



**Thermo Scientific Heratherm
Heating and Drying Ovens**

efficient
safe
easy

Thermo Scientific Heratherm

Heating and Drying Ovens

your samples

We are obsessed with sample integrity. Each of our new laboratory heating and drying ovens is designed with sample protection as top priority.

our obsession

Our Heratherm® ovens are available in three different models, with sizes of 60L, 100L and 180L, providing the choice of gravity or mechanical airflow technology:

- **General Protocol**

units are optimally suited to everyday heating and drying applications up to 250 °C

- **Advanced Protocol**

models provide the necessary technologies for users requiring ultimate accuracy and increased heating capability up to 330 °C

- **Advanced Protocol Security**

ovens offer additional safety features aimed at ultimate protection of your most precious samples and products up to 330 °C



Thermo Scientific Heratherm ovens family includes optional stainless steel models. All units are **CE** marked.

Energy efficient

The new Thermo Scientific Heratherm ovens feature an environmentally friendly design with cost savings in mind, reducing energy consumption by as much as 20% compared to previous models*.



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

From simple drying of glassware to the most complex and carefully controlled heating applications, your oven is an invaluable part of your daily work. The Thermo Scientific Heratherm oven range includes an array of solutions to match your needs – and are backed by a two-year warranty on parts and labor, meaning confidence for your investment.

efficient

- Surpassing energy efficiency, increasing cost effectiveness, reducing environmental impact when compared to previous models*
- Unique door design reduces heat emission significantly
- Timer for effective usage and additional energy savings
- Space saving footprint without compromising volume
- Flexible shelving system allows for optimal space utilization

safe

- Routine check upon startup for optimum performance levels
- Temperature uniformity as good as +/- 2 °C at 150 °C
- Automatic audible and visual overtemperature alarm
- Access port for data logging with independent sensors
- Low surface temperatures

easy

- Easy to read, large display
- Easy setting with intuitive interface
- Easy cleaning with rounded corners

Innovative technology for outstanding versatility



HERATHERM FEATURES	GENERAL PROTOCOL OVENS	ADVANCED PROTOCOL OVENS	ADVANCED PROTOCOL SECURITY OVENS
Temperature range	50 °C - 250 °C	50 °C - 330 °C	50 °C - 330 °C
Interior material	stainless steel 1.4016	stainless steel 1.4301	stainless steel 1.4301
Rounded interior corners	✓	✓	✓
Microprocessor control	✓	✓	✓
Automatic overtemperature alarm	✓	✓	✓
Stackable with optional stacking kit	✓	✓	✓
Easy calibration routine	✓	✓	✓
Gravity convection	choice	choice	choice
Mechanical convection	choice	choice	choice
Timer functions	on / off	choice of weekly / hourly / real time	choice of weekly / hourly / real time
Fresh air damper	manually controlled	electronically controlled	electronically controlled
Access port for independent data monitoring	use exhaust vent	✓	✓
RS232 interface	✓	✓	✓
Adjustable fan speed		✓	✓
Programmable (ramps / dwells)		✓	✓
Boost function for accelerated heat-up		✓	✓
Optional stainless steel exterior		✓	✓
Dry alarm contact for connection of alarm device		✓	✓
Automatic undertemperature alarm			✓
Door alarm			✓
Lockable door			✓
Connection for optional sample temperature sensor			✓

