



# Efficient, flexible, and easy

Heratherm Heating and Drying Ovens

# Heratherm Heating and Drying Ovens

Each laboratory heating and drying oven is designed with sample protection as top priority

**Thermo Scientific™ Heratherm™ Ovens are available in two different models. Choose gravity or mechanical convection technology**

- Thermo Scientific™ Heratherm™ General Protocol units are optimally suited to everyday heating and drying applications up to 250 °C
- Thermo Scientific™ Heratherm™ Advanced Protocol models provide the necessary technologies for users requiring accuracy and increased heating capability up to 330 °C

Sizes include three table top models of 60 L, 100 L and 180 L, and two free standing models of 400 L and 750 L.



# Safe, easy, efficient

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

## Energy efficient

Heratherm ovens feature an environmentally friendly design with cost savings in mind, reducing energy consumption by as much as 25% compared to previous models.\*\*

From easy drying of glassware to complex and carefully controlled heating applications, your oven is an invaluable part of your daily work. The Heratherm oven range includes an array of solutions to match your needs – and are backed by a two-year warranty on parts.\*

- Helps improve energy efficiency, increasing cost effectiveness, reducing environmental impact compared to previous models\*\*
- Unique door design reduces heat emission
- Timer for effective usage and additional energy savings
- Space saving footprint without compromising volume
- Flexible shelving system enables optimal space utilization
- Smart safety system surveys functionality of oven consistently

- Temperature uniformity as good as +/-1.3°C at 150°C
- Automatic audible and visual over-temperature alarm
- Access port for data logging with independent sensors
- Low external surface temperature for easy handling
- Easy-to-read, large vacuum fluorescent display
- Easy setting with intuitive interface
- Easy cleaning with rounded corners



\* Subject to Thermo Fisher Scientific Standard Limited Warranty. See [www.thermoscientific.com](http://www.thermoscientific.com) or product literature for details.

\*\*Based on internal testing 10/2010

# Innovative technology for outstanding versatility



Heratherm features	General protocol ovens		Advanced protocol ovens	
	Table top	Large capacity	Table top	Large capacity
Temperature range	50 °C <sup>1</sup> - 250 °C	50 °C <sup>1</sup> - 250 °C	50 °C <sup>1</sup> - 330 °C S	50 °C <sup>1</sup> - 250 °C
Interior material	stainless steel AISI 430	stainless steel AISI 430	stainless steel AISI 304	stainless steel AISI 304
Rounded interior corners	✓	✓	✓	✓
Microprocessor control	✓	✓	✓	✓
Automatic overtemperature alarm	✓	✓	✓	✓
Stackable with optional stacking kit	✓	•	✓	•
Easy calibration routine	✓	✓	✓	
Gravity convection	choice	✓	choice	•
Mechanical convection	choice	•	choice	✓
Timer functions	on / off	on / off	choice of weekly/ hourly/ real time <sup>2</sup>	choice of weekly/ hourly/ real time <sup>2</sup>
Fresh air damper	manually controlled	manually controlled	electronically controlled	electronically controlled
Access port for independent data monitoring	use exhaust vent	use exhaust vent	✓	✓
RS232 interface	✓	✓	✓	✓
Adjustable fan speed	•	•	5 speeds <sup>3</sup>	2 speeds <sup>3</sup>
Programmable (ramps / dwells)	•	•	✓	✓
Boost function for accelerated heat-up	•	•	✓	•
Dry alarm contact for connection of alarm device	•	•	✓	✓
Door alarm	•	•	•	✓

<sup>1</sup>Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit. <sup>2</sup>for details on timer see page 8. <sup>3</sup>Fan only on mechanical convection models; fan cannot be switched off, will run at least at ~20%; fan speed depends on temperature - with high temperatures, the fan will run faster to prevent overheating of motor. The fan continues running when opening the door.

