New! Thermo Scientific
HERAcell® 150i and 240i CO₂ Incubators
Thermo Scientific HERAcell 150i and 240i

>> Surround your valuable cultures with an environment you can trust.

Thermo Scientific HERAcell i series CO₂ incubators provide the ideal in vitro environment: clean, reliable and easy to use, protecting your valuable samples while optimizing cell growth.

NEW: iCAN™ (Interactive Control Access Navigator) Touchscreen

Exclusive iCAN simplifies operation and enables rapid access of important information for each critical parameter in the incubator. iCAN provides trend analysis for convenient evaluation of your unit’s performance.

With our HERAcell i series, your valuable samples will be:

• **Secured:** Our innovative ContraCon moist heat decontamination technology is proven for simple and worry-free cleaning and operation.

• **Protected:** Proven contamination control is offered with our unique 100% pure solid copper interiors – antimicrobial protection on contact, naturally.

• **Thriving:** Designed to provide optimal growth conditions, delivering superior parameter recovery rates that enhance cell growth.

Thermo Scientific HERAcell 150i and 240i

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Intelligent design, promoting superior cell growth

Our HERAcell i series offers a range of features that maximize safe, dependable cell growth

Our HERAcell incubators are renown for their accuracy, uniformity and quick recovery rates – attributes that contribute to optimal culturing conditions.

- High quality sensors are mounted directly within the chamber for precise environmental measurements.
- Highly efficient fan-assisted convection ensures the uniformity of the critical temperature, CO₂ and humidity-for all samples, no matter their location within the incubator.

Gas sensors
For precise and dependable automatic CO₂ control, you can choose between thermal conductivity (TC) or our patented Dual Beam infrared (IR) sensor technology based upon your preferences and experimental need.

TC sensors provide accurate CO₂ control in applications where temperature and humidity values are consistent. IR sensors are recommended where temperature and humidity values fluctuate frequently. Both sensors are thermostable, do not require removal for cleaning, and may remain in place during our exclusive ContraCon decontamination routine.

Optional O₂ control
For those seeking to establish hypoxic or hyperoxic culturing conditions, the HERAcell i series offers two optional O₂ control ranges. Choose between 1 to 21% O₂ or a wide-range setting from 5 to 90% O₂. The advanced maintanence free sensor technology is calibrated automatically (auto-cal) and can remain in place during our high temperature ContraCon decontamination.

Integrated gas guard
An optional, integrated gas tank switcher for CO₂ and O₂/N₂ allows the connection of two gas supplies. When the first supply is empty, the controller switches automatically to the second supply.

A visual alert will appear on the touchscreen display when the gas supply is low and needs changing.
Patented humidity system for faster recovery rates

Our HERAcell i series incorporates a unique integral humidity water reservoir that provides a high relative humidity (rH) and allows rapid recovery of optimal humidity level after door openings. A water level sensor indicates when a refill is needed – via a convenient prompt on the touchscreen display – to avoid the desiccation of important cultures. This pan-less system reduces handling and provides recovery rates up to five times faster than ordinary tray humidified incubators, due to:

- A surface area larger than ordinary humidity water pans (provided by a water reservoir with inclined and rounded corners)
- A patented floor heating system that operates after door opening
- Direct heat-transfer from heated floor to humidity reservoir

"Constant humidity for cell protection and optimal growth"

Short humidity recovery times are critical to cell growth – especially when the incubator door is opened frequently or when low volumes of media are used.

Typical humidity recovery time measured in competitive comparison

<table>
<thead>
<tr>
<th>Incubator Type</th>
<th>Recovery Time (minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HERAcell 150i</td>
<td>38</td>
</tr>
<tr>
<td>Other CO₂ incubators</td>
<td>60, 64, 108</td>
</tr>
</tbody>
</table>

1 Based upon a 30 second door opening.
Thermo Scientific iCAN touchscreen – places total control and complete information at your fingertips

iCAN touchscreen improves your visibility and control of important incubator information helping you to achieve your culturing goals

- Door mounted for easy accessibility and viewing
- Easy to use: convenient on-screen user prompts
- Select from a variety of languages
- Visibility to changes in culture environment: on screen logs and usage recording
- Monitor alarm alerts visually on the display

> **interactive**
  Complete information at your fingertips.