Convection technologies – your choice

Gravity convection

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

Mechanical convection

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

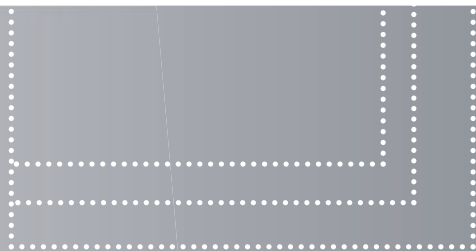
Select the right model for your needs

Thermo Scientific Heratherm Ovens Selector Guide

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, choose Advanced Protocol Security for highest sample safety. Check also our vacuum ovens for speedy drying at low temperatures.
	Powders	Gentle / Fast drying	
	Paper, textile	Gentle / Fast drying	
	Soil, sand	Gentle drying	
	Electronics	Gentle drying	
	Pharmaceutical preparations	Gentle drying	
Material testing	Cables	Highest temperature accuracy; safe processes	Advanced protocol models with mechanical convection; Advanced protocol security models for highest sample safety
	Plastics	Highest temperature accuracy; safe processes	
Curing	Paint	Gentle heating	Gravity convection for gentle heating. Choose Advanced Protocol for high temperature accuracy, Advanced Protocol Security for highest sample safety. If combustible solvents are released: ask your Thermo Fisher Scientific representative!
	Adhesives	Gentle heating	
	Plastics	Gentle heating	
	Metals	Gentle heating	
Heated storage	Pills, drugs	Gentle heating; safe processes	Gravity convection for gentle heating, or mechanical convection Advanced Protocol at low fan speed. Choose Advanced Protocol Security for highest sample safety.
Vulcanization	Rubber	Gentle heating	

*examples

Footprint Comparison*



manufacturer A

manufacturer B

Maximized space efficiency

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

*based on internal testing 10/2010



Thermo Scientific Heratherm General Protocol Ovens

Thermo Scientific Heratherm General Protocol ovens are perfect for routine daily work, providing the ideal heating and drying solution for your applications.



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



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

technology for efficiency

- Low energy consumption
- Built in timer
- Excellent footprint/volume ratio
- Three sizes (60, 100, 180L)
- 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

SPECIFICATIONS TABLE/ORDER NUMBERS GENERAL PROTOCOL OVENS

Order number		51028139	51028140
Model		OGS60	OGS100
Convection technology		Gravity convection	Gravity convection
Temperature range	°C	50 - 250	50 - 250
Spatial temperature deviation	at 150 °C	± 4.4 °C	± 4 °C
Temperature deviation over time	at 150 °C	± 0.4 °C	± 0.4 °C
Footprint	m ² / sqft	0.3 / 3.2	0.36 / 3.9
Chamber volume	L / cuft	65 / 2.3	105 / 3.75
Dimensions	chamber, 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
	exterior ¹ , 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
Number of shelves	supplied / max	2 / 13	2 / 16
Max. shelf load	kg / lb	25 / 55	25 / 55
Rated voltage / frequency	V / Hz	230 / 50	230 / 50
Rated power / max. current	W / A	1800 / 7.9	3100 / 13.5
Weight	kg / lb	42 / 93	53 / 117
Additional shelf kit ² order number		50127761	50127762
Stacking kit order number		50126665	50126666
Support stand with casters ³ order number		50127741	50127742

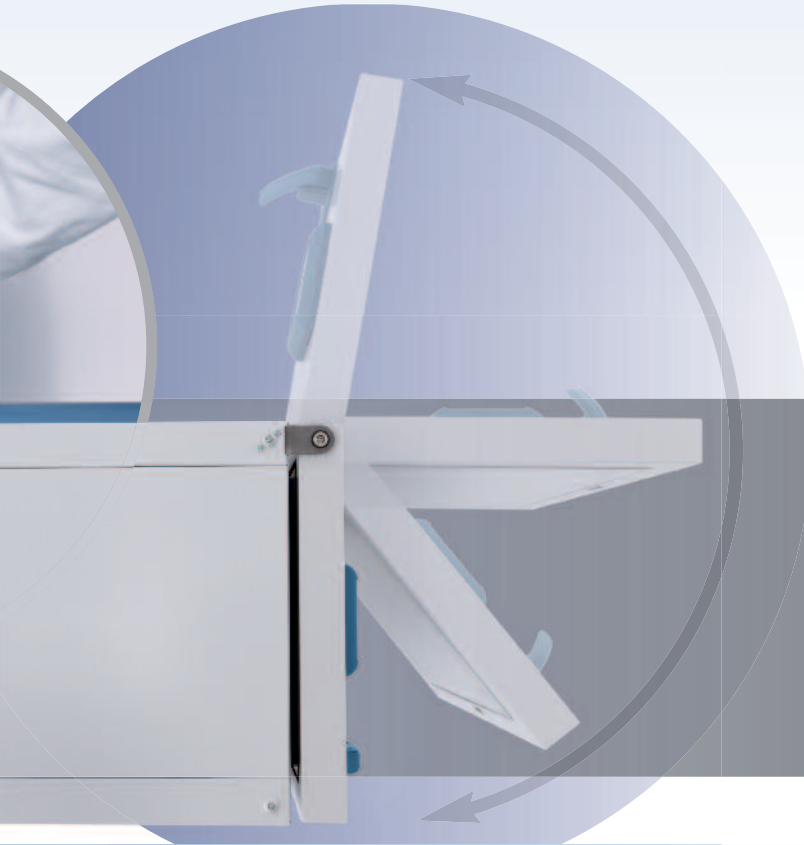
¹ Depth of handle / display not included in depth (65 mm); adjustable feet not included in height (35 mm) – required distance to rear wall: 80 mm

