



**Thermo Scientific Heratherm  
Microbiological Incubators**

safe  
easy  
efficient

# Thermo Scientific Heratherm

## Microbiological Incubators

### your samples

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

### our obsession

Our Heratherm® microbiological incubator are available in four different models, providing three different airflow technologies and a choice of four sizes.

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



Our Heratherm microbiological incubators family includes optional stainless steel models. All units are **CE** marked.



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

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

Thermo Scientific 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.

### safe

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

### easy

- Easy temperature setting with intuitive user interface
- Easy to remove “One Click” – shelf system
- Easy to clean interior with rounded corners
- Easy to read large display

### efficient

- Efficient small footprint to optimize benchtop space
- Conveniently stackable without the need for tools or stacking kits
- Efficient utilization of interior with flexible shelf system

# Innovative technology

## for outstanding versatility



HERATHERM FEATURES	COMPACT INCUBATOR	GENERAL PROTOCOL INCUBATORS	ADVANCED PROTOCOL INCUBATORS	ADVANCED PROTOCOL SECURITY INCUBATORS
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: fan off / adjust fan speed	Dual: fan off / adjust fan speed
Rounded corners	✓	✓	✓	✓
Microprocessor control	✓	✓	✓	✓
Automatic overtemperature alarm		✓	✓	✓
Stackable		✓	✓	✓
Stainless steel interior		1.4016	1.4301	1.4301
RS232 interface		✓	✓	✓
Internal glass door		✓	✓	✓
Easy calibration routine		✓	✓	✓
Timer: weekly / daily / real time			✓	✓
Dry alarm contact for connection of alarm device			✓	✓
Access port			✓	✓
Optional stainless steel exterior			✓	✓
Certified decontamination cycle				✓
Automatic undertemperature alarm				✓
Door alarm				✓
Lockable door				✓
Connection for optional sample temperature sensor				✓

## Three different airflow technologies

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

01

**Mechanical convection** provides even higher temperature uniformity and stability to ensure an optimal environment for your samples. Using the 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.

02

**NEW! Dual convection** is a new 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 air flow for your valuable samples.

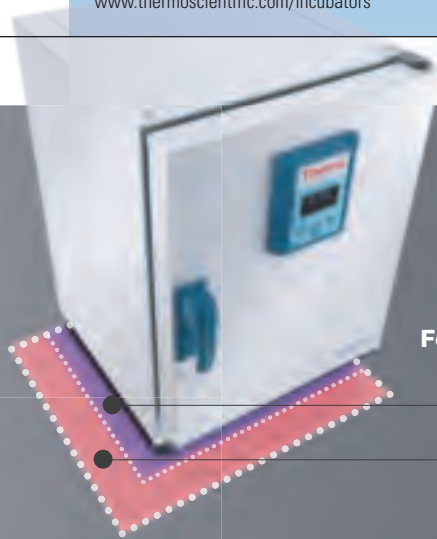
03

# Select the right model for your needs

## Thermo Scientific Heratherm Microbiological Incubators Selector Guide



APPLICATION	MATERIAL/ SAMPLE	TEMPERATURE REQUIREMENTS	RECOMMENDED HERATHERM MICROBIOLOGICAL INCUBATOR
<b>Bacterial research</b>	Bacteria	Temperatures between 30 °C and 70 °C	General Protocol Advanced Protocol 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 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 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
<b>Pharmaceutical stability testing</b>	Various	Temperatures of 37 °C up to 105 °C	Advanced Protocol Security with additional safety features for peace of mind
<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 for highest temperature accuracy or Compact for temperatures as low as 17 °C  For lower temperatures: check the Thermo Scientific refrigerated models at: <a href="http://www.thermoscientific.com/incubators">www.thermoscientific.com/incubators</a>



**Footprint Comparison\***  
 manufacturer A  
 manufacturer B

### Maximized space efficiency

Making best use of valuable space in your lab, Thermo Scientific 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.

\*based on internal testing 10/2010

# Thermo Scientific Heratherm Compact Incubator

The most compact unit of the Heratherm microbiological incubators family has an 18L capacity, ideal for personalized workspace.