> **intuitive**
  Easy to use with simple icons and menu prompts to guide you, reducing the potential for costly errors.

> **intelligent**
  Graph performance trends over established timeframes and run event history logs—protected with user passcodes and control lockouts.
Worry free 24/7 protection against contamination

ContraCon – 90°C moist heat decontamination
Exclusive to all HERAcell i series incubators is the high-temperature, ContraCon 90°C moist heat decontamination process. It’s an automatic, on-demand routine that is proven effective in eliminating bacteria, molds, fungal spores and mycoplasma. ContraCon simplifies cleaning and eliminates variability in disinfection. Also, the cleaning process does not require the disassembly and removal of sensors, hardware or other components for separate autoclaving.

ContraCon has been independently proven to be effective against an assortment of commonly encountered contaminants, including:

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

Unique gas-tight segmented door option
For additional contamination protection, all HERAcell incubators now offer an optional three door (HERAcell 150i) or six door (HERAcell 240i) inner glass door assembly, which allows access to defined sections of the incubator without disturbing the entire inner atmosphere. This minimizes recovery times, gas usage and the risk of contamination.

Less means more when it comes to cleaning and maintenance
HERAcell i series incubators have a completely smooth inner casing with rounded corners, reducing unnecessary internal surfaces where contamination can hide.

- Faster, more effective cleaning and disinfection
- Surfaces that can be easily contaminated, such as ceiling panels, air ducts and screws are avoided
- High quality electropolished stainless steel finish

100% pure copper antimicrobial interior available
The HERAcell i series offers antimicrobial copper interiors that provide maximum protection against contaminants potentially introduced through door openings or sample handling. Ideal for shared-use environments, copper delivers non-stop bactericidal and fungicidal properties on contact.

- Chamber, fan and shelving system are constructed of 100% pure antimicrobial copper
- No ineffective copper alloys or plating finishes

Minimize cleaning time and maximize contamination protection.
ACCESS PORT
HERAcell i series 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 or out of the chamber.

PROTECTED:
100% pure copper interior eliminates microbial growth on contact.

THRIVING:
Patented rapid-response humidity system provides superior recovery time upon door openings.

SECURED:
Our ContraCon moist heat decontamination cycle is proven to eliminate contaminants, for simple and reliable cleaning.

GLASS DOORS HAVE A RELIABLE DOOR LATCH
preventing the inner door from accidentally not being closed and compromising culture conditions.

HERATRAYS ENABLE CONVENIENT TRANSPORT
of samples; fit readily on shelves.

FLEXIBLE SET UP
Doors can be set up for left- or right-handed use to optimize the work space in your laboratory. All door gaskets can be removed by hand and have smooth surfaces for easy cleaning.
Half-width shelves
These can be used to subdivide the HERAcell 240i’s interior to reduce the possibility of mixing up samples, especially when there are multiple users.

Thermo Scientific HERAtrays
HERAtrays are shelves for the convenient transportation of your cultures and can be used to divide incubator shelves up to four sections. They work well with a three or six inner glass door configuration. HERAtrays are available in stainless steel or 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 for easy maneuverability.

Unique new roller bottle system
The HERAcell 240i can be equipped with up to four rows of bottle-turning devices for roller bottles between 58 to 186 mm in diameter, each with independent speed control.

Thermo Scientific IR-CO₂ gas tester
The handheld IR-CO₂ gas tester is equipped with a maintenance-free infrared cell to monitor CO₂ concentration inside the chamber. Data download and calibration functions are possible by using optional PM-COM software. The IR-CO₂ gas tester performs to GMP/GLP standards.

Gas-tight inner glass doors
All HERAcell i series incubators now offer an optional three door (HERAcell 150i) or six door (HERAcell 240i) inner glass door, which allow access to defined sections of the incubator without disturbing the inner atmosphere. This minimizes recovery times and the risk of contamination.

Thermo Scientific AquaTec™ water preservation cell
Simply place the 3-inch cell into the water reservoir of your CO₂ incubator. AquaTec prevents infection from most common contaminants for up to six months without harsh germicidal chemicals.