² Includes two shelf supports

³ Height of stand including casters: 187 mm

180° door opening

The door can be opened 180° to allow convenient access to the interior for hassle free cleaning and easy loading of probes.



Fresh Air Damper provides control over air exchanges



Standard RS232 interface on all units



Operating up to 250 °C

performance for proven results

- Operating from 50 °C up to 250 °C
- Gravity convection units are designed to protect delicate samples while offering temperature uniformity of +/- 4 °C with temperature stability of +/- 0.4 °C at 150 °C
- Mechanical convection models provide a temperature uniformity of +/-3.3 °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

51028141	51028148	51028149	51028150
OGS180	OMS60	OMS100	OMS180
Gravity convection	Mechanical convection	Mechanical convection	Mechanical convection
50 - 250	50 - 250	50 - 250	50 - 250
± 4 °C	± 2.8 °C	± 2.5 °C	± 2.8 °C
± 0.4 °C	± 0.3 °C	± 0.3 °C	± 0.3 °C
0.47 / 5.1	0.3 / 3.2	0.36 / 3.9	0.47 / 5.1
176 / 6.2	66 / 2.3	104 / 3.65	179 / 6.3
438 x 680 x 589 / 17.2 x 26.8 x 23.2	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
640 x 920 x 738 / 25.2 x 36.2 x 29.1	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
2 / 19	2 / 13	2 / 16	2 / 19
25 / 55	25 / 55	25 / 55	25 / 55
230 / 50	230 / 50	230 / 50	230 / 50
3100 / 13.5	1400 / 6.1	3060 / 13.3	3060 / 13.3
66 / 146	42 / 93	53 / 117	66 / 146
50127763	50127764	50127765	50127766
50126667	50126665	50126666	50126667
50127743	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 Ovens

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



Operating temperatures as high as 330 °C



Heratherm Advanced Protocol Ovens,
60L, 100L, 180L

efficiency

- Sophisticated timer extends the automation options available to the user
 - > Automate the oven to turn on or off after a pre-set time
 - > Choose between a recurring weekly timer or run oven based on the 24 hour clock

