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Heraeus

Exclusive ContraCon decontamination routine PROVEN TO ELIMINATE MYCOPLASMA!

HERACELL® CO_2 INCUBATORS: THE NEW DIMENSION

Contamination prevention without compromise



Kendro
Quality Products – Lifetime Care

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THE IDEAL CO_2 INCUBATOR

The Heraeus® HERAcell® by Kendro Laboratory Products is the ideal CO_2 incubator for cell and tissue cultures, including development of ova or embryos at or near body temperature. It provides everything needed to protect and grow your samples:

Safe and stable incubation conditions ensure optimum culture growth.

ContraCon 90 °C decontamination routine decontaminates the entire chamber interior and is proven to eliminate mycoplasma.

Air jacket maintains temperature uniformity and quick set-up time.

Direct humidification offers the fastest humidity recovery times and provides optimal growth conditions for cultures.

Available in copper or stainless steel.

NEW All HERAcell® incubators are also available with optional Trigas-O_2-control for hyperoxic applications.

2 convenient sizes: 240 l (8.5 cu.ft.) and 150 l (5.3 cu.ft.).

HERAcell® incubators are specifically designed to protect your valuable cultures.

CERTIFIED IN ACCORDANCE WITH
DIN EN ISO 9001



HERAcell® 150
[150 l (5.3 cu.ft.) internal volume]

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GENERAL FEATURES

ContraCon – effective decontamination
A feature exclusive to Heraeus® incubators, ContraCon is an automatic decontamination routine that uses moist heat at 90 °C. In independent tests, the ContraCon routine was proven to completely eliminate mycoplasma.

ContraCon maintains a constant surface temperature on all contamination-prone surfaces.

ContraCon's decontamination efficiency was tested by a GLP approved laboratory and CAMR, Porton Down, UK.

Contamination protection
Fewer surfaces means less area for contamination. HERAcell® is designed to have fewer contamination-prone surfaces than competitive models.



HERAcell® 240
[240 l (8.4 cu.ft.) internal volume]

NEW Humidity system protects cultures from drying out
HERAcell® uses a new type of water reservoir – one that replaces the standard water tray. This new system provides a high relative humidity (rH) and most importantly, allows rapid humidity recovery times. Compared to common CO_2 incubators with water trays, the HERAcell's® humidity recovery time is up to five times faster.

NEW Exclusive Water-level alarm, 1–2 days before the water reservoir is running dry
All instruments are now equipped with a new type of water-level sensor which provides an audible and visual alarm in time when the water reservoir has to be refilled.

Good growth for cultures
Consistent culture conditions exist throughout the incubator interior. This is achieved by the air jacket temperature control. A newly developed upper-temperature limit protection ensures exact incubation temperature even in the event of a sensor failure.

In addition, the TC CO_2 sensor ensures long term stability of the incubation atmosphere.

NEW IR CO_2 sensor
All HERAcell® incubators can be equipped with the patented, self-equilibrating IR-measuring system.

This is the first IR CO_2 sensor designed to resist a 90 °C thermal decontamination procedure (ContraCon).

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CONTAMINATION PREVENTION – SAFETY THROUGH DESIGN

The reduction of contamination-prone surfaces inside the chamber is the most efficient method of preventing contamination in the long term.

Completely thought out

In contrast to other CO_2 incubators, all HERAcell® surfaces are easily accessible. Potential sources of contamination, for example plastic fans and filter casings hidden behind ceiling panels, are not used in the HERAcell®.