Each unit is lightweight and readily stackable without hardware or tools.
<table>
<thead>
<tr>
<th>Type</th>
<th>Unit</th>
<th>HERAcell 150i</th>
<th>HERAcell 240i</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal Volume:</td>
<td>l</td>
<td>150 (5.3 cu.ft.)</td>
<td>240 (8.4 cu.ft.)</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>637 x 867 x 782</td>
<td>780 x 934 x 834</td>
</tr>
<tr>
<td>External (w x h x d)</td>
<td>inch</td>
<td>25.1 x 34.1 x 30.8</td>
<td>30.7 x 36.8 x 32.8</td>
</tr>
<tr>
<td>Internal (w x h x d)</td>
<td>mm</td>
<td>470 x 607 x 530</td>
<td>607 x 670 x 563</td>
</tr>
<tr>
<td></td>
<td>inch</td>
<td>18.5 x 23.9 x 20.9</td>
<td>23.9 x 26.4 x 23.0</td>
</tr>
<tr>
<td>Weight (excl. accessories)</td>
<td>kg</td>
<td>70</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td>lbs.</td>
<td>154</td>
<td>178</td>
</tr>
<tr>
<td><strong>Shelves</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shelves full width (w x d)</td>
<td>mm</td>
<td>423 x 465</td>
<td>560 x 500</td>
</tr>
<tr>
<td></td>
<td>inch</td>
<td>16.7 x 18.3</td>
<td>22.0 x 19.7</td>
</tr>
<tr>
<td>No. of shelves standard/maximum</td>
<td>no.</td>
<td>3/10</td>
<td>3/12</td>
</tr>
<tr>
<td>Max. load per shelf/total load</td>
<td>kg</td>
<td>10/30</td>
<td>10/30</td>
</tr>
<tr>
<td></td>
<td>lbs.</td>
<td>22/66</td>
<td>22/66</td>
</tr>
<tr>
<td>Shelves half width (w x d)</td>
<td>mm</td>
<td>–</td>
<td>260 x 500</td>
</tr>
<tr>
<td></td>
<td>inch</td>
<td>–</td>
<td>10.2 x 19.7</td>
</tr>
<tr>
<td>No. of shelves standard/maximum</td>
<td>no.</td>
<td>–</td>
<td>6/16</td>
</tr>
<tr>
<td>Max. load per shelf/total load</td>
<td>kg</td>
<td>–</td>
<td>5/30</td>
</tr>
<tr>
<td></td>
<td>lbs.</td>
<td>–</td>
<td>11/66</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior chamber</td>
<td></td>
<td>stainless steel/solid copper</td>
<td>stainless steel/solid copper</td>
</tr>
<tr>
<td>Shelves, fan impeller</td>
<td></td>
<td>stainless steel/solid copper</td>
<td>stainless steel/solid copper</td>
</tr>
<tr>
<td>ContraCon decontamination routine</td>
<td>verified by accredited laboratories</td>
<td>verified by accredited laboratories</td>
<td></td>
</tr>
<tr>
<td>Decontamination phase, on all surfaces</td>
<td>°C/hrs</td>
<td>90/9</td>
<td>90/9</td>
</tr>
<tr>
<td>Period (ambient temperature 20°C)</td>
<td>hrs</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Efficiency spectrum</td>
<td></td>
<td>bacteria, fungi, spores (USP 23), mycoplasma</td>
<td>bacteria, fungi, spores (USP 23), mycoplasma</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature control range</td>
<td>°C</td>
<td>Ta +3 °C to 55 °C</td>
<td>Ta +3 °C to 55 °C</td>
</tr>
<tr>
<td>Temperature deviation, time/spatial</td>
<td>K</td>
<td>± 0.1/± 0.5</td>
<td>± 0.1/± 0.5</td>
</tr>
<tr>
<td>Ambient temperature range</td>
<td>°C</td>
<td>+18 °C to 33 °C</td>
<td>+18 °C to 33 °C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constant humidity²</td>
<td>%rH</td>
<td>95 ± 3</td>
<td>95 ± 3</td>
</tr>
<tr>
<td>Fill amount/water quality</td>
<td>l</td>
<td>max. 3</td>
<td>distillated/autoclaved and demineralized</td>
</tr>
<tr>
<td></td>
<td></td>
<td>max. 4.5</td>
<td></td>
</tr>
<tr>
<td><strong>CO₂</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measure and control range</td>
<td>Vol – %</td>
<td>0 … 20</td>
<td>0 … 20</td>
</tr>
<tr>
<td>Control accuracy</td>
<td>Vol – %</td>
<td>± 0.1</td>
<td>± 0.1</td>
</tr>
<tr>
<td>Inlet pressure</td>
<td>bar</td>
<td>0.8 … max. 1</td>
<td>0.8 … max. 1</td>
</tr>
<tr>
<td>Gas purity</td>
<td>%</td>
<td>99.5, medical quality min.</td>
<td>99.5, medical quality min.</td>
</tr>
<tr>
<td><strong>O₂</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measure and control range</td>
<td>Vol – %</td>
<td>1.21 / 5.90</td>
<td>1.21 / 5.90</td>
</tr>
<tr>
<td>Control accuracy</td>
<td>Vol – %</td>
<td>± 0.2</td>
<td>± 0.2</td>
</tr>
<tr>
<td>Inlet pressure</td>
<td>bar</td>
<td>0.8 … max. 1</td>
<td>0.8 … max. 1</td>
</tr>
<tr>
<td>Gas purity</td>
<td>%</td>
<td>99.5, medical quality min.</td>
<td>99.5, medical quality min.</td>
</tr>
<tr>
<td><strong>Electrical Data</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated voltage</td>
<td>V</td>
<td>1/N/PE AC; 230 (120)</td>
<td>1/N/PE AC; 230 (120)</td>
</tr>
<tr>
<td>Rated output</td>
<td>kW</td>
<td>0.58 (0.62)</td>
<td>0.64 (0.65)</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>Hz</td>
<td>50/60</td>
<td>50/60</td>
</tr>
<tr>
<td>Heat emission to environment at 37°C</td>
<td>kW/h</td>
<td>0.06</td>
<td>0.07</td>
</tr>
<tr>
<td></td>
<td>with ContraCon</td>
<td>kW/h</td>
<td>0.11</td>
</tr>
</tbody>
</table>

