

# Innovative technology for outstanding versatility



| Features                                             | Compact Incubator | General protocol incubators |                | Advanced protocol incubators        | Advanced protocol security incubators |                                     |
|------------------------------------------------------|-------------------|-----------------------------|----------------|-------------------------------------|---------------------------------------|-------------------------------------|
|                                                      | Table top         | Table top                   | Large capacity | Table top                           | Table top                             | Large capacity                      |
| Temperature range                                    | 17 - 50 °C        | ambient +5 °C - 75 °C       |                | ambient +5 °C - 105 °C              |                                       | ambient +5 °C - 105 °C              |
| Convection technology                                | Mechanical        | Gravity                     |                | Dual                                |                                       | Mechanical                          |
| Fan speed adjustable                                 | •                 | •                           |                | 6 speeds                            |                                       | gentle / fast                       |
| Rounded corners                                      | ✓                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Microprocessor control                               | ✓                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Automatic overtemperature alarm (audible and visual) | •                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Access port                                          | •                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Stackable                                            | •                 | ✓                           | •              | ✓                                   | ✓                                     | •                                   |
| Stainless steel interior                             | •                 | AISI 430                    |                | AISI 304                            |                                       | AISI 304                            |
| RS232 interface                                      | •                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Internal glass door                                  | •                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Easy calibration routine                             | ✓                 | ✓                           |                | ✓                                   |                                       | ✓                                   |
| Timer functions                                      | •                 | On / Off                    |                | choice of weekly/ hourly/ real time |                                       | choice of weekly/ hourly/ real time |
| Dry alarm contact for connection of alarm device     | •                 | •                           |                | ✓                                   |                                       | ✓                                   |
| Optional stainless steel exterior                    | •                 | •                           |                | •                                   |                                       | ✓                                   |
| Certified decontamination cycleup                    | •                 | •                           |                | •                                   |                                       | ✓                                   |
| Automatic undertemperature alarm                     | •                 | •                           |                | •                                   |                                       | ✓                                   |
| Door alarm                                           | •                 | •                           |                | •                                   |                                       | ✓                                   |
| Lockable door                                        | •                 | •                           |                | •                                   |                                       | ✓                                   |
| Connection for optional sample temperature sensor    | •                 | •                           |                | •                                   |                                       | ✓                                   |
| Lockable door                                        | •                 | •                           |                | •                                   | ✓                                     | •                                   |
| Connection for optional sample temperature sensor    | •                 | •                           |                | •                                   | ✓                                     |                                     |

\*Class 3.1 overtemperature protection, just without the hassle of setting manually. Note: All units have doors with 180° door opening for easy access.

## Three airflow technologies

### 01

#### Gravity convection

provides gentle airflow, with minimized drying out of samples. The best choice for applications with open plates or open containers.

### 02

#### Mechanical convection

provides even higher temperature uniformity and stability to ensure an optimal environment for your samples. Fan enables fast recovery time after opening the door. A mechanical convection incubator can even be used for drying applications at high temperature settings – eliminating the need for an additional incubator.

### 03

#### Dual convection

is a unique technology which allows the operator to choose the fan speed – from 0% (which equals gravity convection) up to 100%. Depending on the application, the speed can be adapted to provide optimal airflow for your valuable samples. Even at 0% fan speed, temperature uniformity and stability are great.



# Select the right model for your needs

| Application                      | Material/<br>solution | Sample requirements                                                               | Recommended solution                                                                                                                                                                                                                                                                               |
|----------------------------------|-----------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bacterial research               | Bacteria              | Temperatures between 30°C and 70°C                                                |                                                                                                                                                                                                                                                                                                    |
| Microbiology                     | Microorganisms, cells | Temperatures between 30°C and 70°C                                                | General Protocol, Advanced Protocol or Advanced Protocol Security for highest temperature accuracy, and time control                                                                                                                                                                               |
| Coliform determination           | Bacteria              | Temperature around 37°C                                                           |                                                                                                                                                                                                                                                                                                    |
| Histology                        | Tissue                | Temperature around 37°C                                                           |                                                                                                                                                                                                                                                                                                    |
| Paraffin embedding               | Paraffin              | Temperatures of 37°C to around 50°C                                               |                                                                                                                                                                                                                                                                                                    |
| Egg incubation                   | Eggs                  | Temperature around 37°C                                                           | General Protocol, Advanced Protocol or Advanced Protocol Security for highest temperature accuracy, and time control                                                                                                                                                                               |
| Heated storage                   | Media, samples        | Temperature depends on material and specific application – between 30°C and 105°C | General Protocol for temperatures up to 75°C, Advanced Protocol or Advanced Protocol Security for highest temperature accuracy, and time control – up to 105°C                                                                                                                                     |
| Gene cloning                     | Bacteria, cells       | Temperature around 37°C                                                           | Advanced Protocol for highest temperature accuracy and time control Advanced Protocol Security with additional safety features for peace of mind                                                                                                                                                   |
| Pharmaceutical stability testing | Various               | Temperatures of 37°C up to 105°C                                                  |                                                                                                                                                                                                                                                                                                    |
| Food and beverage testing        | Various               | Temperatures of 37°C up to 105°C                                                  |                                                                                                                                                                                                                                                                                                    |
| BOD/water pollution testing      | Water                 | Temperature around 20°C                                                           | Compact                                                                                                                                                                                                                                                                                            |
| Yeast growth                     | Yeast                 | Temperatures between 10°C and 37°C                                                | General Protocol for temperatures above ambient +5°C                                                                                                                                                                                                                                               |
| Hatching of insects, fish        | Insects               | Temperature near or below ambient                                                 | Advanced Protocol or Advanced Protocol Security for highest temperature accuracy or Compact for temperatures as low as 17°C.<br><br>For lower temperatures check the Heratherm refrigerated models at <a href="http://www.thermoscientific.com/incubators">www.thermoscientific.com/incubators</a> |