Reduced internal surface areas

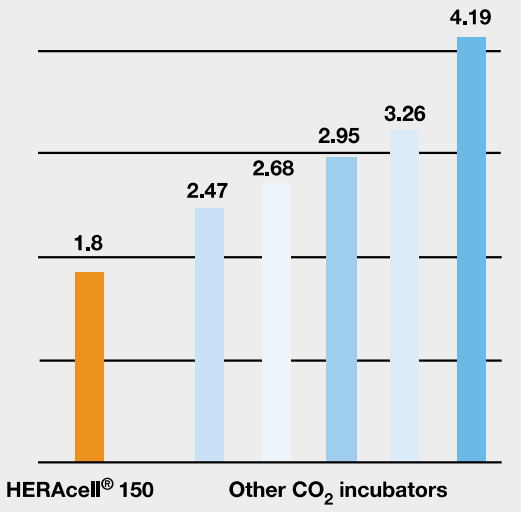
The consequent reduction of the total surface area and especially minimizing inaccessible corners, cavities, tubing and pipes simplifies cleaning. HERAcell® has up to 2.5 m^2 less contaminable surface area than other CO_2 incubators. This corresponds to about the area of a door. Without hidden and inaccessible surfaces formation of hidden contamination is greatly reduced.

Less means more

HERAcell® components have up to 50 % fewer contamination-prone surfaces. This means less time-consuming cleaning and greater contamination protection.



Contamination-prone surfaces [m^2] – HERAcell® compared with other CO_2 incubators







Easy cleaning

HERAcell® has a completely smooth inner casing with rounded corners on all sides. The stainless steel interior has an electropolish finish achieving the highest quality of available surface.

The easy snap in shelf mounting system uses no screws, bolts or other potential contamination traps in the interior space.

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Access port
HERAcell® incubators are supplied with a 42 mm (1.6 in) access port as standard. This allows cables, plugs and tubing to be easily inserted into the chamber.

High-Low Humidity function
For long term incubation HERAcell® offers an additional High-Low Humidity function providing humidity levels of ≥ 95 % rH or ~ 90 % rH.

Convenient operation



The pull-out tray underneath the incubator provides space for storage of supplies and operating instructions, as well as a place for research notes. It also serves as a convenient shelf during loading and unloading.

Flexible application
Doors can be set up for left or right handed usage optimizing your work space. All door gaskets can be removed by hand. They have smooth surfaces for easy cleaning.

Solid copper interior
Solid copper is well known to prevent effectively contamination growth on its surface. The HERAcell® is available with a solid copper interior (chamber, complete shelfing system and fan) offering a perfect continuous contamination control.







Newly developed water-level alarm
This feature provides an audible and visual alarm when the water reservoir needs to be refilled to ensure a constant high level of humidity and to prevent cultures from drying out. The sensor is decontaminated during the 90 °C ContraCon decontamination routine.

Novel water reservoir
The inner casing sloping down towards the back creates a water reservoir. This avoids inconvenient handling and cleaning of a water basin and eliminates potential contamination area.

TECHNOLOGY FOR MORE SAFETY

HERAcell® takes care of the safety of your cultures thanks to
reliable automated decontamination routine ContraCon
relative humidity protection
reduction of contaminable surfaces
more safety in detail

Maximum precautions
In order to secure constant incubation conditions, HERAcell® incubators possess a number of important protection mechanisms:

Temperature
The new upper temperature limit protection not only provides an alarm in case of overheating, but also maintains the specified incubation temperature via a second automatic control loop.

Humidity
The novel water-level alarm continuously monitors the water level and provides an early warning if the water reservoir has to be refilled.

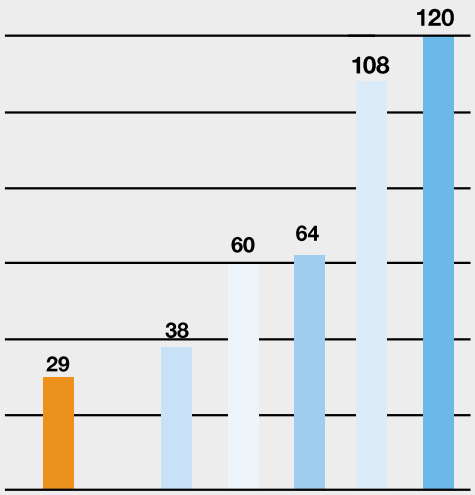
Gassing
The optional gas guard for CO_2 and O_2/N_2 permits 2 respective gas supplies to be connected. As soon as the first supply is empty the controller switches automatically to the second supply and sounds an alarm.