## Convection technologies – your choice

### 01

#### Mechanical convection

- Fast sample drying and heating
- Exceptional temperature uniformity
- Fast temperature recovery after door opening

### 02

#### Gravity convection

- Gentle drying and heating with low air turbulences
- Excellent for working with materials that are sensitive to airflow such as powders and foils




# Select the right model for your needs

Application	Material/sample*	Sample requirements	Recommended Heratherm Oven
Drying	Glassware	Fast drying	Gravity convection for gentle drying, mechanical convection for fast drying. Choose Advanced Protocol for highest temperature accuracy and selection of fan speed. Check also our Thermo Scientific vacuum ovens for speedy drying at low temperatures <a href="http://www.thermoscientific.com/everylab">www.thermoscientific.com/everylab</a> .
	Powders	Temperatures between 30°C and 70°C	
	Paper, textile	Temperature around 37°C	
	Soil, sand	Temperature around 37°C	
	Electronics	Temperatures of 37°C to around 50°C	
	Pharmaceutical preparations	Temperature around 37°C	
Material testing	Cables	Highest temperature accuracy; safe processes	Advanced Protocol models with programming capabilities – mechanical convection models have highest temperature accuracy.
	Plastics	Highest temperature accuracy; safe processes	
Curing	Paint	Gentle heating	Gravity convection for gentle heating. Choose Advanced Protocol for high temperature accuracy.
	Adhesives	Gentle heating	
	Plastics	Gentle heating	
Heated storage	Metals	Gentle heating	Gravity convection for gentle heating, or Advanced Protocol mechanical convection at low fan speed.
	Pills, drugs	Gentle heating; safe processes	
Vulcanization	Rubber	Gentle heating	

For heat treatment and drying processes that involve flammable solvents or potentially explosive atmospheres, please talk to your Thermo Scientific representative.

## Footprint comparison\*\*




Making the best use of valuable space in your lab, Heratherm ovens are designed with a very small footprint ratio compared to the interior volume. In addition they are stackable with an optional stacking kit.

manufacturer A  
manufacturer B

\*examples \*\*based on competitors' published specifications

## Maximized space efficiency



The free standing models enhance flexibility by easily moving around on their casters, which can be locked to ensure stable set-up of the units.

# Heratherm General Protocol Ovens

Excellent for routine daily work, and heating and drying samples

## Technology for efficiency

- Low energy consumption
- Built in timer
- Excellent footprint/volume ratio
- Three sizes (60 L, 100 L, 180 L)
- Inner chambers made from corrosion-resistant stainless steel with rounded corners for easy cleaning

## Convenience for ease of use

- Large, easy to view vacuum fluorescent display
- Simple, microprocessor-based touch button controls
- Doors can be opened over 180° making these units easy to access
- Automatic overtemperature alarm system to protect samples



Heratherm General Protocol Ovens, 60 L, 100 L, 180 L models

## Specifications table/order numbers General Protocol Ovens

Order numbers	51028112	51028872	51028874
Model	OGS60	OGS100	OGS180
Convection technology	Gravity convection	Gravity convection	Gravity convection
Temperature range (°C)	50 °C <sup>1</sup> - 250 °C	50 °C <sup>1</sup> - 250 °C	50 °C <sup>1</sup> - 250 °C
Spatial temperature deviation at 150 °C	± 4 °C	± 4.5 °C	± 5 °C
Temperature deviation over time at 150 °C	± 0.4 °C	± 0.4 °C	± 0.4 °C
Footprint (m <sup>2</sup> / sqft)	0.3 / 3.2	0.36 / 3.9	0.47 / 5.1
Chamber volume (L / cuft)	65 / 2.3	105 / 3.75	176 / 6.2
Interior dimensions (mm / in (W x H x D))	328 x 480 x 415 / 12.9 x 18.9 x 16.3	438 x 580 x 414 / 17.2 x 22.8 x 16.3	438 x 680 x 589 / 17.2 x 26.8 x 23.2
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)	120 / 60	120 / 60	120 / 60
Rated power / max. current (W / A)	1730 / 14.4	1680 / 14	1680 / 14
Weight (kg / lb)	42 / 93	53 / 117	66 / 146
Energy consumption at 150° C (W)	194	261	320

<sup>1</sup> Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit.<sup>2</sup> Depth does not include handle/display (65 mm / 2.6 in.) and distance spacer at rear (80 mm / 3.1 in.); height includes the feet (35mm / 1.4 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.documents.



