GALAXY®
DIRECT HEAT CO₂ INCUBATORS
EXPANDING THE CELL CULTURE UNIVERSE WITH SUPERIOR PERFORMING 14 - 170 LITER SYSTEMS

New Brunswick
an eppendorf company
Galaxy® CO₂ Incubators

Now, the Galaxy line has been improved to offer even more standard features, better performance and a wider range of options.

Galaxy CO₂ Incubators were originally developed by RS Biotech, which is today a part of New Brunswick Scientific (NBS). These incubators were the first to offer a direct heat, fanless design — transforming the way cell culture is accomplished and making traditional water-jacketed incubators a rusty relic of the past.

By providing more incubation capacity, in a smaller footprint, with more options and a significant decrease in contamination risk compared to water-jacketed systems, Galaxy CO₂ incubators are easier to maintain, setup and utilize, while providing superior performance. These elements have made Galaxy systems a favorite among discerning scientists in in-vitro fertilization (IVF), stem cell research, as well as traditional cell culture.

Since 1991, Galaxy CO₂ incubators have offered researchers and clinical labs a reliable and user-friendly system for culturing cells.

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Galaxy incubators... meeting your cell culture demands today, and into the future.
NBS Galaxy incubators are offered in a range of three sizes and two models, with an unrivaled number of options.

All Galaxy incubators feature:

**SIX-SIDED, DIRECT HEATING PROFILE:**
Pioneered in Galaxy incubators, the unique direct-heat profile gently bathes the cells in a consistent atmosphere through gentle convection. This system guards against wide fluctuations in temperature and CO₂ that can shock cells, as seen in traditional forced-air culture systems.

**FANLESS DESIGN:**
Galaxy incubators pioneered elimination of conventional fans, replacing them with our unique heating profile, which sets up a gentle circulation of air. By removing the fan, Galaxy incubators have eliminated a classic source of repeated contamination, allowing the entire incubator — including upper shelf — to be utilized while maintaining uniformity. In addition, since there is no fan, there is no need for an expensive internal HEPA filter that needs to be replaced frequently.

**IR CO₂ SENSOR:**
Standard in all Galaxy models, is our unique InfraRed (IR) CO₂ sensor. This sensor offers specific measurement and accurate control of CO₂ levels. The traditional thermal conductivity (TC) sensor is highly sensitive to changes in chamber humidity and temperature fluctuations, and is therefore fundamentally unsuitable for use in CO₂ incubators. Uniquely, the Galaxy IR Sensor can remain in the chamber during the entire high-temperature disinfection cycle, ensuring that all chamber components are sterilized.

**SIMPLIFIED CLEANING:**
On all models, the chambers are pressed from a single sheet of stainless steel, with no welds or seams, eliminating another potential source of contamination. In combination with the easily-removable, replaceable shelves, this makes chamber cleaning a rapid and efficient process, so more time can be spent engaged in science and less with maintaining the instrument.

**UNIQUE RANGE OF MODEL SIZES:**
In common with our 170 liter incubators, our 48 liter and 14 liter incubators incorporate all of the superior design and innovation of the larger units, in a smaller format. These units offer the ideal environment for hypoxic applications, research requiring isolation, and IVF research.

**OPTIONS: (see page 10 for added details)**
Galaxy CO₂ incubators come with a wide variety of options allowing customization to meet your exact requirements and level of sophistication. With High-Temperature Disinfection (HTD), three levels of O₂ control, and new active disinfection and humidification options, there is a Galaxy incubator for every application.

**NEW FEATURES:**
- **25mm Access Port Standard**
  Available for adding instrumentation or additional probes.
- **RS-232 Port Standard**
  For communication and external instrument logging.
- **Perforated Shelves**
  The unique design of the perforated shelving system optimizes temperature, CO₂ and especially RH recovery to minimize the effects of door openings and closings.
- **Innovative Sealed Inner Glass Door**
  Available on 170 liter models, the new sealed inner glass door system allows viewing access to the samples while maintaining complete sample and environmental integrity. This system is designed to minimize costly CO₂ and N₂ consumption and to provide optimal sample stability and uniformity throughout the culturing process.
CONTROLLER:
The R Series CO₂ incubator’s advanced display screen and controller allow for comprehensive and rapid analysis of real time and historical conditions:
• 72-hour continuous data logging of temperature, alarms, door openings and CO₂, O₂ and RH if required, provides a detailed record of environmental conditions to quickly troubleshoot any unexpected results.
• Capability to quickly change both environmental and alarm settings through intuitive controller.
• Diagnostic interface to show system parameters and functions.
• Password protection for secure programmable settings and alarm setpoints.
• On-screen troubleshooting and help.