HERAcell® 150 incubators ensure consistency of the most important incubation parameters and effectively protect valuable cell cultures.

Reliable controls
Two large illuminated displays provide instant status of incubator parameters. With a single glance you can check temperature and CO_2-concentration at the same time – even in passing.



Humidity recovery times [min] – HERAcell® compared with common CO_2 incubators



Safety in detail
All Heraeus® CO_2 incubator glass doors have a safety catch which reliably prevents the inner door from mistakenly being left open.
Stable culture conditions are ensured and protection is provided against contamination penetration.

Reliable decontamination with ContraCon
The ContraCon automatic decontamination routine consistently achieves excellent decontamination at a moist heat of 90 °C.

In less than a day, the HERAcell's® entire interior, including all sensors, shelves, fan and the critical water reservoir, are decontaminated. You save time by not having to remove, refit or separately decontaminate any fixtures. There is no limit to the number of times that ContraCon can be used for decontamination.

A homogenous heat distribution on all surfaces is important for effective decontamination.

Protected from drying out
Especially when the door is opened frequently or when low media volumes are used, short recovery times become very important.

The HERAcell® incubators inclined/rounded cornered water reservoir provides a large water surface and a direct heat transfer from the heated floor to the humidification water. With water tray incubators, a layer of air between the incubator and tray, slows down the humidity recovery, resulting in high culture media evaporation rates.

Together with the patented, additional floor heating after door opening and during O_2 gassing, the HERAcell® achieves humidity recovery times up to five times faster than competitive models.

ContraCon's effectiveness on all surfaces was tested by a GLP approved laboratory and CAMR, Porton Down, UK.
A second independent laboratory tested and confirmed ContraCon's complete elimination of mycoplasma.

Contaminants tested:
Bacillus subtilis
Bacillus stearothermophilus (USP 23)
Enterococcus faecalis
Escherichia coli
Pseudomonas aeruginosa
Staphylococcus epidermidis
Corynebacterium xerosis
Aspergillus niger

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Gas tight inner glas door
All HERAcell® incubators now offer an optional 3 door (HERAcell® 150) or 6 door ((HERAcell® 240) inner glas door.

Inner doors allow access to defined sections of the incubator without disturbing the inner atmosphere. This minimizes recovery times and contamination risks.

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EXTREMELY ECONOMICAL

Standard features
HERAcell® incubators include a wide range of standard features that optimize the safety of your cultures.

Gain valuable time
Persistent contamination can delay projects. HERAcell® incubators require less effort for cleaning and decontamination than competitive models. You will have more time for your research projects or tests.

There are considerably fewer surfaces to clean with the new HERAcell® instruments. Furthermore, “normal cleaning“ is sufficient, as decontamination is done automatically in the incubator – autoclaving is no longer necessary.

The fully automatic auto-start routine renders the incubator operational within a few hours. Water-jacket incubators require in excess of a day for start-up because the water requires heating.

ContraCon decontamination routine works quickly and thoroughly with even the most persistent germs.

It decontaminates the entire interior chamber. There is no time consuming removal and assembling of fittings, hand cleaning of water trays or hours of chemical cleaning, rinsing and drying of sensors.

The reliable safety of the HERAcell® incubators is also an economic factor: fewer problems and breakdowns mean an increase in the efficiency of your work.

HERAcell®

Other CO_2 incubators

Basic features

- **Automatic decontamination routine**
- **All sensors thermally decontaminable**
- **Interior with rounded corners and stainless steel fittings**
- **Reduced interior surfaces**
- **All fittings made of stainless steel, incl. fan**
- **Left or right hinged doors**
- **Glass door safety catch**
- **Upper temperature limit protection**
- **RS232 interface**
- **Floating alarm contact**
- **High/Low Humidity function**
- **Water-level sensor**
- **Access port**
- **Pull-out shelf**

Available Options

- **Solid copper interior**
- **Gas tight inner glass door**
- **O_2 control**
- **Integrated gas guard**

OPTIONS AND ACCESSORIES

NEW

Integrated gas guard

HERAcell® 150's optional gas guard provides protection from gas supply loss. If the first supply is empty, the gas guard automatically switches over to the second gas supply and sounds the alarm. Additional HERAcell® incubators can also be connected to the integrated gas guard.

