

thermo scientific



# Thermo Scientific Heratherm Microbiological Incubators

Safe, easy and efficient

**ThermoFisher**  
SCIENTIFIC

# Thermo Scientific Heratherm Microbiological Incubators

your samples

We are obsessed with sample integrity. Each of our new laboratory microbiological incubators is designed with sample protection as top priority.



our obsession

**Heratherm® microbiological incubators are available in four models, providing three incubator airflow technologies in a choice of six sizes.**

- Compact
- General Protocol
- Advanced Protocol
- Advanced Protocol Security



Thermo Scientific Heratherm microbiological incubators family includes optional stainless steel models. All units are **cCSAus** marked.



## Discover why laboratories across the globe rely on Thermo Scientific products every day.

Successful incubation is dependent upon environmental conditions. As such, you need to trust that your valuable samples are maintained in a safe and efficient manner.

Heratherm microbiological incubators are designed to provide long-term performance with optimal conditions – and are backed by a two-year warranty on parts and labor, meaning confidence for your investment.\*

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### safe

- Safe view of samples through internal glass door, without impact on temperature
- Safe conditions with exceptional temperature uniformity
- Safe containment with automatic overtemperature alarm
- Alarm for temperature deviations

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### easy

- Easy temperature setting with intuitive user interface
- Easy to remove shelf system
- Easy to clean interior with rounded corners
- Easy to read large display

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### efficient

- Efficient small footprint to optimize laboratory space
  - Efficient utilization of interior with flexible shelf system
  - Conveniently stackable without the need for tools or stacking kits\*\*
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\*Subject to Thermo Fisher Scientific Standard Limited Warranty. See [www.thermofisher.com](http://www.thermofisher.com) or product literature for details.

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

# Innovative technology for outstanding versatility



| FEATURES  | COMPACT INCUBATOR |           | GENERAL PROTOCOL INCUBATORS |                | ADVANCED PROTOCOL INCUBATORS        |           | ADVANCED PROTOCOL SECURITY INCUBATORS |               |
|---|-------------------|-----------|-----------------------------|----------------|-------------------------------------|-----------|---------------------------------------|---------------|
|   | table top         | table top | table top                   | large capacity | table top                           | table top | large capacity                        |               |
| Temperature range                                 | 17 - 40 °C        |           | ambient +5 °C - 75 °C       |                | ambient +5 °C - 105 °C              |           | ambient +5 °C - 105 °C                |               |
| Convection technology                             | Mechanical        |           | Gravity                     |                | Dual                                |           | Dual                                  | Mechanical    |
| Fan speed adjustable                              | •                 |           | •                           |                | 6 speeds                            |           | 6 speeds                              | gentle / fast |
| Rounded corners                                   | ✓                 |           | ✓                           |                | ✓                                   |           |                                       | ✓             |
| Microprocessor control                            | ✓                 |           | ✓                           |                | ✓                                   |           |                                       | ✓             |
| Automatic overtemperature alarm                   | •                 |           | ✓                           |                | ✓                                   |           |                                       | ✓             |
| 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  | •                 |           | •                           |                | ✓                                   |           |                                       | ✓             |
| Interior electrical socket                        | •                 |           | •                           |                | ✓                                   |           |                                       | •             |
| Optional stainless steel exterior                 | •                 |           | •                           |                | ✓                                   |           |                                       | ✓             |
| Certified decontamination cycle                   | •                 |           | •                           |                | •                                   |           |                                       | ✓             |
| Automatic undertemperature alarm                  | •                 |           | •                           |                | •                                   |           |                                       | ✓             |
| Door alarm  | •                 |           | •                           |                | •                                   |           |                                       | ✓             |
| Lockable door                                     | •                 |           | •                           |                | •                                   |           | ✓                                     | •             |
| Connection for optional sample temperature sensor | •                 |           | •                           |                | •                                   |           |                                       | ✓             |

