable parameters through microprocessor controlled regulation

Use of glass panel:
- Homogeneous glass cover
- Sensoric buttons integrated in glass
- Image of placements for marking inserted dishes at the glass cover
- Easy operation and menu navigation
- Lit LCD at working place height

Trouble check system:
- Optical and acoustic alarm in case of set point deviation and defective sensor
- Independent over-temperature protection
- Remote alarm

Options:
- PC software LaboDat+ for documentation of incubator's parameters
- Second gas inlet for use of different gas mixtures for each chamber
- Lockable lids

Interfaces:
- Remote alarm (potential free)
- RS485 interface for data logging with optional available PC software LaboDat+

SAFE Sens® qc^2 alignment tool on TrakPod™'s sv^2 sensor in Labo C-Top

Additional equipment:

- Labo Gas Mixer provides mixed gas (CO_2, N_2 and atmospheric oxygen) — REF 15583

Accessories:

SAFE Sens® sterile sv^2-sensor (10 pieces) — REF 16370

SAFE Sens® qc^2 alignment tool — REF 16371

The SAFE Sens® pH-monitoring technology is also available for large format incubators.

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