NEW

O_2-control with auto-cal

HERAcell® now offers two optional O_2 control ranges. Choose between 1 to 21 % O_2 or a wide range setting from 5 to 90 % O_2. The maintenance-free zirconium oxide sensor, is automatically calibrated (auto-cal) and stays in the incubator during the 90 °C ContraCon decontamination routine.

NEW

IR CO_2 sensor with auto-zero

Choose between the well-established TC or the new, unique IR CO_2-sensor, which responds extremely fast to gas concentration changes. A auto-zero function ensures long-term stability of CO_2 concentrations. The sensors are thermostable and stay in the incubator during the ContraCon decontamination routine.



HERAtrays

HERAtrays are shelves for the convenient transportation of your cultures. Each incubator shelf can be divided into 4 sections with these trays, They work well with a 3 or 6 inner glass door configuration.

HERAtrays are available in stainless steel and copper.



Support frames

The carts provide protection against floor contamination. Choose between a height of 200 mm (8 in) or 780 mm (31 in). The support frames can also be castor-mounted, allowing easy transport of the HERAcell®.



IR-CO_2 gas tester

The handheld IR-CO_2 gas tester is equipped with a maintenance-free infrared cell to monitor CO_2 concentration inside the chamber. Data download and calibration functions are possible by using optional PM-COM software. The IR-CO_2 gas tester performs according to GMP/GLP guidelines.



Half width shelves

This accessory allows for separation of the HERAcell® 240's interior. No danger of mixed-up samples even when many users share one instrument.



Gas tight inner glass doors

The smaller cross-section when opening the door effectively reduces the gas exchange between the inner space and the outside air. The gas tight doors come standard when selecting the model with O_2 control and provide independent compartments for reduced exposure.



Unique New Roller Bottle System

HERAcell® 240 can be equipped with up to 4 bottle turning devices for roller bottles between 58 to 186 mm in diameter. The rotational speed of each device is set independently. This unique system remains in the incubator during the 90 °C ContraCon decontamination routine, eliminating time consuming manual cleaning.

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ORDER NUMBERS

Standard equipment air-jacket heating, ContraCon decontamination routine, right hinged door	Description	Cat. no. HERAcell® 150 150 l (5.3 cu.ft.) internal volume	Cat. no. HERAcell® 240 240 l (8.4 cu.ft.) internal volume
HERAcell®	stainless steel inner chamber, 230 V, 50/60 Hz	51022391	51019557
HERAcell®	stainless steel inner chamber, 120 V, 50/60 Hz	51022393	51019559
HERAcell®	solid copper inner chamber, 230 V, 50/60 Hz	51022392	51019558
HERAcell®	solid copper inner chamber, 120 V, 50/60 Hz	51022394	51019560
HERAcell®	twin chamber incubator, stainless steel inner chamber, 230 V, 50/60 Hz, complete with support frame	50077950	–
HERAcell®	twin chamber incubator, stainless steel inner chamber, 120 V, 50/60 Hz, complete with support frame	50077952	–
HERAcell®	twin chamber incubator, solid copper inner chamber, 230 V, 50/60 Hz, complete with support frame	50077951	–
HERAcell®	twin chamber incubator, solid copper inner chamber, 120 V, 50/60 Hz, complete with support frame	50077953	–