## 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 oven.

# 03

### NEW! 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

## Selector Guide

| APPLICATION                             | MATERIAL/<br>SOLUTION | SAMPLE REQUIREMENTS   | RECOMMENDED SOLUTION   |
|---|-----------------------|---|--|
| <b>Bacterial research</b>               | Bacteria              | Temperatures between 30 °C and 70 °C  | General Protocol, Advanced Protocol or Advanced Protocol Security for highest temperature accuracy, and time control   |
| <b>Microbiology</b>                     | Microorganisms, cells | Temperatures between 30 °C and 50 °C  |  |
| <b>Coliform determination</b>           | Bacteria              | Temperature around 37 °C  |  |
| <b>Histology</b>                        | Tissue                | Temperature around 37 °C  |  |
| <b>Paraffin embedding</b>               | Paraffin              | Temperatures of 37 °C to around 50 °C   |  |
| <b>Egg incubation</b>                   | Eggs                  | Temperature around 37 °C  | General Protocol, Advanced Protocol or Advanced Protocol Security for highest temperature accuracy, and time control   |
| <b>Heated storage</b>                   | 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   |
| <b>Gene cloning</b>                     | 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   |
| <b>Pharmaceutical stability testing</b> | Various               | Temperatures of 37 °C up to 105 °C  |  |
| <b>Food and beverage testing</b>        | Various               | Temperatures of 37 °C up to 105 °C  |  |
| <b>BOD/water pollution testing</b>      | Water                 | Temperature around 20 °C  | Compact  |
| <b>Yeast growth</b>                     | Yeast                 | Temperatures between 10 °C and 37 °C  | General Protocol for temperatures above ambient +5 °C  |
| <b>Hatching of insects, fish</b>        | 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>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

# Thermo Scientific Heratherm Compact 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, 18L

smart solution for small volume applications

- Minimal footprint for space restricted lab areas
- Temperatures even below ambient, due to energy efficient Peltier technology
- High temperature accuracy
- Internal light facilitates sample observation

Easy to use interface



## Specifications table/order numbers Compact Incubators

| Order number                    | 50125590                      |                                      |
|---------------------------------|-------------------------------|--------------------------------------|
| Model                           | IMC18                         |                                      |
| Convection technology           | Mechanical convection         |                                      |
| Temperature range               | °C                            | 17 °C to 40 °C                       |
| Spatial temperature deviation   | at 37 °C                      | ± 1.2 °C                             |
| Temperature deviation over time | at 37 °C                      | ± 0.2 °C                             |
| Footprint                       | m <sup>2</sup> / sqft         | 0.12 / 1.3                           |
| Chamber volume                  | L / cuft                      | approx. 18 / 0.65                    |
| Dimensions                      | chamber, mm / in (W x H x D)  | 180 x 310 x 290 / 7.1 x 12.2 x 11.4  |
|                                 | exterior, mm / in (W x H x D) | 260 x 415 x 470 / 10.2 x 16.3 x 18.5 |
| Number of shelves               | supplied / positions          | 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                     |
| 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.

# Thermo Scientific Heratherm General Protocol Incubators

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



Heratherm microbiological Incubators have a smooth inner chamber with easy to clean rounded corners

Heratherm General Protocol microbiological incubators, 60 L, 100 L, 180 L models

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

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 (AISI 430)

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



## Specifications table/order numbers General Protocol Incubators

| Order number                    |   | 51028063                             | 51028064                             | 51028065                             |
|---------------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|
| 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                           |
| Dimensions                      | chamber, 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 23.2 |
|                                 | exterior <sup>1</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               | supplied / positions                        | 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 / 2.5                            | 540 / 4.5                            | 720 / 6                              |
| 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.

# Thermo Scientific Heratherm Advanced Protocol Incubators

Exceptional temperature performance  
for demanding applications.

