

Thermo Scientific Heraeus® microbiological incubators

An optimal environment for your samples





Cacém Park - Edifício 9 Estrada de Paço de Arcos nº88 2739-512 Agualva Cacém T +(351) 21 4278700 F +(351) 21 4278709



The optimal culture environment for your samples

We offer more than 20 Heraeus incubators to choose from, so you're sure to find a model that meets your needs.

Your Safety in Mind

All incubators are equipped with many safety features in order to protect yourself, your samples, the environment and the equipment.

Precise, Reliable Results

Our incubators provide an optimal, homogeneous, stable environment for your samples. Unsurpassed temperature uniformity and stability ensure that your protocols are fully reproducible – so you get the same high-quality results, time after time.

Optimal Hygiene

Interiors are easy to clean and disinfect, which minimizes the potential for contamination. Shelves and supports can be removed in seconds, without the need for tools.

A History of Quality and Dependability

We bring a history of excellence to the design and manufacture of microbiological and bacteriological incubators, with over 80 years of experience in this area.

We work closely with our customers to create and support incubators that offer unmatched build quality, precision and reliability.

Thermo Scientific Heraeus Series 6000 Incubators – The modularity to meet your needs

- Six different models with capacities from 30 L to 750 L
- Stainless steel interiors with rounded edges and corners
- Temperatures by 70 °C
- Stackable (B6060 B6200)

Our Heraeus Series 6000 incubators have a unique modular design that allows them to be configured to meet very specific requirements. Incubators can be fitted with a variety of standard modules, depending on your need or application. Model B 6200R allows incubation and rotation of roller bottle cultures of various sizes and volumes.

A range of options, accessories and internal fittings complement this modular flexibility, making our Series 6000 incubators the perfect choice for a customized solution.

409 and 751 L models are available with forced-air circulation for superior temperature homogeneity. The fan ensures consistent interior temperature distribution and short recovery times: atmosphere inside the incubator regenerates rapidly, even when the door is opened frequently.





Six models with interior volumes from 30 to 750 litres suitable for countless applications up to 70 $^{\circ}$ C.

Standard

Optional

Process control



Throttle valve for smooth adjustment of air changes inside the incubator

Temperature documentation



Connection facility for an external temperature recorder for measuring with Pt 100 temperature sensor, connection via DIN 41524 plug. Sensor permanently installed.

Temperature controller

temperature controller.

Accurate display of the set point or actual reading PD/PID control response

minimum overshoot and low control deviation



Kelvitron® **Programmable** Microprocessor

controller Thermicon[®] P

• Eurotherm 2404/P4

Controller with analog interface

- Digicon® S Detailed information on request
- RS 232 interface

for rapid heating,

Upper temperature limit protection



Upper temperature limit protection

Safety Class 3.1, independent of temperature controller Automatically takes over the temperature control if the upper limit set is exceeded

Upper and lower temperature limit protection

Safety Class 3.3, independent of temperature controller. Automatically takes over the temperature control if the upper or lower limit set is exceeded

Time Operation



24-hour timer Daily, weekly or (20h at 60 Hz)

- for switching on and off · Pre-heating for the next day
- · Timed shutdown of heating without manual intervention

digital weekly timer

- · For automatic repetition of an on-off cycle over a period of time
- · Power reserver in the event of power failure

Thermo Scientific Heraeus Function Line Incubators – Equipped with all the essentials

- Three different models with capacities from 73 L to 233 L
- · Stainless steel interior with rounded edges and corners
- Temperatures up to 70 °C
- Stackable

Thermo Scientific Heraeus Function Line incubators are equipped with all the essentials needed to perform cost-effectively in a wide range of laboratory environments. Userfriendly, compact in size and excellent value for money, our Heraeus Function Line models are easy to clean and decontaminate, with

corrosion-resistant stainless steel interiors and removable perforated shelves.

Engineered to provide an even temperature distribution and rapid heating, our incubators feature an adjustable, independent over temperature controller and RS 232 interface as standard equipment.

All of our Heraeus Function Line incubators are available with forcedair circulation for superior temperature homogeneity and fastest recovery times.



Remove the glass door in seconds and clean it separately.

Thermo Scientific Heraeus Function Line incubators have rounded edges and corners for easy cleaning.