OPTIONS (see page 10 for details):
• High-temperature disinfection.
• O₂ Control (choose 1 - 19%, 0.1 - 19%, or 1 - 95%).
• Active humidification.
• UV disinfection.
• Cooling feature.
• 4- or 8-Split sealing inner glass doors.
• Copper chamber and interior.
• BMS alarm relay contacts.
• Humidity alert package (display and alarm).
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GALAXY 170 S
The S Series Galaxy incubator provides the same high level of performance as the R Series, but uses an easily-read LED display for the interface, representing an excellent, value-priced model. The 170 S Series is ideal for traditional applications where standard incubation is required. It is also available with high-temperature disinfection option, providing an added level of reassurance against contamination.

FEATURES:
- Direct heat.
- 170 liter, 6.0 cu. ft. on a minimal footprint.
- IR CO2 sensor with automatic auto-zero programmable function to ensure accurate calibrated measurements.
- Seamless chamber.
- 25mm Access port.
- Perforated shelving.
- Sealed inner glass door for atmosphere conservation.
- RS-232 Communications port.
- Stackable up to two units high.
- Large volume humidification pan with dedicated, independent heater.
- Quick and comprehensive chamber cleaning made effortless.
- HEPA filtration of gas supply inlets to minimize contamination risk.
- 4-position shelving rack with 4 shelves.

OPTIONS (see page 10 for details):
- High-temperature disinfection.
- 4- or 8-Split sealing inner glass doors.
- Copper chamber and interior.
- BMS alarm relay contacts.

All Galaxy S models feature an easy-to-use keypad with LED display of temperature and CO2 level. Model 170 S shown.

Galaxy’s unique six-sided direct-heating profile produces a very gentle convection circulation of chamber atmosphere for exceptionally uniform temperature and incubator environment.

Newly-designed sealed inner glass door, described on page 3, is standard on all 170 models. Shelf depth has been reduced to optimize user access to all samples.
The Galaxy 48 R & S Series provide the luxury of owning a single-user, personal-sized 48 liter (1.7 cu. ft.) incubator. They offer the same standard features as the larger 170 liter models, including fanless design to allow for maximum capacity. Galaxy 48 models easily fit on a benchtop for laboratories requiring small volume cell culture, and are ideal for isolation studies such as viral work.

Choose full-featured R Series or economical S Series models:

**GALAXY 48 R**

Galaxy 48 R incubators feature an integrated and heated outer-door window to allow viewing your cultures without compromising the culture environment. They are ideally suited for hypoxic applications, including in-vitro fertilization (IVF) and stem cell research, with O\textsubscript{2} control option. The relatively compact 48 liter chamber substantially reduces the significant gas consumption often encountered when using larger incubators.

**CONTROLLER:**

The controller offers the same 72-hour data logging and diagnostic interface as on the 170 R described on page 4. Examples of graphical logging and alarm screens are shown below.

**FEATURES:**

- Convenient benchtop size and footprint — only 48 x 47 cm (18.9” x 18.5”).
- Integrated, heated, viewing window in outer door allows observation without disturbing cultures.
- Seamless, fanless design.
- RS-232 and 25mm access port.
- Stackable.
- Low gas consumption.
- Perforated shelving to facilitate faster recoveries.
- Large volume humidity pan.
- CO\textsubscript{2} HEPA filtration.

**OPTIONS (see page 10 for details):**

- High-temperature disinfection.
- O\textsubscript{2} control (Choose 1-19%, 0.1-19%, 1-95%).
- Two split inner glass doors.
- Humidity alert package (display and alarm).
- BMS management system relays.