prime performance

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

SPECIFICATIONS TABLE/ORDER NUMBERS ADVANCED PROTOCOL OVENS

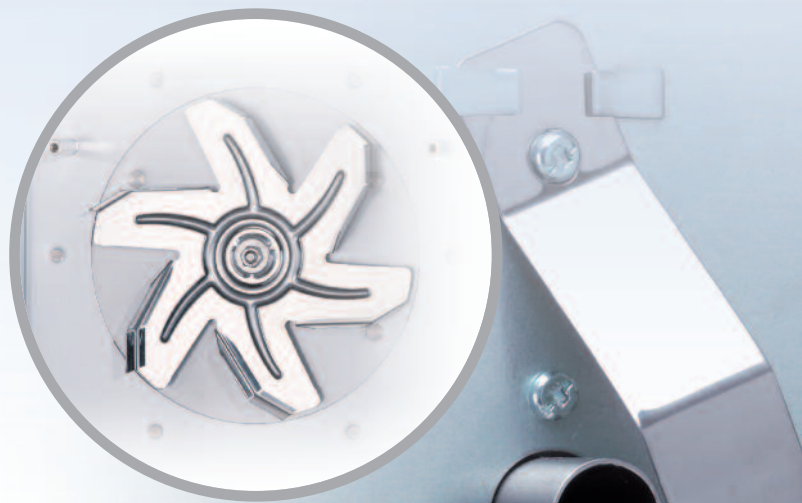
Order number (coated exterior)	51028142	51028143
Model	OGH60	OGH100
Order number (stainless steel exterior)	51028709	51028711
Model	OGH60 SS	OGH100 SS
Convection technology	Gravity convection	Gravity convection
Temperature range	°C 50 - 330	50 - 330
Spatial temperature deviation	at 150 °C ± 2.5 °C	± 3.0 °C
Temperature deviation over time	at 150 °C ± 0.3 °C	± 0.3 °C
Footprint	m ² / sqft 0.3 / 3.2	0.36 / 3.9
Chamber volume	L / cuft 61 / 2.15	99 / 3.6
Dimensions	chamber, mm / in (W x H x D)	328 x 480 x 389 / 12.9 x 18.9 x 15.3
	exterior ¹ , mm / in (W x H x D)	530 x 720 x 565 / 20.9 x 28.3 x 22.2
Number of shelves	supplied / max 2 / 13	2 / 16
Max. shelf load	kg / lb 25 / 55	25 / 55
Rated voltage / frequency	V / Hz 230 / 50	230 / 50
Rated power / max. current	W / A 1800 / 7.9	3100 / 13.5
Weight	kg / lb 44 / 97	55 / 121
Additional shelf kit ² order number	50127761	50127762
Stacking kit order number	50126665	50126666
Support stand with casters ³ order number	50127741	50127742



¹ 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

² Includes two shelf supports

³ Height of stand including casters: 187 mm



Adjustable fan for matching the airflow to your application

Dedicated access port allows the introduction of independent sensors

Optional stainless steel exterior is available:

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

unmatched
sophistication

- Adjustable fan speed for application related airflow:
 - > High speed for fastest drying and heating, quick recovery as well as best temperature stability and uniformity
 - > Reduced speed for applications that require minimal airflow, like drying of powders
- 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

51028144	51028151	51028152	51028153
OGH180	OMH60	OMH100	OMH180
51028712	51028713	51028715	51028716
OGH180 SS	OMH60 SS	OMH100 SS	OMH180 SS
Gravity convection	Mechanical convection	Mechanical convection	Mechanical convection
50 - 330	50 - 330	50 - 330	50 - 330
± 2.5 °C	± 1.8 °C	± 1.3 °C	± 1.8 °C
± 0.3 °C	± 0.2 °C	± 0.2 °C	± 0.2 °C
0.47 / 5.1	0.3 / 3.2	0.36 / 3.9	0.47 / 5.1
168 / 6.05	62 / 2.2	97 / 3.5	170 / 6.1
438 x 680 x 564 / 17.2 x 26.8 x 22.2	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
640 x 920 x 738 / 25.2 x 36.2 x 29.1	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
2 / 19	2 / 13	2 / 16	2 / 19
25 / 55	25 / 55	25 / 55	25 / 55
230 / 50	230 / 50	230 / 50	230 / 50
3100 / 13.5	1400 / 6.1	3060 / 13.3	3060 / 13.3
69 / 152	44 / 97	55 / 121	69 / 152
50127763	50127764	50127765	50127766
50126667	50126665	50126666	50126667
50127743	50127741	50127742	50127743

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Thermo Scientific Heratherm

Advanced Protocol Security Ovens

The Heratherm Advanced Protocol Security portfolio combines the benefits of our advanced protocol line with an extra layer of security for applications where process reliability and sample protection are paramount.