¹ Ambient temperature
² Determined according to DIN 12880 for the standard configuration. For details refer to calibration instructions.
³ The relative humidity inside the incubator may increase during incubation of open culture vessels
<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No. HERAcell 150i</th>
<th>Cat. No. HERAcell 240i</th>
</tr>
</thead>
<tbody>
<tr>
<td>HERAcell stainless steel inner chamber, 230 V, 50/60 Hz</td>
<td>51026280</td>
<td>51026333</td>
</tr>
<tr>
<td>HERAcell stainless steel inner chamber, 120 V, 50/60 Hz</td>
<td>51026281</td>
<td>51026334</td>
</tr>
<tr>
<td>HERAcell solid copper inner chamber, 230 V, 50/60 Hz</td>
<td>51026282</td>
<td>51026335</td>
</tr>
<tr>
<td>HERAcell solid copper inner chamber, 120 V, 50/60 Hz</td>
<td>51026283</td>
<td>51026332</td>
</tr>
<tr>
<td>HERAcell dual incubator units, stainless steel inner chamber, 230 V, 50/60 Hz, complete with support frame</td>
<td>50116047</td>
<td>—</td>
</tr>
<tr>
<td>HERAcell dual incubator units, stainless steel inner chamber, 120 V, 50/60 Hz, complete with support frame</td>
<td>50116048</td>
<td>—</td>
</tr>
<tr>
<td>HERAcell dual incubator units, solid copper inner chamber, 230 V, 50/60 Hz, complete with support frame</td>
<td>50116049</td>
<td>—</td>
</tr>
<tr>
<td>HERAcell dual incubator units, solid copper inner chamber, 120 V, 50/60 Hz, complete with support frame</td>
<td>50116050</td>
<td>—</td>
</tr>
</tbody>
</table>

**Options**

**Door hinged**
- left 51900293 51900293

**IR-CO₂ Sensor**
- 51900733 51900733

**O₂ control**
- Vol-% 1.21 incl. three gas tight inner doors 51900739 —
- Vol-% 5.90 incl. three gas tight inner doors 51900740 —