## Footprint Comparison\*



Making best use of valuable space in your lab, Heratherm microbiological incubators are designed with a very small footprint ratio compared to the interior volume. In addition they are stackable without the need of any tools or stacking devices.\*\*

manufacturer A  
manufacturer B

## Maximized space efficiency



\*Based on competitors' published specs;

\*\*Optional stacking kit only required if decon cycle or oven is used below, or for stacking different sizes

# Heratherm Compact Microbiological Incubator

The most compact unit of the Heratherm Microbiological Incubator family has an 18 L capacity, ideal for a personalized workspace



Heratherm Compact  
Microbiological Incubator, 18 L



Easy to use interface

## Smart solution for small volume applications

- Minimal footprint for space restricted lab areas and mobile use, for e.g. for veterinary care
- Broad temperature range for e.g. yeast growth (at 25 °C), microbiological incubation (at 37 °C), storage (at defined temperature)
- Temperatures from below ambient (as low as 17 °C) up to 50 °C
- Energy consumption is as low as 14 W (at 37 °C), due to energy efficient Peltier technology
- Easy calibration routine for high temperature accuracy
- Internal light facilitates sample observation

## Use for Campylobacter testing

Campylobacter species have been identified as the second most common cause of foodborne illness in the U.S. behind Salmonella, and number one cause of foodborne diarrhea in Europe.

Effective testing methods for diagnosis and treatment require culturing the bacteria at 41.5° to 42°C. The use of anaerobe jars or gas packs is recommended, since low oxygen conditions improve the growth.

| Order numbers                              | 50125882                             | 50129111                  | 50140500                                      |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------------------|
| Model                                      |                                      | IMC18                     | IMC18 with door cover                         |
| Door                                       | Standard / with window               | Intransparent / no window |                                               |
| Convection technology                      | Mechanical convection                |                           |                                               |
| Temperature range (°C)                     | 17 °C to 50 °C                       |                           |                                               |
| Spatial temperature deviation (at 37 °C)   | ± 1.2 °C                             |                           |                                               |
| Temperature deviation over time (at 37 °C) | ± 0.2 °C                             |                           |                                               |
| Footprint (m² / sqft)                      | 0.12 / 1.3                           |                           |                                               |
| Chamber volume (L / cuft)                  | approx. 18 / 0.65                    |                           |                                               |
| Chamber dimensions (mm / in (W x H x D))   | 180 x 310 x 290 / 7.1 x 12.2 x 11.4  |                           |                                               |
| Exterior dimensions (mm / in (W x H x D))  | 260 x 415 x 470 / 10.2 x 16.3 x 18.5 |                           |                                               |
| Number of shelves (standard / max)         | 2 / 3                                |                           |                                               |
| Max. shelf load (kg / lb)                  | 2 / 4.4                              |                           |                                               |
| Rated voltage / frequency (V / Hz)         | 100 - 240 / 50/60                    |                           |                                               |
| Rated power / max. current (W / A)         | 45 / 0.45 - 0.85 R                   |                           |                                               |
| Supplied plugs                             | EU, UK, AUS                          | US plug Nema 15           | Plugs for North America, EU, China, Australia |
| Weight (kg / lb)                           | 7.2 / 15.9                           |                           |                                               |
| Energy consumption at 37°C (W)             | 14                                   |                           |                                               |

Note: All figures in all tables are typical average values for series devices, based on factory standard following norm Din12880. Please contact us for certification information or IQ/OQ documents.