Options	Description	Cat. no. HERAcell® 150 150 l (5.3 cu.ft.) internal volume	Cat. no. HERAcell® 240 240 l (8.4 cu.ft.) internal volume
Door hinged	left	51900293	51900293
IR-CO_2 Sensor		51900733	51900571
O_2 control	Vol-% 1..21 incl. 3 gas tight inner doors	51900739	–
O_2 control	Vol-% 5..90 incl. 3 gas tight inner doors	51900740	–
O_2 control	Vol-% 1..21 incl. 6 gas tight inner doors and half-width shelves	–	51900702
O_2 control	Vol-% 5..90 incl. 6 gas tight inner doors and half-width shelves	–	51900703
3 inner doors*	three inner doors for segmented access for stainless steel /copper incubator	51900734	–
6 inner doors*	six inner doors for segmented access for stainless steel and copper incubator	–	51900387
Half-width shelves, stainless steel	instead of full-width shelves	–	51900358
Half-width shelves, solid copper	instead of full-width shelves	–	51900357
Full-width shelves, stainless steel	reinforced for increased mechanical demands	–	51900753
Full-width shelves, solid copper	reinforced for increased mechanical demands	–	51900754
Gas guard CO_2		51900735	-
Gas guard O_2/N_2		51900736	-
Roller bottle system	1 Level	–	51900572
	2 Levels	–	51900573
	3 Levels	–	51900574
	4 Levels	–	51900614

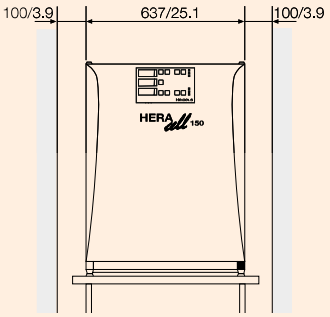
Accessories	Description	Cat. no. HERAcell® 150 150 l (5.3 cu.ft.) internal volume	Cat. no. HERAcell® 240 240 l (8.4 cu.ft.) internal volume
Support frame	200 mm / 7.9 in (without castors)	50051376	50065754
Support frame	200 mm / 7.9 in (with castors, height incl. castors)	50057161	50067224
Support frame	780 mm / 30.7 in (without castors)	50051436	50065753
Support cart with drawers and castors	780 mm / 30.7 in, 3 drawers, with 4 castors	50056459	–
Castor set	100 mm / 3.9 in, 4 castors for support frames no. 50051376, 50051436, 50065753 and 50065754	50052528	50052528
Stack adapter	for 150 l unit: to stack up with BB16	50051938	–
	for 240 l unit: to stack up with BB 6220 and B 5060/B 5061	–	50066094
	for 240 l unit: to stack up with two HERAcell® 240	–	50068677
HERAtray, stainless steel	Shelf tray 1/3 width; 3 pcs.	50051913	50065805
HERAtray, stainless steel	Shelf tray 1/4 width, 4 pcs.	–	50065807
HERAtray, stainless steel	Shelf tray 1/2 width for half-width shelf, 4 pcs.	–	50065809
HERAtray, all copper	Shelf tray 1/3 width; 3 pcs.	50051914	50065806
HERAtray, all copper	Shelf tray 1/4 width, 4 pcs.	–	50065808
HERAtray, all copper	Shelf tray 1/2 width for half-width shelf, 4 pcs.	–	50065810
Additional shelf, full-width	stainless steel, incl. 2 support bars	50051909	50065793
Additional shelf, full-width	stainless steel, reinforced, incl. 2 support bars	–	50077367
Additional shelf, half-width	stainless steel, incl. 2 support bars	–	50065795
Additional shelf, full-width	copper, incl. 2 support bars	50051910	50065794
Additional shelf, full-width	copper, reinforced, incl. 2 support bars	-	50077365
Additional shelf, half-width	copper, incl. 2 support bars	–	50065796
IR-CO_2 gas tester	200–230 V	50060283	50060283
	5 spare inlet port filters	50060287	50060287
	IrDa computer interface and cable (incl. PM-COM Software)	50060289	50060289

Upgrade kit Options	Description	Cat. no. HERAcell® 150 150 l (5.3 cu.ft.) internal volume	Cat. no. HERAcell® 240 240 l (8.4 cu.ft.) internal volume
3 inner doors*	for segmented access for stainless steel/copper incubator	50077587	–
6 gas tight inner doors*	for segmented access for stainless steel/copper incubator	–	50067225
Shelves, half-width, stainless steel	instead of full-width shelves	–	50067226
Shelves, half-width, copper	instead of full-width shelves	–	50067227

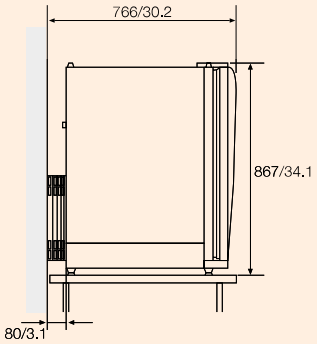
* without inner glass door. Kendro recommendation: apply 6 gas tight inner doors only in combination with half-width shelves or HERAtrays.