## Advanced digital timer

- Turn unit on or off at specified times
- Choose from weekly / real time / hourly settings



Heratherm Advanced Protocol incubators with internal socket for connection of electrical device (e.g. stirrer / shaker)



Heratherm Advanced Protocol microbiological incubator with unique dual convection, 180 L model pictured

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 (AISI 304) 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

## Specifications table/order numbers Advanced Protocol Incubators

| Order number (coated exterior)             | 51028066   | 51028067   | 51028068   |
|--|--|--|--|
| Model                                      | IMH60  | IMH100   | IMH180   |
| Convection technology                      | Dual convection  | Dual convection  | Dual convection  |
| Temperature range                          | ambient +5 °C to 105 °C  | ambient +5 °C to 105 °C  | ambient +5 °C to 105 °C  |
| Spatial temperature deviation <sup>1</sup> | at 37 °C<br>$\pm 0.6 / \pm 0.2$ °C                                   | $\pm 0.6 / \pm 0.3$ °C   | $\pm 0.6 / \pm 0.4$ °C   |
| Temperature deviation over time            | at 37 °C<br>$\pm 0.1$ °C   | $\pm 0.1$ °C   | $\pm 0.1$ °C   |
| Footprint                                  | m <sup>2</sup> / sqft<br>0.3 / 3.2                                   | 0.36 / 3.9   | 0.47 / 5.1   |
| Chamber volume                             | L / cuft<br>66 / 2.3   | 104 / 3.67   | 178 / 6.3  |
| Dimensions                                 | chamber, mm / in (W x H x D)<br>530 x 755 x 565 / 20.9 x 29.7 x 22.2 | 464 x 608 x 368 / 18.3 x 23.9 x 14.5<br>640 x 855 x 565 / 25.2 x 33.7 x 22.2 | 464 x 708 x 543 / 18.3 x 27.9 x 21.4<br>640 x 955 x 738 / 25.2 x 37.6 x 29.1 |
| Number of shelves                          | supplied / positions<br>2 / 13                                       | 2 / 16   | 2 / 19   |
| Max. shelf load                            | kg / lb<br>25 / 55   | 25 / 55  | 25 / 55  |
| Rated voltage / frequency                  | V / Hz<br>120 / 60   | 120 / 60   | 120 / 60   |
| Rated power / max. current                 | W / A<br>600 / 5   | 840 / 7  | 1020 / 8.5   |
| Weight                                     | kg / lb<br>45 / 99   | 56 / 123   | 70 / 154   |
| Energy consumption at 37 °C <sup>1</sup>   | W<br>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.



# Thermo Scientific 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



Lockable door for restricted access



## 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>3</sup>.

intelligent design for improved results

superior sample protection

140 °C decontamination

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



- Automatic over-and-under temperature alarm

- 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 number (coated exterior)             | 51028069   | 51028070                             | 51028111                             |
|--|--|--------------------------------------|--------------------------------------|
| Model                                      | IMH60-S  | IMH100-S                             | IMH180-S                             |
| Order number (stainless steel exterior)    | 51028264   | 51028535                             | 51028327                             |
| Model                                      | IMH60-S SS   | IMH100-S SS                          | IMH180-S SS                          |
| Convection technology                      | Dual convection  | Dual convection                      | Dual convection                      |
| Temperature range                          | °C ambient +5 °C to 105 °C   | °C ambient +5 °C to 105 °C           | °C ambient +5 °C to 105 °C           |
| Spatial temperature deviation <sup>1</sup> | at 37 °C ± 0.6 / ± 0.2 °C  | ± 0.6 / ± 0.3 °C                     | ± 0.6 / ± 0.4 °C                     |
| Temperature deviation over time            | at 37 °C ± 0.1 °C  | ± 0.1 °C                             | ± 0.1 °C                             |
| Footprint                                  | m <sup>2</sup> / 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                            |
| Dimensions                                 | chamber, 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 <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                          | supplied / positions 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 1390 / 11.6  | 1390 / 11.6                          | 1390 / 11.6                          |
| Weight                                     | kg / lb 45 / 99  | 56 / 123                             | 70 / 154                             |
| Energy consumption at 37 °C <sup>1</sup>   | 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 here to open the parenthetical. (35mm / 1.4 in.). <sup>3</sup> Verified by independent testing facility (IBFE 9/2010) 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.

