Labotect
Labor-Technik-Göttingen

General catalogue IVF

Certified laboratory equipment and medical devices

Quality – Made in Germany

Address:
Labotect Labor-Technik-Göttingen GmbH
Kampweg 12
37124 Rosdorf
Germany

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Email: info@labotect.com
Web: www.labotect.com

Court of register: Göttingen: HRB 1394
WEEE-Reg-No: DE 86039820
Managing director:
Delia Schinkel-Fleitmann
Dr. Friederike Fleitmann

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committed
to human progress

bound
to nature

www.labotect.com

Innovation, experience and expertise for more than 50 years

Quality – Made in Germany

Labotect Labor-Technik-Göttingen GmbH – located in the centre of Germany – develops, produces and distributes a wide range of products for use in assisted reproduction and life-science laboratories.
Outstanding quality and close contact to the customers have been two important pillars of the company's philosophy for more than 50 years. It is the aim to fulfill customers' demands and highest standards with most innovative developments.
Labotect was founded in 1971 as a dealer for laboratory equipment. A few years later, at the same time the first test-tube-baby worldwide was born, Labotect established its own research and development division with main focus on assisted reproduction techniques (ART). Today, the company is represented worldwide by a strong network of reliable and well-trained distributors in over 60 countries.

As manufacturer of medical devices, Labotect is certified according to ISO13485 for development, production, distribution and service of devices and instruments for assisted reproduction, gynecology, surgery and tissue culture.

Optimized culture conditions for your cells!

Incubation technique is one of the key competence areas of Labotect. The benefit of the CO_2 incubators is perfect control of parameters by most modern technical solution. They combine high safety standards with convenient design. Very fast recovery times for all adjustable parameters are basic features in all Labotect CO_2-Incubators.
In addition to incubation technique, the wide product range of the company includes devices and consumables for assisted reproduction, lab equipment and sterile products for gynecological and general surgery.

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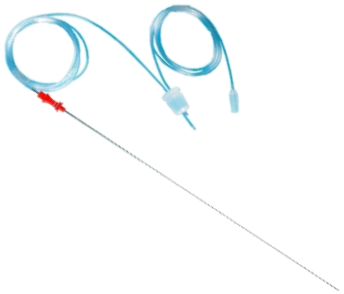
Labotect offers Embryo Transfer Catheters in three lengths - 150mm, 190mm and 230mm:

1. The sterile catheter set consists of a precurved guiding catheter and smooth transfer catheter with a reinforced metal shaft.
2. Both parts incorporate a cm-marking to control the penetration depth.
3. Using a slide ring, the penetration depth and the direction can be adjusted.
4. The ball tip of the guiding catheter secures an atraumatic penetration.

For aspiration of oocytes and follicles, we offer puncture needles and an aspiration pump:

- **Needles and Sets for follicular puncture:**
  1. Facet bevel
  2. Ergonomic hub
  3. Grinded or corroded echo marking
  4. Medical device
  5. Customized sets on request



- **Aspirator 3:**
  1. Easy handling/electrical pedal
  2. Long durability, high reliability and very silent
  3. Constant control of negative pressure
  4. Overflow protection
  5. Medical device

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Furthermore, CO_2 Incubators with sizes of 16, 60 and 200 litres are in our product range.

These are the main advantages of our incubators **C60** and **C200**:

1. Active sterile humidity

To minimise the contamination risk, these incubators feature an active sterile humidity supply with a vaporizing module operating at 120 °C and an external water supply container. This means there is no need of an internal water reservoir. Aqua bidest is provided over a pump into a vaporiser (heated up to 120°C) in very fine drops. This sterile water steam provides the incubator with humidity that can be regulated over a humidity sensor. With this active humidification recovery times can be reduced extremely.

2. Double beam IR sensor:

This sensor assures an exact measuring and short recovery times of the CO_2 value as all external effects are eliminated.

3. Direct heating system:

The intelligent temperature control system and the panel heated interior chamber and door care for a dry inner chamber and assure a very homogeneous temperature distribution in the interior.

4. Medical device

5. Optional: LaboDat+ software

This software provides the possibility to measure and save the data of all CO_2 incubators, the Labo C-Top, Labo Gas Mixer and the Gasmonitor over a specific period of time.

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Advantages of our newest incubator C201:

1. 7“ colour touch screen
2. UV decontamination (option)
3. Particle filter (P3) within airflow
4. Display of measured values for 2 h or 24 h (T, CO_2, rH, O_2)
5. Access control via numerical electronic code on touch screen with mechanical emergency lock (option)
6. Access port
7. RS485 or ethernet interface

Main advantages of our incubator C16:

1. Very compact and space-saving construction
2. Over-all heating of interior and door
3. Dual beam infrared sensor
4. Approved medical device

Main advantages of our benchtop incubator Labo C-Top:

1. Two separate chambers with identical functions; to be used individually (humidity, premixed gas, temperature)
2. Optimized temperature distribution and gas flow
3. Direct heating of top and bottom
4. Optimized gassing with premixed gas
5. Reliable humidity system
6. Convenient glass control panel
7. Very fast heating up and recovery times

We offer the **SAFE Sens® pH-Monitoring system** for our large format incubators **C60**, **C200** and **C201**, as well as an integrated SAFE Sens® system in our benchtop incubator **Labo C-Top**:

1. Continuous, non-invasive, independent monitoring of the pH value
2. Real time data of the pH-value every minute or every 30 minutes for up to 7 days
3. Accurate measurements: ± 0.05 in a range of pH 7.00 to 7.60
4. Monitoring of up to 8 chambers or incubators with one TrakStation™
5. TrakPods integrated in Labo C-Top, without use of a valuable dish space

Main advantages of our Gasmixer:

1. Provides mixed gas (CO_2, N_2 and O_2) for up to 3 benchtop incubators
2. Individual setting of gas concentration
3. Connection of CO_2 and N_2 gas bottles only, O_2 is obtained from ambient air
4. Bypass for mixed gas supply of other external devices:
    - incubation chambers used with microscopes
    - External control of parameters by use of Labotect InControl

Main advantages of our InControl:

1. °C-measurement; range: 0 -100°C
2. CO_2-measurement; range: 0 - 10%
3. O_2-measurement with optional sensor; range: 0 - 100%
4. Real-time data logging

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5. Measurement and documentation of multiple incubators
6. Data-Download via USB
7. PC-Software DataVISUAL`09 included
8. Powered by rechargeable Li-ion battery or mains adapter
9. No separate charging station

The following laboratory equipment completes the wide product range of Labotect:

Transport Incubators:

We offer our **Thermo-Cell-Transporter 3018** and **CellTrans 2018** for safe and Versatile use and for a secure and mobile preservation of cell material, specimen, culture media etc.

We also offer a transport incubator with the possibility for humidify-cation and to control temperature and CO_2 level, the **CellTrans+**, which is also suitable as back-up for your ceels in case of power outage as it has a very long battery life.

HotPlates 100, A3 and A4:

For laboratory and scientific use.

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Blockthermostat:

For homogeneous temperature distribution.

Active Vibration Isolator:

With active vibration isolation system for vibration cancellation even in the low frequency range.

...and more: www.labotect.com !

The Labotect Quality Assurance System

Quality Assurance or QA is seen by Labotect as an integral part of our Quality Management System. Every employee and staff member is made aware of the delicate environment our products are used in and need to accept these high standards set forth in our quality policy.

Approach

When developing our products we seek out the feedback and cooperation of renowned specialists in their respective field of work. Raw materials are chosen carefully to suit the purpose they are going to be used for. Mostly, this means they have to pass a test about biocompatibility, among others. Also, suppliers are chosen according to their proficiency at what they do. Each supplier must agree that he can be audited by us, our Notified Body and foreign authorities who might request this. The great majority of our suppliers come from Germany.
It is our believe that quality must be produced. It cannot be tested into a product later on.

Various Tests

Before a batch of disposables is released it needs to pass a Mouse Embryo Assay and a LAL-Endotoxin test. Pass criteria are > 80 % blastocysts hatching in the Mouse Embryo Assay and an endotoxin value of < 20 EU/ml. You will find these criteria to be one of the strictest in the industry. The tests are performed by an independent and accredited laboratory (Embryotech Inc.). Certificates from the independent laboratory are available on request.

Our CO_2 incubators play a vital role in different cell culture applications. To ensure their performance every unit has to pass a cell growth-test before it is released for sale.

Standards

Everything evolving around the design, development, manufacture and sale of our product conforms to at least the ISO 13485 standard with its already exacting demands. Additionally, we do fulfil requirements of many countries around the world, where our products are registered, e.g. Egypt, China, India, USA, Brazil, Croatia, Israel, to name but a few.

Reviews

Our quality management system is audited once a year and every three years we have to undergo re-certification. That means that at least two auditors turn our quality management system up-side down for 2-3 days. Furthermore, we now face the possibility of un-announced audits by our Notified Body once every three or five years.
Additionally, our Notified Body (TÜV SÜD Product Service GmbH) has long since implemented a policy to re-view the technical documentation for the products. It is compulsory for Notified Bodies since 2010 to prepare and implement an algorithm after which all products of a manufacturer in Class IIa and above are reviewed once a year.

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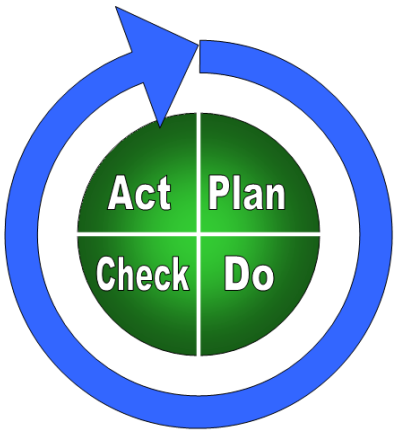
Labotect has three product groups in Class IIa:
our incubators, the Aspirator and our ovarian biopsy sets and needles. So, within the validity of our ISO-certificate (three years) each product group is reviewed fully and within the validity of our EC certificate (five years) the relevant product groups are reviewed one and a half times.

Upholding these high standards takes a lot of time and effort but we feel that you and your customers deserve nothing less.



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Background about Labotect Certificates

In 1998, Labotect implemented a Quality Management System according to ISO 9002. In 2003, as one of the first medical device manufacturers in Germany, Labotect was certified according to DIN EN ISO 13485:2003.

ISO 13485

Contrary to the ISO 9001, the ISO 13485 certificate refers to many other rules, regulations and laws to be fulfilled (i.e. ISO/TR14969 Guidance on the application of ISO 13485, ISO 14971 Application of Risk Management for Medical devices). Its key features are the following:

- Defined product specifications
- Defined production process including suppliers
- Risk Analyses
- Biological and Clinical data for design validation
- Product identification and traceability
- Traceability of components

Directive 93/42/EEC

Furthermore, Labotect is certified according to the Medical Device Directive (MDD) or Directive 93/42/EEC, which is the most important regulatory instrument for the detection of safety and medical-technical performance of medical devices in the European Economic Area. The key features of Council Directive 93/42 EEC are as follows:

- Essential requirements (13 named in the Directive, including sub clauses they are 84: safety, functionality, design, materials etc.)
- Conformity to harmonized standards
- Classification
- Conformity assessment procedures
- Registration of responsible persons
- Unannounced audits by the Notified Body with min. 2 Auditors for one day (at least once in a three year period)

CE-label

All our products have a CE-label, which claims, that this device conforms to the correspondent EC regulation and all essential requirements are met. The CE-label is mandatory for all medical devices and allows the access to the complete EC market. Moreover, the label stands for:

- Equivalent market clearance in all member states
- Improved patient and customer protection
- Decentralized market control
- Explicit responsibility of the manufacturer
- National law enforcement

Scope of ISO certificates

As many users do not have in focus, the scope of the ISO certificate is defined by the manufacturer before the certification process, and therefore makes a big difference.