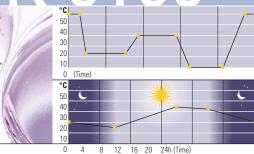
Thermo Scientific Heraeus BK 6160 Low Temperature Incubator – Protect your samples from dehydration

- 166 L capacity
- Temperatures from 0 °C to 50 °C
- Stainless steel interior with rounded edges and corners

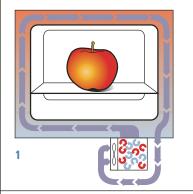
Our Heraeus BK 6160 low temperature incubator is equipped with a unique thermal jacket system to ensure uniform temperature within the interior chamber. Cooling and heating systems are located outside, below the chamber, where air is mixed and transported to the thermal jacket. The internal atmosphere is hermetically sealed off from the jacket.

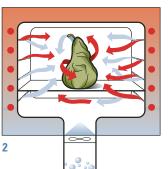
Unlike conventional incubators, which operate on the refrigerator principle, the coldest part of the Heraeus BK 6160 (the evaporator) is located externally to prevent dehumidification. With a water pan inside, a relative humidity of up to 90% can be maintained.

BK 6160



- ← Kelvitron KP temperature profile
- ◀ Kelvitron KL day / night simulation





Three different temperature controllers are available to match your individual needs:

- Kelvitron® K temperature controller: for set temperatures from 0 - 50 °C.
- Kelvitron KP: allows the user to program temperature profiles with up to 10 steps via the control panel. After completion the program can be repeated, switched off or the temperature is maintained. Maximum time per program step: 99 hrs 59 mins.
- Kelvitron KL: day/night simulation controls illumination and allows the user to program temperature profiles as described with Kelvitron KP.



Figure 1 – Heraeus BK 6160: The thermal jacket system prevents sample dehydration Figure 2 – During conventional refrigeration, moisture is removed from the sample

Thermo Scientific Heraeus BK 700 Low Temperature Incubator – Combines ease of use with high convenience

- 190 L capacity
- Temperatures from 3 °C to 40 °C
- · Impact-proof interior with rounded edges and corners

The Heraeus BK 700 has an easyto-read soft-touch control panel with digital temperature indication for cooling, heating and alarm. The controller provides test conditions with a fixed incubation temperature between 3-40 °C and allows a time-controlled switching of internal sockets for the use of magnetic stirrers or other equipment inside the incubator.







Heraeus Thermo Scientific Heraeus B 15 Compact Incubator – Saves space in your lab

- 15 L capacity
- Temperatures to 50 °C
- Stackable

The small footprint Heraeus B15 compact incubator fits neatly on any bench, or even a shelf. Temperature is freely adjustable, and can be displayed in increments of 0.2 °C. A reservoir for collecting spilled fluids provides additional safety.

The B 15 incubator is available with a tinted cover, or with a painted cover to protect photosensitive samples.

Technical Specifications		
Exterior dimensions (wxhxd)	mm / inch	340x270x431 / 13.4x10.6x17.0
Interior dimensions (wxhxd)	mm / inch	270x205x288 / 10.6x8.1x11.3
Total volume	L	15
Insertion plate		1
Temperature range	°C	T _A +5 ¹⁾ 50
Temperature deviation over time	⁽¹⁾ (K)	< ± 0.2
Spatial temperature deviation ^{2) 3}	(K)	$< \pm 0.8$
Net weight	kg / lbs	5.5 / 12.1
Rated voltage/rated frequency	V~, Hz	230, 50/60
Rated power	kW	0.2

1) T_A = Ambient temperature 2) At a room temperature of 20 °C and work chamber temperature of 37 °C 3) Measured in filled petri dishes, 6 stacks of 6 dishes each; top and bottom dish measured

Ordering Information	
Туре	Order no.
Heraeus B 15 Compact Incubator with tinted, transparent cover	50043619
Heraeus B 15 Compact Incubator with painted, opaque cover	50044698