# Thermo Scientific Heratherm Large Capacity Incubators General Protocol Models

Designed with your need for high sample volume or larger samples in mind.



Heratherm large capacity incubators are available as 400 L and 750 L units

## 400 L

## 750 L

### efficiency

- Two sizes (400 L and 750 L)
- Gravity convection technology with unique airflow – designed for minimal drying out of samples
- Flexible shelf system for optimal use of chamber volume

### safety

- Automatic overtemperature alarm system to protect samples – no need for timely manual setting
- Inner glass door for undisturbed viewing of samples
- Inner chambers made from corrosion-resistant stainless steel (AISI 430)
- Protect delicate samples with stable temperature conditions: uniformity of up to  $\pm 0.5$  °C and temperature stability of  $\pm 0.4$  °C at 37 °C



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

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



Lockable casters for easy set-up and moving



### maximum convenience

- 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 number                    | 51029321  | 51029333                               |
|---------------------------------|---|--|
| 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 37 °C ± 0.4°C  | ± 0.4 C                                |
| Footprint                       | m <sup>2</sup> / sqft 0.56 / 6.0  | 0.91 / 9.8                             |
| Chamber volume                  | l / cuft 405 / 14.3   | 747 / 26.4                             |
| Dimensions                      | chamber 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 <sup>1</sup> 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               | supplied / positions 2 / 39   | 2 / 39                                 |
| Max. shelf load                 | kg / lb 30 / 66   | 30 / 66                                |
| Rated voltage / frequency       | V / Hz 120 / 60   | 120 / 60                               |
| Rated power / max current       | W / Amp 1080 / 9.0  | 1500 / 12.5                            |
| Weight                          | kg / lb 145 / 320   | 201 / 443                              |
| Energy consumption at 37 °C     | W 55  | 75                                     |

<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.

# Thermo Scientific Heratherm Advanced Protocol Security Incubators

Mechanical convection technology provides exceptional temperature uniformity and stability to ensure fully reproducible results. An extensive range of additional features provides even more flexibility, accuracy and dependability.



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## prime performance

- Mechanical convection technology ensures optimal temperature distribution with improved level of temperature uniformity:  $\pm 0.2$  to  $0.3$  °C
- Temperature range from ambient  $+5$  °C to  $105$  °C for application flexibility: units can even be used for drying applications

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## added safety

- Unique  $140^{\circ}\text{C}$  decontamination cycle eliminates the need for separate autoclaving or use of toxic decontaminants
- 2-speed fan for application flexibility:
  - > Slow speed for incubation applications that require reduced drying out
  - > High speed for best temperature uniformity and stability
- An additional undertemp alarm provides safety even when the temperature deviates below set point
- Door alarm notifies operator if door is left open



Advanced protocol security units available in stainless steel exterior.



Access port for independent sensor or use of shaker / stirrer inside the unit



Two speed fan for matching the airflow to your application

## Additional features

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 AISI 304)

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

| Order number (coated exterior)          | 51029323   | 51029335                               |
|---|--|--|
| Model                                   | IMH400-S   | IMH750-SS                              |
| Order number (stainless steel exterior) | 51029324   | 51029336                               |
| Model                                   | IMH400-S SS  | IMH750-S SS                            |
| Convection technology                   | mechanical convection  | mechanical convection                  |
| Temperature range                       | ambient +5°C to 105°C  | ambient +5 to 105                      |
| Spatial temperature deviation           | at 37 °C<br>± 0.2 °C   | ± 0.3                                  |
| Temperature deviation over time         | at 37 °C<br>± 0.2 °C   | ± 0.2                                  |
| Footprint                               | m <sup>2</sup> / sqft<br>0.56 / 6.0  | 0.91 / 9.8                             |
| Volume of workspace                     | l / cuft<br>381 / 13.5   | 702 / 24.8                             |
| Dimensions                              | chamber mm / in (W x H x D)<br>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 <sup>1</sup> mm / in (W x H x D)<br>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                       | supplied / positions<br>2 / 39   | 2 / 39                                 |
| Max. shelf load                         | kg / lb<br>30 / 66   | 30 / 66                                |
| Rated voltage / frequency               | V / Hz<br>120 / 60   | 120 / 60                               |
| Rated power / max current               | W / Amp<br>1380 / 11.5   | 1560 / 13                              |
| Weight empty                            | kg / lb<br>144 / 318   | 205 / 452                              |
| Energy consumption at 37 °C             | W<br>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.