Temperature, humidity, CO\textsubscript{2} control, door openings and alarms are captured in a 72-hour downloadable record, and shown on the large display for easy monitoring.

Chamber alarm screen enables password protected alarm setting and easy access to any alarm information.
Galaxy 48 S

Galaxy 48 S Series incubators are entry-level models, offering the same superior performance as 48 R models. The S Series use an easily-read LED interface and includes an integrated viewing window, standard 25mm access port and RS-232 communications package. They are ideal for laboratories with limited space to house large incubators, or for standard cell culture applications where the larger 170 liter capacity systems are not required.

Features:
- Small footprint with mid-sized capacity.
- Seamless chamber.
- Fanless design.
- 25mm access port.
- RS-232 port.
- User-friendly LED display.

Options (see page 10 for details):
- BMS management system relays.
- Two split inner glass doors.

All Galaxy incubators feature a seamless chamber, with no corners, seams or welds, to minimize contamination risk.
Galaxy® 14 Liter Micro-Size Incubators

Galaxy 14 S is a unique, mini-sized 14 liter (0.5 cu. ft.) CO₂ incubator — originally designed for but not limited to in-vitro fertilization (IVF) work. Its compact size is ideal for individually supporting and isolating cultures for specific patients or samples. The 14 S easily fits into IVF workstations and under laminar flow hoods for complete minimization of contamination risk.

It is ideal for stem cell and IVF applications, including oocyte collection and preparation, pre-implantation diagnostics, embryo transfers, and sperm preparation. When adding the 1 - 19% oxygen control option, the 14 S becomes a small hypoxic incubator, consuming a minimal amount of nitrogen.

GALAXY 14 S

The 14 S provides an LED interface with RS-232 and 25mm access port as standard. A small footprint, yet spacious chamber, allows for specific applications to be carried out in isolation from general cell culture, ensuring assay validity.

FEATURES:
- Convenient benchtop size and footprint.
- Size allows for incorporation in workstations and laminar hoods.
- Seamless, fanless chamber design.
- RS-232 and 25mm access port standard.
- Low gas consumption.
- Perforated shelving to allow for faster recoveries.
- External CO₂ supply line HEPA filtration.

OPTIONS (See page 10 for details):
- 1 - 19% O₂ control.
- Single inner glass door.
- BMS alarm relay contacts.

Using Galaxy’s advanced 1 - 19% oxygen control option, stem cells can be cultured in near-to in-vivo conditions, avoiding cell differentiation.

Rapid recovery of temperature, CO₂ and RH after door opening is facilitated with our unique new perforated shelf design.
FAQs and Specialized Applications

FREQUENTLY ASKED QUESTIONS, ALL MODELS

Q. I am hesitant to move from a water-jacketed incubator to a direct heat system. Why should I switch?
A. While water-jacketed (WJ) incubators have, in the past, been suitable for generalized cell culture, they truly are an outdated technology. WJ incubators are bulky, often taking up valuable lab space, offer less capacity in relation to that space, have lower performance and control, are difficult to maintain and do little to prevent contamination. High-temperature disinfection is also not possible in WJ designs. The direct-heat design provides an innovative solution to these issues and is ideal for culture in today’s laboratory.

Q. I am interested in the high-temperature disinfection (HTD) option for periodic preventative maintenance. What can you tell me about its effectiveness?
A. The Galaxy has a 120°C 4-hour HTD cycle that has been shown to be very effective in controlling contaminants. See www.nbsc.com/galaxy for downloadable report. Sterility is a function of temperature and time in these cases. The CO₂ sensor does not have to be removed from the unit, making running the HTD cycle efficient, rapid, and effective.

Q. I may want to add the O₂ control option to my Galaxy incubator at a later date. Can this be retrofitted?
A. The O₂ control feature cannot be field retrofitted and is only factory installed. We suggest ordering it at the time of purchase to provide a single incubator that will meet your requirements for many years to come.

Q. Can I externally data log my incubators?
A. Yes, all new Galaxy incubators come with an integrated RS-232 port that allows data to be logged remotely using BioCommand® SFI software.