The scope of Labotects ISO-certificate:

“Design and development, production, sale and service of sterile medical devices (intrauterine catheters, biopsy needles and sets for ultrasonic aspiration, micropipettes) and medical devices for assisted reproduction and for cell and tissue cultures;
Installation, maintenance and repair of laboratory equipment and active medical products in addition to logistics services”

You may compare this to the scope of competitor’s ISO-certificates.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

EC Certificate

Full Quality Assurance System

Directive 93/42/EEC on Medical Devices (MDD), Annex II excluding (4)
(Devices in Class IIa, IIb or III)

No. G1 18 04 70354 009

Manufacturer:

Labotect Labor-Technik-Göttingen GmbH
Kampweg 12
37124 Rosdorf
GERMANY

Facility(ies):

Labotect Labor-Technik-Göttingen GmbH
Kampweg 12, 37124 Rosdorf, GERMANY

BeLoTec GmbH
Kampweg 12, 37124 Rosdorf, GERMANY

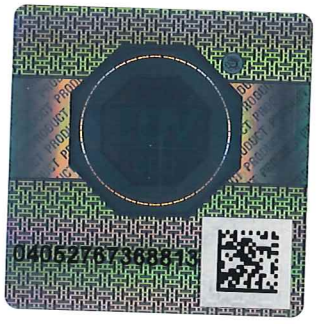
Product Category(ies):

Sterile medical products and medical products for assisted reproduction, consisting of biopsy needles and sets for follicle aspiration, suction pumps, cell and tissue culture systems

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for design, manufacture and final inspection of the respective devices / device categories in accordance with MDD Annex II. This quality assurance system conforms to the requirements of this Directive and is subject to periodical surveillance. For marketing of class III devices an additional Annex II (4) certificate is mandatory. See also notes overleaf.

Report No.: 713132064

Valid from: 2018-07-11
Valid until: 2023-07-10



Date, 2018-07-11

Stefan Preiß

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

EC Certificate

Production Quality Assurance System

Directive 93/42/EEC on Medical Devices (MDD), Annex V
(Devices in class I in sterile conditions, sterilised systems or procedure packs)

No. G2S 17 05 70354 008

Manufacturer:

Labotect Labor-Technik-Göttingen GmbH
Kampweg 12
37124 Rosdorf
GERMANY

Facility(ies):

Labotect Labor-Technik-Göttingen GmbH
Kampweg 12, 37124 Rosdorf, GERMANY

Product Category(ies):

Sterile medical devices for assisted reproduction techniques

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for manufacture in accordance with MDD Annex V. This quality assurance system covers those aspects of manufacture concerned with securing and maintaining sterile conditions of the respective devices / device categories and conforms to the requirements of this Directive. It is subject to periodical surveillance. See also notes overleaf.

Report No.: 713108748

Valid from: 2017-08-28
Valid until: 2022-08-27

Date, 2017-07-07

Stefan Preiß

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

A1 / 04.11

Aspirator 3

Quality – Made in Germany

Precise aspiration pump for follicular puncture

Advantages of Aspirator 3:

- Approved medical device
- Easy handling by electrical pedal
- Long durability
- High reliability
- Very silent
- Constant control of negative pressure
- Safe by overflow protection

Basic equipment:

- Aspirator 3
- Foot pedal
- Mains adapter
- 2 x overflow bottle, 2 x blocking filter and tubing

REF 14193 (without hotplate)

REF 13907 (with integrated hotplate)

Picture shows device with integrated hotplate (optional), heating block and puncture set from Labotect

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Optional accessory:

- Integrated hotplate

  REF 13907 (Aspirator 3 with hotplate)

- Movable support stand

  REF 14287

Technical data:

- According to Directive 93/42/EEC: Class IIa
- EN 10079 conform: high vacuum, low flow
- Negative pressure:
  0 – 500 mmHg ≙ 0 – 666 mbar
- Volume of overflow vessel: 100 ml
- Dimensions:
  ~ 408 x 130 x 250 (w x h x d in mm)
- Weight: ~ 7.6 kg
- Connection for aspiration tubing: Ø 2 to 4 mm
- Power supply: 230 V AC, 50/60 Hz or
  115 V AC, 50/60 Hz, 85 VA
- Safety class: I
- Device type: BF
- Hotplate (optional):
  - Temperature range: 30 °C – 45 °C
  - Heating up time: < 10 min.
- Connection for potential compensation

CE 0123

Rev. 7_08/2019

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Puncture needles and -sets

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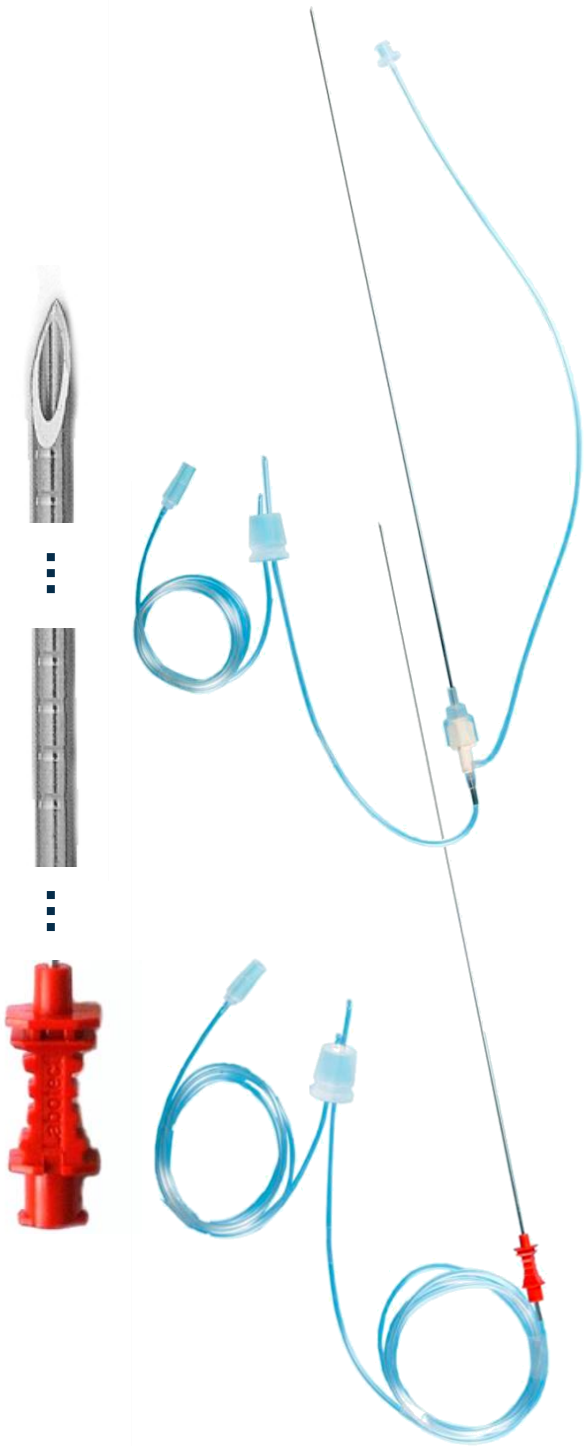

Labotect ovarian biopsy needles and sets are developed for medical use in the field of assisted reproduction

Product features:

- Needles and sets for follicular puncture
- Facet bevel
- Ergonomic handle
- Grinded or corroded echo marking
- Validated ETO-sterilization
- MEA/LAL tested
- Medical device class IIa

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Single lumen puncture sets

with **corroded echo marking**, **without flushing tube**:

REF	Needle length (mm)	Outer diameter of the needle (mm / G)	Plug for tubes with … ml	Length of tubing from needle to plug (mm)	Length of tubing from plug to aspirator (mm)	Luer connection on plug
13441	300	1.4 / 17	14	1300	1000	yes
13444	300	1.4 / 17	26	1300	1000	no
15138	330	1.0 / 19	14	1300	1000	yes
16783	300	1.4 / 17	14	800	800	yes
16785	330	1.0 / 19	14	800	800	yes

with **corroded echo marking and flushing tube**:

REF	Needle length (mm)	Outer diameter of the needle (mm / G)	Plug for tubes with … ml	Length of tubing from needle to plug (mm)	Length of tubing from plug to aspirator (mm)	Luer connection on flushing tube
13443	300	1.4 / 17	14	1300	1000	yes
Length of tubing for flushing: 1000						
16445	300	1.4 / 17	14	750	30	yes
Length of tubing for flushing: 750						

with **grinded echo marking, without flushing tube**:

REF	Needle length (mm)	Outer diameter of the needle (mm / G)	Plug for tubes with … ml	Length of tubing from needle to plug (mm)	Length of tubing from plug to aspirator (mm)	Luer connection on plug
13438	300	1.4 / 17	14	1300	1000	yes
13440	300	1.4 / 17	26	1300	1000	no
13450	300	1.4 / 17	14	500	1800	no
13451*	300	1.4 / 17	14	1300	1000	no
13452*	300	1.4 / 17	14	500	1000	no
13452L*	300	1.4 / 17	14	1000	1000	no

*with firm tubing

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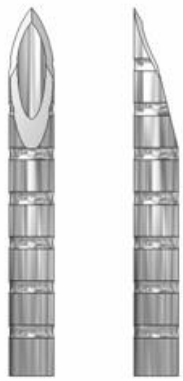
Dr. Friederike Fleitmann

Double lumen puncture sets

with **grinded echo marking and flushing tube**:

REF	Needle length (mm)	Outer diameter of the needle (mm / G)	Plug for tubes with … ml	Length of tubing from needle to plug (mm)	Length of tubing from plug to aspirator (mm)	Luer connection on flushing tube
13463	330	1.6 / 16	14	390	1000	yes
Length of tubing for flushing: 350 mm						
16784	330	1.6 / 16	14	800	800	yes
Length of tubing for flushing: 800 mm						



Grinded echo marking

Corroded echo marking

CE 0123

Rev. 11_09/2020

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Court of register: Göttingen: HRB 1394
WEEE-Reg-No: DE 86039820
Managing director:
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Dr. Friederike Fleitmann

Labo C-Top

Quality – Made in Germany

Table top incubator for up to date, individual cell cultivation

Advantages of Labo C-Top:

- Approved medical device
- Two independent and separate incubation chambers
- Parameters (gas flow, temperature) can be adjusted individually
- Optimized gassing with premixed gas
- Optimized temperature distribution by double heated chamber from top and bottom
- Reliable humidity system
- Current value of relative humidity is displayed (% rH)
- Very fast heating up and recovery times
- Convenient glass control panel
- Space saving

Technical data:

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

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 / 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

REF 14876

Additional equipment:

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

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Dr. Friederike Fleitmann

Product features:

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):
  - 4 x IVF 4-well dishes 66 x 66 mm
  - 4 x Petri dishes Ø 60 mm
  - 10 x 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+

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Dr. Friederike Fleitmann

For Labo C-Top we offer the following options:

Labo C-Top with lockable lids:

- Higher security for your cultures
- Limited access to the cultures

REF 15070

Labo C-Top with second gas inlet:

- Every chamber to be gassed with different mixtures at the same time!