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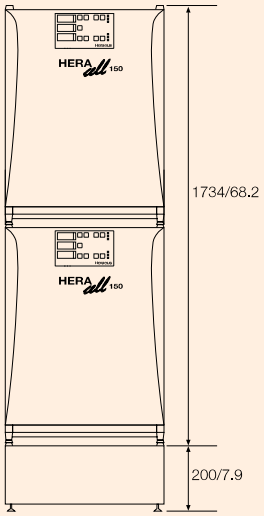
MEASUREMENTS



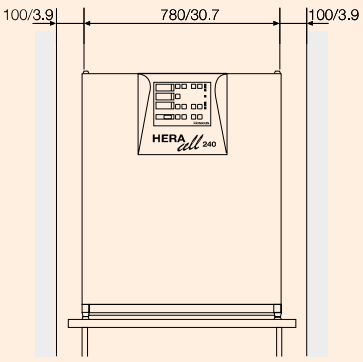
Front view HERAcell® (mm/in)



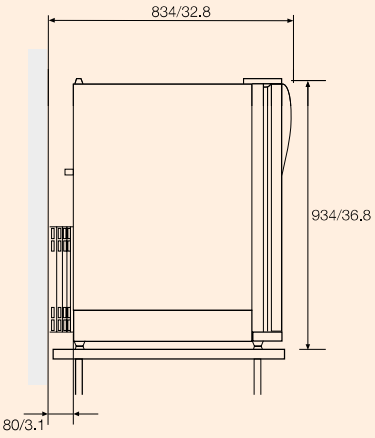
Side view HERAcell® 150 (mm/in)



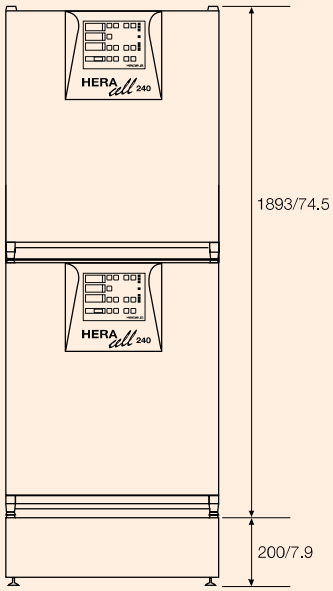
HERAcell® 150



Front view HERAcell® 240 (mm/in)



Side view HERAcell® 240 (mm/in)



HERAcell® 240 (mm/in)

HERAcell® 150 incubators can be stacked directly on top of each other.
For stacking HERAcell® 240 incubators please use stack adapter order no. 50068677.