Smooth inner chamber with easy to clean rounded corners

# Performance for proven results

## Features

- Operating from 50 °C up to 250 °C
- Gravity convection units are designed to protect delicate samples while offering temperature uniformity of +/- 3.5 °C with temperature stability of +/- 0.4 °C at 150 °C
- Mechanical convection models provide a temperature uniformity of +/-2.9 °C with temperature stability of +/-0.3 °C at 150 °C

## Data logging

- The exhaust vent can be used as an access port for an external temperature sensor
- All Heratherm ovens come standard with a RS232 data interface
- Optional factory installed access ports available

## Specifications table/order numbers General Protocol Ovens

Order numbers	51028121	51028873	51028875
Model	OMS60	OMS100	OMS180
Convection technology	Mechanical convection	Mechanical convection	Mechanical convection
Temperature range (°C)	50 °C <sup>1</sup> - 250 °C	50 °C <sup>1</sup> - 250 °C	50 °C <sup>1</sup> - 250 °C
Spatial temperature deviation at 150 °C	± 3.3 °C	± 3.5 °C	± 2.8 °C
Temperature deviation over time at 150 °C	± 0.3 °C	± 0.4 °C	± 0.3 °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 / 3.65	179 / 6.3
Interior dimensions (mm / in (W x H x D))	354 x 508 x 368 / 13.9 x 20 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> 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)	1440 / 12	1660 / 13.8	1660 / 13.8
Weight (kg / lb)	42 / 93	53 / 117	66 / 146
Energy consumption at 150° C (W)	316	410	465

<sup>1</sup> Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit. <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 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.



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



Standard RS232 interface on all units



Fresh air damper provides control over air exchanges



Operating up to 250 °C

# Heratherm Advanced Protocol Ovens

As well as incorporating all the benefits of our General Protocol table top ovens, the Advanced Protocol range boasts additional features providing even more flexibility and accuracy

## Maximum efficiency

- Timer extends the automation options available to the user
  - Automate the oven to turn on or off at pre-set times
  - Weekly function allows to set on / off times for each day of the week individually

- Real time function allows to set timer based on actual time in hours and minutes
- Timer is perfect to save energy by running the oven just at needed time

## Ultimate performance

- Capable of operating at temperatures up to 330 °C
- Our highest level of temperature uniformity
- Exceptionally low energy consumption – 60 L models need just 170 W (gravity convection) and 275 W (mechanical convection) per hour to maintain 150 °C



100 L model shown

## Specifications table/order numbers Advanced Protocol Ovens

Order numbers (coated exterior)	51028115	51028116	51028117
Model	OGH60	OGH100	OGH180
Convection technology	Gravity convection	Gravity convection	Gravity convection
Temperature range (°C)	50 °C <sup>1</sup> - 330 °C	50 °C <sup>1</sup> - 330 °C	50 °C <sup>1</sup> - 330 °C
Spatial temperature deviation at 150 °C	± 2.5 °C	± 3.0 °C	± 2.5 °C
Temperature deviation over time at 150 °C	± 0.3 °C	± 0.3 °C	± 0.3 °C
Footprint (m <sup>2</sup> / sqft)	0.3 / 3.2	0.36 / 3.9	0.47 / 5.1
Chamber volume (L / cuft)	61 / 2.15	99 / 3.6	168 / 6.05
Interior dimensions (mm / in (W x H x D))	328 x 480 x 389 / 12.9 x 18.9 x 15.3	438 x 580 x 389 / 17.2 x 22.8 x 15.3	438 x 680 x 564 / 17.2 x 26.8 x 22.2
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)	120 / 60	208-240 / 60	208-240 / 60
Rated power / max. current (W / A)	1730 / 14.4	3360 / 14	3360 / 14
Weight (kg / lb)	44 / 97	55 / 121	69 / 152
Energy consumption at 150°C (W)	170	210	290

<sup>1</sup> Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit. <sup>2</sup> Depth does not include handle/display (65 mm / 2.6 in.) and distance spacer at rear (80 mm / 3.1 in.); height includes the feet (35 mm / 1.4 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.documents.