REF 15069

CE 0123

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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

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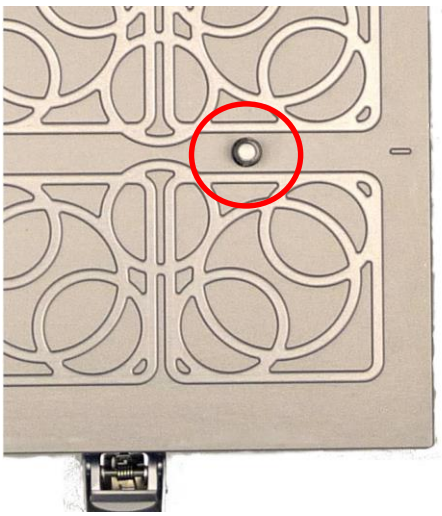
Product features of Labo C-Top with SAFE Sens® pH monitoring:

- 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 qc² 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® sv²-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

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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® qc² alignment tool on TrakPod™'s sv² 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 sv²-sensor (10 pieces) — REF 16370

SAFE Sens® qc² alignment tool — REF 16371

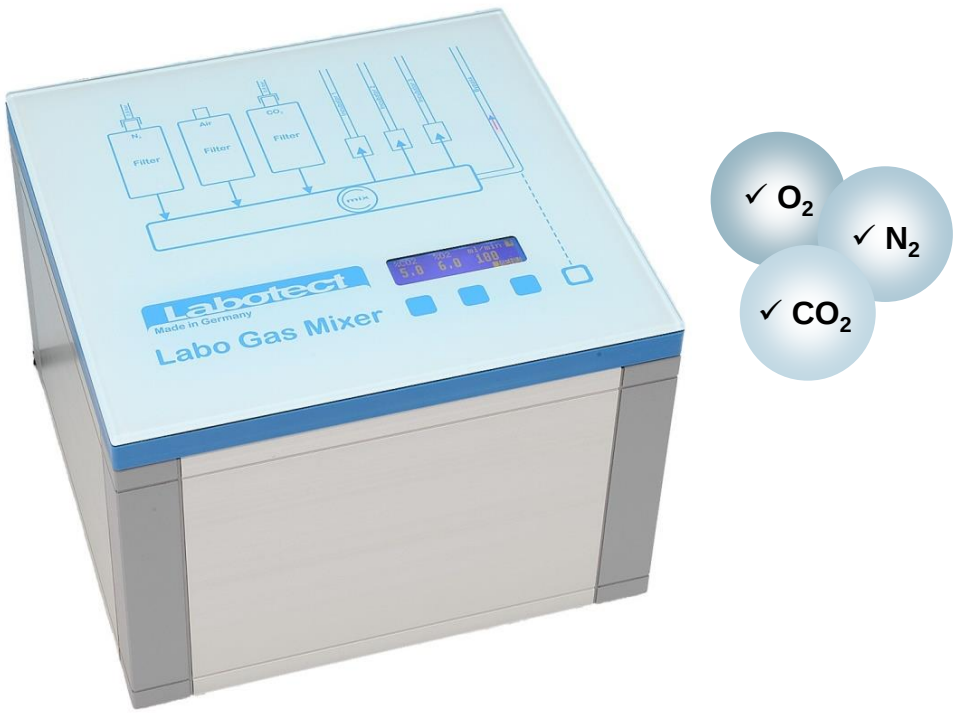
The SAFE Sens® pH-monitoring technology is also available for large format incubators.

CE 0123

Rev. 1_02/2020

Labo Gas Mixer

Quality – Made in Germany



Features:

- Provides mixed gas (CO_2, N_2 and atmospheric oxygen) for incubators
- Individual setting of CO_2 and O_2 concentration
- Connection for CO_2 & N_2 gas bottles, O_2 will be retrieved from ambient air
- Integrated In-Line-Filters (exchangeable)
- Mixed gas supply for up to three Labo C-Tops
- Bypass for other external devices:
  - Mixed gas supply of incubation chambers used with microscopes
  - External control of CO_2 concentation by use of Labotect InControl
- Anytime adjustable concentration of required mixture of gases
- Convenient glass control panel

REF 15583

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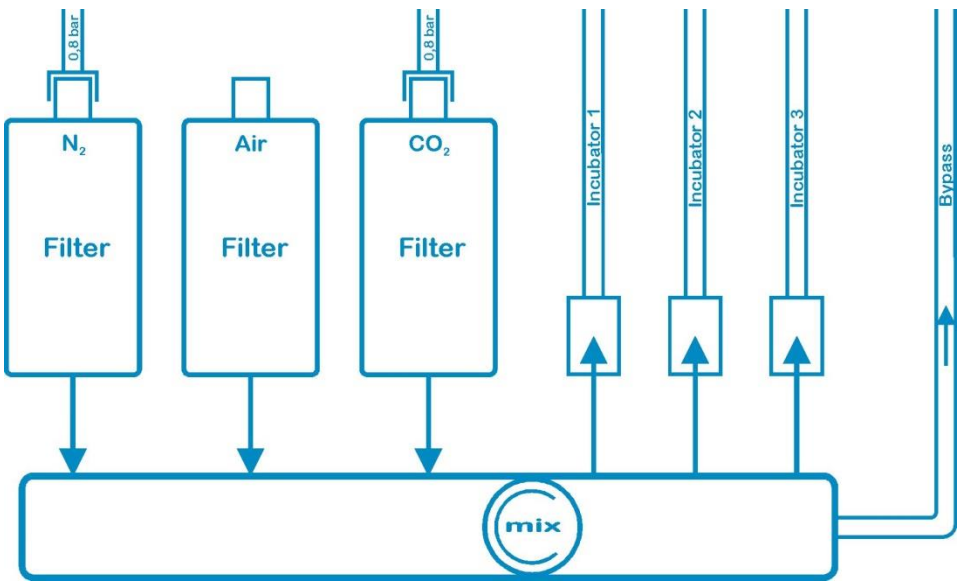
Technical data:

- Dimensions: 21.0 x 27.5 x 15.5 cm (w x d x h) incl. filter
- CO_2 control:
  - Range 0 – 10 % / stability ± 0.3 % CO_2
  - Dual beam IR sensor
- O_2 control < 21 %:
  - Range 5 – 21 % / stability ± 0.3 % O_2
  - Nernst cell
- Removable gas quantity max. 1000 ml/min
- Pressure range gas port: 0.8 – 1.5 bar
- Gas flow bypass: 50 – 300 ml/min
- RS485 interface for connection to *LaboDat+*
- Remote alarm
- Power supply: 110 – 240 V AC, 50/60 Hz, 45 W
- Safety class I



CE

Rev. 6_02/2020

Labo Gas Regulator

Quality – Made in Germany

For two different adjustable gas outlet pressures out of one gas supply

Technical data:

- Outer dimensions:
  191 x 88 x 208 mm (w x d x h)
- Weight: 2.2 kg
- Gas inlet pressure: max. 3.0 bar
- Gas outlet pressure: 0 – 2.5 bar
- Use with CO_2, N_2
- Wall mounting possible (opening at the back)

REF 15971

Characteristics:

- Necessary for the fluctuation-free operation of the Labo Gas Mixer (continuous gas consumption) if the same gas source is used to provide gas for CO_2 incubators (pulsed gas consumption)
- Adapted for gas supply by gas bottle with gas pressure reducer or facility installed gas supply
- Suitable for operation in various environments where different gas pressures need to be generated from one supply source

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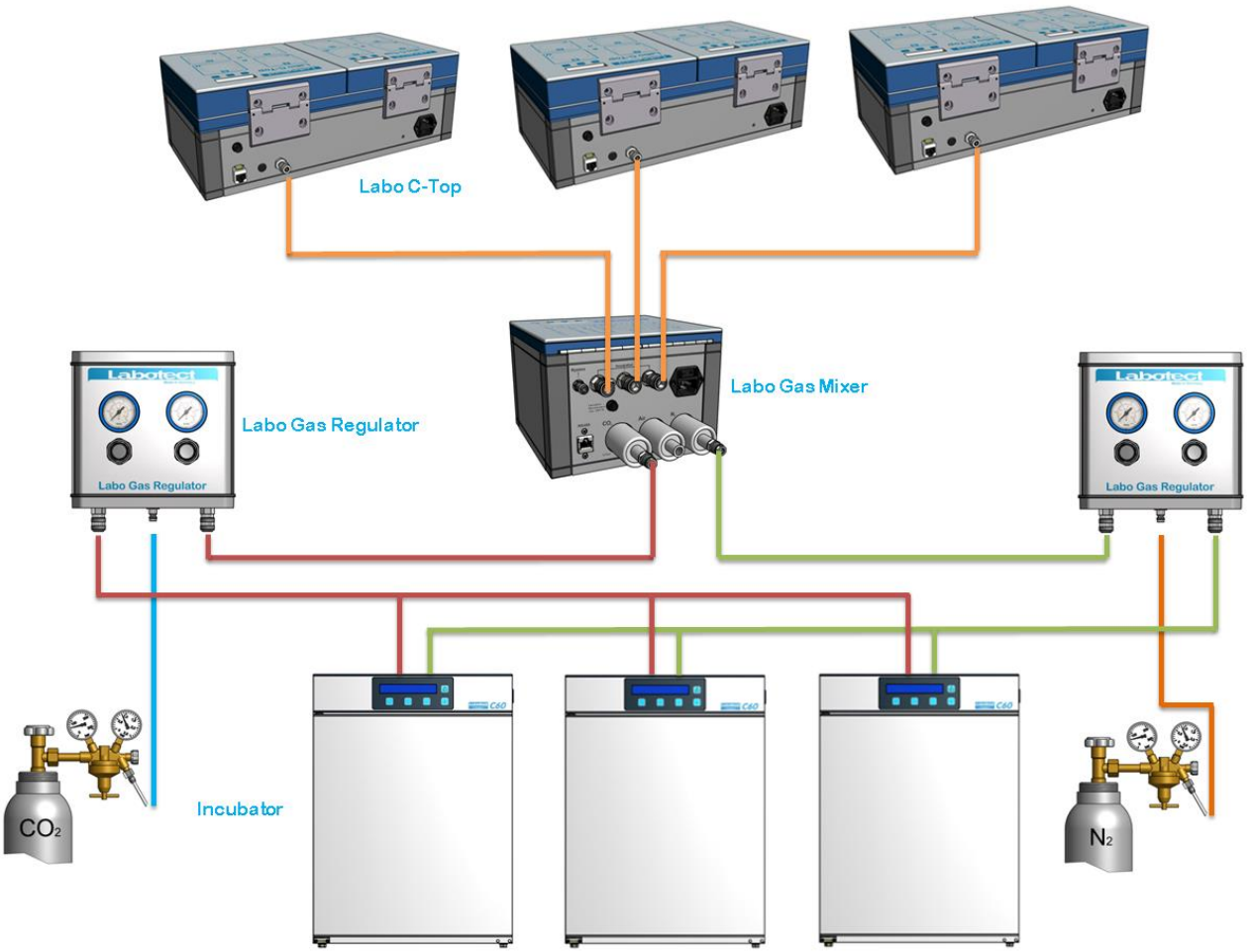

Picture: Application example of Labo Gas Regulator with Labo Gas Mixer, 3 x Labo C-Top and 3 x C60 incubators

Rev. 3_02/2020

CO_2 Incubator C16

Quality – Made in Germany

Your first choice for excellent cell cultivation

REF 14209 **(without O_2 control)**

REF 14452 **(with O_2 control)**

Small incubator with an inner volume of 16 liters

Advantages of C16:

- Approved medical device
- CO_2 sensor:
  - Dual beam infrared sensor
  - Very precise measurement
  - Very short recovery times
  - Long-term stable
- Direct heating:
  - Independent over-all heating of inner walls and door
  - Homogeneous temperature distribution in the interior
  - Very short recovery times
- Very compact and space saving construction
- Optional:
  - O_2 control
  - PC software LaboDat+

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Product features:

Interior:
- Electro-polished stainless steel with coved corners
- Shelves and ductwork easily removable for cleaning purposes

Temperature:
- Panel heated interior chamber and door

Humidity supply:
- Via an internal water reservoir

CO_2:
- Dual beam infrared sensor
- Measurements independent from temperature and humidity

Very short recovery times:
- For all adjustable parameters through optimized microprocessor control

