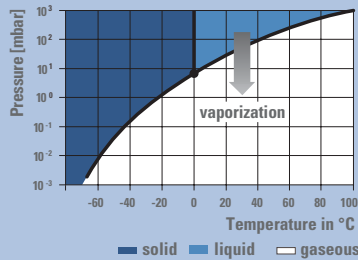
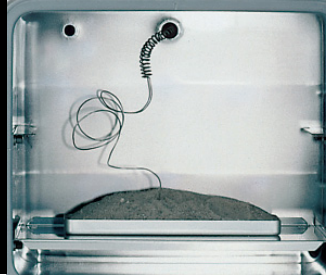


# Thermo Scientific Heraeus Vacutherm Ovens

There are three oven sizes with volumes of 25, 53 and 128 l. The system is modular, allowing application-specific configurations through the selection of a wide range of equipment options. The specific heating technology provides significantly reduced heating-up times. With double-pane safety glass doors, implosion protection is guaranteed throughout the equipment's life. An upper limit cut-out ensures protection of oven and product.



3  
Water:  
Lower pressure  
means lower  
boiling point



## Well thought-out

### Vacuum applications offer many benefits

- Gentle drying of heat-sensitive materials
- Significantly reduced drying times
- Residue-free drying of intricately designed parts
- Elimination of oxidation associated with heat treatment
- Safe drying of flammable solvents
- Targeted recovery of degassed products

## The fast and gentle choice

### The compact Vacuum Drying Oven Heraeus Vacutherm VT 6025 – good things come in small packages

The space saving unit VT6025 is jacket heated. The vacuum chamber is made of electropolished stainless steel to ensure exceptional resistance to corrosion. Aluminum shelves ensure optimal heat transfer to the samples.

#### Comfort Model of VT 6025

- Ideal for chemical-pharmaceutical laboratories
- Inert gas connection with precision valve and overpressure safety valve precisely releases non-flammable, non-toxic gases (VDI 20465)
- Standard DN25 access port in rear wall, e.g. for measuring



With a total volume of 25 l and temperatures to 200 °C the VT 6025 convinces with a compact design.

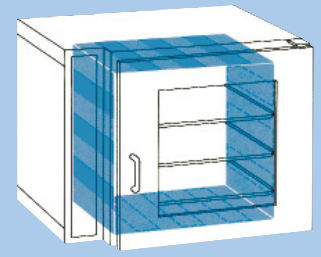


## Two Types of Heating

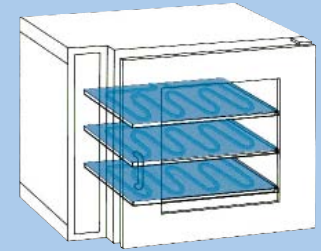
A choice of jacket- (model M) or shelf- heating (model P) ensure that ovens can meet your application requirements.

- Model M transfers heat from the vacuum chamber via the shelves to the load and is rated to 200 °C.
- Through shelf heating, model P uses direct energy transportation, reducing drying process times by as much as six-fold compared to standard methods. Their rated temperature is 300/400 °C.

## 5 Model M – Jacket Heating



## 5 Model P – Shelf Heating



## The intelligent, modular system – user friendly as never before

### The Heraeus Vacutherm – for all your application needs

The Heraeus Vacutherm meets all the demands relating to vacuum heat treatment – from simple routines to complicated processes involving temperatures up to 400 °C.

- Additional precision valve for gentle ventilation
- Inert gas connection for controlled atmosphere with overpressure safety valve

### The Heraeus Vacutherm BL – for flammable solvents

Heraeus Vacutherm BL\* versions deliver optimal safety features for drying applications using flammable solvents. Ask for additional information on our BL versions:

- **Pressure Heat Activation:** automatic heat shut off when pressure is too high
- **Permanent Control Panel Ventilation:** prevents solvent leakage using two independent generating fans



The Heraeus Vacutherm VT 6060 and VT 6130 are available with two different types of heating.