Q. How should I clean/disinfect my Galaxy incubator?
A. Currently, the only acceptable disinfecting agent is a solution of 70% Isopropanol (isopropyl alcohol) and 30% distilled water. Carefully follow the cleaning guidelines described in your user’s manual.

Q. Are there any parts which should be regularly renewed on my Galaxy?
A. Yes. Replace the CO₂ supply line HEPA filter and auto-zero HEPA filter* at least once per year. (* Auto-zero filter used in R models only.)

Q. Do you offer an incubator that can be run at around or below the ambient temperature of my lab?
A. Yes, we can offer the Galaxy 170 R with cooling option. The cooled incubator can be used normally at 37°C or other temperature above ambient, and also works at temperatures as low as 10°C below ambient.

Q. I see that Galaxy 170 incubators have a door hinge on the left side. Can I order it hinged on the right?
A. Yes, but we apply a surcharge for this non-standard arrangement; and delivery time will be longer.

STEM CELL APPLICATIONS

Stem cell research is advancing at a rapid pace and recent studies have shown that for many cell types, an environment closer to the physiological oxygen concentrations (2 - 5%) the cells normally encounter in-vivo can result in:
- smaller cells with reduced complexity
- reduced spontaneous differentiation
- increased clonogenicity
- reduced spontaneous chromosomal aberration frequencies
- extensive propagation of specialized clonal derivative cells.

Galaxy CO₂ incubators allow stem cell scientists greater choice and flexibility in controlling cellular O₂ levels than any other brand of CO₂ incubator. The features and design of Galaxy incubators make them ideal for this critical and sensitive emerging field of study.

IVF APPLICATIONS

Galaxy CO₂ incubators offer a direct-heating system which gently bathes cells in warm convected air. In addition, we offer highly regulated CO₂ and O₂ environments with the ability to closely mimic physiological normoxic conditions and to provide the optimal environment for stem cell work. Rapidly emerging stem cell technology requires a greater sophistication in the incubation process than traditional incubators can provide.

With the availability of three different ranges of oxygen control (0.1 – 19%, 1 - 19%, 1 - 95% O₂ ranges) Galaxy incubators offer stem cell scientists greater choice and flexibility in controlling cellular O₂ levels than any other brand of CO₂ incubator.

Wide choice of O₂ control options:
1 - 19%, 1 - 95%, or 0.1 - 19%

Specialized IVF service and support
New Brunswick has a dedicated global network of specialist IVF distributor partners, who have in-depth knowledge and specialist technicians who can respond immediately and restore correct function to your incubator.

With the many unique advantages that Galaxy CO₂ incubators offer, together with unparalleled support and service, it is not surprising that they have become the incubators of choice in IVF-clinics.
CUSTOMIZE YOUR INCUBATOR WITH THESE OPTIONS

HIGH TEMPERATURE DISINFECTION:
Available on the 170 R & S, and 48 R models.
- 120°C 4-hour cycle.
- Convenient and simple operation.
- CO₂ Sensor remains in the chamber.
- Ensures a clean and disinfected environment for cell culture.

O₂ CONTROL:
Available on the 170 R, 48 R, and 14 S.
- Up to three levels of control options.
- 1 - 19% for most common hypoxic applications.
- 0.1 - 19% for more stringent oxygen requirements.
- 1 - 95% for hyperoxic and hypoxic incubation.
- Ideal for Stem Cell, Oncology, and IVF studies.

NEW ACTIVE HUMIDIFICATION SYSTEM (AHS):
Available on the 170 R.
- Rapid humidification of the CO₂ chamber.
- User-defined humidification settings to 95%.
- Non-condensing humidity.
- Ideal for low sample volume and microtiter plate applications.
- External UV disinfection of humidified atmosphere.

NEW COOLING SYSTEM:
Available on the 170 R.
- Allows studies at or below ambient temperature.
- Effectively cools to 10°C below ambient temperature.
- Redesign offers an efficient and uniformly cooled chamber.

