Heraeus

HOT AIR STERILIZERS

Kendro®
Quality Products – Lifetime Care

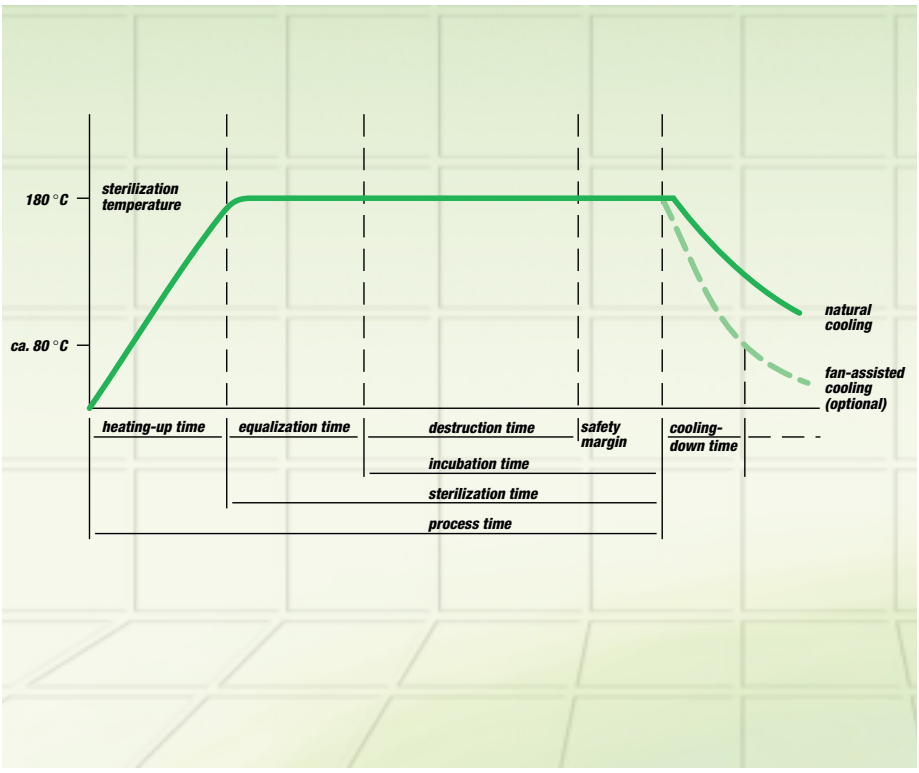
Heraeus® Hot Air Sterilizers from Kendro Laboratory Products offer safety and reliability in their areas of application: sterilization, disinfection, pasteurization, conservation as well as in quality assurance.

The basic and additional features of these sterilizers cover a broad spectrum of user requirements. The Function Line Series 7000 sterilizers offer countless useful functions.

Fields of application
- Biology
- Chemistry
- Medicine
- Hygiene
- Pharmacy
- Quality assurance

THE STERILIZATION PROCESS

- **Process time:** time required to sterilize a sterilization load not including the time required for loading and unloading.
- **Sterilization temperature:** temperature which must prevail in all parts of the material to be sterilized during the incubation time.
- **Heating-up time:** time between switching on the sterilizer and indication of the sterilization temperature.
- **Equalization time:** time between reaching operating temperature inside the chamber and reaching the sterilizing temperature in all parts of the material load to be sterilized.
- **Destruction time:** time required to kill a population of microorganisms of a particular resistance.
- **Safety margin:** allowance for varied amounts of contamination and the equalization time of the material load to be sterilized.
- **Incubation time:** time during which the parameters relevant for sterilization should be maintained in all parts of the material load being sterilized.
- **Sterilization time:** time during which the operating temperature is maintained in the chamber. It equals the sum of the equalization time, destruction time and safety margin.
- **Cooling-down time:** time between switch-off of heating at the end of the sterilization time and reduction of temperature to 80 °C on the display.



SERIES ST/SUT 6000 HOT AIR STERILIZERS

Six models suitable for all applications up to 300°C.
①6030, ②6060, ③6120, ④6200, ⑤6420, ⑥6760

STANDARD FEATURES

- Microprocessor temperature controller with digital display
- Safety Class 2 adjustable upper temperature limit cut-out
- 24 hour timer
- RS 232 interface for documentation
- Smoothly adjustable valve for fresh and exhaust air regulation
- Two tilt-proof, chromium-plated, wire-mesh shelves
(model 6030: one shelf only)
- Forced air circulation sterilizers with fan and speed controller for infinitely variable circulation
- Easily exchangeable seal made of tempered silicone
- Floor models 6420 and 6760 have casters with locking brake

SERIES ST/SUT 6000 – NOW WITH MANY EXTRAS AS STANDARD

The high quality and reliable performance of the Series ST/SUT 6000 sterilizers are well-suited for a variety of applications in biological, chemical, pharmaceutical and medical laboratories. The sterilizers are available with natural convection (Series ST 6000, six different models) or hot air circulation (Series SUT 6000, five different models).

