Thermo Scientific Heraeus® microbiological incubators

An optimal environment for your samples

Thermo SCIENTIFIC

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.

Series 6000

Six models with interior volumes from 30 to 750 litres suitable for countless applications up to 70 °C.
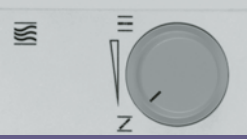
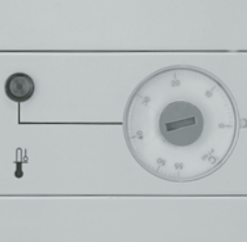|	Standard	Optional
Process control		
	Throttle valve for smooth adjustment of air changes inside the incubator	
Temperature documentation		
		Connection facility for an external temperature recorder for measuring with Pt 100 temperature sensor, connection via DIN 41524 plug. Sensor permanently installed.
Temperature controller		
	Kelvitron® Microprocessor temperature controller. Accurate display of the set point or actual reading PD/PID control response for rapid heating, minimum overshoot and low control deviation	**Programmable controller** • Thermicon® P • Eurotherm 2404/P4 **Controller with analog interface** • Digicon® S Detailed information on request
	RS 232 interface	
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 (20h at 60 Hz) for switching on and off • Pre-heating for the next day • Timed shutdown of heating without manual intervention	**Daily, weekly or 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. User-friendly, 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 forced-air circulation for superior temperature homogeneity and fastest recovery times.

Function Line

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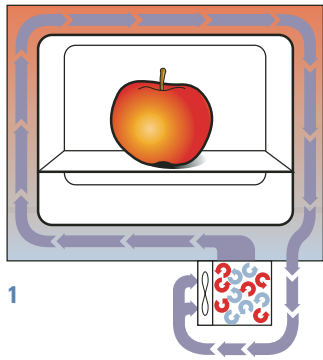
Unlike conventional incubators, which operate on the refrigerator principle, the coldest part of the Heraeus BK 6160 (the evaporator) is located externally to prevent dehumidification. With a water pan inside, a relative humidity of up to 90% can be maintained.

BK 6160
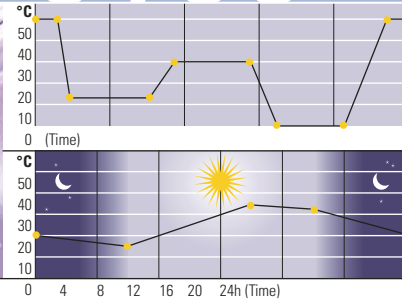
◄ **Kelvitron KP temperature profile**

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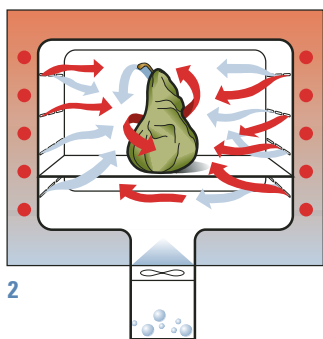
Figure 1 – Heraeus BK 6160: The thermal jacket system prevents sample dehydration
Figure 2 – During conventional refrigeration, moisture is removed from the sample

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 easy-to-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.

BK 700

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 B 15 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.

B 15

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[2] (K)		< ± 0.2
Spatial temperature deviation[2] [3] (K)		< ± 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

Type	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

Technical Specifications

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
Int. 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 range[1]	°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

Ordering Information

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 interface	51900297	51900297	51900297	51900297	51900297	51900297
Eurotherm 2404/P4 with RS 422/485 interface	51900298	51900298	51900298	51900298	51900298	51900298
Adjustable upper/lower temp. limit controller	51900165	51900166	51900166	51900166	51900220	51900220
Temperature sensor[1] Pt 100 – connection for external temperature recorder						
	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 conditional gas-tightness						
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 the middle of the appropriate inner casing wall)						
Top[2] ø23mm (0.9inch)	–	50049348	50049348	50049348	–	–
Right-hand side wall[3] ø18mm (0.7inch)	50049349	50049349	50049349	50049349	50049349	50049349
Left-hand side wall ø18mm (0.7inch)	50049350	–	–	–	50049350	50049350
Top ø58mm (2.3inch)	–	50049351	50049351	50049351	–	–
Right-hand side wall[3] ø53mm (2.1inch)	50049352	50049352	50049352	50049352	50049352	50049352
Left-hand side wall ø53mm (2.1inch)	50049353	–	–	–	50049353	50049353
Power access ports with 10 measuring terminals						
(Terminals located at the side)	50027659	50027659	50027659	50027659	50027659	50027659

[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 (2.0inch) 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 (2.0inch) upwards from the centre