Thermo Scientific Heraeus Series 6000

Standard Models		B 6030	B 6060	B 6120	B 6200	B/UB 6420	B/UB 6760	B 6200 R
Dimensions (wxhxd)								
Outer casing	mm	552x552x535	744x552x535	895x696x535	895x816x715	744x1707x715	1200x1707x715	895x816x715
	inch	21.7x21.7x21.1	29.3x21.7x21.1	35.2x27.4x21.1	35.2x32.1x28.1	29.3x 67.2x28.1	47.2x67.2x28.1	35.2x32.1x28.1
Height feet/roller	mm	24	24	24	24	106	106	24
-	inch	0.9	0.9	0.9	0.9	4.2	4.2	0.9
Inner casing								
Total volume	L	30	57	107	196	409/376	751/689	196
nt. dimensions (wxhxd)	mm	352x231x370	403x380x370	554x524x370	554x644x550	544x1366/1319x550/522	1000x1366/1319x550/522	554x524x550
	inch	13.9x9.1x14.6	15.9x15.0x14.6	21.8x20.6x14.6	21.8x25.4x21.7	21.4x53.8/51.9x21.7/20.6	39.4x53.8/51.9x21.7/20.6	21.8x20.6x21.7
Shelves standard/max.	No.	1 / 4	2/9	2 / 14	2 / 18	2 / 39	2 / 39	-/3
Weight empty	kg/lbs	41 / 90	52 / 115	69 / 152	96 / 212	157 / 346	239 / 527	96 / 212
Temperature								
Temperature range1)	°C	70	70	70	70	70	70	50
Spatial temperature								
deviation ²⁾ at 37°C	±°C	0.9	0.8	1.0	0.9	1.4 / 0.6	1.5 / 1.0	_
Temp. deviat. over time	±°C	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	_
Electrical Data								
Rated voltage (50/60Hz)	⁽⁴⁾ V	230~	230~	230~	230~	230~	230~	230~
Rated power	kW	0.23	0.38	0.38	0.55	0.78 / 0.90	1.17 / 1.20	0.54
Heat emission at 37°C	Wh/h	19	25	35	42	71	104	42

¹⁾ Control range T: electronic controller from T_A +5 °C to 70 °C; control range UB: electronic controller from T_A +10 °C to 70 °C; T_A = Ambient Temperature
2) The values stated apply to the unloaded oven in conjunction with wire mesh trays (measurement according to DIN 12880, Part 2), air flap closed
3) Door open for 30s 4) Other voltages on request

Standard Models		6030	6060	6120	6200/6200R	6420	6760
Volume of work space L		30	57	107	196	409	751
Order No. B/UB		51015278	51015279	51015280	51015192/on request	51015281/51015294	51015282/51015295
Options							
Temperature controller ¹⁾							
Thermicon® P		51900206	51900207	51900207	51900207	51900208	51900208
Digicon® S with analog interface		51900051	51900052	51900052	51900052	51900053	51900053
Eurotherm 2404/P4 with RS 232 interfa	ce	51900297	51900297	51900297	51900297	51900297	51900297
Eurotherm 2404/P4 with RS 422/485 in	terface	51900298	51900298	51900298	51900298	51900298	51900298
Adjustable upper/lower temp. limit	controller	51900165	51900166	51900166	51900166	51900220	51900220
Temperature sensor ¹⁾ Pt 100 - conne	ction for exte	rnal temperature re	corder				
		51900222	51900215	51900215	51900215	51900230	51900230
Timers ¹⁾							
Daily program timer		51900231	51900234	51900234	51900234	51900159	51900159
Weekly program timer		51900007	51900008	51900008	51900008	51900007	51900007
Digital weekly program timer		51900161	51900162	51900162	51900162	51900161	51900161
Inner casing version with condition	nal gas-tight	tness					
with inert gas connection/throttle valve)	51900122	51900123	51900124	51900125	on request	on request
Door version							
Left-hinged door		50027652	50027652	50027652	50027652	_	_
Lockable door		51900060	51900060	51900060	51900060	51900060	51900060
Conn. for central monitoring		51900233	51900235	51900235	51900235	51900063	51900063
Accessories							
Access ports (Standard access port in t	he middle of	the appropriate inn	er casing wall)				
Top ²⁾ ø23mi	m (0.9inch)	_	50049348	50049348	50049348	_	-
Right-hand side wall ³⁾ ø18mr	m (0.7inch)	50049349	50049349	50049349	50049349	50049349	50049349
Left-hand side wall ø18mi	m (0.7inch)	50049350	-	_	_	50049350	50049350
Top ø58mi	m (2.3inch)	_	50049351	50049351	50049351	_	-
Right-hand side wall ³⁾ ø53mi	m (2.1inch)	50049352	50049352	50049352	50049352	50049352	50049352
Left-hand side wall ø53mi	m (2.1inch)	50049353	_	_	_	50049353	50049353
Power access ports with 10 measu	ring termina	ıls					
(Terminals located at the side)		50027659	50027659	50027659	50027659	50027659	50027659