## Heraeus Vacutherm Series



### Technical Specifications

Standard models		Compact model		Jacket heating		Shelf heating	
		VT 6025	VT 6060 M	VT 6130 M	VT 6060 P	VT 6130 P	
Total volume	L	25	53	128	53	128	
<b>Dimensions (w x h x d)</b>							
Internal dimensions	mm	300 x 275 x 307	415 x 345 x 371	495 x 489 x 529	415 x - x 371	495 x - x 592	
	inch	11.8 x 10.8 x 12.1	16.3 x 13.6 x 14.6	19.5 x 19.3 x 20.8	16.3 x - x 14.6	19.5 x - x 23.3	
External dimensions <sup>1)</sup>	mm	480 x 600 x 450	744 x 576 x 570	895 x 720 x 750	744 x 576 x 570	895 x 720 x 750	
	inch	18.9 x 23.6 x 17.7	29.3 x 22.7 x 22.4	35.2 x 28.3 x 29.5	29.3 x 22.7 x 22.4	35.2 x 28.3 x 29.5	
Shelves (standard/max.)	no	2/4	2/4	3/5	2/2	3/3	
Usable area (w/d)	mm	270/250	400/312	480/470	400/297	465/417	
	inch	10.6/9.8	15.7/12.3	18.9/18.5	15.7/11.7	18.3/16.4	
<b>Temperature <sup>2)</sup></b>							
Rated temperature <sup>3)</sup>	°C	200	200	200	300/400	300/400	
Spatial temperature deviation <sup>4)</sup> at 200/300/400 °C	± °C	± 4/-/-	± 4/-/-	± 6/-/-	± 3/± 7/± 9	± 4/± 7/± 9	
<b>Electrical protection</b>							
Protection class / Protection type		I / IP 20	I / IP 20	I / IP 20	I / IP 20	I / IP 20	
<b>Vacuum</b>							
Vacuum connection with tube shaft Ø 20 mm	DN	25	25	25	25	25	
Measuring connection	DN	25	25	25	25	25	
Max. final vacuum	mbar (hPa)	1 x 10 <sup>-2</sup>	1 x 10 <sup>-2</sup>	1 x 10 <sup>-2</sup>	1 x 10 <sup>-2</sup>	1 x 10 <sup>-2</sup>	
<b>Weight (empty)</b>							
Permissible total load	kg	58	82	153	90	164	
	lbs.	127.8	180.8	337.3	198.4	361.5	
Max. load of shelf <sup>5)</sup>	kg	40	40	60	40	60	
	lbs.	88.2	88.2	132.3	88.2	132.3	
Max. load of shelf <sup>5)</sup>	kg	20	20	20	20	20	
	lbs.	44.1	44.1	44.1	44.1	44.1	
<b>Electrical input power</b>							
Voltage <sup>6)</sup>	V-(50/60 Hz)	230 ± 10 %	230 ± 10 %	230 ± 10 %	230 ± 10 %	230 ± 10 %	
Power	kW	1.3	1.7	2.2	1.6	3.0	
Heat transfer to environment at 200 °C/300 °C	Wh/h	340/-	550/-	870/-	-/450	-/880	

<sup>1)</sup> Depth without handle and wall distance. Dimensions: handle 70 mm, wall distance 80 mm <sup>2)</sup> The values stated apply to the empty oven and vacuum operation in acc. with DIN 12880, part 2)

<sup>3)</sup> Control range M: electronic controller from T<sub>a</sub> + 15 °C; control range P: electronic controller from T<sub>a</sub> + 10 °C; T<sub>a</sub> = Ambient temperature <sup>4)</sup> Measured on the shelves <sup>5)</sup> Distributed load

<sup>6)</sup> Other voltages on request



### Ordering Information

	Order no.
VT 6025 standard model, 230 V, 50/60 Hz <sup>1)</sup>	51014550
VT 6025 Comfort oven with inert gas connection, 230 V, 50/60 Hz <sup>1)</sup>	51014552
VT 6025 Comfort oven with inert gas connection and digital pressure display with recorder output, 230 V, 50/60 Hz <sup>1)</sup>	51014553
VT 6025 Comfort oven with inert gas connection and digital pressure display with recorder output and Digicon® S temperature controller with interface 0–20 mA/0–10 V, 230 V, 50/60 Hz <sup>1)</sup>	51014554
<b>Options/Accessories for VT 6025</b>	
Precision control valve (only for order no. 51014550)	51900326
Additional shelf (incl. shelf supports)	50028403
RS 232 computer interface	51900284