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TECHNICAL DATA

Type	Unit	HERAcell® 150	HERAcell® 240
Dimensions			
External (w x h x d)	mm	637 x 867 x 766	780 x 934 x 834
	inch	25.1 x 34.1 x 30.2	30.7 x 36.8 x 32.8
Internal (w x h x d)	mm	470 x 607 x 530	607 x 670 x 583
	inch	18.5 x 23.9 x 20.9	23.9 x 26.4 x 23.0
Total volume	l	approx. 151	approx. 238
	cu.ft.	5.3	8.4
Shelves full width (w x d)	mm	423 x 445	560 x 500
	inch	16.7 x 17.5	22.0 x 19.7
No. of shelves standard/maximum	no.	3/10	3/12
Max. load per shelf/total load	kg / lbs	10/30	10/30
Shelves half width (w x d)	mm	–	260 x 500
	inch	–	10.2 x 19.7
No. of shelves standard/maximum	no.	–	6/16
Max. load per shelf/total load	kg / lbs	–	5/30
Material			
Interior chamber		stainless steel/solid copper[4)]	stainless steel/solid copper[4)]
Shelves, fan impeller		stainless steel/solid copper[4)]	stainless steel/solid copper[4)]
ContraCon decontamination routine		verified by accredited laboratories	verified by accredited laboratories
Decontamination phase, on all sufaces	°C/hrs	90/9	90/9
Period (ambient temperature 20 °C)	hrs	25	25
Efficiency spectrum		bacteria, fungi, spores (USP 23), mycoplasma	bacteria, fungi, spores (USP 23), mycoplasma
Temperature		air jacket temperature control	air jacket temperature control
Temperature control range	°C	T_A +3 … 55	T_A +3 … 55
Temperature deviation, time[1)]/spatial[1)]	K	± 0.1/± 0.5	± 0.1/± 0.5
Ambient temperature range	°C	+18 … 33	+18 … 33
Recovery time at 37 °C[2)]	min	≤10	≤10
Humidity			
Constant humidity[3)]	%rH	≥95	≥95
Fill amount/water quality	l	max. 3 distilled/autoclaved and mineralized	max. 4.5 distilled/autoclaved and mineralized
Recovery time at 95% rH[3, 5, 6)]	min	≤30	≤20
CO_2			
Measure and control range	Vol – %	0 … 20	0 … 20
Control accuracy	Vol – %	± 0.1	± 0.1
Inlet pressure	bar	min. 0.8 … max. 1	min. 0.8 … max. 1
Gas purity	%	min. 99.5, medical quality	min. 99.5, medical quality
Recovery time, 5% CO_2[2)]	min	≤5	≤10
O_2			
Measure and control range	Vol – %	1..21 / 5..90	1..21 / 5..90
Control accuracy	Vol – %	± 0.1	± 0.1
Inlet pressure	bar	min. 0.8 … max. 1	min. 0.8 … max. 1
Gas purity	%	min. 99.5; medical quality	min. 99.5; medical quality
Recovery time[2)] ≤ 21% O_2	% O_2 / min	0.5	0.5
> 21% O_2	% O_2 / min	1.0	1.0
Electrical Data			
Rated voltage	V	1/N/PE AC; 230 (120)	1/N/PE AC; 230 (120)
Rated output	kW	0.60 (0.64)	0.61 (0.64)
Rated frequency	Hz	50/60	50/60
Heat emission to environment			
at 37 °C	kWh/h	0.08	0.08
with ContraCon	kWh/h	0.12	0.25
Weight (excl. accessories)	kg	70	85
	lb	165	200

[1)] DIN 12 880, part 2
[2)] 30 sec. door open, to 98 % of initial value
[3)] the relative humidity inside the incubator may increase during incubation of open culture vessels
[4)] optional
[5)] 30 sec. door open, to 96 % of initial value
[6)] only CO_2 Incubators
T_A ambient temperature

WE ARE ONLY SATISFIED IF YOU ARE



Our service:
a reassuring feeling

Quality service
Kendro provides quick responses to customer needs and competent solutions to problems – wherever in the world you are. Our extensive range of services encompasses far more than just repairs and maintenance work.

Personal attention
You will notice this, for example, in the quality of our advice – which is individually geared towards customer requirements and problem solving. Our convincing solutions are tailored to ensure efficient working conditions.

At your service
Experienced specialists will quickly and competently help you with our wide ranging service network.

Perfect logistics
By request, all HERAcell® equipment will be delivered where it is needed: directly to your place of work. This service includes, of course, competent set-up and installation.

Comprehensive
Whether it is calibration, validation/qualification, reference measurement, application advice, the purchase of spare parts or repairs – our service engineers in your area will be on their way to help you as soon as we receive your call. Fast, committed, complete.

All things considered: It's a good feeling to know that Kendro is by your side – working in your interest, and for your benefit.

Your sales contact

For Ordering or Technical Information

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