Heratherm Compact microbiological incubator, 18L



The perfect solution for personalized incubation

## intelligent design

for small volume applications

- Minimal footprint for space restricted lab areas
- Temperatures at or below ambient
- High temperature accuracy
- Internal light facilitates sample observation

### SPECIFICATIONS TABLE/ORDER NUMBERS COMPACT INCUBATORS

Order number	50125882	
Model	IMC18	
Convection technology	Mechanical convection	
Temperature range	°C	17-40
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 / 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
Weight	kg / lb	7.2 / 15.9
Additional shelf order number	50125605	

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.



Easy to use interface

# Thermo Scientific Heratherm General Protocol Incubators

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



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



Heratherm microbiological incubators have a smooth inner casing with easy to clean rounded corners



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

## 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 +/- 0.6 °C
- Temperature stability of +/- 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

### SPECIFICATIONS TABLE/ORDER NUMBERS GENERAL PROTOCOL INCUBATORS

Order number	51028130	51028131	51028132
Model	IGS60	IGS100	IGS180
Convection technology	Gravity convection	Gravity convection	Gravity convection
Temperature range	°C ambient +5 °C to 75 °C	°C ambient +5 °C to 75 °C	°C ambient +5 °C to 75 °C
Spatial temperature deviation	at 37 °C ± 0.6 °C	± 0.6 °C	± 0.6 °C
Temperature deviation over time	at 37 °C ± 0.2 °C	± 0.2 °C	± 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*, mm / in (W x H x D) 530 x 720 x 565 / 20.9 x 28.3 x 22.2	640 x 820 x 565 / 25.2 x 32.3 x 22.2	640 x 920 x 738 / 25.2 x 36.2 x 29.1
Number of shelves	supplied / 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	230 / 50	230 / 50
Rated power / max. current	W / A 300 / 1.3	520 / 2.3	710 / 3.1
Weight	kg / lb 40 / 88	51 / 112	65 / 143
Perforated stainless steel shelf order number	50127770	50127771	50127772
Wire mesh shelf order number	50127764	50127765	50127766
Support stand with casters** order number	50127741	50127742	50127743

\*Depth of handle / display not included in depth (65 mm); adjustable feet not included in height (35 mm) – required distance to rear wall: 80 mm \*\* Height of stand including casters: 187 mm

# Thermo Scientific Heratherm Advanced Protocol Incubators

Thermo Scientific Heratherm Advanced Protocol incubators provide exceptional temperature performance for demanding applications.

## Advanced digital timer

- Turn unit off at specific 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!

Thermo Scientific Heratherm Advanced Protocol microbiological incubator with unique dual convection

## intelligent design for improved 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 +/- 0.2 °C
- Temperature stability at +/-0.1 °C

### SPECIFICATIONS TABLE/ORDER NUMBERS ADVANCED PROTOCOL INCUBATORS

Order number (coated exterior)	51028133	51028134	51028135
Model	IMH60	IMH100	IMH180
Order number (stainless steel exterior)	51028717	51028718	51028719
Model	IMH60 SS	IMH100 SS	IMH180 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 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 mm / in (W x H x D)	530 x 720 x 565 / 20.9 x 28.3 x 22.2	640 x 820 x 565 / 25.2 x 32.3 x 22.2	640 x 920 x 738 / 25.2 x 36.2 x 29.1
Number of shelves supplied / 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	230 / 50	230 / 50
Rated power / max. current W / A	850 / 3.7	1100 / 4.8	1300 / 5.7
Weight kg / lb	45 / 99	56 / 123	70 / 154
Perforated stainless steel shelf order number	50127773	50127774	50127777
Wire mesh shelf order number	50127764	50127765	50127766
Support stand with casters order number	50127741	50127742	50127743

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

Thermo Scientific Heratherm Advanced Protocol Security incubators incorporate additional safety features for ultimate sample protection.



A lockable door provides restricted sample access



### 140 °C push button decontamination

Building on our established CO<sub>2</sub> incubator decontamination technology, we are now presenting the first microbiological incubators with an independently certified 140 °C decontamination routine<sup>1</sup>.