# Stainless Steel Exterior

An optional stainless steel exterior is available for the Advanced Protocol Security models.



Heratherm Advanced Protocol Security microbiological incubators with stainless steel exterior

## Maximized performance:

- Robust and corrosion-resistant surface
- Easy to clean
- Meets demanding needs in pharmaceutical and clinical laboratories



# Proven Results

Heratherm incubators offer exceptional data monitoring systems that provide the key to reliable results.



RS232 standard on all General Protocol, Advanced Protocol and Advanced Protocol Security models/sizes

## Unique optional sample sensor for Advanced Protocol Security models:

- Measure exact sample temperature, shown on display in addition to chamber temperature
- Additional peace-of-mind for safety of your precious samples
- Easy connection at rear of unit



## data monitoring capabilities

- All models have an access port
  - > Ideal for insertion of an independent sample temperature sensor, for Good Laboratory Practice (GLP) compliance
  - > Large diameter of 42 / 1.65 (38 / 1.1)\* mm/inches fits standard plug
  - > Covered by stopper to prevent any temperature disturbance
- All models incorporate a standard RS232 interface
- Advanced Protocol Security models include a socket for independent sample sensor (option) when connected, exact sample temperature is shown on display

\* General Protocol large capacity units only

# Accessories

## Specifications table/order numbers

| DESCRIPTION   | ORDER NUMBER | DETAILS   |
|---|--------------|---|
| <b>Perforated shelves</b>                             |              |   |
| Lowenstein kit  | 50128265     | Lowenstein kit 5.91 in tubes; 2 trays to; 435 x 155 mm; 20 tubes each tray – usable for 100 L models and larger Perforated shelf                                      |
| Compact   | 50125605     | Stainless steel perforated shelf for Compact incubator; 7.1 x 11.4 in   |
| Perforated shelf<br>General Protocol 60 L             | 50127770     | Stainless steel perforated shelf for General Protocol 60 L; including 2 shelf supports; 12.95 x 14.80 in  |
| Perforated shelf<br>General Protocol 100 L            | 50127771     | Stainless steel perforated shelf for General Protocol 100 L; including 2 shelf supports; 12.95 x 14.80 in   |
| Perforated shelf<br>General Protocol 180 L            | 50127772     | Stainless steel perforated shelf for General Protocol 180 L; including 2 shelf supports; 12.95 x 12.99 in   |
| Perforated shelf Advanced<br>Protocol / Security 60 L | 50127773     | Stainless steel perforated shelf for Advanced Protocol / Advanced Protocol Security; 60 L; incl. 2 shelf Advanced Protocol supports; 12.95 x 12.99 in                 |
| Perforated shelf Advanced<br>Protocol Security 100 L  | 50127774     | Stainless steel perforated shelf for Advanced Protocol / Advanced Protocol Security; 100 L; including 2 shelf Advanced Protocol / supports; 17.28 x 12.99 in          |
| Perforated shelf Advanced<br>Protocol Security 180 L  | 50127777     | Stainless steel perforated shelf for Advanced Protocol / Advanced Protocol Security; 180 L; including 2 shelf Advanced Protocol / supports; 17.28 x 19.88 in          |
| Perforated shelf 400 L                                | 50135241     | Stainless steel perforated shelf for General Protocol / Advanced Protocol Security 400 L; incl. 2 shelf supports; 20.79 x 19.61 in                                    |
| Perforated shelf 750 L                                | 50135242     | Stainless steel perforated shelf for General Protocol / Advanced Protocol Security 750 L; including 2 shelf supports; 38.74 x 19.61 in                                |
| <b>Additional shelving</b>                            |              |   |