Easy handling:
- Menu-driven
- Backlit LCD display
- Membrane keypad

Diagnostic system:
- Optical and acoustical alarm if set point deviation or sensor defect occurs
- Door monitoring
- Air monitoring
- Hardware self-test
- Remote alarm

Options:
- O_2 control: connection for N_2

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

Technical data:

Exterior:
- Dimensions 290 x 330 x 480 mm (w x d x h)

Interior:
- Volume 16 l
- Electro-polished stainless steel
- 2 shelves 205 x 230 mm (w x d)

Temperature:
- Panel heated interior chamber and door
- Range 27 °C – 42 °C starting 5 °C above ambient temperature
- Stability / uniformity: ± 0.1 °C / 0.3 °C

CO_2 control:
- Dual beam infrared sensor
- Range 0 – 10 % CO_2
- Stability 0.1 % CO_2

O_2 control < 21 % (optional):
- Measurement with galvanic sensor
- Connection of N_2
- Range 1 – 21 % O_2

Connection values:
- 110 – 230 V AC, 50/60 Hz, 60 W
- Inlet 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

CE 0123

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CO_2 Incubator C60

Quality – Made in Germany

Your first choice for excellent cell cultivation

Incubator with 60 liter chamber capacity

REF 14093

Advantages of C60:

- Approved medical device
- Active sterile humidity:
  - External water reservoir
  - Distilled water is vaporized at 120 °C
  - Minimized risk of contamination
  - Humidity sensor (rH)
  - Very fast recovery
- CO_2-sensor:
  - Dual beam infrared sensor
  - Very precise measurement
  - Very fast recovery
  - Long-term stable
- Heating:
  - Independent six-sided direct heating
  - Homogeneous temperature distribution in incubation chamber
  - Very fast recovery
- Optional:
  - O_2-control
  - Subdivided inner glass door with 4 small doors
  - Lockable front door
  - Access port
  - PC software LaboDat+

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Product features:

Interior chamber:
- Electro-polished stainless steel with rounded corners
- No tools required for quick assembly and disassembly of interior components

Temperature:
- Panel heated chamber and door
- Intelligent temperature control system avoids condensation in inner chamber

Active sterile Humidity supply:
- External water supply container

CO_2-control:
- Dual beam infrared sensor
- Measurement independent from temperature and humidity

Fast recovery:
- For all adjustable parameters through optimized microprocessor control

Easy handling:
- Menu guided
- Large, backlit LCD
- Foil keyboard

Diagnostic system:
- Visual and acoustic alarm if set point deviation or sensor defect occurs
- Door monitoring
- Remote alarm

Options:
- O_2-control: connection of N_2
- Subdivided inner glass door with 4 small doors
- Lockable front door
- Access port ∅ 30 mm

Interfaces:
- Alarm contact (potential free)
- RS485 interface for connection of optional available PC software LaboDat+

Technical data:

Exterior chamber:
- Dimensions 510 x 540 x 720 mm (w x d x h)

Interior chamber:
- Chamber volume 60 l
- Electro-polished stainless steel
- Shelves height adjustable

Temperature:
- Panel heated interior chamber and door
- Adjustable range 27-42 °C starting 5 °C above ambient temperature
- Stability / uniformity: ±0.1 °C / ±0.3 °C
- Over-temperature alarm: 32-47 °C

CO_2-control:
- Dual beam infrared sensor
- Adjustable range 0-10 % CO_2
- Stability ±0.1 % CO_2

O_2-control < 21 % (optional):
- Measurement with galvanic sensor
- Connection of N_2
- Adjustable range 1-21 % O_2

Humidity:
- Active sterile humidity generated by vaporization module at 120 °C
- Measuring range 0-98 % rH, adjustable range 60-95 % rH

Supply:
- 230 V AC, 50/60 Hz or 115 V AC, 50/60 Hz, 160 W
- Inlet pressure 0.8 bar
- Ambient temperature 18-30 °C

Classification:
- Safety class I
- Class IIa for all usage according to EC-Directive 93/42/EEC
- Conform to EN 61010

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Accessories & options:

Subdivided inner glass door – for even faster recovery

- 4 small inner doors
- Even faster recovery of all parameters
- Even lower gas consumption
- Easy cleaning of inner doors

Access port

- ∅ 30 mm
- Located in the upper right corner of the incubation chamber
- Sealing plug in scope of supply

Lockable front door - higher security for your cultures

Stacking kit – for safe positioning

- Safe, easy and space-saving positioning of the devices in the laboratory

REF	10789	High frame stand, 105 cm height, white coated steel

Our C60 incubators are available with O_2-control (O_2 < 21 %)

CE 0123 Rev. 11_02/2018

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Recommended Accessories for active sterile humidity supply:

AEROpart® HUM

- sterile and pyrogen-free water 1000 ml

REF 16150

Magnetic hook

- diameter 48 mm

REF 15595

Intrafix® Air (B. Braun)

- I.V. administration set tubing length 150 cm

REF 15417

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CO_2 Incubator C200

Quality – Made in Germany

Your first choice for excellent cell cultivation

Incubator with 200 liter chamber capacity

REF 13946

Advantages of C200:

- Approved medical device
- Active sterile humidity:
  - External water reservoir
  - Distilled water is vaporized at 120 °C
  - Minimized risk of contamination
  - Humidity sensor (rH)
  - Very fast recovery
- CO_2-sensor:
  - Dual beam infrared sensor
  - Very precise measurement
  - Very fast recovery
  - Long-term stable
- Direct heating:
  - Independent six-sided direct heating
  - Homogeneous temperature distribution in incubation chamber
  - Very fast recovery
- Optional:
  - O_2-control
  - Subdivided inner glass door with 6 small doors
  - Lockable front door
  - Access port
  - PC software LaboDat+

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37124 Rosdorf
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Labotect Labor-Technik-Göttingen GmbH
Postfach 200212
37087 Göttingen
Germany

Phone +49 551 50 50 10
Fax +49 551 50 50 111
Email: info@labotect.com
Web: www.labotect.com

Court of register: Göttingen: HRB 1394
WEEE-Reg-No: DE 86039820
Managing director:
Delia Schinkel-Fleitmann
Dr. Friederike Fleitmann

Product features:

Interior chamber:
- Electro-polished stainless steel with rounded corners
- No tools required for quick disassembly and assembly of interior components

Temperature:
- Panel heated chamber and door
- Intelligent temperature control system avoids condensation in inner chamber

Active sterile Humidity supply:
- External water supply container

CO_2-control:
- Dual beam infrared sensor
- Measurement independent from temperature and humidity

Fast recovery :
- For all adjustable parameters through optimized microprocessor control

Easy handling:
- Menu guided
- Large, backlit LCD
- Foil keyboard

Diagnostic system:
- Visual and acoustic alarm if set point deviation or sensor defect occurs
- Door monitoring
- Remote alarm

Options:
- O_2-control: connection of N_2
- Subdivided inner glass door with 6 small doors
- Lockable front door
- Access port ∅ 30 mm

Interfaces:
- Alarm contact (potential free)
- RS485 interface for connection of optional available PC software LaboDat+

Technical data:

Exterior chamber:
- Dimensions 680 x 690 x 930 mm (w x d x h)

Interior chamber:
- Chamber volume 200 l
- Electro-polished stainless steel
- Shelves height adjustable

Temperature:
- Panel heated interior chamber and door
- Adjustable range 27-42 °C starting 5 °C above ambient temperature
- Stability / uniformity: ±0.1 °C / ±0.3 °C
- Over-temperature alarm: 32-47 °C

CO_2-control:
- Dual beam infrared sensor
- Adjustable range 0-10 % CO_2
- Stability ±0.1 % CO_2

O_2-control < 21 % (optional):
- Measurement with galvanic sensor
- Connection of N_2
- Adjustable range 1-21 % O_2

Humidity:
- Active sterile humidity generated by vaporization module at 120 °C
- Measuring range 0-98 % rH, adjustable range 60-95 % rH

Supply:
- 230 V AC, 50/60 Hz or 115 V AC, 50/60 Hz, 200 W
- Inlet pressure 0.8 bar
- Ambient temperature 18-30 °C

Classification:
- Safety class I
- Class IIa for all usage according to EC-Directive 93/42/EEC
- Conform to EN 61010

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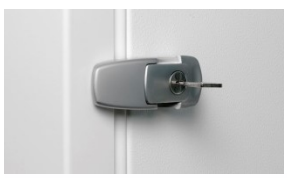
Accessories & options:

Subdivided inner glass door - for even faster recovery

- 6 small inner doors
- Even faster recovery of all parameters
- Even lower gas consumption
- Easy cleaning of inner doors
- Scope of supply
  - 6 split shelves 500 x 222 mm (d x w) each
  - 3 shelves 502 x 481 mm (d x w) each

Access port

- ∅ 30 mm
- Located in the upper left corner inside the incubation chamber
- Sealing plug in scope of supply



Lockable front door - higher security for your cultures

Stacking kit – for safe positioning

- Safe, easy and space-saving positioning of the devices in the laboratory

REF 10649 Underframe, 15 cm height, white coated steel

REF 10681 High frame stand, 115 cm height, white coated steel

Roller base

- For mobile positioning of the devices in the laboratory, on lockable wheels, preventing roller base movement

REF 14411 Roller base, 15 cm height, on lockable wheels

Our C200 incubators are available with O_2-control (O_2 < 21 %)

CE 0123 Rev. 13_02/2018

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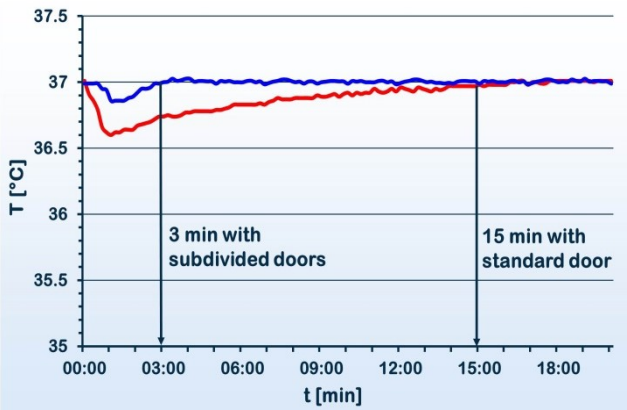
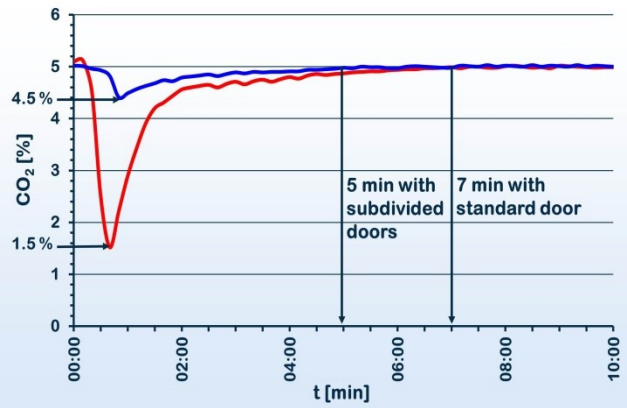
Recovery rates following 30 s door opening:

Subdivided inner door
Standard inner door

Temperature



CO_2



Relative Humidity

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Recommended Accessories for active sterile humidity supply:

AEROpart® HUM

- sterile and pyrogen-free water 1000 ml

REF 16150

Magnetic hook

- diameter 48 mm

REF 15595

Intrafix® Air (B. Braun)

- I.V. administration set tubing length 150 cm

REF 15417

CO_2 Incubator Labo C201

Quality – Made in Germany

Your first choice for excellent cell cultivation with optional UV decontamination

Incubator with 200 liter chamber capacity

REF 15245

Advantages of Labo C201:

- 7“ colour touch screen
- UV decontamination (optional)
- Particle filter (P3) within airflow
- Graphical display of recorded parameters of the past 2 h or 24 h (T, CO_2, rH, and O_2)
- Access control via number code (optional)
- RS485 or ethernet interface
- Active sterile humidity supply:
  - External water reservoir
  - Distilled water is vaporized at 120 °C
  - Minimized risk of contamination
  - Humidity sensor
  - Very fast recovery
- CO_2-sensor:
  - Dual beam infrared sensor
  - Very precise measurement
  - Very fast recovery
  - Long-term stable
- Direct heating:
  - Independent six-sided direct heating
  - Homogeneous temperature distribution in incubation chamber
  - Very fast recovery
- Further options:
  - O_2-control
  - Subdivided inner glass door with 6 small doors
  - PC software LaboDat+

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Dr. Friederike Fleitmann

Product features:

Interior:
- Electro-polished stainless steel with rounded corners
- Shelves and ductwork easily removable for cleaning
- Access port ∅ 30 mm

Temperature:
- Intelligent temperature control system avoids condensation in inner chamber

Humidity supply:
- Active sterile humidity via external water supply container

CO_2-control:
- Dual beam infrared sensor
- Measurement independent from temperature and humidity

Fast recovery:
- For all adjustable parameters

Easy handling:
- Menu guided 7“ colour touch display
- Graphical display of recorded parameters of the past 2 h or 24 h

Diagnostic system:
- Visual and acoustic alarm if set point deviation or sensor defect occurs
- Door monitoring
- Remote alarm

Options:
- O_2-control: connection of N_2
- Subdivided inner glass door with 6 small doors
- UV decontamination routine
- Access control via numerical code
- PC software LaboDat+

Interfaces:
- Alarm contact (potential free)
- RS485 or Ethernet interface

Technical data:

Exterior:
- Dimensions 720 x 700 x 870 mm (w x d x h)

Interior:
- Chamber volume 200 l
- Electro-polished stainless steel
- Shelves height adjustable

Temperature:
- Panel heated interior chamber and door
- Range 27-42 °C starting 5 °C above ambient temperature
- Stability / uniformity: ±0.1 °C / ±0.3 °C
- Over-temperature alarm: 32-47 °C

CO_2-control:
- Dual beam infrared sensor
- Adjustable range 0-10 % CO_2
- Stability ±0.1 % CO_2

O_2-control < 21 % (optional):
- Measurement with galvanic sensor
- Connection of N_2
- Adjustable range 1-21 % O_2

Humidity:
- Active sterile humidity generated by vaporization module at 120 °C
- Measuring range 0-98 % rH, adjustment range 60-95 % rH

Access port:
- Ø 30 mm

Supply:
- 230 V AC, 50/60 Hz or 115 V AC, 50/60 Hz, 250 VA
- Inlet pressure 0.8 bar
- Ambient temperature 18-30 °C

Classification:
- Safety class I
- Conform to EN 61010

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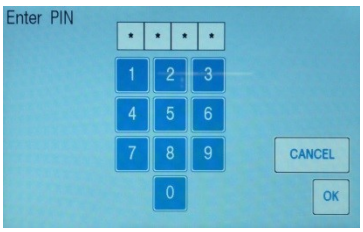
Accessories & options:

Subdivided inner glass door - for even faster recovery

- 6 small inner doors
- Even faster recovery of all parameters
- Even lower gas consumption
- Easy cleaning of inner doors
- Scope of supply
  - 6 split shelves 474 x 222 mm (d x w) each
  - 3 shelves each 485 x 454 mm (d x w) each



Access control - higher security for your cultures

- Access control via touch screen
- Mechanical unlocking in case of power failure (emergency release)

Our Labo C201 incubators are available with O_2-control (O_2 < 21 %)

UV decontamination

- Individual start by user
- Duration: 180 minutes
- Short-wave UV radiation (UV-C radiation, < 280 nm)
- UV mode is terminated immediately when the door is openened

Each Labotect CO_2 incubator passes an individual cell-growth test prior to delivery!

CE

Rev. 4_02/2018

Accessories & options:

Stacking kit - for safe positioning

- Safe, easy and space-saving positioning of the devices in the laboratory

REF 10649 Floor stand, 15 cm height, white coated steel

REF 10681 High frame stand, 115 cm height, white coated steel

Roller base

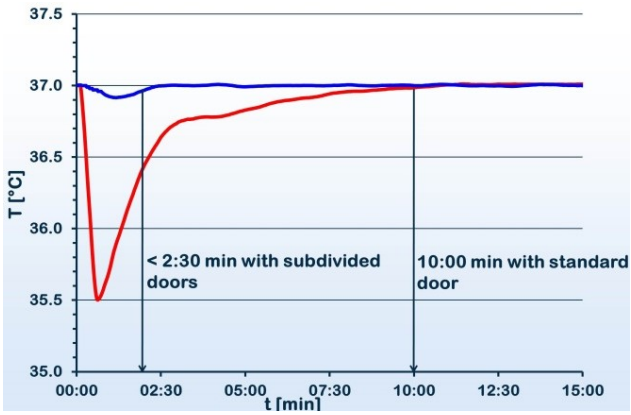
- For mobile positioning of the devices in the laboratory, on lockable wheels, preventing roller base movement

REF 14411 Roller base, 15 cm height, on lockable wheels

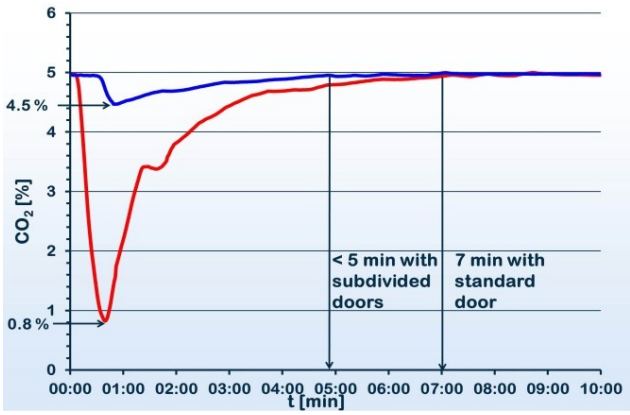
Recovery rates following 30 s door opening:

Subdivided inner door
Standard inner door

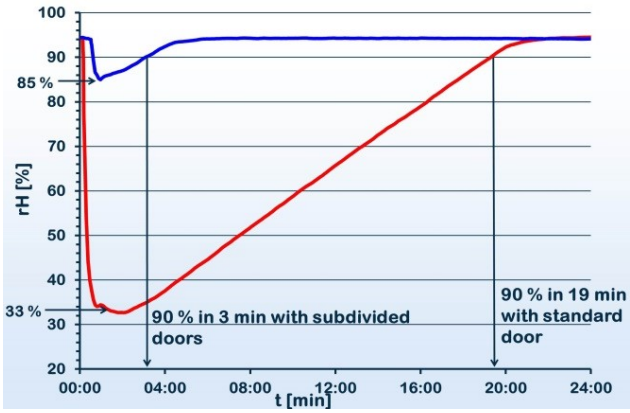
Temperature



CO_2



Relative Humidity



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AEROpart® HUM

- sterile and pyrogen-free water 1000 ml

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Magnetic hook

- diameter 48 mm

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Intrafix® Air (B. Braun)

- I.V. administration set tubing length 150 cm

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SAFE Sens® pH monitoring

SAFE Sens® TrakStation™ with USB-Hub

Continuous pH monitoring of media during embryo culture within large format incubators

Advantages of the SAFE Sens® pH monitoring system:

- Independent, non-invasive monitoring of pH-value throughout the entire embryo cultivation
- Real time data 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
- Monitoring of up to 8 chambers or incubators with one TrakStation™
- Installation in ≤ 10 minutes
- Intuitive and easy to use; easy to install by user

SAFE Sens® sv²-sensor in large format incubator

SAFE Sens® TrakPod™

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Product features:

- 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 without staff intervention and door opening
- No petri-dish used (non-invasive)
- No costly, time consuming calibration required:
    - One qc² alignment tool needed per laboratory
    - Automatically adjusts fluorescent signal to restore to factory settings
    - No outside calibration services required, no incubator down time

SAFE Sens® TrakPod™ installed in 200 l incubator Labo C201 via access port

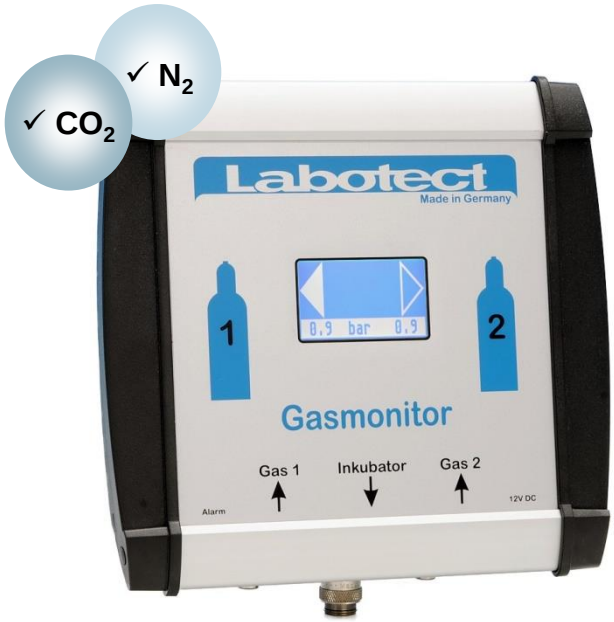
SAFE Sens® TrakStation™	REF	16374
SAFE Sens® TrakPod™	REF	16457
SAFE Sens® sterile sv²-sensor (10 pieces) *Sv²-sensors obtained from Labotect will only work with Labotect incubators*	REF	16370
SAFE Sens® qc² alignment tool	REF	16371
Benchtop incubator Labo C-Top with integrated SAFE Sens® pH monitoring	REF	16377

SAFE Sens® qc² alignment tool on TrakPod™'s sv²-sensor in benchtop incubator Labo C-Top

Rev. 0_03/2017

Gasmonitor

Quality – Made in Germany



Technical data:

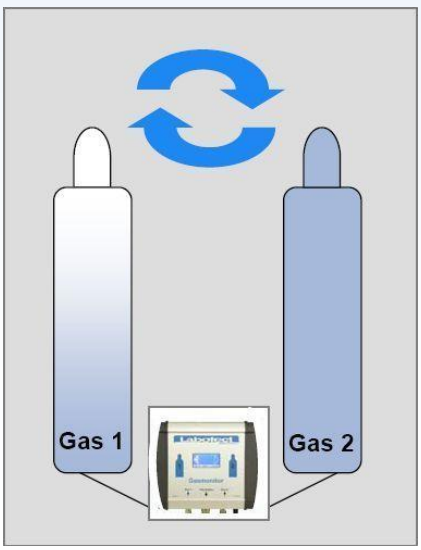
- Dimensions: 195 x 53 x 181 mm (w x d x h)
- Pressure range: 0.8 to max. 1.5 bar
- Alarm threshold and LOW switching point: P < 0.3 bar
- Alarm threshold HIGH: P ≥ 2.0 bar
- Maximum permitted connection pressure: P = 2 bar
- Remote alarm
- RS485 interface for data logging with optional available PC software LaboDat+
- Power supply: 12 V by Plug-in power supply 100 – 240 V AC, 60 W

REF 14782

Automatic changeover unit

Features:

- Gas monitoring for CO_2, N_2 and mixed gas (max. 21% O_2)
- Monitors the gas supply and switches over automatically to second cylinder if supply is exhausted
- Ensures continuous gas supply without interruption
- Monitoring of gas pressures
- Optical and acoustical alarm if pressure is too low or too high
- Graphic display with touch screen



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Scope of supply:

- Gasmonitor
- Quick couplers and further connectors
- Holder for installation at the wall
- Mains adapter
- Magnetic signs for labeling of gas cylinders

Optional accessory:

Support stand for Gasmonitor

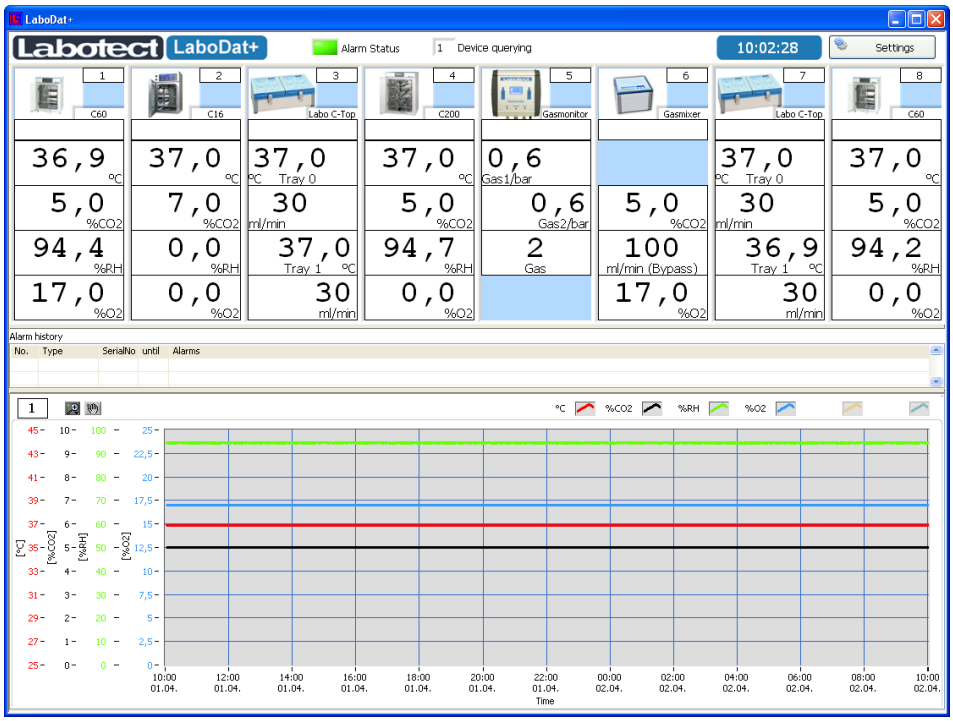
REF 14943

CE

Rev. 8_02/2020

LaboDat+

Quality – Made in Germany



Software for documentation of incubation processes

Figure: Main window LaboDat+

Features:

- Display of actual and stored values
- Protected record of all measurements and alarms
- Visualization in diagrams or numerical values
- Compatible to Labotect devices with RS485 interface*
- Data export possible
- Language selection English / German
- Compatible up to Windows 10

Hardware:

- USB interface converter

REF 15125

***depending on software version of the main board**

Advantages:

- Documented record of incubation conditions
- Connection for up to 16 devices
- USB interface
- Report generation
- Data storage on server possible

Compatible devices:

➔ C16
➔ C60
➔ C200
➔ Labo C201
➔ Labo C-Top
➔ Labo Gas Mixer
➔ Gasmonitor

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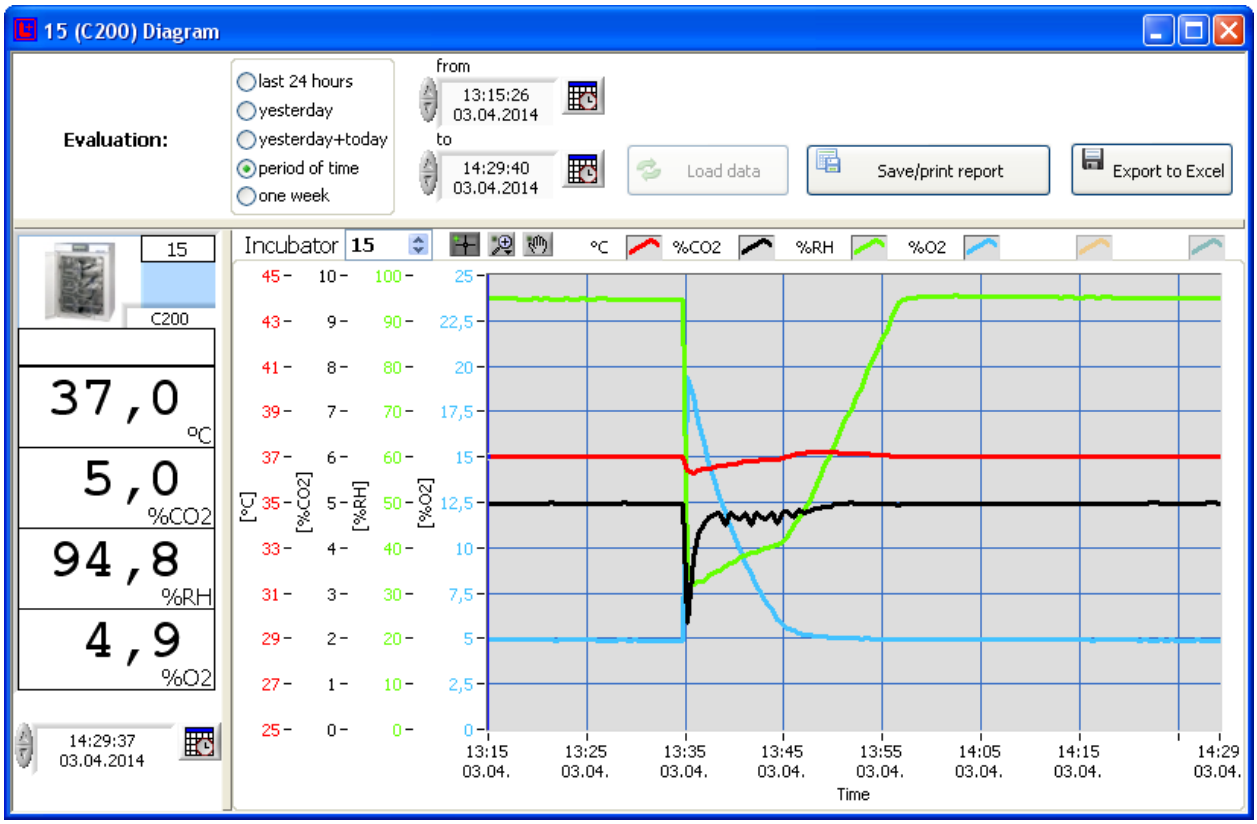

Figure: LaboDat+ evaluation of single device

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Fermacidal D2®

- **Without alcohol**
- **Fast acting**
- **MEA and HSSA tested**

Product:

Spray bottle 50 ml	REF	13045
Spray bottle 250 ml	REF	13048
Bottle (screw cap) 500 ml	REF	15213
Spray bottle 1 l	REF	13044
Canister 5 l	REF	13043
Canister 10 l	REF	15101
Disinfectant wipes, 120 pieces	REF	13046

Advantages:

- Ready-to-use disinfectant for surfaces and instruments
- Cleaning effect
- Long-term effective
- Smell-removal and neutralisation of odour-causing bacteria
- Also suitable for disinfection of CO_2 incubators

Microbiological efficancy:

- Bactericidal, e.g.: *Salmonella, Mycobacterium tuberculosis*
- Fungicidal, e.g.: *Trichophyton mentagrophytes*
- Selective virucidal, e.g.: *Hepatitis B, HIV, Rotavirus, Influenza A, Corona viruses*

(as specified by the manufacturer)

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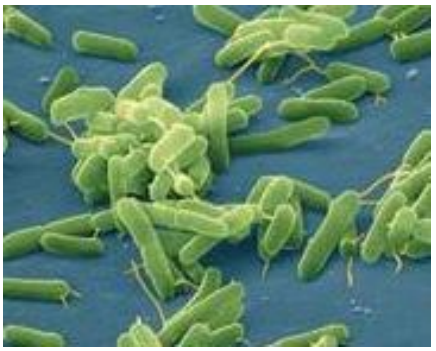
Disinfectant

Features:

- Quaternary ammonium compounds
- Without alcohol and aldehyde
- Odourless
- Non-volatile
- Does not irritate the skin
- Does not stain
- Dissolves dried blood stains
- Good compatibility of materials like metal, rubber and plastic
- VAH listet and BauA registered

(as specified by the manufacturer)



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Manoferm®

Product:

Spray bottle 50 ml	REF	17665
Spray bottle 250 ml	REF	14684
Bottle 500 ml	REF	15648
Bottle with dosing head 500ml	REF	17708
Spray bottle 1 l	REF	17664
Canister 5 l	REF	17709
Canister 10 l	REF	17710

Advantages:

- Ready-to-use gentle disinfectant for hands and skin hygiene
- Free of alcohol and aldehydes
- Neutralisation of odour-producing bacteria
- Does not cause skin irritation, also suitable for sensitive skin

Microbiological efficiency:

- Bactericidal, e.g.: *E. Coli*
- Fungicidal, e.g.: *Candida*
- Effective against influenza and corona viruses, among others

(as specified by the manufacturer)

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Disinfectant

Features:

- Quaternary ammonium compounds
- Free of alcohol and aldehydes
- Odourless
- Non-volatile
- Does not irritate the skin
- Also suitable for sensitive skin with frequent use
- Leaves no stains
- BauA registered

(as specified by the manufacturer)

CE

Rev. 0_05/2020

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Court of register: Göttingen: HRB 1394
WEEE-Reg-No: DE 86039820
Managing director:
Delia Schinkel-Fleitmann
Dr. Friederike Fleitmann

Icepur®

- **Disinfectant cleaner concentrate**
- **Free of alcohol**
- **Free of aldehydes**

Product:

Grip bottle 2 l	REF	15422
Canister 10 l	REF	15421

Advantages:

- For combined wipe disinfection and cleaning of surfaces and inventory
- For mask disinfection and cleaning in case of epidemics as well
- Free of any toxic or volatile components
- Protein and fat dissolving, neutralizes odour-producing bacteria

Microbiological efficiency:

- Bactericidal,
  e.g.: *Salmonella, Mycobacterium tuberculosis*
- Fingicidal,
  e.g.: *Trichophyton mentagrophytes*
- Selectively virucidal,
  e.g.: Hepatitis B, HIV, Rotavirus

(as specified by the manufacturer)

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Amtsgericht Göttingen: HRB 1394
WEEE-Reg-Nr.: DE 86039820
Geschäftsführerinnen:
Delia Schinkel-Fleitmann
Dr. Friederike Fleitmann

Disinfectant

Features:

- Quaternary ammonium compounds
- Without alcohol and aldehydes
- Odourless, neutralizes odour-producing bacteria
- Non-volatile
- Cleans and disinfects in one step
- Dissolves dried blood stains
- Leaves no stains
- Protein and fat dissolving
- Good compatibility with metals, rubber and plastics
- BauA registered

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Incubator-Filter-Box

Quality – Made in Germany

Technical data:

- Composite filter is preinstalled = standard filter (to be replaced every 3 months)
- Operation under regular incubator atmosphere
- Dimensions: diameter 10 cm / height 12 cm
- Weight: approx. 600 g (when using composite filter)
- Switches on automatically for 5 - 6 minutes; starts again after a break of 40 minutes

REF 14526

Seperate unit for filtering the atmosphere in incubators

Features:

- Suitable for all cell culture incubators with minimum 60 l volume
- Eliminates particles, VOCs and other impurities in a very short time
- External controller outside the incubator
- No negative influence on the atmosphere inside the incubator
- Flexible use

Optional filters:

Gas filter A1	REF	14548
Composite filter A2-P3D	REF	15415

Control unit Incubator-Filter-Box

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Gas In-Line-Filter

Quality – Made in Germany

Provides effective protection for your embryos and cells
Removes VOCs and particles from gas before it enters your incubator

Advantages:

- Can be used with any CO_2 incubator
- For CO_2, N_2, and premixed gas (≤ 21 % O_2)
- Connection for quick coupling - fast and safe installation
- Removes volatile organic compounds (VOCs) from gas
- Additional PE-layer removes particulates

Characteristics:

- Activated carbon filter formed by sintering
- Removes VOCs (e.g. oil vapours, aldehydes, furans, odorous substances, aromatic compounds, ketones, pyridines, and CHC) from gases entering the incubator
- Excellent adsorption capacity and very low pressure loss
- For pressures up to 2 bar (Labotect CO_2 incubators: 0.8 bar)
- For tubing 6/4x1 (other diameters upon request)
- For best results, we recommend to change the filter every 3 months (the maximum recommended useful life is up to 6 months)

REF	16586	Gas In-Line-Filter with integrated connection for quick coupling
REF	16587	Coupling body for tubing 6/4x1 (other diameters upon request)

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InControl 1050

Quality – Made in Germany

Independent measuring device for control and evaluation of CO_2, temperature and O_2

Features:

- Accurate measuring of CO_2, temperature and optional O_2
- Single or continuous measurement in arbitrary intervals
- Measurement and documentation of multiple incubators
- Documentation of measurements with date, time and incubator number
- Easy menu navigation
- Continuous operation by Li-Ion battery or mains adapter possible
- Data-Download via USB; PC software DataVISUAL`19 incl.
- Compatible with Windows up to and including Windows 10

Scope of supply:

- InControl 1050 including Transport case
- Mains adapter
- Tubing, adapter and condensation trap
- PC software: DataVISUAL'19 (on USB-Stick)
- USB data cable

REF 14709

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Technical data

Case:
- Plastic (ABS)

CO_2 measurement:
- Dual beam IR sensor
- Range: 0 – 10 % CO_2
- Display definition: 0.1 % CO_2
- Accuracy:
  - 0 – 6 % CO_2 ± 0.2 % CO_2
  - 6 – 10 % CO_2 ± 0.3 % CO_2
- Sample volume per measurement (2 min.): approx. 0.8 l

Temperatur measurement:
- Platinum temperature sensor PT1000
- Range: 0 – 100 °C
- Display definition: 0.1 °C
- Accuracy:
  - 20 – 50 °C ± 0.2 °C
  - 50 – 100 °C ± 0.3 °C

O_2 measurement:
- Galvanic sensor
- Range: 0 – 100 % O_2
- Display definition: 0.1 % O_2
- O_2 sensor not included

Data logger:
- Recording of measurement logging in arbitrary intervals
- Output of measurements via:
  - backlit LCD
  - PC software Data Visual'19 (via USB data cable)
- Interval for data logging: 15 – 120 min. adjustable in steps of 5 minutes
- storage of max. 1008 measurements with date and time

Power supply:
- Rechargeable Li-Ion battery
- Power supply 100 – 240 V AC, 5 V DC 1.5 A

Operation time:
- Use of rechargeable battery approx. 4 h
- Time to recharge battery approx. 4 h

Optional accessories:

Sensor for O_2 measurement

REF 10556

Flat tape sensor PT1000 for temperature measurement inside Labo C-Top or other benchtop incubators

REF 15064

Surface sensor for temperature measurement

REF 10537

Tubing Set for CO_2 measurements for ESCO Miri®

REF 16440

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Hot Plate 100

Quality – Made in Germany

Hot Plate for laboratory and scientific use

Versatile use between 27 °C and 100 °C: Heating, drying, stretching

Features:

- Temperature control between 27 °C and 100 °C
- Homogeneous temperature distribution
- Planar surface for optimal heat transfer to heating blocks, culture dishes and slides
- Short heating up time
- Compact, flat, with carry handles
- Space saving due to separate control unit

Technical data:

- Dimensions: 314 x 214 x 23 mm (w x d x h)
- Weight: 2.9 kg
- Heating up time (approx.):
  37 °C: 2 min., 100 °C: 9 min.
- Power supply:
  100 – 240 V AC, 50/60 Hz, 140 W
- Temperature adjustable between 27 °C and 100 °C
- Safety class I

Scope of supply:

- Hot plate
- Controller with mains adapter

REF 15049

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Hot Plate A3

Quality – Made in Germany

Big hot plate for laboratory and scientific use

Features:

- Temperature control between 27 °C and 45 °C
- Homogeneous temperature distribution
- Planar surface for optimal heat transfer to heating blocks, culture dishes and slides
- Easy to clean glass surface
- Short heating up time
- Extremely flat with big work surface
- Space saving due to separate control unit

Technical data:

- Dimensions: 420 x 300 x 23 mm (w x d x h)
- Weight: 5.5 kg
- Heating up time: < 15 min.
- Power supply:
  100 – 240 V AC, 50/60 Hz, 140 W
- Temperature adjustable between 27 °C and 45 °C
- Protection class IPX1 (Hot Plate)
- Protection class IPX0 (Controller)
- Cable length between Controller and Hot Plate 1.5 m
- Safety class I

Scope of supply:

- Hot plate
- Controller with mains cable

REF 15668

Additional equipment:

- Retractor frame

REF 15942

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Hot Plate A4

Quality – Made in Germany

Hot Plate for laboratory and scientific use

Features:

- Robust and planar glass surface
- Homogeneous temperature distribution
- OLED display for intuitive and easy-to-use user menu
- Functional buttons with haptic feedback via vibration (disengageable)
- Integrated Power Switch
- Extremely flat and space saving
- Cleaning and disinfection with all common detergents

Technical data:

- Dimensions: 300 x 210 x 15 mm (w x d x h)
- Usable surface area: 255 x 140 mm
- Temperature stability: ± 0.2 °C
- Temperature homogeneity: ± 0.3 °C
- Weight: 1050 g (w/o mains adapter)
- Heating up time: approx. 10 min
- Adjustable temperature range: 27 – 45 °C (starting at 2 °C above ambient temperature)
- Power supply: 100 – 240 V AC, 60 W
- Cable length:
  - Hot Plate to connection point on power supply unit 0.3 m
  - Power supply unit to plug 1.8 m

Scope of supply:

- Hot Plate with mains cable — REF 16481

Additional equipment:

- Retractor frame — REF 17958

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(Specifications subject to change without notice.)

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Blockthermostat

Quality – Made in Germany

Designed to maintain the temperature of biological materials

Features:

- Temperature adjustable between 27 °C and 45 °C
- Homogeneous temperature distribution
- Heating up time only approx. 40 min.
- Use of different heating blocks

Technical data:

- Dimensions thermostat:
  290 mm x 175 mm x 110 mm
  (W x D x H)
- Power supply:
  100 – 240 V AC, 50/60 Hz, 60 W
- Temperature control between
  27 °C and 45 °C
- Accuracy: ± 0.2 °C
- Temperature distribution: ± 0.2 °C
- Heating up time from 22 °C to 37 °C:
  approx. 40 min.
- Safety class II

REF 10719 (without heating block)

REF 13855 (with heating block: REF 10264)

REF 13896 (with heating block: REF 10277)

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Court of register: Göttingen: HRB 1394
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CellTrans+

Qualität – Made in Germany

CO_2 transport incubator for a secure and mobile preservation of biological material

Advantages:

- Can also be used as back up in case of incubator or power outage
- Temperature adjustable between 30 °C and 42 °C
- CO_2 adjustable between 0 % and 10 %
- Reliable humidity system
- Easy handling and cleaning
- Compact Design
- Insert for 16 Falcon tubes of 5 ml and 13 ml each

REF 16529

Technical data:

Power supply:
- 100 V - 240 V, 60 W
- 12 V car cable
- Duration with completely charged accumulator:
  - At 2 °C ambient temperature approx. 4 h
  - At 10 °C ambient temperature approx. 6 h
  - At 23 °C ambient temperature approx. 10 h
- Charge time approx. 7 h

Dimensions:
- Exterior: 386 x 251 x 370 (l x w x h in mm)
- Interior: ø 160 mm, height 130 mm, volume approx. 2.6 l
- Empty weight approx. 8.5 kgs

Temperature control:
- Control range 30 °C – 42 °C at 3 °C above room temperature
- Temperature homogeneity ± 0.2 °C
- Temperature stability ± 0.1 °C

CO_2 regulation:
- Control range 0 – 10 % CO_2
- Control accuracy 0.3 % CO_2

CO_2 pressure tank:
- Capacity 0.4 l
- Pressure 8 bar

Classification:
- Safety class I
- Conform to EN 61010

(Specifications subject to change without notice.)

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Product features:

Interior chamber:

- Anodized aluminium
- Insert: Stainless steel

Temperature:

- Over-all heating of lateral surface, bottom and lid of incubation chamber
- Homogeneous temperature distribution

Humidity:

- Via humidifying disc ø 50 mm

CO_2:

- Dual beam infrared sensor
- Measurements independent of temperature and humidity

Recovery times:

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

Easy navigation:

- Menue guided
- Backlid LCD

Interfaces:

- USB interface for data evaluation via PC Software DataVISUAL '19 (in scope of supply)

  (compatible up to Windows 10)

Diagnostic system:

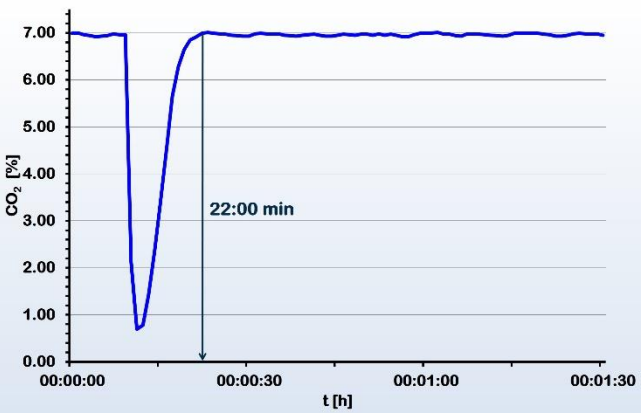
- Visual and acoustic signal for alarms
- Monitoring of temperature, CO_2, pressure, humidity, battery and lid of interior chamber

Scope of supply:

- Transport incubator CellTrans+
- Mains adapter
- Car voltage adapter cable
- Connection hose for CO_2 supply
- Disc for humidification
- USB data cable
- PC software DataVISUAL '19 (on USB stick) for data evaluation
- Insert for 16 Falcon tubes of 5 ml and 13 ml each

Recovery times CO_2 after lid opening:

for 5 seconds with setpoint of 7 % CO_2



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Optional equipment:

• Pressure reducing valve for CO_2 0 – 10 bar

REF 17441

• Inserts for CellTrans+

Insert for up to three shelves for various plates / dishes

REF 17662

• Shelves for inserts for CellTrans+

Shelf for one microtiter plate for insert REF 17662

REF 17540

Shelf for two 4-well dishes for insert REF 17662

REF 17554

Shelf for four round dishes (base diameter ~ 5 mm) for insert REF 17662

REF 17555

CE Rev. 03_07/2020

CellTrans 2018

Quality – Made in Germany

Transport incubator for a secure and mobile preservation of specimen, culture media etc.