Heratherm Advanced Protocol Security microbiological incubator with unique dual convection and additional alarm systems

### 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

### 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

#### SPECIFICATIONS TABLE/ORDER NUMBERS ADVANCED PROTOCOL SECURITY INCUBATORS

Order number (coated exterior)	51028136	51028137	51028138
Model	IMH60-S	IMH100-S	IMH180-S
Order number (stainless steel exterior)	51028541	51028542	51028543
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*	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**, mm / in (W x H x D) 530 x 720 x 565 / 20.9 x 28.3 x 22.2	640 x 820 x 565 / 25.2 x 32.3 x 22.2	640 x 920 x 738 / 25.2 x 36.2 x 29.1
Number of shelves	supplied / 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	230 / 50	230 / 50
Rated power / max. current	W / A 1390 / 6.1	1390 / 6.1	1390 / 6.1
Weight	kg / lb 45 / 99	56 / 123	70 / 154
Perforated stainless steel shelf order number	50127773	50127774	50127777
Wire mesh shelf order number	50127764	50127765	50127766
Sample sensor order number	50127768	50127768	50127768
Support stand with casters*** order number	50127741	50127742	50127743

\*Values refer to: fan off / fan full speed \*\*Depth of handle / display not included in depth (65 mm); adjustable feet not included in height (35 mm) – required distance to rear wall: 80 mm \*\*\*Height of stand including casters: 187 mm  
<sup>1</sup>verified by independent testing facility (IBFE 9/2010)

# Stainless Steel

## Exterior

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

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



Heratherm Advanced Protocol Security microbiological incubators with sophisticated stainless steel exterior

• Check the unique optional sample sensor:

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

# proven results

In order to yield reliable results, data monitoring is key.

The access port enables easy insertion of independent sample sensors



Standard RS232



**data**  
monitoring capabilities

- All models incorporate a standard RS232 interface
- The Advanced Protocol and Advanced Protocol Security models have an access port
  - > Ideal for insertion of an independent sample temperature sensor, for Good Laboratory Practice (GLP) compliance
  - > Large diameter of 42 mm/1.7 inches fits standard plug
  - > Covered by stopper to prevent any temperature disturbance

## Additional Accessories



### SPECIFICATIONS TABLE/ORDER NUMBERS ACCESSORIES

Additional accessories	Order number	Details
Petri Dish Holder (90 mm) 60 L units	50128816	Shelf with holders for Petri dishes; 90 mm diameter for 60L units
Petri Dish Holder (90 mm) 100 L units	50128818	Shelf with holders for Petri dishes; 90 mm diameter for 100L units
Petri Dish Holder (90 mm) 180 L units	50128819	Shelf with holders for Petri dishes; 90 mm diameter for 180L units
Petri Dish Holder (50 mm) 60 L units	50128793	Shelf with holders for Petri dishes; 50 mm diameter for 60L units
Petri Dish Holder (50 mm) 100 L units	50128794	Shelf with holders for Petri dishes; 50 mm diameter for 100L units
Petri Dish Holder (50 mm) 180 L units	50128815	Shelf with holders for Petri dishes; 50 mm diameter for 180L units
Drip Tray 60 L units	50128683	Stainless steel drip tray for 60L units
Drip Tray 100 L units	50128791	Stainless steel drip tray for 100L units
Drip Tray 180 L units	50128792	Stainless steel drip tray for 180L units

### SPECIFICATIONS TABLE/ORDER NUMBERS FACTORY INSTALLED OPTIONS

Factory installed options	Order number	Details
Door hinge left side	51900993	Door hinge on left side of unit – please order in conjunction with desired oven. Available for General Protocol, Advanced Protocol and Advanced Protocol Security units – coated exterior only.

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## Learn more about the range

of Thermo Scientific products for use in combination with  
microbiological incubators

>> As well as a complete  
range of consumables:

Oxoid *Brilliance* chromogenic media



Thermo Scientific Variomag stirrers



Thermo Scientific Nunc Edge plate  
Thermo Scientific Biolite containers  
Thermo Scientific Nalgene bottles and carboys



## Services designed to help you achieve your goals!

Responsive and knowledgeable laboratory service is only a phone call  
or one email away, providing you with peace of mind:

- Increased equipment uptime, ensuring continuity of operations
- Broad network of factory trained and certified technicians
- Convenient and dependable access to our expertise and original parts
- A fixed cost solution with service maintenance options

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