- **Safe and reliable**
- **Up to 300 °C**
- **30 to 760 liter interior volume**

User-oriented design
The outer casing consists of coated galvanized-steel. The chambers and internal fittings as well as the heating elements are manufactured of corrosion-resistant stainless steel.

The SUT series was developed for sterilizing processes requiring more stringent specifications for temperature distribution and quick heating-up times. These sterilizers are particularly suitable for the sterilization of materials containing moisture, by providing high air-circulation rates. The chambers of both series along with the removable internal fittings are easy-to-clean.

Precise temperature control
The Kelvitron® temperature controller provides rapid heating-up times and low variations in temperature. The temperature range of the sterilizers goes up to 300 °C.

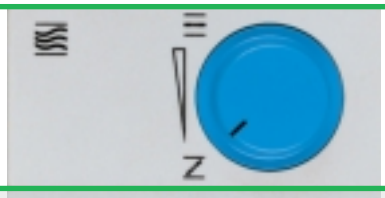
Options and accessories
The ST/SUT sterilizers can be supplied with many additional options and accessories as described on Pages 4 to 6.

For your safety
All the Series ST/SUT 6000 sterilizers are approved for unsupervised operation, thanks to the Safety Class 2 adjustable upper temperature limit cut-out that comes standard. All sterilizer versions are GS tested.

For other voltages, see tables in Technical Data

SERIES ST/SUT 6000 STANDARD CONTROL PANEL

Throttle valve
for smoothly adjustable fresh and exhaust air regulation



PROCESS CONTROL

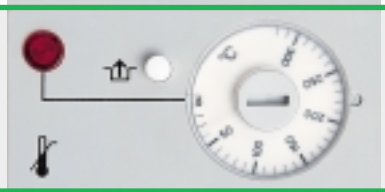
TEMPERATURE DOCUMENTATION

Kelvitron®
- Microprocessor temperature controller
- Accurate digital display of the set temperature or actual reading
- PD/PID control response for rapid heating-up, minimum overshoot and minor control deviation
- Simple to operate

TEMPERATURE CONTROLLER

Adjustable upper temperature limit cut-out
Safety Class 2; switches off the equipment at pre-set temperature limit independently of the temperature controller.

- Protection for user, sample, environment, and sterilizer



UPPER TEMP. LIMIT PROTECTION

24 hour timer
for switching the sterilizer on or off.
24 hour timer (20 h at 60 Hz)
- Pre-heating the chamber for the next day
- Timed shutdown of heating and ventilation without manual intervention

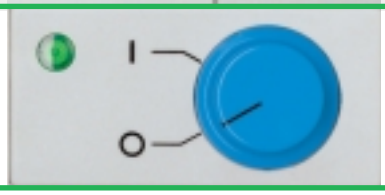
TIMED OPERATION

Speed setting for air circulation fan
(for SUT-models only)
- Speed continuously variable (20 % to 100 %)

- Air circulation fan can be turned off (not on SUT 6420 and SUT 6760)
- Air velocity in the chamber can be adjusted to requirements, e.g. sterilization of powders

AIR CIRCULATION MODE

Power on/off switch
Sterilizer switched on by turning the knob



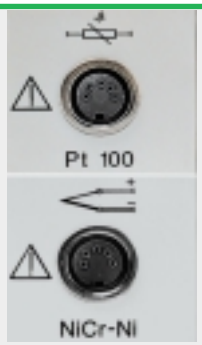
SERIES ST/SUT 6000 CONTROL PANEL OPTIONS

to replace or upgrade standard features

Recording of load temperature with display

■ Temperature measurement directly at the load.

● Digital display
● Connection for external temperature recorder
● Temperature sensor required (see Accessories)



Connection facility for an external temperature recorder

Pt 100 or NiCr-Ni sensor with plug connection to external temperature recorder.