# Additional features

- Adjustable fan speed for application related airflow
  - High speed for fastest drying/heating, quick recovery as well as best temperature stability/uniformity
  - Reduced speed for applications that require minimal airflow, like drying of paper, food or pharmaceutical samples
  - Fan speed is adjustable in 5 settings; note: actual speed will vary by temperature, and fan cannot be switched off – to prevent overheating
- Programmable controller for temperature ramps and dwells
  - Store up to 10 programs with 10 discrete steps
  - Features electronically controlled fan speed and damper position
- Access port allows the introduction of sensors for independent data monitoring
- A simple calibration routine ensures temperature accuracy over time
- Boost function enables rapid heating up – no need to run the oven 24/7



Fan adjustable in five speed settings for matching the airflow to your application

## Specifications table/order numbers Advanced Protocol Ovens

Order numbers (coated exterior)	51028124	51028125	51028126
Model	OMH60	OMH100	OMH180
Convection technology	Mechanical convection	Mechanical convection	Mechanical convection
Temperature range (°C)	50 °C <sup>1</sup> - 330 °C	50 °C <sup>1</sup> - 330 °C	50 °C <sup>1</sup> - 330 °C
Spatial temperature deviation at 150 °C	± 1.5 °C	± 1.3 °C	± 1.5 °C
Temperature deviation over time at 150 °C	± 0.2 °C	± 0.2 °C	± 0.2 °C
Footprint (m <sup>2</sup> / sqft)	0.3 / 3.2	0.91 / 9.8	0.47 / 5.1
Chamber volume (L / cuft)	62 / 2.2	97 / 3.5	170 / 6.1
Interior dimensions (mm / in (W x H x D))	354 x 508 x 343 / 13.9 x 20 x 13.5	464 x 608 x 343 / 18.3 x 23.9 x 13.5	464 x 708 x 518 / 18.3 x 27.9 x 20.4
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)	120 / 60	208-240 / 60	208-240 / 60
Rated power / max. current (W / A)	1440 / 12	3360 / 14	3360 / 14
Weight (kg / lb)	44 / 97	55 / 121	69 / 152
Energy consumption at 150° C (W)	275	389	448

<sup>1</sup> Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit. <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 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.



Operating temperatures as high as 330 °C



Dedicated access port (0.71 in diameter) allows the introduction of independent sensors

# Heratherm General Protocol Ovens

Heratherm large capacity ovens have been designed with your need for larger samples or high sample volume in mind. The General Protocol ovens provide high capacity for day-to-day drying and heating applications.

## Efficiency

- Two sizes (400 L and 750 L)
- Gravity convection technology for gentle heating and drying
- Low overall energy consumption: 23% energy savings compared to conventional ovens
- Great footprint/volume ratio and optimal use of chamber with flexible shelving system
- Corrosion-resistant stainless steel inner chambers (AISI 430)

## Exceptional performance

- Operating from 10 °C above ambient temperature up to 250 °C
- Protect delicate samples while still offering a uniformity of  $\pm 3.0$  °C and temperature stability of  $\pm 0.5$  °C at 150 °C)

## Ease of use

- "Plug and play" for 208/240V models with standard Nema 6-20P plug; no special hard-wiring necessary
- Intuitive user interface and easy-to-read display
- Lockable casters for mobility and easy set-up in your lab



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

# Additional features

## Maximum convenience for sample safety

- 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 ease-of-access
- Easy-to-remove shelves for cleaning
- Automatic overtemperature alarm system to protect samples – no need for timely manual setting
- Timer function to program start or switch off times for additional energy savings
- Lockable casters for easy mobility and stability

## Specifications table/order numbers Large Capacity General Protocol Ovens

Order numbers	51029327	51029339
Model	OGS400	OGS750
Convection technology	Gravity convection	Gravity convection
Temperature range (°C)	+50 °C <sup>1</sup> - 250 °C	+50 °C <sup>1</sup> - 250 °C
Spatial temperature deviation at 150 °C	±3.0 °C	±3.7 °C
Temperature deviation over time at 150 °C	±0.5 °C	±0.5 °C
Footprint (m <sup>2</sup> / sqft)	0.56 / 6.0	0.91 / 9.8
Chamber volume (L / cuft)	419 / 14.8	774 / 27.3
Interior dimensions (mm / in (W x H x D))	544 x 1307 x 590 / 21.4 x 51.5 x 23.2	1060 x 1335 x 590 / 39.5 x 51.5 x 23.2
Exterior dimensions <sup>2</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 (standard / max)	2 / 37	2 / 37
Max. shelf load (kg / lb)	40 / 88	40 / 88
Rated voltage / frequency (V / Hz)	208-240 / 60	208-240 / 60
Rated power / max. current (W / A)	2640 / 11	3240 / 13.5
Weight (kg / lb)	136 / 300	182 / 401
Energy consumption at 150° C (W)	520	800

<sup>1</sup> Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit. <sup>2</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.