# Heratherm General Protocol Incubators

Designed for routine applications in pharmaceutical, medical, food and research laboratories

## Intelligent design for improved results

- Gravity convection provides gentle air flow and minimal drying out
- Temperature range from ambient +5 °C up to 75 °C
- Temperature uniformity of  $\pm 0.6$  °C
- Temperature stability of  $\pm 0.2$  °C
- Corrosion resistant stainless steel chamber (1.4016)

## Easy to use interface

- Intuitive user interface for easy temperature setting
- Large vacuum fluorescent display for easy reading
- Intuitive 24 hour timer function to program automated switch on or off



Heratherm General Protocol Microbiological Incubators, 60 L, 100 L, 180 L models



Smooth inner chamber with easy to clean rounded corners

The flexible shelf system can be removed with just a finger click to easily clean the chamber

## Specifications table/order numbers General Protocol Incubators

| Order numbers                             | 51028130                             | 51028131                             | 51028132                             |
|-------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Model                                     | IGS60                                | IGS100                               | IGS180                               |
| Convection technology                     | Gravity convection                   | Gravity convection                   | Gravity convection                   |
| Temperature range (°C)                    | ambient +5 °C to 75 °C               | ambient +5 °C to 75 °C               | ambient +5 °C to 75 °C               |
| Spatial temperature deviation at 37°C     | $\pm 0.6$ °C                         | $\pm 0.6$ °C                         | $\pm 0.6$ °C                         |
| Temperature deviation over time at 37°C   | $\pm 0.2$ °C                         | $\pm 0.2$ °C                         | $\pm 0.2$ °C                         |
| Footprint (m <sup>2</sup> / sqft)         | 0.3 / 3.2                            | 0.36 / 3.9                           | 0.47 / 5.1                           |
| Chamber volume (L / cuft)                 | 75 / 2.6                             | 117 / 4.0                            | 194 / 6.85                           |
| Interior Dimensions (mm / in (W x H x D)) | 354 x 508 x 414 / 13.9 x 20.0 x 16.3 | 464 x 608 x 414 / 18.3 x 23.9 x 16.3 | 464 x 708 x 589 / 18.3 x 27.9 x 23   |
| Exterior Dimensions (mm / in (W x H x D)) | 530 x 755 x 565 / 20.9 x 29.7 x 22.2 | 640 x 855 x 565 / 25.2 x 33.7 x 22.2 | 640 x 955 x 738 / 25.2 x 37.6 x 29.1 |
| Number of shelves (standard / max)        | 2 / 13                               | 2 / 16                               | 2 / 19                               |
| Max. shelf load (kg / lb)                 | 25 / 55                              | 25 / 55                              | 25 / 55                              |
| Rated voltage / frequency (V / Hz)        | 120 / 60                             | 120 / 60                             | 120 / 60                             |
| Rated power / max. current (W / A)        | 300 / 1.3                            | 520 / 2.3                            | 710 / 3.1                            |
| Weight (kg / lb)                          | 40 / 88                              | 51 / 112                             | 65 / 143                             |
| Energy consumption at 37 °C (W)           | 21                                   | 26                                   | 31                                   |

<sup>1</sup>Depth does not include handle/display (65mm / 2.6 in.) and distance spacer at rear (80mm / 3.1 in.); height includes the feet (35mm / 1.4 in.) NOTE: All figures in tables are typical average values for series devices, based on factory standard following norm Din12880. Please contact us for certification information or IQ/OQ documents.

# Heratherm Advanced Protocol Incubators

Exceptional temperature performance for demanding applications

## Advanced digital timer

- Turn unit on or off at specified time – can be used to interrupt cell growth at specified time: Choose from real time or hour settings
- Unit is switched on and off at specified time – no need to waste energy when unit is not in use!

## Design innovation for superior results

- Dual convection for versatility of application: fan speed adjustable from 0 to 100%
- Advanced digital timer for daily or weekly on/off cycles
- Stainless steel interior (1.4301) is easy to clean and corrosion resistant

## Advanced temperature performance

- Broad temperatures range from 5 °C above ambient to 105 °C – even suitable for drying application
- Temperature uniformity as good as  $\pm 0.2$  °C
- Temperature stability at  $\pm 0.1$  °C