UV DISINFECTION SYSTEM:
Available on the 170 R.
- Active and continuous UV disinfection of internal atmosphere.
- Gently passing air over an external UV module.
- No risk to cells of UV exposure.

BUILDING MANAGEMENT SYSTEM (BMS) RELAY:
Available on all models.
- Relay for integration with building alarm system.

COPPER CHAMBER:
Available on 170 R and S.
- Oxidizing copper chamber provides an added contamination protection.

SPLIT INNER DOORS:
Available on 170 R & S, and 48 R & S.
- 4 or 8 Split inner glass door options available on 170 R & S models.
- 2-Split inner glass door option available on 48 R & S models.
- Offers enhanced chamber temperature uniformity and reduced gas consumption.
- Maintains easy access to samples.

BIOCOMMAND® SFI:
Available on all models.
- NBS data logging and control software designed specifically for our CO₂ Incubators.
- Provides historical data logging and report generation to local computer, and for multiple units.
- Connects through RS-232 port.
<table>
<thead>
<tr>
<th>Galaxy Incubator Model **</th>
<th>170 R</th>
<th>170 S</th>
<th>48 R</th>
<th>48 S</th>
<th>14 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard, 120V</td>
<td>CO170R-120-0000</td>
<td>CO170S-120-0000</td>
<td>CO48R-120-0000</td>
<td>CO48S-120-0000</td>
<td>CO14S-120-0000</td>
</tr>
<tr>
<td>With High-Temp. Disinfection, 120V</td>
<td>CO170R-120-1000</td>
<td>CO170S-120-1000</td>
<td>CO48R-120-1000</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>With 1 - 19% O₂ Control, 120V</td>
<td>CO170R-120-0200</td>
<td>CO48R-120-0200</td>
<td>—</td>
<td>—</td>
<td>CO14S-120-0200</td>
</tr>
<tr>
<td>With High-Temp. &amp; 1-19% O₂ Control, 120V</td>
<td>CO170R-120-1200</td>
<td>CO48R-120-1200</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>With High-Temp. &amp; 1-19% O₂ Control, 230V</td>
<td>CO170R-230-1200</td>
<td>CO48R-230-1200</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

**Additional Factory-Installed Options**

- O₂ Control, 0.1 - 19%: P0628-5410 — P0628-6280 — — —
- O₂ Control, 1 - 95%: P0628-5400 — P0628-5260 — — —
- Cooling System (below ambient): P0628-6810 — — — —
- Active Humidification: P0628-6800 — — — —
- Active UV Disinfection System: P0628-6790 — — — —
- Building Management System Relays: P0628-5540 P0628-5651 P0628-5340 P0628-5340 P0628-6300
- Single Inner Glass Door: Standard Standard — — P0628-6210
- Split Inner Doors - 2: — — P0628-5330 P0628-5330 —
- Split Inner Doors - 4: P0628-6780 P0628-6780 — — —
- Split Inner Doors - 8: P0628-6781 P0628-6781 — — —
- Humidity Alert Package (Display and Alarm): P0628-6820 — P0628-6770 — —
- Copper Chamber: P0628-5612 P0628-5612 — — —