| Wire mesh shelf 60 L                                  | 50127764     | Wire mesh shelf for Advanced Protocol / Advanced Protocol Security; 60 L; incl. 2 shelf supports; 13.31 x 13.22 in  |
| Wire mesh shelf 100 L                                 | 50127765     | Wire mesh shelf for Advanced Protocol / Advanced Protocol Security; 100 L; incl. 2 shelf supports; 17.64 x 13.22 in   |
| Wire mesh shelf 180 L                                 | 50127766     | Wire mesh shelf for Advanced Protocol / Advanced Protocol Security; 180 L; incl. 2 shelf supports; 17.64 x 20.12 in   |
| Wire mesh shelf 400L, GP                              | 50135245     | Wire mesh shelf for General Protocol; 400 L; incl. 2 shelf supports; 20.79 x 21.06 in   |
| Wire mesh shelf 400L, APS                             | 50135243     | Wire mesh shelf for Advanced Protocol Security; 400 L; incl. 2 shelf supports; 20.79 x 19.8 in  |
| Wire mesh shelf 750L, GP                              | 50135246     | Wire mesh shelf for General Protocol; 750 L; incl. 2 shelf supports; 38.74 x 21.06 in   |
| Wire mesh shelf 750 L, APS                            | 50135244     | Wire mesh shelf for Advanced Protocol Security; 750 L; including 2 shelf supports; 38.74 x 19.8 in  |
| Petri dish holder (3.54 in) 60 L                      | 50128816     | Shelf with holders for petri dishes; ø 3.54 in; stainless steel; for all 60 L incub.; incl. 2 shelf supports; 9 stacks; 3.1 in (h)                                    |
| Petri dish holder (3.54 in) 100 L                     | 50128818     | Shelf with holders for petri dishes; ø 3.54 in; stainless steel; for all 100 L incub.; incl. 2 shelf supports; 12 stacks; 3.1 in (h)                                  |
| Petri dish holder (3.54 in) 180 L                     | 50128819     | Shelf with holders for petri dishes; ø 3.54 in; stainless steel; for all 180 L incub.; incl. 2 shelf supports; 16 stacks; 3.1 in (h)                                  |
| Petri dish holder (1.97 in) 60 L                      | 50128793     | Shelf with holders for petri dishes; ø 1.97 in; stainless steel; for all 60 L incub.; incl.2 shelf supports; 20 stacks; 3.1 in (h)                                    |
| Petri dish holder (1.97 in) 100 L                     | 50128794     | Shelf with holders for petri dishes; ø 1.97 in; stainless steel; for all 100 L incub.; incl. 2 shelf supports; 24 stacks; 3.1 in (h)                                  |
| Petri dish holder (1.97 in) 180 L                     | 50128815     | Shelf with holders for petri dishes; ø 1.97 in; stainless steel; for all 180 L incub.; incl. 2 shelf supports; 36 stacks; 3.1 in (h)                                  |
| Drip tray 60 L  | 50128683     | Stainless steel drip tray for all 60 L incubators; includes 2 shelf supports; 11.61 x 12.8 x 0.79 in drip space   |
| Drip tray 100 L                                       | 50128791     | Stainless steel drip tray for all 100 L incubators; includes 2 shelf supports; 11.94 x 12.8 x 0.79 in drip space  |
| Drip tray 180 L                                       | 50128792     | Stainless steel drip tray for all 180 L incubators; includes 2 shelf supports; 15.94 x 19.69 x 0.79 in drip space   |
| Lowenstein kit  | 50128265     | Lowenstein kit 5.91 in. 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 |
| <b>Silicone free viton door sealing</b>               |              |   |
| Silicone free viton sealing 60 L                      | 50130657     | Silicone free viton door sealing for all 60 L incubators  |
| Silicone free viton sealing 100 L                     | 50130658     | Silicone free viton door sealing for all 100 L incubators   |
| Silicone free viton sealing 180 L                     | 50130659     | Silicone free viton door sealing for all 180 L incubators   |
| Silicone free viton sealing 400 L                     | 50135869     | Silicone free viton door sealing for all 400 L incubators   |