**O₂ control**
- Vol-% 1.21 incl. six gas tight inner doors and half-width shelves — 51900702
- Vol-% 5.10 incl. six gas tight inner doors and half-width shelves — 51900703

**Gas guard CO₂**
- 51900735 51900736

**Gas guard O₂/N₂**
- 51900737 51900738

**Roller bottle system**
- One level (replacing one shelf) — 51900572
- Two levels (replacing two shelves) — 51900613
- Three levels (replacing three shelves) — 51900674
- Four levels (replacing three shelves) — 51900614

**USB interface**
- For data documentation 51900930 51900930

**Upgrade kit**

**3 gas tight inner doors**
- for segmented access for stainless/copper incubator 50115496 —

**8 gas tight inner doors**
- for segmented access for stainless/copper incubator — 50115495

**Shelves**
- Half-width, stainless steel instead of full-width shelves — 50067226
- Shelves, half-width, copper instead of full-width shelves — 50067227

**Retrofit kit IR sensor**
- 50054735 50054735

**Change door hinge**
- 51916852 51916853

**USB interface**
- 50116853 50116854

**Retrofit kit door lock**
- 50072430 50072430

**Accessories**

**Security door lock**
- 50072430 50072430

**Support frame**
- 290 mm / 7.9 in (without castors) 50051376 50051375
- 185 mm / 7.3 in (with castors, height incl. castors) 50051436 50051435
- 780 mm / 30.7 in (without castors) 50051496 50051495

**Support frame cart with drawers/casters**
- 780 mm / 30.7 in, three drawers, for four castors 50056459 50056458

**Castor set**
- 100 mm / 3.9 in, four castors for support frames no. 50051376, 50051436, 50051496, and 50051495 50052528 50052527

**Stack adapter**
- for 150i unit: to stack up with BB 806 50051376, 50051436, 50051496, and 50051495 50052528 50052527
- for 240i unit: to stack up with BB 6220 or B 5060/B 5061 50051376, 50051436, 50051496, and 50051495 50052528 50052527
- for 240i unit: for field retrofit of up to 4 levels (comes with 3 shelves) 50052528 50052527

**HERAtray, stainless steel**
- shelf tray 1/2 width, for half-width shelf, four pieces — 50068509
- shelf tray 1/2 width, for half-width shelf, four pieces — 50068508

**HERAtray, all copper**
- shelf tray 1/2 width, two pieces 50061050 —
- shelf tray 1/3 width, three pieces 50051914 50051913
- shelf tray 1/4 width, four pieces — 50068509

**HERAtray, all copper**
- shelf tray 1/2 width, two pieces 50061050 —
- shelf tray 1/3 width, three pieces 50051914 50051913
- shelf tray 1/4 width, four pieces — 50068509

**Additional shelf, full-width**
- stainless steel, incl. two support bars 50051909 50051908
- stainless steel, reinforced, incl. two support bars 50077597 —
- stainless steel, reinforced, incl. two support bars 50077586 —

**Additional shelf, half-width**
- copper, incl. two support bars 50068579 50068578

**IR-CO₂ gas sensor**
- 50068523 50068522

**USB interface**
- For data documentation 50068530 50068531

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1 Standard equipment includes air-jacket heating, ContraCools decontamination routine, right hinged door.

2 Options marked with **reened** fit with HERAcell units.

3 Fitted by service engineers.

**www.thermo.com/incubators**

**North America:** USA/Canada +1 866 984 3786

**Europe:** Austria +43 1 901 40 18, Belgium +32 2 482 30 50, France +33 2 2803 2000, Germany national toll free 0800-1-536 376, Germany international +49 6184 90 6940, Italy +39 02 09509 434-254, Netherlands +31 76 571 4440, Nordic countries +358 9 329 100, Russia/DEN +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

**Asia:** China +86 21 6865 6398 or +86 10 6419 3586, India +91 22 6718 2280, Japan +81 45 453 9220, Other Asian countries +852 2895 4613

**Countries not listed:** +49 6184 90 6940 or +33 2 2803 2000