● Documentation of sterilizer temperature
● Sensor permanently installed

Daily programme timer

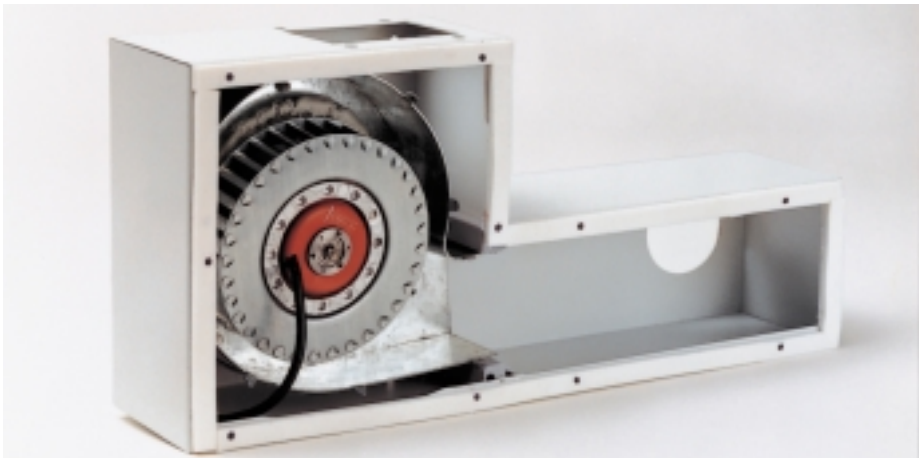
for automatic repetition of an on-off cycle over a period of one day

● 90 hours power back-up in the event of a power failure

Speed setting for optional fresh air blower

● Fresh air fan can be turned off

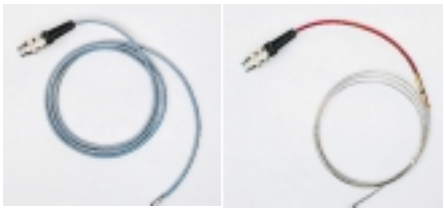
ST/SUT OPTIONS



Fresh air fan
This additional fan is connected to the fresh air nozzle and electrically connected to the rear panel of the sterilizer.

Advantages of the fresh air fan
- The increased rate of air exchange accelerates drying processes.
- With the heating switched off, the cooling rate of the load increases.
- With a fine filter, a slight over-pressure is created thereby preventing dust particles from entering the chamber.

Pt 100 temperature sensors



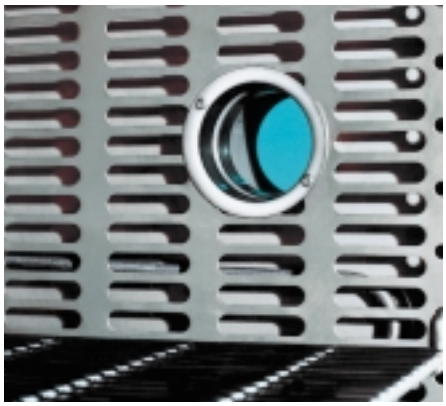
Load temperature measurement

flexible	**bendable**
● up to 220 °C	● up to 300 °C
	● metallic

Applicable to both sensors.
- Pt 100 in 4-wire system.
- Introduction through door seal or access port.
- Flexible positioning possible inside the chamber.

Door safety lock
Prevents unauthorized opening of the door during and after sterilization (two keys supplied). Left-hinged door available as an option for models 6030–6200.

Floating contact
Connection of the sterilizer to a central monitor, max. 250 V/3 A.
- Signals for external monitor when upper temperature limit cut-out is activated.
- Central monitoring of several hot-air sterilizers possible.
- Allows supervisory staff to react immediately.



Access ports
With internal diameters of 18 and 53 mm (0.7 and 2.1 inch) respectively, to allow the insertion of devices as well as for probes etc.

ST/SUT 6000 ACCESSORIES

Stacking frame
To hide the front feet of stacked units and to provide stability.

Height-adjustable feet
To compensate for uneven installation surfaces.
- Prevents sterilizers from rocking.
- 100 % horizontal installation possible.

Fresh-air fine filter
Incoming fresh air can be efficiently cleaned using a fine fresh-air filter, class EU 12 according to DIN 24183 (filter class H12 according to EN 1822). Separation efficiency is 99.98 % based on a 0.3 µm particle size.

ST/SUT 6000 – ORDER NUMBERS

Sterilizers	ST 6030	ST 6060	ST 6120	ST 6200	ST 6420	ST 6760	SUT 6060	SUT 6120	SUT 6200	SUT 6420	SUT 6760
Volume (l)	30	57	107	196	409	751	52	94	180	375	689
Trays	1	2	2	2	2	2	2	2	2	2	2
Order No.	51015300	51015301	51015302	51015303	51015304	51015305	51015306	51015307	51015308	51015309	51015310