An audible door alarm notifies the operator when the door is left open accidentally



All Heratherm Advanced Protocol Security ovens are available in coated or stainless steel exterior. (60L, 100L, 180L)

A lockable door provides restricted sample access



maximized
safety

Additional security features provide peace of mind for precious samples

- Auto-dry function deactivates oven when the samples are dry, saving energy (Note: An optional sample temperature sensor is required to utilize this feature)
- Standard overtemperature alarm and an additional undertemperature alarm ensure that your samples are kept at the correct temperature
- Door lock prevents disruption, tampering or accidental opening
- Door alarm notifies the operator when door is left open accidentally

SPECIFICATIONS TABLE/ORDER NUMBERS ADVANCED PROTOCOL SECURITY OVENS

Order number (coated exterior)	51028145	51028146
Model	OGH60-S	OGH100-S
Order number (stainless steel exterior)	51028544	51028545
Model	OGH60-S SS	OGH100-S SS
Convection technology	Gravity convection	Gravity convection
Temperature range	°C 50 - 330	50 - 330
Spatial temperature deviation	at 150 °C ± 2.5 °C	± 3.0 °C
Temperature deviation over time	at 150 °C ± 0.3 °C	± 0.3 °C
Footprint	m ² / sqft 0.3 / 3.2	0.36 / 3.9
Chamber volume	L / cuft 61 / 2.15	99 / 3.6
Dimensions	chamber, 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
	exterior ¹ , 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
Number of shelves	supplied / max 2 / 13	2 / 16
Max. shelf load	kg / lb 25 / 55	25 / 55
Rated voltage / frequency	V / Hz 230 / 50	230 / 50
Rated power / max. current	W / A 1810 / 7.9	3100 / 13.5
Weight	kg / lb 44 / 97	55 / 121
Additional shelf kit ² order number	50127761	50127762
Stacking kit order number	50126665	50126666
Support stand with casters ³ order number	50127741	50127742
Sample sensor for all models order number	50127767	50127767

¹ 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

² Includes two shelf supports

³ Height of stand including casters: 187 mm



Check the unique optional sample sensor:

- Measure exact sample temperature: shown on display in addition to chamber temperature
- When used with “autodry” program, the oven will switch off automatically as soon as sample is dry and save energy!



The stainless steel exterior meets demanding needs in pharmaceutical and clinical laboratories



51028147	51028154	51028155	51028156
OGH180-S	OMH60-S	OMH100-S	OMH180-S
51028546	51028547	51028548	51028549
OGH180-S SS	OMH60-S SS	OMH100-S SS	OMH180-S SS
Gravity convection	Mechanical convection	Mechanical convection	Mechanical convection
50 - 330	50 - 330	50 - 330	50 - 330
± 2.5 °C	± 1.8 °C	± 1.3 °C	± 1.8 °C
± 0.3 °C	± 0.2 °C	± 0.2 °C	± 0.2 °C
0.47 / 5.1	0.3 / 3.2	0.36 / 3.9	0.47 / 5.1
168 / 6.05	62 / 2.2	97 / 3.5	170 / 6.1
438 x 680 x 564 / 17.2 x 26.8 x 22.2	328 x 508 x 343 / 12.9 x 20 x 13.5	438 x 608 x 343 / 17.2 x 23.9 x 13.5	464 x 708 x 518 / 18.3 x 27.9 x 20.4
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2 / 19	2 / 13	2 / 16	2 / 19
25 / 55	25 / 55	25 / 55	25 / 55
230 / 50	230 / 50	230 / 50	230 / 50
3100 / 13.5	1400 / 6.1	3060 / 13.3	3060 / 13.3
69 / 152	44 / 97	55 / 121	69 / 152
50127763	50127764	50127765	50127766
50126667	50126665	50126666	50126667
50127743	50127741	50127742	50127743
50127767	50127767	50127767	50127767

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Additional Options

SPECIFICATIONS TABLE/ORDER NUMBERS FACTORY INSTALLED OPTIONS

Factory installed options	Order number	Details
View package	51900991	Window with light for sample viewing without temperature disruption; please order together with Advanced Protocol or Advanced Protocol Security unit – coated exterior only. Note: Maximum temperature is 250 °C with this option.
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.
Access port left – 20 mm	51900996	Additional access port on left side of unit; 20 mm diameter
Access port left – 50 mm	51900997	Additional access port on left side of unit; 50 mm diameter
Access port right – 20 mm	51900998	Additional access port on right side of unit; 20 mm diameter
Access port right – 50 mm	51900999	Additional access port on right side of unit; 50 mm diameter
Access port top – 20 mm	51901000	Additional access port on top of unit; 20 mm diameter
Access port top – 50 mm	51901001	Additional access port on top of unit; 50 mm diameter

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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