**Heratherm Advanced Protocol Microbiological Incubator with unique dual convection, 180 L model pictured**

## Specifications table/order numbers Advanced Protocol Incubators

| Order numbers (coated exterior / stainless steel exterior) | 51028133 / 51028717                     | 51028134 / 51028718                     | 51028135 / 51028719                     |
|------------------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| <b>Model (coated exterior / stainless steel exterior)</b>  | IMH60 / IMH60 SS                        | IMH100 / IMH100 SS                      | IMH180 / IMH180 SS                      |
| <b>Convection technology</b>                               | Dual convection                         | Dual convection                         | Dual convection                         |
| <b>Temperature range (°C)</b>                              | Ambient +5 °C to 105 °C                 | Ambient +5 °C to 105 °C                 | Ambient +5 °C to 105 °C                 |
| <b>Spatial temperature deviation at 37°C</b>               | $\pm 0.6$ / $\pm 0.2$ °C                | $\pm 0.6$ / $\pm 0.3$ °C                | $\pm 0.6$ / $\pm 0.4$ °C                |
| <b>Temperature deviation over time at 150 °C</b>           | $\pm 0.1$ °C                            | $\pm 0.1$ °C                            | $\pm 0.1$ °C                            |
| <b>Footprint (m<sup>2</sup> / sqft)</b>                    | 0.3 / 3.2                               | 0.36 / 3.9                              | 0.47 / 5.1                              |
| <b>Chamber volume (L / cuft)</b>                           | 66 / 2.3                                | 104 / 3.67                              | 178 / 6.3                               |
| <b>Interior Dimensions (mm / in (W x H x D))</b>           | 354 x 508 x 368 /<br>13.9 x 20.0 x 14.5 | 464 x 608 x 368 /<br>18.3 x 23.9 x 14.5 | 464 x 708 x 543 /<br>18.3 x 27.9 x 21.4 |
| <b>Exterior Dimensions (mm / in (W x H x D))</b>           | 530 x 755 x 565 /<br>20.9 x 29.7 x 22.2 | 640 x 855 x 565 /<br>25.2 x 33.7 x 22.2 | 640 x 955 x 738 /<br>25.2 x 37.6 x 29.1 |
| <b>Number of shelves (standard / max)</b>                  | 2 / 13                                  | 2 / 16                                  | 2 / 19                                  |
| <b>Max. shelf load (kg / lb)</b>                           | 25 / 55                                 | 25 / 55                                 | 25 / 55                                 |
| <b>Rated voltage / frequency (V / Hz)</b>                  | 230 / 50/60                             | 230 / 50/60                             | 230 / 50/60                             |
| <b>Rated power / max. current (W / A)</b>                  | 850 / 3.7                               | 1100 / 4.8                              | 1300 / 5.7                              |
| <b>Weight (kg / lb)</b>                                    | 45 / 99                                 | 56 / 123                                | 70 / 154                                |
| <b>Energy consumption at 37 °C (W)</b>                     | 23 / 65                                 | 30 / 68                                 | 36 / 78                                 |

<sup>1</sup>Values refer to: fan off / fan full speed. <sup>2</sup>Depth does not include handle/display (65mm / 2.6 in.) and distance spacer at rear (80mm / 3.1 in.); height includes the feet (35mm / 1.4 in.) NOTE: All figures in tables are typical average values for series devices, based on factory standard following norm Din12880. Please contact us for certification information or IQ/OQ documents.

# Heratherm Advanced Protocol Security Incubators

Incorporates additional safety features for ultimate sample protection



Heratherm Advanced Protocol Security Microbiological Incubator with unique dual convection and additional alarm systems, 100 L unit pictured

## 140°C push button decontamination

Building on our established CO<sub>2</sub> incubator decontamination technology, introducing the first microbiological incubators with an independently certified 140 °C decontamination routine<sup>4</sup>.

## Intelligent design for improved results

- Lockable incubator door for restricted access
- Audible alarm if the door is left open accidentally

## Superior sample protection

- Automatic over and under temperature alarm



Lockable door

## 140°C decontamination

- At 140°C contaminating microorganisms are reduced to a minimum, comparable to sterilization, within a six hour cycle
- No need for separate autoclaving of interior fittings
- Certified by an accredited microbiological institute<sup>3</sup>