ST/SUT 6000 – ORDER NUMBERS FOR OPTIONS

Option	Sterilizers	ST 6030	ST/SUT 6060	ST/SUT 6120	ST/SUT 6200	ST/SUT 6420	ST/SUT 6760
6 h timer, disconnecting		51900026	51900027	51900027	51900027	51900026	51900026
Pt 100 connection for temperature documentation		51900009	51900010	51900010	51900010	51900009	51900009
Digital sample temperature display		51900054	51900054	51900054	51900054	51900054	51900054
Daily programmable timer		51900159	51900160	51900160	51900160	51900159	51900159
Connection for central monitoring		51900063	51900064	51900064	51900064	51900063	51900063

Option	Sterilizers	SUT 6060	SUT 6120	SUT 6200	SUT 6420	SUT 6760
Fresh air fan with speed adjuster		51900285	51900285	51900285	51900285	51900285

Option	Sterilizers	ST 6030	ST/SUT 6060	ST/SUT 6120	ST/SUT 6200	ST/SUT 6420	ST/SUT 6760
Left-hinged door		50027652	50027652	50027652	50027652	–	–
Lockable door		51900059	51900059	51900059	51900059	51900059	51900059
Access ports in the centre of the corresponding interior wall; other positions on request.							
Ceiling[1]: ø 23 mm (0.9 inch)		–	50049348	50049348	50049348	–	–
Right-hand side wall[2]: ø 18 mm (0.7 inch)		50049349	50049349	50049349	50049349	50049349	50049349
Left-hand side wall: ø 18 mm (0.7 inch)		50049350	–	–	–	50049350	50049350
Ceiling[1]: ø 58 mm (2.3 inch)		–	50049351	50049351	50049351	–	–
Right-hand side wall[2]: ø 53 mm (2.1 inch)		50049352	50049352	50049352	50049352	50049352	50049352
Left-hand side wall: ø 53 mm (2.1 inch)		50049353	–	–	–	50049353	50049353

[1] *The access ports in the ceiling are shifted by 100 mm (3.9 inch) from the middle to the left*

[2] *With T/UT 6060 and 6120, displaced by 50 mm (2.0 inch) upwards from the middle*

Factory calibration certificate	Calibration certificate 150 °C[3] centre of interior	50057685
	Calibration at additional temperature (max. 2)	50057686
	Certificate according to DIN 12880 (27 meas. pts. at 150 °C)	50044952
	Certificate at additional temperature according to DIN 12880	50057687

[3] *Please state different temperatures than 150 °C (e.g. 180 °C)*

ST/SUT 6000 – ORDER NUMBERS FOR ACCESSORIES

Accessory	Sterilizers	ST 6030	ST/SUT 6060	ST/SUT 6120	ST/SUT 6200	ST/SUT 6420	ST/SUT 6760
Support frame (780 mm; 30.7 inch)		–	50029890	50029596	50029597	–	–
Support frame (300 mm; 11.8 inch)		–	50031349	50034303	50031348	–	–
Stacking frame		–	50027660	50027661	50027661	–	–
Four height-adjustable feet		50010923	50010923	50010923	50010923	–	–
Temperature sensors							
Pt 100 (flexible) for load temp. measurement up to 220 °C		50034313	50034313	50034313	50034313	50034314	50034314
Pt 100 (bendable) for load temp. measurement up to 300 °C		50034315	50034315	50034315	50034315	50034316	50034316
Fresh air fine filter for connection to fresh air nozzle		50030850	50030850	50030850	50030850	50030850	50030850
Fresh air filter for fresh air fan		50027662	50027662	50027662	50027662	50027662	50027662
KelviLog documentation software							
Temperature documentation of a sterilizer via RS 232		50047372	50047372	50047372	50047372	50047372	50047372
Connection set for PCs							
Interface cable, 3 m (10 ft), adaptor plug 9 to 25 poles		50048122	50048122	50048122	50048122	50048122	50048122
Exhaust air duct: Flexible air pipe, 3 m (10 ft) long, 40 mm (1.6 inch) diameter		50048760	50048760	50048760	50048760	50048760	50048760

Shelves	Sterilizers	ST 6030	ST 6060	ST 6120	ST 6200	ST 6420	ST 6760
Wire-mesh shelves, chromium-plated, 2 shelf supports		50029401	50029402	50029403	50029404	50029405	50029406
Perforated stainless steel shelves, 2 shelf supports		50029487	50029488	50029489	50029490	50029491	50029492

	Sterilizers	SUT 6060	SUT 6120	SUT 6200	SUT 6420	SUT 6760
Wire-mesh shelves, chromium-plated, 2 shelf supports		50029413	50029414	50029415	50029416	50029417
Perforated stainless steel shelves, 2 shelf supports		50044614	50044615	50044616	50044617	50044618