Heratherm large capacity ovens offer up to 23% energy savings compared to conventional ovens\*



Easy-to-view, vacuum fluorescent display with simple-to-use touch button operation



Factory installed casters allow for increased mobility and make setting up your lab easy

# Heratherm Advanced Protocol Ovens

The Heratherm Large Capacity Advanced Protocol ovens offer mechanical convection technology for faster drying and better temperature stability and uniformity. Greater flexibility, accuracy and dependability are provided through a wide range of additional features.

## Prime performance

- Operating at temperatures as high as 250 °C
- Improved level of temperature uniformity: +/-2.1 to 3.1 °K
- Mechanical convection technology ensures optimal temperature distribution, and fast heat-up and drying processes.
- 2-speed fan for application flexibility:
  - Slow speed for applications that require minimal airflow (e.g. drying of powders),
  - High speed for fastest drying and heating, and best temperature stability and uniformity



# Additional features

## Additional features

- Access port for introduction of external sensors for independent data monitoring, or other devices for specific test set-ups
- Simple calibration routine to ensure temperature compliance over time.

## Greater efficiency

- Programmable controller for pre-defined temperature ramps
  - Up to 10 temperature steps can be defined per program
  - Fan speed and damper position are controlled

electronically, and can be changed for every program step individually for maximal process flexibility

- Up to 10 programs can be saved for simple and speedy process repetition
- Sophisticated timer extends the automation options available to the user
  - Choose between a simple on/off timer, recurring weekly timer or set oven activity based on the 24 hour clock
- Inner chamber made from stainless steel (highly resistant quality AISI 304)



Access port



Fan adjustable in two speeds for matching the airflow to your application

## Specifications table/order numbers Large Capacity Advanced Protocol Ovens

Order numbers (coated exterior)	51029329	51029343
Model	OMH400	OMH750
Convection technology	Mechanical convection	Mechanical convection
Temperature range (°C)	+50 °C <sup>1</sup> - 250 °C <sup>2</sup>	+50 °C <sup>1</sup> - 250 °C <sup>2</sup>
Spatial temperature deviation at 150 °C	±2.1 °C	±3.1 °C
Temperature deviation over time at 150 °C	±0.3 °C	±0.4 °C
Footprint (m <sup>2</sup> / sqft)	0.56 / 6.0	0.91 / 9.8
Chamber volume (L / cuft)	396 / 14	731 / 25.8
Interior dimensions (mm / in (W x H x D))	544 x 1335 x 545 / 21.4 x 52.6 x 21.5	1004 x 1335 x 545 / 39.5 x 52.5 x 21.5
Exterior dimensions <sup>3</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 (standard / max)	2 / 37	2 / 37
Max. shelf load (kg / lb)	40 / 88	40 / 88
Rated voltage / frequency (V / Hz)	208-240 / 60	208-240 / 60
Rated power / max. current (W / A)	3240 / 13.5	3480 / 14.5
Weight (kg / lb)	135 / 298	185 / 408
Energy consumption at 150° C (W)	630	990

<sup>1</sup> Temperatures as low as ambient +10 °C can be selected – requires open damper and no additional heat in unit. <sup>2</sup> W ith low voltage and open damper max temperature is 235 °C. <sup>3</sup> Depth does not include handle/display (65mm / 2.6 in.) and distance spacer at rear (106mm / 4.2 in.); height includes the casters (108 mm / 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.