**Accessories - Gas Management & Analysis**

- Two Stage CO₂ Regulator: P0628-5010 P0628-5010 P0628-5010 P0628-5010 P0628-5010
- Two Stage N₂ Regulator: P0628-7220 P0628-7220 — — —
- CO₂ Supply Line HEPA Filters (2): P0628-5020 P0628-5020 P0628-5020 P0628-5020 P0628-5020
- CO₂ In-line Pressure Regulator: P0628-5030 P0628-5030 P0628-5030 P0628-5030 P0628-5030
- CO₂ Cylinder Auto-Changeover Controller: P0628-5050 P0628-5050 P0628-5050 P0628-5050 P0628-5050
- CO₂ Gas Analyzer Kit: P0628-5040 P0628-5040 P0628-5040 P0628-5040 P0628-5040
- Spare CO₂ Gas Analyzer Tubes (10): P0628-5050 P0628-5050 P0628-5050 P0628-5050 P0628-5050
- Electronic CO₂ Gas Analyzer: P0628-6150 P0628-6150 P0628-6150 P0628-6150 P0628-6150
- Electronic CO₂ & O₂ Gas Analyzer: P0628-6831 P0628-6831 P0628-6831 P0628-6831 P0628-6831
- Electronic CO₂ & O₂ Gas A. w/ °C & RH meas.: P0628-6832 P0628-6832 P0628-6832 P0628-6832 P0628-6832
- Calibration Gas 5%, 20 Liter Disposable Canister: P0628-7211 P0628-7211 P0628-7211 P0628-7211 P0628-7211
- Control Valve & Flow Indicator for 20 Liter Canister: P0628-6061 P0628-6061 P0628-6061 P0628-6061 P0628-6061
- Calibration Gas 5%, 105 Liter Disposable Canister: P0628-7210 P0628-7210 P0628-7210 P0628-7210 P0628-7210
- 0.3 liter/min Flow Regulator w/ pressure Gauge†: P0628-7221 P0628-7221 P0628-7221 P0628-7221 P0628-7221

**Accessories - Shelves, Pans & Stacking Stand**

- Additional Shelf, non-perforated: P0628-6241 P0628-6241 P0628-5070 P0628-5070 P0628-6180
- Additional Shelf, perforated: P0628-6251 P0628-6251 P0628-5080 P0628-5080 P0628-7200
- Lower and Upper Stacking Frame, with casters: P0628-6270 P0628-6270 P0628-5091 P0628-5091 —
- Lower Frame, with casters: P0628-6490 P0628-6490 P0628-5090 P0628-5090 —
- Upper Stacking Frame: P0628-7260 P0628-7260 P0628-6720 P0628-6720 —
- Wall Mounting Frame for 2 Incubators: — — — — P0628-6230

**Accessories - Electronics & Software**

- BioCommand® SFI Software: M1291-0054 M1291-0054 M1291-0054 M1291-0054 M1291-0054