ST 6000 – TECHNICAL DATA

Sterilizer		ST 6030	ST 6060	ST 6120	ST 6200	ST 6420	ST 6760
Temperature range (T_A)[1] + 5 °C to	°C	300	300	300	300	300	300
Weight	kg	40	50	65	92	153	223
Rated power load	kW	0.8	1.6	2.2	2.7	4.1	6.1
Rated voltage (50/60 Hz) 1N/PE	V	230/120[2]	230/120[2]	230	230	–	–
3N/PE	V	–	–	–	–	400	400
3 /PE	V	–	–	–	–	230	230
Spatial temperature deviation at 180 °C[3]	°C	3	4	4	4	4	5
Heating-up time to 180 °C[4]	°C	40	30	30	40	45	55
Number of shelves as standard	no.	1 (max. 4)	2 (max. 9)	2 (max. 14)	2 (max. 18)	2 (max. 39)	2 (max. 39)
Electrical output Heat emission to the environment Forced air circulation at 180 °C	Wh/h	180	250	350	450	720	1080
Temperature deviations, over time	±°C	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5

SUT 6000 – TECHNICAL DATA

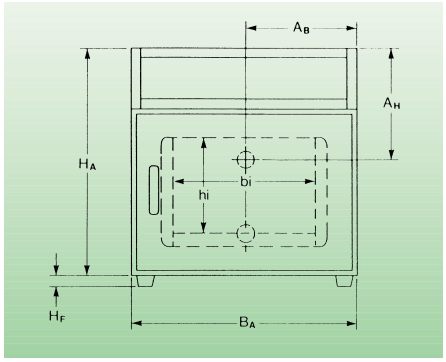
Sterilizer		SUT 6060	SUT 6120	SUT 6200	SUT 6420	SUT 6760
Temperature range T_A[1] + 20 °C to	°C	300	300	300	300	300
Weight	kg	53	75	100	163	241
Rated power	kW	1.7	2.4	2.8	4.2	6.3
Rated voltage (50/60 Hz) 1N/PE	V	230/120[1]	230	230	–	–
3N/PE	V	–	–	–	400	400
3 /PE	V	–	–	–	230	230
Spatial temperature deviation at 180 °C[3]	°C	4	4	4	4	4
Heating-up time to 180 °C[4]	°C	30	30	35	45	45
Number of shelves as standard	no.	2 (max. 9)	2 (max. 14)	2 (max. 18)	2 (max. 39)	2 (max. 39)
Rated output Heat emission to the environment Forced air circulation at 180 °C	Wh/h	480	640	790	1300	1500
Temperature deviations (temporal)	±°C	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5

[1] T_A = Ambient temperature
[2] Other voltages on request
[3] Measurement according to DIN 12880, Part 2
[4] The values indicated apply to the empty sterilizer (measurement according to DIN 12880, Part 2)

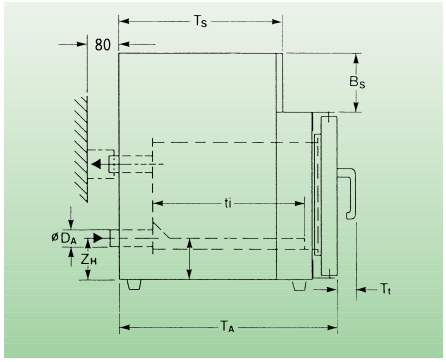
ST/SUT 6000 DIMENSIONS

Sterilizer			ST 6030	ST/SUT 6060	ST/SUT 6120	ST/SUT 6200	ST/SUT 6420	ST/SUT 6760
External dimensions ($W_A/H_A/D_A$)		mm	552/552/535	744/552/535	895/696/535	895/816/715	744/1707/715	1200/1707/715
		inch	21.7/21.7/21.1	29.3/21.7/21.1	35.2/27.4/21.1	35.2/32.1/28.1	29.3/67.2/28.1	47.2/67.2/28.1
Dimensions								
Foot height (casters)	H_f	mm/inch	24/0.9	24//0.9	24/0.9	24/0.9	(106/4.2)	(106/4.2)
Depth door handle	T_t		50/2.0	50/2.0	50/2.0	50/2.0	50/2.0	50/2.0
Width switch box	B_S		149/5.9	149/5.9	149/5.9	149/5.9	169/6.7	169/6.7
Depth switch box	T_S		400/15.7	400/15.7	400/15.7	580/22.8	580/22.8	580/22.8
Wall clearance	T_w		80/3.1	80/3.1	80/3.1	80/3.1	80/3.1	80/3.1
	A_B		276/10.9	302/11.9	377/14.8	377/14.8	372/14.6	600/23.6
	A_H		237/9.3	124/4.9	124/4.9	134/5.3	371/14.6	371/14.6
	Z_H		100/3.9	100/3.9	100/3.9	109/4.3	109/4.3	109/4.3
External diameter:								
Air inlet pipe/air outlet pipe	D_A		40/1.6	40/1.6	40/1.6	40/1.6	40/1.6	40/1.6
Inner dimensions:								
Interior dimensions	t_i	mm	370	370/339	370/323	550/503	550/522	550/522
		inch	14.6	14.6/13.3	14.6/12.7	21.6/19.8	21.6/20.5	21.6/20.5
	b_i	mm/inch	352/13.9	403/15.9	554/21.8	554/21.8	544/21.4	1000/39.4
	h_i	mm	231	380	524	644	1366/1319	1366/1319
		inch	9.1	15.0	20.6	25.4	53.8/51.9	53.8/51.9
Interior volume	v_l	l	30	57/52	107/94	196/180	409/375	751/689
Weights								
Total permissible load		kg	50	50	50	75	75	150
Shelf point load		kg	15	15	15	20	20	20
Shelf extensive load		kg	20	20	20	40	40	40