## Specifications table/order numbers Advanced Protocol Security Incubators

| Order numbers (coated exterior / stainless steel exterior) | 51028136 / 51028541                  | 51028137 / 51028542                  | 51028138 / 51028543                  |
|------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Model (coated exterior / stainless steel exterior)         | IMH60-S / IMH60-S SS                 | IMH100-S / IMH100-S SS               | IMH180-S / IMH180-S SS               |
| Convection technology                                      | Dual convection                      | Dual convection                      | Dual convection                      |
| Temperature range (°C)                                     | Ambient +5 °C to 105 °C              | Ambient +5 °C to 105 °C              | Ambient +5 °C to 105 °C              |
| Spatial temperature deviation at 37°C                      | ± 0.6 / ± 0.2 °C                     | ± 0.6 / ± 0.3 °C                     | ± 0.6 / ± 0.4 °C                     |
| Temperature deviation over time at 150 °C                  | ± 0.1 °C                             | ± 0.1 °C                             | ± 0.1 °C                             |
| Footprint (m2 / sqft)                                      | 0.3 / 3.2                            | 0.36 / 3.9                           | 0.47 / 5.1                           |
| Chamber volume (L / cuft)                                  | 66 / 2.3                             | 104 / 3.67                           | 178 / 6.3                            |
| Interior Dimensions (mm / in (W x H x D))                  | 354 x 508 x 368 / 13.9 x 20.0 x 14.5 | 464 x 608 x 368 / 18.3 x 23.9 x 14.5 | 464 x 708 x 543 / 18.3 x 27.9 x 21.4 |
| Exterior Dimensions <sup>2</sup> (mm / in (W x H x D))     | 530 x 755 x 565 / 20.9 x 29.7 x 22.2 | 640 x 855 x 565 / 25.2 x 33.7 x 22.2 | 640 x 955 x 738 / 25.2 x 37.6 x 29.1 |
| Number of shelves (standard / max)                         | 2 / 13                               | 2 / 16                               | 2 / 19                               |
| Max. shelf load (kg / lb)                                  | 25 / 55                              | 25 / 55                              | 25 / 55                              |
| Rated voltage / frequency (V / Hz)                         | 230 / 50/60                          | 230 / 50/60                          | 230 / 50/60                          |
| Rated power / max. current (W / A)                         | 1390 / 6.1                           | 1390 / 6.1                           | 1390 / 6.1                           |
| Weight (kg / lb)                                           | 45 / 99                              | 56 / 123                             | 70 / 154                             |
| Energy consumption at 37 °C (W)                            | 23 / 65                              | 30 / 68                              | 36 / 78                              |

<sup>1</sup>Values refer to: fan off / fan full speed. <sup>2</sup>Depth does not include handle/display (65mm / 2.6 in.) and distance spacer at rear (80mm / 3.1 in.); height includes the feet (35mm / 1.4 in.) <sup>3</sup>Verified by independent testing facility (IBFE 9/2010). <sup>4</sup>Height of stand including casters: 187 mm. NOTE: All figures in tables are typical average values for series devices, based on factory standard following norm Din12880. Please contact us for certification information or IQ/OQ documents.

# Maximum convenience



Easy to view, vacuum fluorescence display with push-button simplicity



Lockable casters for easy set-up and moving



180° door opening allows convenient access to the interior for hassle free cleaning and easy loading of probes

## Features

- Large, easy-to-view, vacuum fluorescent display with simple-to-use touch button operation controlled by an onboard microprocessor
- Doors can be opened to 180° angle for easy access and use
- Stainless steel inner chamber with rounded edges for easy cleaning
- Lockable casters for easy mobility and stability
- Standard access port can be used for independent data monitoring

## Specifications table/order numbers Large capacity General Protocol Incubators

| Order numbers                             | 51029322                              | 51029334                               |
|-------------------------------------------|---------------------------------------|----------------------------------------|
| Model                                     | IGS400                                | IGS750                                 |
| Convection technology                     | Gravity convection                    | Gravity convection                     |
| Temperature range (°C)                    | Ambient +5 °C to 75 °C                | Ambient +5 °C to 75 °C                 |
| Spatial temperature deviation at 37°C     | ± 0.5 °C                              | ± 1.3 °C                               |
| Temperature deviation over time at 150 °C | ± 0.4 °C                              | ± 0.4 °C                               |
| Footprint (m2 / sqft)                     | 0.56 / 6.0                            | 0.91 / 9.8                             |
| Chamber volume (L / cuft)                 | 405 / 14.3                            | 747 / 26.4                             |
| Interior Dimensions (mm / in (W x H x D)) | 544 x 1307 x 569 / 21.4 x 51.5 x 22.4 | 1004 x 1307 x 569 / 39.5 x 51.5 x 22.4 |
| Exterior Dimensions (mm / in (W x H x D)) | 778 x 1653 x 770 / 30.6 x 66 x 30.3   | 1261 x 1653 x 770 / 49.6 x 66 x 30.3   |
| Number of shelves (standard / max)        | 2 / 39                                | 2 / 39                                 |
| Max. shelf load (kg / lb)                 | 30 / 66                               | 30 / 66                                |
| Rated voltage / frequency (V / Hz)        | 230 / 50/60                           | 230 / 50/60                            |
| Rated power / max. current (W / A)        | 1150 / 5.0                            | 1500 / 6.5                             |
| Weight (kg / lb)                          | 145 / 320                             | 201 / 443                              |
| Energy consumption at 37 °C (W)           | 55                                    | 80                                     |

<sup>1</sup>Depth does not include handle/display (65mm / 2.6 in.) and distance spacer at rear (106mm / 4.2 in.); height includes the casters (108mm / 4.3 in.) NOTE: All figures in all tables are typical average values for series devices, based on factory standard following norm Din12880. Please contact us for certification information or IQ/OQ documents.