<sup>1)</sup> Other voltages on request

# Thermo Scientific Heating and Drying Ovens



## Heraeus Vacuotherm Series

### Ordering Information

		Jacket heating		Shelf heating	
		VT 6060 M	VT 6130 M	VT 6060 P	VT 6130 P
Total volume	L	53	128	53	128
Order no.		51014539	510114541	510114542	510114543
<b>Accessories for Vacuotherm 6000</b>		<b>VT 6060 M/P</b>		<b>VT 6130 M/P</b>	
Support frame, 780 mm height		50029890		50029597	
Additional shelves including shelf supports		50043975		50043976	
Tray made of stainless steel		50048621		50048619	
Tray made of aluminium steel		50048620		50048618	
Stainless steel vacuum connection kit for tubing with a diameter of 10 mm (all models)					50046860

<sup>1)</sup> All Heraeus pumps are equipped with the necessary components for connection to Heraeus Vacuum Ovens

### Ordering Information

Options for Vacuotherm 6000 M/P	Order no.	Options for vacuotherm 6000 M/P	Order no.
RS 232 computer interface for Kelvicon <sup>®</sup> controller	51900284	Digicon <sup>®</sup> S temperature controller with analog interface 0–20 mA/0–10 V	
Digital pressure display	51900069	(200 °C): VT 6060 M and VT 6130 M	51900194
Pressure controller with solenoid valve	51900193	(300 °C): VT 6060 P and VT 6130 P	51900195
VITON door gasket for VT 6060 M	51900071	(400 °C): VT 6060 P	51900196
VITON door gasket for VT 6130 M	51900072	VT 6130 P	51900197
Daily program timer, mechanical	51900205	Rated temperature of 400 °C, (door without inspection window)	
24 hour timer (20 h at 60 Hz)	51900073	for VT 6060 P	51900079
Weekly program timer, mechanical	51900008	for VT 6130 P	51900080
Weekly program timer, digital	51900161	Central monitoring connection	51900081
Digital sample temperature display with flexible Pt 100 temperature sensor and socket for external data recorder	51900074	Vacuum chamber with rounded corners at the rear	
Thermicon <sup>®</sup> P temperature program controller (for M-models only)	51900209	for VT 6060 M	51900075
Eurotherm 2404/P4 temperature controller with RS 232 interface (for M-models only)	51900297	for VT 6060 P	51900077
Eurotherm 2404/P4 temperature controller with RS 422/485 interface (for M-models only)	51900298	for VT 6130 M	51900076
		for VT 6130 P	51900078
		Temperature recorder with flexible Pt 100 temperature sensor (not in combination with the 400 °C model)	51900291

### Technical Specifications / Ordering Information

Pumps		Diaphragm pumps			Rotary vane pumps
		MD 12H	HMD 4C	HMZ 2C	RE 9H
Rated pumping capacity (Pneurop)	m <sup>3</sup> /h	9.6	3.0	1.7	8.6
Total final pressure without gas ballast	mbar	2	2	10	0.1
Total final pressure with gas ballast	mbar	<10	<10	<20	6 x 10 <sup>-1</sup>
Water vapor compatibility	mbar	–	–	–	40
Capacity of trap	ml	725	500	500	500
Weight	kg	24	18	14	21.6
Dimensions with trap (w/h/d)	mm	240 x 300 x 610	241 x 500 x 338	241 x 326 x 336	260 x 232 x 460
Order no.		50040078	50028362	50028364	50028361
<b>Vacucenter<sup>®</sup> with pump model</b>		<b>MD 12H</b>	<b>HMD 4C</b>		<b>RE 9H</b>
Voltage	V3N-, 50/60 Hz	400	400	–	400
Max. rated power	kW	3.37	3.20	–	3.37
External dimensions (w/h/d)	mm	895/650/900	895/650/900	–	895/650/900
Total weight	kg	88	80	–	86
Protection class		I	I	–	I
Protection type		IP 20	IP 20	–	IP 20
Order no. <sup>1)</sup>		50044332	50044333	–	50044334

<sup>1)</sup> in combination with VT 6060 or VT 6130

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