Features:

- Secure transport of cells without electric mains and CO_2 connection
- Factory-aligned parameters: 37 °C and 5 % CO_2
- Different temperature or CO_2 concentration possible (to be advised before order)
- Operation at 12 V car voltage possible
- Use of different heating blocks
- Easy handling and cleaning
- Compact Design

Technical data:

Power supply:
- 115 V or 230 V AC, 50/60 Hz
- 12 V DC with car voltage via adapter cable

Dimensions:
- Outside: 385 x 245 x 305 (l x w x h in mm)
- Inside: approx. 312 x 167 x 140 mm (l x w x h in mm)
- Weight: approx. 4.7 kg

Temperature:
- Available between 32 °C and 39 °C (to be advised before order)
- Accuracy of regulation ± 0.3 °C (measured with heating block REF 10264)

Heating up time:
- approx. 2 h

CO_2 concentration:
- 5 % (different concentrations possible)
- Heating block inside necessary
- Connection to CO_2 supply with pre-pressure of 0.8 bar necessary
- CO_2 accuracy ± 0.3 % CO_2 (when supplied with CO_2 with pre-pressure of 0.8 bar ± 0.05 bar)

(Specifications subject to change without notice.)

Parameters* during transport without connection to electric mains:

Transport time	0 min	10 min	30 min	60 min
Temperature	37.0 °C	36.6 °C	35.5 °C	34.0 °C
CO_2 concentration	5.0 %	4.9 %	4.8 %	4.7 %

*The measurements relate to an ambient temperature of 23 °C .

REF 16666 (without heating block)

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Labotect
Labor-Technik-Göttingen

Thermo Cell Transporter 3018

Quality – Made in Germany

Transport incubator for safe and versatile use

Features:

- Factory-aligned temperature at 37 °C
- Different temperature possible (to be advised before order)
- Continuous operation with power supply, car voltage or integrated accumulator during transport
- Operation with batteries up to 5 h*
- Compact design

* at 22 °C ambient temperature

Technical data:

- Dimensions: 111 x 111 x 215 (w x d x h in mm)
- Weight: 2.4 kg
- Power supply: 100 – 240 V AC, 50/60 Hz, 60 W
  12 V DC, 1.5 A car connection cable
- Temperature: between 32 °C and 42 °C available (to be advised before order)
- Accuracy of regulation: ± 0.3 °C
- Operation time:
  - with power supply or 12 V car voltage continuously
  - with accumulator approx. 5 h*
- Heating up time 22 °C to 37 °C: approx. 1 h*
- Charging time of accumulator: approx. 3 h
- For use with 8 x 13 ml Falcon tubes (REF 13881) or 2 x 13 ml and 8 x 5 ml Falcon tubes (REF 16518)
- Safety class II

Scope of supply:

- Basic unit
- Power supply unit
- Car connection cable

REF	13881	for 8 x 13 ml Falcon tubes
REF	16518	for 2 x 13 ml and 8 x 5 ml Falcon tubes

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Aluminium-Wärmeblöcke

Qualität – Made in Germany

Als Zusatz für CellTrans 2018, Cell-Trans 4016, Blockthermostat, Aspirator 3 mit Wärmeplatte und Wärmeplatten sind folgende Produkte erhältlich:

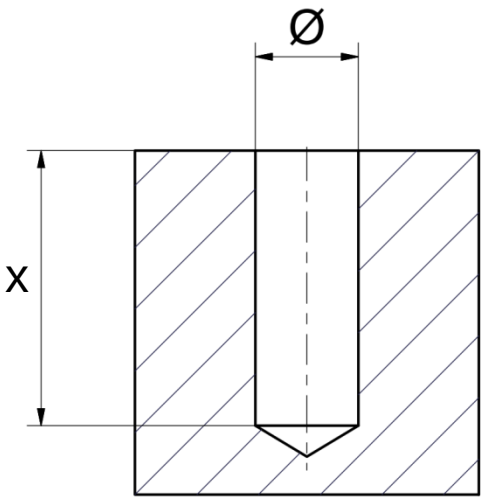
Große Aluminium-Wärmeblöcke zur Aufnahme von

22 Falconröhrchen à 5 ml
x = 54 mm, Ø = 12,2 – 12,4 mm
oder 38 Falconröhrchen à 13 ml
x = 66 mm, Ø = 16,8 – 17,0 mm
(Mischbestückung möglich)

REF 10264

26 Röhrchen à 25 ml oder 26 ml
(z.B. Falcon, Sarstedt o.ä.)
x = 68 mm, Ø = 23,9 – 24,1 mm

REF 10277



Kleine Aluminium-Wärmeblöcke* zur Aufnahme von

8 Falconröhrchen à 13 ml
x = 60,5 mm, Ø = 16,8 – 17,0 mm

REF 12974

5 Röhrchen à 25 ml oder 26 ml
(z.B. Falcon, Sarstedt o.ä.)
x = 70 mm, Ø = 24,0 – 24,1 mm

REF 12977

*Die kleinen Wärmeblöcke sind für den CellTrans 2018 nicht passend

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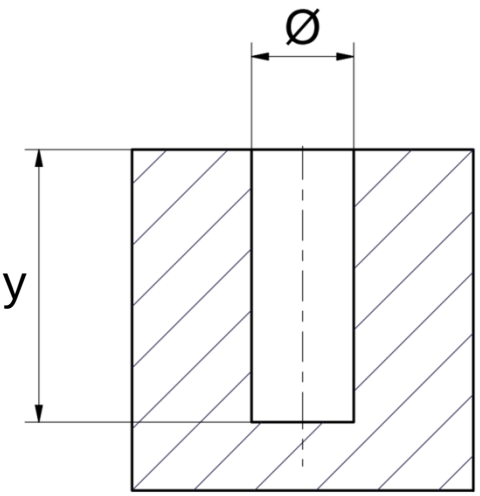
Große Aluminium-Wärmeblöcke zur Aufnahme von

12 CCD-Röhrchen
y = 72 mm, Ø = 35,5 – 35,6 mm

REF 14413

12 Falconröhrchen à 50 ml
y = 81 mm, Ø = 29,95 – 30,05 mm

REF 14870



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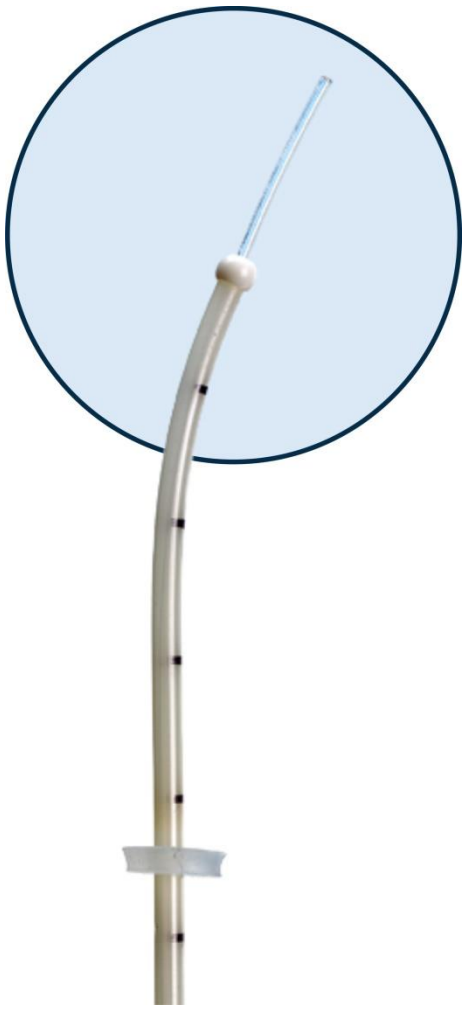
Embryo Transfer Catheter

Quality – Made in Germany



Special & proven design

- The Luer connection at the proximal end of the guiding cannula permits trouble-free insertion of the inner catheter
- The penetration depth and the direction can be set at the guiding cannula using a slide ring
- Atraumatic owing to the curved guiding cannula with a ball end, allowing the catheter to be used reliably even with difficult anatomic conditions
- Metal reinforced inner catheter shaft allows simple, safe handling
- Three different lengths permit optimal adaption to different anatomies
- Disposable product, double sterile packed

Regulatory Standards

- Manufacturer certified as per ISO 13485
- Class Is according to Directive 93/42 EEC
- To be used by trained personnel only

Enhanced Safety and Reliability

- Each batch
  MEA (Mouse Embryo Assay) and
  LAL (Endotoxin Assay) tested
- Biocompatibility conforming to ISO 10993
- Validated gamma-sterilisation
- Production under controlled conditions

Address:
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Court of register: Göttingen: HRB 1394
WEEE-Reg-No: DE 86039820
Managing director:
Delia Schinkel-Fleitmann
Dr. Friederike Fleitmann

Specifications

Packaging: normal

Embryo transfer catheter, length: 150 mm	REF 13365
Embryo transfer catheter, length: 190 mm	REF 13366
Embryo transfer catheter, length: 230 mm	REF 13369

Packaging: hard blister, inner catheter and guiding cannula single packed

Embryo transfer catheter single packed, length: 190 mm	REF 14690

CE 0123

Rev. 7_10/2020

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SEISMION

Vibration Technology

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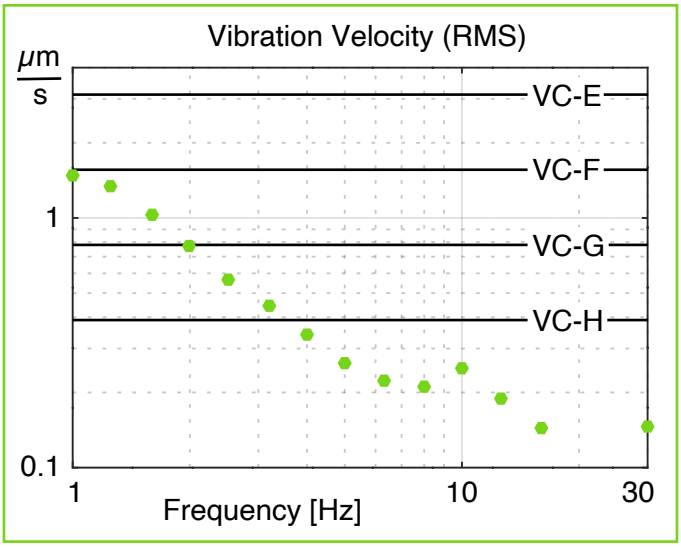
Reactio

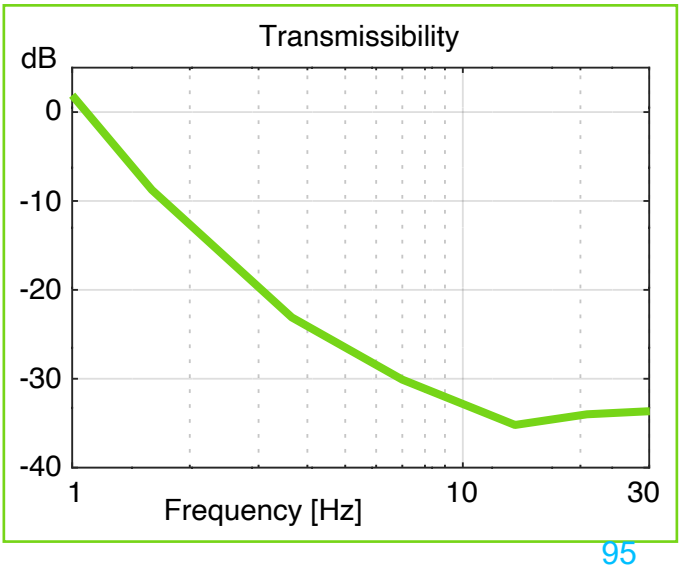
Feedback Control Vibration Isolator

Made in Germany

Key Features

- High performance, low price and different sizes offer cost efficient access to active vibration isolation for your applications
- Actively stabilized top-plate in 6-degrees of freedom, counter forces disturbances from applications, i.e. scanning X/Y - stages
- Super flat design, no configuration required and easy to use
- Meets highest vibration criteria: VC-F @ 1 Hz and VC-G @ 2 Hz
- Robust electronic feedback control handles even strong vibration and disturbances without interrupting or stopping isolation





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