¹⁰ Only one option out of this group possible 2) Access port displaced 100 mm (3.9 inch) away from the centre to the left 3) with B 6060 and B 6120 access port displaced 50 mm (2.0 inch) upwards from the centre

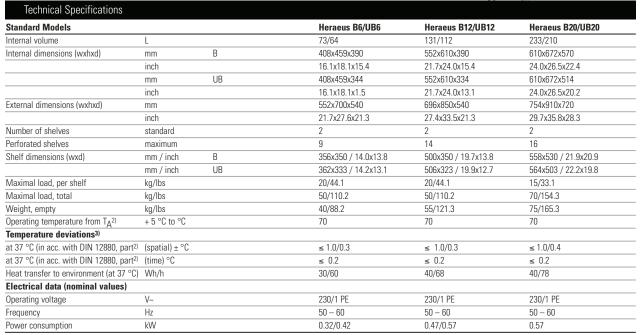


Thermo Scientific Heraeus Series 6000

Ordering Information						
Standard Models	6030	6060	6120	6200/6200R	6420	6760
Stainless steel perforated shelf						
with 2 shelf supports B	50029487	50029488	50029489	50029490	50029491	50029492
with 2 shelf supports UB	_	_	_	_	50044617	50044618
Stacking frame	_	50027660	50027661	50027661	_	_
Four height-adjustable feet	50010923	50010923	50010923	50010923	_	_
Fine fresh-air filter	50030850	50030850	50030850	50030850	50030850	50030850
Support frame						
780 mm (30.7 inch) high	_	50029890	50029596	50029597	_	_
300 mm (11.8 inch) high	_	50031349	50034303	50031348	_	_

¹⁾Only one option out of this group possible 2) Access port displaced 100 mm (3.9 inch) away from the centre to the left 3) with B 6060 and B 6120 access ports displaced 50 mm (2.0 inch) upwards from the centre

Thermo Scientific Heraeus Function Line



¹⁾ Plus 62 mm for door handle and 50 mm wall clearance. 2) T_A = Ambient temperature 3) The values indicated are typical values of series models.

Ordering Information					
Standard Models	Order no.	Standard Models			Order no.
Heraeus B6 Function Line, 230 V~, 50/60 Hz, 73 L	50042301	Heraeus UB6 Functio	n Line, 230 V~, 50/60 Hz, 64 L		50060896
Heraeus B12 Function Line, 230 V~, 50/60 Hz, 131 L	50042307	Heraeus UB12 Functi	on Line, 230 V~, 50/60 Hz, 112 L		50061000
Heraeus B20 Function Line, 230 V~, 50/60 Hz, 233 L	50042313	Heraeus UB20 Functi	on Line, 230 V~, 50/60 Hz, 210 L		50061005
Heraeus B6 Function Line, 120 V~, 50/60 Hz, 73 L	50042302	Additional shelf (perf	orated stainless steel, 2 shelf sup	oports) for UB6	50044611
Heraeus B12 Function Line, 120 V~, 50/60 Hz, 131 L	50042308	Additional shelf (perf	orated stainless steel, 2 shelf sup	oports) for UB12	50044612
Heraeus B20 Function Line, 120 V~, 50/60 Hz, 233 L	50042314	4 Additional shelf (perforated stainless steel, 2 shelf supports) for UB20 500446			50044613
Additional shelf (perforated stainless steel, 2 supports) for B6	50042919	Additional shelf (wire-mesh, 2 shelf supports) for UB6 50042918			50042916
Additional shelf (perforated stainless steel, 2 supports) for B12	50042920	Additional shelf (wire-mesh, 2 shelf supports) for UB12 500429		50042917	
Additional shelf (perforated stainless steel, 2 supports) for B20	50042921	Additional shelf(wire-mesh, 2 shelf supports) for UB20 5004291			50042918
Accessories					
Standard Models		B6/UB6	B12/UB12	B20/UB20	
Support frame 780 mm in height		50045045	50045046	50045047	
Support frame 300 mm in height		50045049	50045050	50045051	