# Additional features



## Best temperature performance and unique certified decontamination cycle

### Enhanced efficiency

- Sophisticated timer extends the automation options available to user
  - Choose between a simple on/off timer, recurring weekly timer or set incubator activity based on the 24-hour clock
- Inner chamber made from stainless steel (highly resistant quality 1.4301)



### Specifications table/order numbers Large Capacity Advanced Protocol Security Incubators

| Order numbers (coated exterior / stainless steel exterior) | 51029325 / 51029326                   | 51029337 / 51029338                    |
|------------------------------------------------------------|---------------------------------------|----------------------------------------|
| Model (coated exterior / stainless steel exterior)         | IMH400-S / IMH400-S SS                | IMH750-S / IMH750-S SS                 |
| Convection technology                                      | Mechanical convection                 | Mechanical convection                  |
| Temperature range (°C)                                     | Ambient +5 °C to 105 °C               | Ambient +5 °C to 105 °C                |
| Spatial temperature deviation at 37°C                      | ± 0.2 °C                              | ± 0.3 °C                               |
| Temperature deviation over time at 150 °C                  | ± 0.2 °C                              | ± 0.2 °C                               |
| Footprint (m² / sqft)                                      | 0.56 / 6.0                            | 0.91 / 9.8                             |
| Chamber volume (L / cuft)                                  | 381 / 13.5                            | 702 / 24.8                             |
| Interior Dimensions (mm / in (W x H x D))                  | 544 x 1335 x 524 / 21.4 x 52.6 x 20.6 | 1004 x 1335 x 524 / 39.5 x 52.6 x 20.6 |
| Exterior Dimensions (mm / in (W x H x D))                  | 778 x 1653 x 770 / 30.6 x 66 x 30.3   | 1261 x 1653 x 770 / 49.6 x 66 x 30.3   |
| Number of shelves (standard / max)                         | 2 / 39                                | 2 / 39                                 |
| Max. shelf load (kg / lb)                                  | 30 / 66                               | 30 / 66                                |
| Rated voltage / frequency (V / Hz)                         | 230 / 50/60                           | 230 / 50/60                            |
| Rated power / max. current (W / A)                         | 1380 / 6.0                            | 1610 / 7.0                             |
| Weight (kg / lb)                                           | 144 / 318                             | 205 / 452                              |
| Energy consumption at 37 °C (W)                            | 87                                    | 149                                    |

<sup>1</sup>Depth does not include handle/display (65mm / 2.6 in.) and distance spacer at rear (106mm / 4.2 in.); height includes the casters (108mm / 4.3 in.) NOTE: All figures in all tables are typical average values for series devices, based on factory standard following norm Din12880. Please contact us for certification information or IQ/OQ documents.

