

## Labo C-Top with SAFE Sens® pH monitoring



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

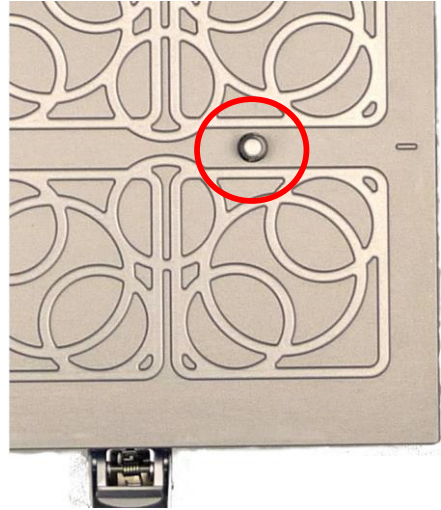
### Advantages of Labo C-Top with SAFE Sens® pH monitoring:

- All advantages and options of Labo C-Top combined with state-of-the-art pH monitoring system
- Independent monitoring of the pH-value in 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:  $\pm 0.05$  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<sup>2</sup> 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<sup>2</sup>-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
- 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

### Power Supply:

- 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
- EN 61010 conform

## Incubation technique

### 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<sub>2</sub>, O<sub>2</sub><21%, N<sub>2</sub>)
- 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<sup>2</sup> alignment tool on TrakPod™'s sv<sup>2</sup>-sensor in Labo C-Top

### Additional equipment:

- Labo Gas Mixer provides mixed gas (CO<sub>2</sub>, N<sub>2</sub> and atmospheric oxygen)

REF 15583

### Accessories:

SAFE Sens® sterile sv<sup>2</sup>-sensor (10 pieces)

REF 16370

SAFE Sens® qc<sup>2</sup> alignment tool

REF 16371

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



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