Stainless steel perforated shelves



Petri dish holder



Drip tray



Lowenstein shelves

Silicone free viton door sealing

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

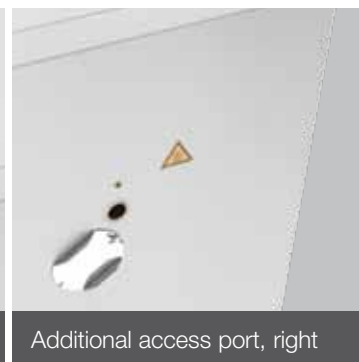
| DESCRIPTION   | ORDER NUMBER | DETAILS   |
|---|--------------|---|
| <b>Sample Sensor</b>  |              |   |
| Sample sensor   | 50127768     | Sample sensor for connection to all Advanced Protocol Security incubators: measures exact sample temperature; sample temperature is shown on display as plugged in; cable length: 86.6 in |
| <b>Support replace stands</b>   |              |   |
| Support stand 60 L  | 50127741     | Support stand with casters for 60 L models; height including casters 7.36 in  |
| Support stand 100 L   | 50127742     | Support stand with casters for 100 L models; height including casters 7.36 in   |
| Support stand 180 L   | 50127743     | Support stand with casters for 180 L models; height including casters 7.36 in   |
| <b>Stacking kits: recommended if decon cycle is performed in lower unit</b> |              |   |
| Stacking kit 60 L   | 50126665     | Stacking kit for 60 L / 2 cu.ft. models   |
| Stacking kit 100 L  | 50126666     | Stacking kit for 100 L / 3.5 cu.ft. models to stack two 100 L models or 60 L on 100 L   |
| Stacking kit 180 L  | 50126667     | Stacking kit for 180 L / 6.4 cu.ft. models to stack two 180 L models or 60 L / 100 L on 180 L   |
| <b>Fresh air particle filter</b>  |              |   |
| Fresh air particle filter   | 50127567     | Fresh air particle filter for connection to port; for all Advanced Protocol and Advanced Protocol Security incubators   |



# Factory installed options

Specifications table/order numbers

| DESCRIPTION              | ORDER NUMBER | DETAILS  |
|--------------------------|--------------|--|
| Access port left, small  | 51900996     | Additional access port on center of left side of unit; Ø 0.94 in for all incubators.   |
| Access port left, large  | 51900997     | Additional access port on center of left side of unit; Ø 2.28 in for all incubators.   |
| Access port right, small | 51900998     | Additional access port on center of right side of unit; Ø 0.94 in for all incubators.  |
| Access port right, large | 51900999     | Additional access port on center of right side of unit; Ø 2.28 in for all incubators.  |
| Access port top, small   | 51901000     | Additional access port on center of top of unit; Ø 0.94 in for all incubators.   |
| Access port top, large   | 51901001     | Additional access port on center of top of unit; Ø 2.28 in for all incubators.   |
| Door hinge left side     | 51900993     | Door hinge on left side – available for General Protocol; Advanced Protocol and Advanced Protocol Security units. Table top, coated exterior only. |



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## Thermo Scientific Smart-Vue Wireless Monitoring Solution

Smart. Scalable. Simple.

Continuously monitors sample environment

- Secure data logging with real-time alarms
- Audit trail traceability to assist with conformance to 21 CFR Part 11

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Solutions vary by RF regions worldwide and are compatible with multiple brands and types of laboratory equipment. Contact your local sales representative for more details.



Rear view of the 100 L Advanced Protocol oven with Smart-Vue



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