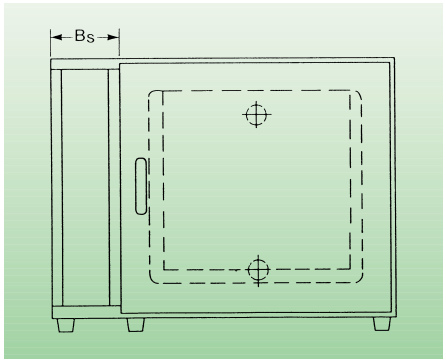
DIMENSIONAL DRAWINGS



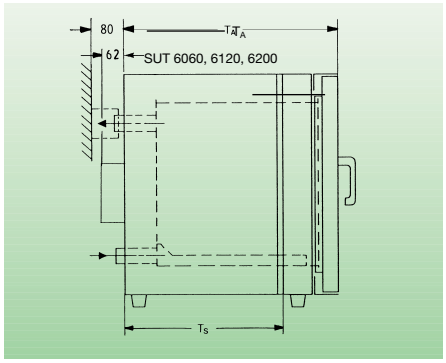
Front view
Models 6030, 6420, 6760



Side view



Front view
Models 6060, 6120, 6200



Side view

FUNCTION LINE HOT AIR STERILIZERS

The Heraeus® Function Line Hot Air Sterilizers have been designed to provide the essentials at a competitive price. They ensure the best operational results and the highest proven level of effectiveness during the daily laboratory routine.

Space-saving – three sizes
The Series 7000 sterilizers using natural convection and hot air circulation are available in three sizes with internal volumes of 60, 120 and 200 liters. These slim instruments occupy only a small amount of space while providing the greatest possible useful volume.

Automatic sterilization
The sterilizers are provided with an automatic sterilization routine to allow the sterilization process to be carried out without supervision or manual intervention. All steps in the program, from the heating-up and equalization time to the incubation and cooling-down time, run automatically. The user simply selects fixed program steps to set up the sterilization procedure.

The microprocessor-controlled temperature controller safeguards the fully automatic sequence of the sterilization process. The large digital display provides a quick overview.

Safety for all applications
The standard adjustable upper limit cut-out ensures safe working procedures for:
- Hot air sterilization
- Destruction of microorganisms
- Contamination prevention
- Thermally limited sterilization of liquids

All models are GS tested.

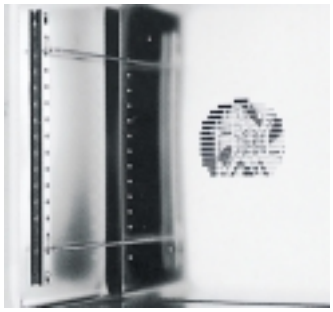
FEATURES

Sterilizer with natural convection
- Microprocessor-controlled temperature controller with digital display and integrated timer function up to 99 hours 59 min., standby function and preselected program components
- Safety Class 2 adjustable upper temperature limit cut-out
- 2 chromium plated wire-mesh shelves

Sterilizer with hot air circulation
- Microprocessor-controlled temperature controller with digital display and integrated timer function up to 99 hours 59 min., standby function and preselected program components
- Safety Class 2 adjustable upper temperature limit cut-out
- 2 chromium plated wire-mesh shelves
- Convection by hot air circulation
- Throttle valve for fresh and exhaust air control

User-friendly controller with clearly laid out and easy-to-clean control panel.

Excellent insulation ensures low surface temperature and optimum internal temperature distribution.



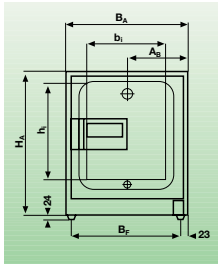
The forced air circulation blower operates reliably and precisely. The shelf supports and the carrier racks are easy to remove and clean.