# Accessories

## Specifications table/order numbers

| Product                                             | Description                                                                                                                                              | Cat. No. |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Perforated shelves</b>                           |                                                                                                                                                          |          |
| Perforated shelf Compact                            | Stainless steel perforated shelf for Compact incubator; 180 x 290 mm                                                                                     | 50125605 |
| Perforated shelf General Protocol 60 L              | Stainless steel perforated shelf for General Protocol 60 L; including 2 shelf supports; 329 x 376 mm                                                     | 50127770 |
| Perforated shelf General Protocol 100 L             | Stainless steel perforated shelf for General Protocol 100 L; including 2 shelf supports; 439 x 376 mm                                                    | 50127771 |
| Perforated shelf General Protocol 180 L             | Stainless steel perforated shelf for General Protocol 180 L; including 2 shelf supports; 439 x 551 mm                                                    | 50127772 |
| Perforated shelf Advanced Protocol / Security 60 L  | Stainless steel perforated shelf for Advanced Protocol / Advanced Protocol Security; 60 L; incl. 2 shelf Advanced Protocol supports; 329 x 330 mm        | 50127773 |
| Perforated shelf Advanced Protocol / Security 100 L | Stainless steel perforated shelf for Advanced Protocol / Advanced Protocol Security; 100 L; including 2 shelf Advanced Protocol / supports; 439 x 330 mm | 50127774 |
| Perforated shelf Advanced Protocol / Security 180 L | Stainless steel perforated shelf for Advanced Protocol / Advanced Protocol Security; 180 L; including 2 shelf Advanced Protocol / supports; 439 x 505 mm | 50127777 |
| Perforated shelf 400 L                              | Stainless steel perforated shelf for General Protocol / Advanced Protocol Security 400 L; incl. 2 shelf supports; 528 x 498 mm                           | 50135241 |
| Perforated shelf 750 L                              | Stainless steel perforated shelf for General Protocol / Advanced Protocol Security 750 L; incl. 2 shelf supports; 984 x 498 mm                           | 50135242 |
| <b>Additional shelving</b>                          |                                                                                                                                                          |          |
| Wire mesh shelf 60 L                                | Wire mesh shelf for Advanced Protocol / Advanced Protocol Security; 60 L; including 2 shelf supports; 338 x 336 mm                                       | 50127764 |
| Wire mesh shelf 100 L                               | Wire mesh shelf for Advanced Protocol / Advanced Protocol Security; 100 L; including 2 shelf supports; 448 x 336 mm                                      | 50127765 |
| Wire mesh shelf 180 L                               | Wire mesh shelf for Advanced Protocol / Advanced Protocol Security; 180 L; including 2 shelf supports; 448 x 511 mm                                      | 50127766 |
| Wire mesh shelf 400 L, GP                           | Wire mesh shelf for General Protocol; 400 L; including 2 shelf supports; 528 x 535 mm                                                                    | 50135245 |
| Wire mesh shelf 400 L, APS                          | Wire mesh shelf for Advanced Protocol Security; 400 L; including 2 shelf supports; 528 x 503 mm                                                          | 50135243 |
| Wire mesh shelf 750 L, GP                           | Wire mesh shelf for General Protocol; 750 L; including 2 shelf supports; 984 x 535 mm                                                                    | 50135246 |
| Wire mesh shelf 750 L, APS                          | Wire mesh shelf for Advanced Protocol Security; 750 L; including 2 shelf supports; 984 x 503 mm                                                          | 50135244 |

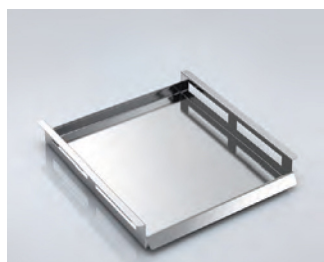


**Stainless steel perforated shelves**

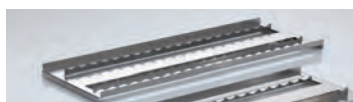
# Accessories continued

## Specifications table/order numbers

| Product                                       | Description                                                                                                                                                                                   | Cat. No. |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Additional shelving continued</b>          |                                                                                                                                                                                               |          |
| Petri Dish holder (90 mm) 60 L                | Shelf with holders for Petri dishes; ø 90 mm; stainless steel; for all 60 L incubators; incl. 2 shelf supports; 9 stacks; 77 mm (h)                                                           | 50128816 |
| Petri Dish holder (90 mm) 100 L               | Shelf with holders for Petri dishes; ø 90 mm; stainless steel; for all 100 L incubators; incl. 2 shelf supports; 12 stacks; 77 mm (h)                                                         | 50128817 |
| Petri Dish holder (90 mm) 180 L               | Shelf with holders for Petri dishes; ø 90 mm; stainless steel; for all 180 L incubators; incl. 2 shelf supports; 16 stacks; 77 mm (h)                                                         | 50128819 |
| Petri Dish holder (50 mm) 60 L                | Shelf with holders for Petri dishes; ø 50 mm; stainless steel; for all 60 L incubators; incl. 2 shelf supports; 20 stacks; 77 mm (h)                                                          | 50128793 |
| Petri Dish holder (50 mm) 100 L               | Shelf with holders for Petri dishes; ø 50 mm; stainless steel; for all 100 L incubators; incl. 2 shelf supports; 24 stacks; 77 mm (h)                                                         | 50128794 |
| Petri Dish holder (50 mm) 180 L               | Shelf with holders for Petri dishes; ø 50 mm; stainless steel; for all 180 L incubators; incl. 2 shelf supports; 36 stacks; 77 mm (h)                                                         | 50128815 |
| Drip Tray 60 L                                | Stainless steel drip tray for all 60 L incubators; includes 2 shelf supports; 295 x 325 x 20 mm drip space                                                                                    | 50128683 |
| Drip Tray 100 L                               | Stainless steel drip tray for all 100 L incubators; includes 2 shelf supports; 405 x 325 x 20 mm drip space                                                                                   | 50128791 |
| Drip Tray 180 L                               | Stainless steel drip tray for all 180 L incubators; includes 2 shelf supports; 405 x 500 x 20 mm drip space                                                                                   | 50128792 |
| Lowenstein kit                                | Lowenstein kit 150 mm tubes; 2 trays to place on top of perforated shelf (shelf not supplied); 435 x 155 mm; 20 tubes each tray – usable for 100 L models and larger                          | 50128265 |
| <b>Silicone free viton door sealing</b>       |                                                                                                                                                                                               |          |
| Silicone free viton sealing 60 L              | Silicone free viton door sealing for all 60 L Heratherm incubators                                                                                                                            | 50130657 |
| Silicone free viton sealing 100 L             | Silicone free viton door sealing for all 100 L Heratherm incubators                                                                                                                           | 50130658 |
| Silicone free viton sealing 180 L             | Silicone free viton door sealing for all 180 L Heratherm incubators                                                                                                                           | 50130659 |
| Silicone free viton door sealing, 400L & 750L | Factory installed silicone free viton door sealing. Please order with 400L or 750L incubator. Note: The sealing cannot be installed in the field on these free standing 400L and 750 L units. | 51901344 |