Thermo Scientific Heraeus Function Line

Technical Specifications					
Standard Models			**Heraeus B6/UB6**	**Heraeus B12/UB12**	**Heraeus B20/UB20**
Internal volume	L		73/64	131/112	233/210
Internal dimensions (wxhxd)	mm	B	408x459x390	552x610x390	610x672x570
	inch		16.1x18.1x15.4	21.7x24.0x15.4	24.0x26.5x22.4
	mm	UB	408x459x344	552x610x334	610x672x514
	inch		16.1x18.1x1.5	21.7x24.0x13.1	24.0x26.5x20.2
External dimensions (wxhxd)	mm		552x700x540	696x850x540	754x910x720
	inch		21.7x27.6x21.3	27.4x33.5x21.3	29.7x35.8x28.3
Number of shelves	standard		2	2	2
Perforated shelves	maximum		9	14	16
Shelf dimensions (wxd)	mm / inch	B	356x350 / 14.0x13.8	500x350 / 19.7x13.8	558x530 / 21.9x20.9
	mm / inch	UB	362x333 / 14.2x13.1	506x323 / 19.9x12.7	564x503 / 22.2x19.8
Maximal load, per shelf	kg/lbs		20/44.1	20/44.1	15/33.1
Maximal load, total	kg/lbs		50/110.2	50/110.2	70/154.3
Weight, empty	kg/lbs		40/88.2	55/121.3	75/165.3
Operating temperature from T_A[2]	+ 5 °C to °C		70	70	70
Temperature deviations[3]					
at 37 °C (in acc. with DIN 12880, part[2]	(spatial) ± °C		≤ 1.0/0.3	≤ 1.0/0.3	≤ 1.0/0.4
at 37 °C (in acc. with DIN 12880, part[2]	(time) °C		≤ 0.2	≤ 0.2	≤ 0.2
Heat transfer to environment (at 37 °C)	Wh/h		30/60	40/68	40/78
Electrical data (nominal values)					
Operating voltage	V~		230/1 PE	230/1 PE	230/1 PE
Frequency	Hz		50 – 60	50 – 60	50 – 60
Power consumption	kW		0.32/0.42	0.47/0.57	0.57

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 Function Line, 230 V~, 50/60 Hz, 64 L	50060896
Heraeus B12 Function Line, 230 V~, 50/60 Hz, 131 L	50042307	Heraeus UB12 Function Line, 230 V~, 50/60 Hz, 112 L	50061000
Heraeus B20 Function Line, 230 V~, 50/60 Hz, 233 L	50042313	Heraeus UB20 Function Line, 230 V~, 50/60 Hz, 210 L	50061005
Heraeus B6 Function Line, 120 V~, 50/60 Hz, 73 L	50042302	Additional shelf (perforated stainless steel, 2 shelf supports) for UB6	50044611
Heraeus B12 Function Line, 120 V~, 50/60 Hz, 131 L	50042308	Additional shelf (perforated stainless steel, 2 shelf supports) for UB12	50044612
Heraeus B20 Function Line, 120 V~, 50/60 Hz, 233 L	50042314	Additional shelf (perforated stainless steel, 2 shelf supports) for UB20	50044613
Additional shelf (perforated stainless steel, 2 supports) for B6	50042919	Additional shelf (wire-mesh, 2 shelf supports) for UB6	50042916
Additional shelf (perforated stainless steel, 2 supports) for B12	50042920	Additional shelf (wire-mesh, 2 shelf supports) for UB12	50042917
Additional shelf (perforated stainless steel, 2 supports) for B20	50042921	Additional shelf(wire-mesh, 2 shelf supports) for UB20	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 Specifications

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			

[1] Other voltages on request   [2] Supplementary equipment

Ordering Information

Type	Features	Order no.	Options	Order no.
Heraeus BK 6160 Kelvitron® K	Microprocessor controller	51007617	Connection for central monitoring	51900083
Heraeus BK 6160 Kelvitron® KP	Microprocessor controller for		Temperature limit controller class 3.3 (DIN 12880)	
	programming of temperature		for over/undertemperature protection	51900084
	profiles	51008404	**Accessories**	
Heraeus BK 6160 Kelvitron® KL	Microprocessor controller		Manufacturer's calibration certificate	50044444
	for day/night simulation	51008667	Access port	50029825
Options			Pt 100 sensor for temperature recording (requires access port)	50034314
Internal fan for air circulation		51900146	Additional stainless steel shelf	50029945
RS 232 interface incl. Kelvilog® documentation software		51900283		

Thermo Scientific Heraeus BK 700

Technical Specifications

Temperature			**Dimensions**		
Temperature range	°C	3 – 40	External dimensions (w/h/d)	mm	540/1295/560
Temperature variations (space)	°C	± 1		inch	21.3/51.0/22.0
Temperature fluctuations (time)	°C	± 1	**Electrical Data**		
Cooling time (25 to 5 °C)	min	48	Rated power	W	230
Volume	L	ca. 190	Rated voltage, frequency (-50Hz)	V	230V
Number of shelves		3, max 14	Weight	Kg/lbs	46/101.4
Dimensions			Air circulation		fan in ceiling of work chamber
Dimensions of shelves (w/d)	mm	480/410	Sockets in the work chamber		2
	inch	18.9/16.1	Time control (on/off)	min.	1 – 9999 (= 1 min. – 7 days)
Internal dimensions (w/h/d)	mm	440/995/435	Cooling medium		R 600 a, 23 g
	inch	17.3/39.2/17.1			

Ordering Information

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

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