FUNCTION LINE – TECHNICAL DATA

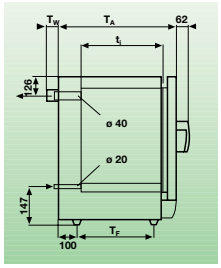
Sterilizers			T6	T12	T20	UT6	UT12	UT20
Outer dimensions	T_A	mm/inch	540/21.3	540/21.3	720/28.3	540/21.3	540/21.3	720/28.3
	B_A		552/21.7	696/27.4	754/29.3	552/21.7	696/27.4	754/29.3
	H_A		663/26.1	814/32.0	876/34.5	663/26.1	814/32.0	876/34.5
Wall clearance	T_W		80/3.1	80/3.1	80/3.1	80/3.1	80/3.1	80/3.1
Base distance, width	B_F		506/19.9	650/25.6	708/27.9	506/19.9	650/25.6	708/27.9
Base distance, depth	T_F		340/13.4	340/13.4	520/20.5	340/13.4	340/13.4	520/20.5
Exhaust air connection, side clearance	A_B		276/10.9	348/13.7	377/14.8	184/7.2	184/7.2	184/7.2
Internal dimensions	t_i	mm/inch	370/14.6	370/14.6	550/21.7	330/13.0	320/12.6	500/19.7
	b_i		352/13.9	496/19.5	554/21.8	378/14.9	522/20.6	580/22.8
	h_i		424/16.7	575/22.6	637/25.1	459/18.1	610/24.0	672/26.5
Volume		l	57	110	199	64	112	210
Shelves (wire mesh shelves)	Standard	Qty.	2	2	2	2	2	2
	Maximum	Qty.	10	15	17	9	14	16
Wire-mesh shelf dimensions (W/D)		mm/	336/365	480/365	538/545	362/333	506/323	564/503
		inch	13.2/14.4	18.9/14.4	21.2/21.2	14.3/13.1	19.9/12.7	22.2/19.8
Maximum load	per tray	kg	20	20	15	20	20	15
	Total	kg	50	50	70	50	50	70
Weight (empty instrument)		kg	40	55	75	40	55	75
Operating temperature from T_A [1] +10 °C to		°C	250	250	250	250	250	250
Heating-up time to specified temperature		min	63	60	55	42	30	40
Heat emission to the environment (at 250 °C)		Wh/h	500	700	1000	700	850	1100
Air exchange rate		per hour	8	10	5	50	40	20
Electrical data (rated values)								
Rated voltage (1N/PE)		V	230 / 120	230 / 208	230 / 208	230 / 120	230 / 208	230 / 208
Frequency		Hz	50 – 60	50 – 60	50 – 60	50 – 60	50 – 60	50 – 60
Power input		kW	1.22	1.82	2.22	1.27	2.32	2.32

[1] T_A = *Ambient temperature*

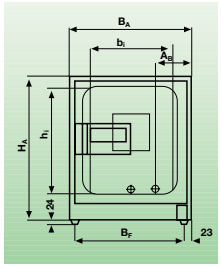
DIMENSIONAL DRAWINGS



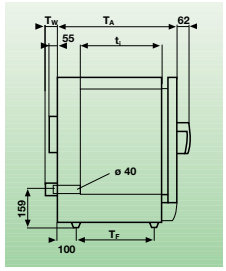
Front view
Models T6, T12, T20



Side view



Front view
Models UT6, UT12, UT20



Side view

ORDER NUMBERS – FUNCTION LINE

Sterilizer	T6	T6	T12	T12	T20	T20
Voltage	230 V	120 V	230 V	208 V	230 V	208 V
Order No.	50042293	50042295	50042303	50043406	50042309	50043408
	UT6	**UT6**	**UT12**	**UT12**	**UT20**	**UT20**
Voltage	230 V	120 V	230 V	208 V	230 V	208 V
Order No.	50042297	50042299	50042305	50043410	50042311	50043412

Additional accessories
- Support frames
- KelviLog documentation software
- Connection kit for PCs
- Exhaust air duct

and options such as access ports and factory calibration certificate can be supplied on request.