Drip tray



Lowenstein shelves



Silicone free viton door sealing



Petri dish holder

# Accessories continued

## Specifications table/order numbers

| Product                                                                     | Description                                                                                                                                                                               | Cat. No.        |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Sample Sensor</b>                                                        |                                                                                                                                                                                           |                 |
| Sample sensor                                                               | Sample sensor for connection to all Advanced Protocol Security incubators: measures exact sample temperature; sample temperature is shown on display as plugged in; cable length: 2200 mm | 50127768        |
| <b>Support replace stands</b>                                               |                                                                                                                                                                                           |                 |
| Support stand 60 L                                                          | Support stand with casters for Heratherm 60 L Models; height including casters 187 mm                                                                                                     | 50127741        |
| Support stand 100 L                                                         | Support stand with casters for Heratherm 100 L Models; height including casters 187 mm                                                                                                    | 50127742        |
| Support stand 180 L                                                         | Support stand with casters for Heratherm 180 L Models; height including casters 187 mm                                                                                                    | 50127743        |
| <b>Stacking kits: recommended if decon cycle is performed in lower unit</b> |                                                                                                                                                                                           |                 |
| Stacking kit 60 L                                                           | For Heratherm 60 L / 2 cu.ft. Models – recommended if decontamination cycle is performed in lower unit                                                                                    | 50126665        |
| Stacking kit 100 L                                                          | For Heratherm 100 L / 3.5 cu.ft. models – recommended if decontamination cycle is performed in lower unit; to stack two 100 L models or 60 L on 100 L                                     | 50126666        |
| Stacking kit 180 L                                                          | For Heratherm 180 L / 6.4 cu.ft. models – recommended if decontamination cycle is performed in lower unit; to stack two 180 L models or 60 L / 100 L on 180 L                             | 50126667        |
| <b>Fresh air particle filter</b>                                            |                                                                                                                                                                                           |                 |
| Fresh air particle filter                                                   | Fresh air particle filter for connection to port; for all Advanced Protocol and Advanced Protocol Security incubators                                                                     | 50127567        |
| <b>Documentation</b>                                                        |                                                                                                                                                                                           |                 |
| IQ/OQ documentation                                                         | Documents for installation, operation and performance qualification of microbiological incubators.                                                                                        | IOQDOCE89003499 |



Stacking kit



Support stand with casters



Fresh air particle filter

# Factory installed options

## Specifications table/order numbers

| Product                     | Description                                                                                                                                                                                           | Cat. No. |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Access port left, small     | Additional access port, left side, center; Ø 24 mm for all incubators. Please order in conjunction with desired incubator                                                                             | 51900996 |
| Access port left, large     | Additional access port, left side, center; Ø 58 mm for all incubators. Please order in conjunction with desired incubator                                                                             | 51900997 |
| Access port right, small    | Additional access port, right side, center; Ø 24 mm for all incubators. Please order in conjunction with desired incubator                                                                            | 51900998 |
| Access port right, large    | Additional access port, right side, center; Ø 58 mm for all incubators. Please order in conjunction with desired incubator                                                                            | 51900999 |
| Access port top, small      | Additional access port, top, center; Ø 24 mm for all incubators. Please order in conjunction with desired incubator                                                                                   | 51901000 |
| Access port top, large      | Additional access port on center of top of unit; Ø 2.28 in for all incubators                                                                                                                         | 51901001 |
| Door hinge left side        | Door hinge on left side – Available for General Protocol; Advanced Protocol and Advanced Protocol Security units. Table top, coated exterior only. Please order in conjunction with desired incubator | 51900993 |
| Door hinge left side - 400L | Door hinge on left side – Available for General Protocol and Advanced Protocol Security units. 400L floor stand, coated exterior only. Please order in conjunction with desired incubator             | 51901213 |



Additional access port top



Additional access port right