# Factory installed options

## Specifications table/order numbers

Product	Description	Cat. No.
<b>Options – factory installed: please order in conjunction with desired oven</b>		
General Protocol kit for underbench installation	Kit for underbench installation; for all General Protocol ovens; consists of exhaust tubing (59 in length) and details on wall distances. Note: This kit can be ordered separate from oven.	50128887
Advanced Protocol kit for underbench installation	Kit for underbench installation; for all table top Advanced Protocol ovens; consists of exhaust tubing (59 in length) and details on wall distances; maximum temperature of oven is set at 250 °C for underbench installation.	51901061
Access port left, small	Additional access port on center of left side of unit; Ø 0.9 in for all mechanical convection ovens / Ø 0.75 in for all gravity convection ovens.	51900996
Access port left, large	Additional access port on center of left side of unit; Ø 2.3 in for all mechanical convection ovens / Ø 2.0 in for all gravity convection ovens.	51900997
Access port right, small	Additional access port on center of right side of unit; Ø 0.9 in for all mechanical convection ovens / Ø 0.75 in for all gravity convection ovens.	51900998
Access port right, large	Additional access port on center of right side of unit; Ø 2.3 in for all mechanical convection ovens / Ø 2.0 in for all gravity convection ovens.	51900999
Access port top, small	Additional access port on center of top of unit; Ø 0.9 in for all ovens.	51901000
Access port top, large	Additional access port on center of top of unit; Ø 2.3 in for all ovens.	51901001
Door hinge left side	Door hinge on left side – available for all table top units.	51900993
Door hinge left side	Door hinge on left side – available for all 400L units.	51901213

Please contact your Thermo Scientific sales representative in case you need any specific features. We can provide a variety of custom solutions, such as:

- Access ports at preferred positions
- Stainless steel exterior
- Lockable door
- Viewing window in door
- Flexible sample sensor for temperature logging of sample
- Table top solution for cable testing
- Solutions for clean room applications
- Inner casing with conditional gas-tightness for inert gas applications