**Part numbers subject to change without notice. Additional incubator configurations are also available. Ordering them, or ordering custom options, will affect delivery and shipping. Not all options are compatible. Ask your NBS Sales Rep for quotation. All models are 50/60 Hz units.**
† For Reusable 105 liter cylinder.
† Please check availability before ordering. Cooling option cannot be combined with High Temperature Disinfection options.
# Galaxy® Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Galaxy 170 R &amp; S</th>
<th>Galaxy 48 R &amp; S</th>
<th>Galaxy 14 S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chamber</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume</td>
<td>170 liters / 6.0 cu. ft.</td>
<td>48 liters / 1.7 cu. ft.</td>
<td>14 liters / 0.5 cu. ft.</td>
</tr>
<tr>
<td><strong>Temperature Management</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>4°C above ambient to 50°C</td>
<td>4°C above ambient to 50°C</td>
<td>5°C above ambient to 50°C</td>
</tr>
<tr>
<td>Control</td>
<td>± 0.1°C</td>
<td>± 0.1°C</td>
<td>± 0.1°C</td>
</tr>
<tr>
<td>Stability</td>
<td>± 0.1°C</td>
<td>± 0.1°C</td>
<td>± 0.1°C</td>
</tr>
<tr>
<td>Uniformity</td>
<td>± 0.3°C</td>
<td>± 0.3°C</td>
<td>± 0.2°C</td>
</tr>
<tr>
<td><strong>CO₂ Gas Management</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>0.2 – 20%</td>
<td>0.2 – 20%</td>
<td>0.2 – 20%</td>
</tr>
<tr>
<td>Control</td>
<td>± 0.1%</td>
<td>± 0.1%</td>
<td>± 0.1%</td>
</tr>
<tr>
<td>Stability</td>
<td>± 0.2%</td>
<td>± 0.2%</td>
<td>± 0.2%</td>
</tr>
<tr>
<td>Uniformity</td>
<td>± 0.1%</td>
<td>± 0.1%</td>
<td>± 0.1%</td>
</tr>
<tr>
<td>Recovery (up to 90% setpoint)</td>
<td>0.7%/minute</td>
<td>0.7%/minute</td>
<td>&gt; 0.7%/ minute</td>
</tr>
<tr>
<td>Connections</td>
<td>6mm tubing</td>
<td>6mm tubing</td>
<td>6mm tubing</td>
</tr>
<tr>
<td>Gas Service Pressure</td>
<td>0.35 bar / 5 psi</td>
<td>0.35 bar / 5 psi</td>
<td>0.35 bar / 5 psi</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reservoir</td>
<td>Removable stainless pan</td>
<td>Removable stainless pan</td>
<td>Removable stainless pan</td>
</tr>
<tr>
<td>Volume</td>
<td>2.5 liters</td>
<td>0.5 liters</td>
<td>0.3 liters</td>
</tr>
<tr>
<td>RH (@ 37°C)</td>
<td>up to 96%</td>
<td>Normal 90 - 95%</td>
<td>&gt; 90% at 37°C</td>
</tr>
<tr>
<td><strong>Shelves</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions per Shelf ø</td>
<td>51.9 x 42.6 cm (20.4” x 16.8”)</td>
<td>35.1 x 26.1 cm (13.8” x 10.3”)</td>
<td>22.0 x 18.4 cm (8.7” x 7.2”)</td>
</tr>
<tr>
<td>Shelves Provided</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Adjustability</td>
<td>R: 8 position. S: 4 position</td>
<td>6 position</td>
<td>4 position</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chamber (mm)</td>
<td>540 x 451 x 893 mm</td>
<td>401 x 308 x 401 mm</td>
<td>233 x 208 x 294 mm</td>
</tr>
<tr>
<td>Chamber (inches)</td>
<td>21.3” x 17.8” x 34.9”</td>
<td>15.8” x 12.1” x 15.8”</td>
<td>9.2” x 8.2” x 11.6”</td>
</tr>
<tr>
<td>External (mm)</td>
<td>685 x 677 x 848 mm</td>
<td>484 x 475 x 648 mm</td>
<td>313 x 285 x 454 mm **</td>
</tr>
<tr>
<td>External (inches)</td>
<td>27” x 26.7” x 33.4”</td>
<td>19.1” x 18.7” x 25.5”</td>
<td>12.3” x 11.2” x 17.9”</td>
</tr>
<tr>
<td>Shipping Container (mm)</td>
<td>830 x 830 x 1100 mm</td>
<td>630 x 630 x 920 mm</td>
<td>580 x 440 x 400 mm</td>
</tr>
<tr>
<td>Shipping Container (inches)</td>
<td>32.7” x 32.7” x 43.3”</td>
<td>24.8” x 24.8” x 36.2”</td>
<td>22.8” x 17.3” x 15.7”</td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>120 V &amp; 220 - 240 V, 50/60 Hz</td>
<td>100 - 120 V &amp; 220 - 240V, 50/60 Hz</td>
<td>100 - 120 V &amp; 220 - 240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power</td>
<td>500 W</td>
<td>500 W</td>
<td>700 W</td>
</tr>
<tr>
<td>Power, High Temp. Option</td>
<td>1000 W</td>
<td>1000 W</td>
<td>N/A</td>
</tr>
<tr>
<td>Consumption to 37°C</td>
<td>&lt; 0.08 kWh</td>
<td>&lt; 0.1 kWh</td>
<td>&lt; 0.06 kWh</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net</td>
<td>90 kg / 198 lbs</td>
<td>32 kg / 71 lbs</td>
<td>12.5 kg / 28 lbs</td>
</tr>
<tr>
<td>Shipping</td>
<td>115 kg / 254 lbs</td>
<td>50 kg / 110 lbs</td>
<td>18.5 kg / 41 lbs</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE Certified</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Specifications subject to change without notice. All tests performed at ambient temp. of 22°C, the incubator set at 37°C and 5% CO₂. Recovery data follows a 15 second door opening. ø Shelf dimensions are shown wide x deep x high. ** Galaxy 14 S Dimensions are for single unit. When double-stacked, allow 313 x 285 x 887 mm (12.3” x 11.2” x 34.9”). † O₂ sensor has a one year warranty.

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