Thermo Scientific Heraeus BK 6160



Technical Specification	S				
External dimensions (wxhxd)	mm / inch	744x920x725 / 29.3x36.2x28.5	Air circulation air circulation rate (fan option)	l/h	150
Internal dimensions (wxhxd)	mm / inch	607x470x585 / 23.9x18.5x23.0	Voltage ¹⁾ , frequency V~;	Hz	230; 50
Total volume	L	166	Rated power	kw	1.0
Shelves	no.	2 (max. 7)	Power consumption	kWh/h	0.5
Dimensions (wxd)	mm / inch	560x500 / 22x19.7	Access port diameter	mm / inch	19 / 0.7
Distance, minimum	mm / inch	40 / 1.6	Refrigerant		
Weight excluding lighting	kg / lbs	100 / 222.5	Type/capacity	-/g	R134a/220
Weight including lighting	kg / lbs	120 / 264.6	Lighting ²⁾		
Temperature range	°C	0 - 50	intensity	lux	4000
Temperature deviation, temporal	°C	± 0.1	Lamps	no.	4
Temperature deviation, spatial	°C	± 0.8	Colour rendering		Daylight in acc. with DIN 5035
Relative humidity at T = 5 °C	%	> 75	Output	W	70
at T = 37 °C	%	> 90	Other voltages on request ²⁾ Supplementary equipment		

Ordering Information		
Туре	Features	Order no.
Heraeus BK 6160 Kelvitron® K	Microprocessor controller	51007617
Heraeus BK 6160 Kelvitron® KP	Microprocessor controller for	
	programming of temperature	
	profiles	51008404
Heraeus BK 6160 Kelvitron® KL	Microprocessor controller	
	for day/night simulation	51008667
Options		
Internal fan for air circulation		51900146
RS 232 interface incl. Kelvilog®	documentation software	51900283

Options	Order no.
Connection for central monitoring	51900083
Temperature limit controller class 3.3 (DIN 12880)	
for over/undertemperature protection	51900084
Accessories	
Manufacturer's calibration certificate	50044444
Access port	50029825
Pt 100 sensor for temperature recording (requires access port)	50034314
Additional stainless steel shelf	50029945

Thermo Scientific Heraeus BK 700



fan in ceiling of work chamber 1 - 9999 (= 1 min. - 7 days)

		Dimensions		
°C	3 – 40	External dimensions (w/h/d)	mm	540/1295/560
°C	± 1		inch	21.3/51.0/22.0
°C	± 1	Electrical Data		
min	48	Rated power	W	230
L	ca. 190	Rated voltage, frequency (-50Hz)	V	230V
	3, max 14	Weight	Kg/lbs	46/101.4
		Air circulation		fan in ceiling of v
mm	480/410	Sockets in the work chamber		2
inch	18.9/16.1	Time control (on/off)	min.	1 – 9999 (= 1 min
mm	440/995/435	Cooling medium		R 600 a, 23 g
inch	17.3/39.2/17.1			
	°C °C min L	°C ±1 °C ±1 min 48 L ca. 190 3, max 14 mm 480/410 inch 18.9/16.1 mm 440/995/435	°C 3 – 40 External dimensions (w/h/d) °C ± 1 Electrical Data min 48 Rated power L ca. 190 Rated voltage, frequency (-50Hz) Weight Air circulation mm 480/410 Sockets in the work chamber inch 18.9/16.1 Time control (on/off) mm 440/995/435 Cooling medium	°C 3 – 40 External dimensions (w/h/d) mm °C ± 1 inch °C ± 1 Electrical Data min 48 Rated power W L ca. 190 Rated voltage, frequency (-50Hz) V Weight Kg/lbs Air circulation Sockets in the work chamber inch 18.9/16.1 Time control (on/off) min. Cooling medium Cooling medium

Ordering Information	
Models	Order No.
Heraeus BK 700, 230 V, 50Hz	50078056

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North America: +1 866 984 3766

Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, Finland +358 9 329 100, France +33 2 28 03 20 00, Germany: national toll free 08001-536 376, international +49 6184 90 6940, Italy +39 02 95059 1, Netherlands +31 76 571 4440, Russia/CIS +7 095 225 11 15, Spain/Portugal +34 93 223 3154, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203 Asia: India +91 22 5542 9494, Japan +81 45 453 9220, China +86 21 6865 4588 or +86 10 5850 3588,

Other Asian countries +852 2885 4613

Countries not listed: +49 6184 90 6940 or +33 2 28 03 20 00

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