Additional access ports top and right

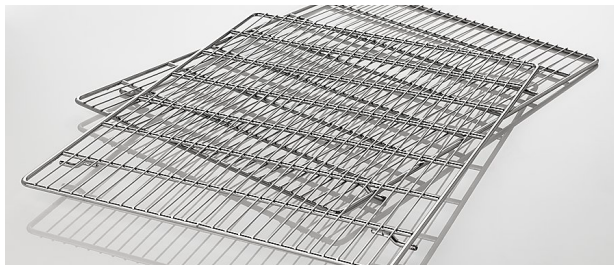


Underbench installation kit

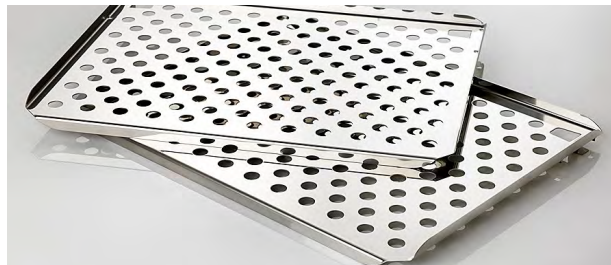
# Accessories

## Specifications table/order numbers

Product	Description	Cat. No.
<b>Additional shelving – gravity convection</b>		
Additional wire mesh shelf, 60 L models	For General Protocol; Advanced Protocol; incl. 2 shelf supports; 12.28 x 15.20 in	50127761
Additional wire mesh shelf, 100 L models	For General Protocol; Advanced Protocol; incl. 2 shelf supports; 16.61 x 15.20 in	50127762
Additional wire mesh shelf, 180 L models	For General Protocol; Advanced Protocol; incl. 2 shelf supports; 16.61 x 22.07 in	50127763
Additional wire mesh shelf, 400 L models	For General Protocol ovens; incl. 2 shelf supports; 20.79 x 21.06 in	50135245
Additional wire mesh shelf, 750 L models	For General Protocol ovens; incl. 2 shelf supports; 38.74 x 21.06 in	50135246
Reinforced shelf, 180 L models	Shelf with maximum capacity of 154 lb for 180 L models, gravity convection of Advanced Protocol ovens; max total capacity is 551 lb	50128880
Stainless steel perforated shelf, 400 L models	For General Protocol oven; incl. 2 shelf supports; 20.8 x 19.6 in	50135241
Stainless steel perforated shelf, 750 L models	For General Protocol oven; incl. 2 shelf supports; 38.7 x 19.6 in	50135242
<b>Additional shelving – gravity convection</b>		
Additional wire mesh shelf, 60 L models	For General Protocol; Advanced Protocol; incl. 2 shelf supports; 13.31 x 13.22 in	50127764
Additional wire mesh shelf, 100 L models	For General Protocol; Advanced Protocol; incl. 2 shelf supports; 17.64 x 13.22 in	50127765
Additional wire mesh shelf, 180 L models	For General Protocol; Advanced Protocol; incl. 2 shelf supports; 17.64 x 20.12 in	50127766
Additional wire mesh shelf, 400 L models	For Advanced Protocol ovens; incl. 2 shelf supports; 20.79 x 21.06 in	50135245
Additional wire mesh shelf, 750 L models	For Advanced Protocol ovens; incl. 2 shelf supports; 38.74 x 21.06 in	50135246
Stainless steel perforated shelf, 60 L models	For General Protocol, Advanced Protocol, ovens; incl. 2 shelf supports; 12.95 x 14.80 in	50127773
Stainless steel perforated shelf, 100 L models	For General Protocol, Advanced Protocol, ovens; incl. 2 shelf supports; 17.28 x 14.80 in	50127774
Stainless steel perforated shelf, 180 L models	For General Protocol, Advanced Protocol, ovens; incl. 2 shelf supports; 17.28 x 19.88 in	50127777
Reinforced shelf, 180 L models	Shelf with maximum capacity of 154 lb for 180 L models, mechanical convection of Advanced Protocol ovens; max total capacity is 551 lb	50128881
Stainless steel perforated shelf, 400L models	Stainless steel perforated shelf for Advanced Protocol oven; incl. 2 shelf supports; 20.8 x 19.6 in	50135241
Stainless steel perforated shelf, 750L models	Stainless steel perforated shelf for Advanced Protocol oven; incl. 2 shelf supports; 38.7 x 19.6 in	50135242



Wire mesh shelves



Stainless steel perforated shelves

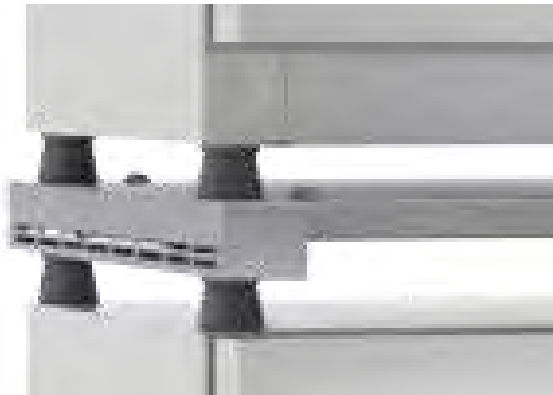


Reinforced shelves

# Accessories cont.

## Specifications table/order numbers

Product	Description	Cat. No.
<b>Silicone free viton door sealing</b>		
Silicone free viton door sealing, 60 L models	Silicone free viton door sealing for all 60 L ovens	50130657
Silicone free viton door sealing, 100 L models	Silicone free viton door sealing for all 100 L ovens	50130658
Silicone free viton door sealing, 180 L models	Silicone free viton door sealing for all 180 L ovens	50130659
Silicone free viton door sealing, 400L & 750L models	Factory installed silicone free viton door sealing. Please order with 400L or 750L oven. Note: The sealing cannot be installed in the field on these free standing 400L and 750 L units.	51901344
<b>Fresh air filter</b>		
Fresh air particle filter, all ovens models	Fresh air particle filter for connection to the fresh air vent (intake); for all ovens models	50127566
<b>Stacking kits</b>		
Stacking kit, all 60 L models	Stacking kit to stack two 60 L models	50126665
Stacking kit, all 100 L models	Stacking kit to stack two 100 L models, or 60 L on 100 L	50126666
Stacking kit, all 180 L models	Stacking kit to stack two 100 L models, or 60 L /100 L on 180 L	50126667
<b>Support Stands</b>		
Support stand, all 60 L models	Support stand with casters for 60 L models; height including casters: 7.36 in	50127741
Support stand, all 60 L models	Support stand with casters for 100 L models; height including casters: 7.36 in	50127742
Support stand, all 180 L models	Support stand with casters for 180 L models; height including casters: 7.36 in	50127743



Stacking kit



Support stand with casters



Fresh air particle filter



# Data capture for heating and drying ovens

## Thermo Scientific™ Smart-Vue™ Wireless Monitoring Solution

### Smart, scalable, and 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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