Accessories		
Type	**Suitable for sterilizer**	**Order No.**
Stacking frame	T6, UT6	50042906
Stacking frame	T12, UT12	50042907
Stacking frame	T20, UT20	50042908
Shelf set: chromium plated wire-mesh shelf, 2 shelf supports	T6	50042913
Shelf set: chromium plated wire-mesh shelf, 2 shelf supports	T12	50042914
Shelf set: chromium plated wire-mesh shelf, 2 shelf supports	T20	50042915
Shelf set: chromium plated wire-mesh shelf, 2 shelf supports	UT6	50042916
Shelf set: chromium plated wire-mesh shelf, 2 shelf supports	UT12	50042917
Shelf set: chromium plated wire-mesh shelf, 2 shelf supports	UT20	50042918

MORE THAN YOU EXPECT – OUR SERVICE

Our service:
A reassuring feeling

Individual
Many people talk about service – Kendro Laboratory Products brings this to life. You will notice this in the quality of our advice, which is individually geared towards your needs. Our solutions are exactly tailored to your specific needs.

We will be there for you before, during and after your purchase.

You will find us as a partner who quickly and competently assists in all matters, to include:

- calibration
- reference measurement
- application advice
- repairs
- exchange of spare parts

Other services are available on request.

For more detailed information please contact your local partner. The Kendro Service Team: a good feeling to know that this partner is at your side.

Your Sales Contact

For Ordering or Technical Information

Australia	Kendro Instruments Australia Pty Ltd · Lane Cove, Sydney · NSW 2066 · Tel. +61 (0) 2-9936 1540 · Fax +61 (0) 2-9427 9765 · info@kendro.com.au
Austria	Kendro Laboratory Products GmbH · Vienna · Tel. +43 (0) 1-801 40 0 · Fax +43 (0) 1-801 40 40 · office@kendro.at
Canada	Kendro Laboratory Products · Asheville, NC · USA · Tel. +1 800-879 7767 · Fax +1 828-658 0363 · info@kendro.com
China	Kendro Laboratory Products Beijing Rep. Office · Beijing · Tel. +86 (0) 10-6501 3810 · Fax +86 (0) 10-6501 4229 · kendrobj@163bj.com
	Kendro Laboratory Products (H.K.) Limited · Hong Kong · Tel. +852 2711 3910 · Fax +852 2711 3858 · info@kendro.com
	Kendro Laboratory Products Shanghai Rep. Office · Shanghai · Tel. +86 (0) 21-5490 0216 · Fax +86 (0) 21-5490 0230 · kendrosh@public4.sta.net.cn
Denmark	Axeb AB · Albertslund · Tel. +45 (0) 43-6246 47 · Fax +45 (0) 43-6246 41 · info@axeb.dk
France	Kendro Laboratory Products SAS · Courtaboeuf cedex · Tel. +33 (0) 1-69 18 77 77 · Fax +33 (0) 1-60 92 00 34 · info@kendro.fr
Germany	Kendro Laboratory Products GmbH · Langenselbold · Tel +49 (0) 6184-90 6940 · Fax +49 (0) 6184-90 7474 · info@kendro.de
India	Kendro Laboratory Products (India) Pvt. Ltd. · New Delhi · Tel. +91 (0) 11-26 18 48 40 · Fax +91 (0) 11-26 18 53 97 · kendro.india@vsnl.com
Italy	AHSI S.p.A. · Cornate D'Adda · Tel. +39 039-68 271 · Fax +39 039-68 27 500 · info@ahsi.it
Japan	Nippon Kendro Co. Ltd. · Tokyo · Tel. +81 (0) 3-3517 1661 · Fax +81 (0) 3-3517 1664 · info@kendro.co.jp
New Zealand	Kendro Instruments New Zealand · Auckland · Tel. +64 (0) 9-525 03 33 · Fax +64 (0) 9-525 03 37 · info@kendro.co.nz
Poland	Kendromed Spólka z o.o. · Warsaw · Tel. +48 (0) 22-663 43 23 · Fax +48 (0) 22-663 43 25 · kendro.warszawa@kendro.com.pl
Portugal	Heraeus S.A. · Massamá · Tel. +351 (0) 214-387 630 · Fax +351 (0) 214-387 636 · heraeus@mail.telepac.pt
Spain	Heraeus S.A. · Madrid · Tel. +34 (0) 91-358 19 96 · Fax +34 (0) 91-358 20 67 · laboratorio@heraeus.es
Sweden	Axeb AB · Sollentuna · Tel. +46 (0) 8-585 777 50 · Fax +46 (0) 8-623 15 45 · info@axeb.se
Switzerland	Kendro Laboratory Products AG · Zurich · Tel. +41 (0) 1-454 12 12 · Fax +41 (0) 1-454 12 99 · kendro-ag@swissonline.ch
	Kendro Laboratory Products SA · Carouge (Geneva) · Tel. +41 (0) 22-343 21 67 · Fax +41 (0) 22-342 38 31 · kendro-sa@swissonline.ch
U.K./Ireland	Kendro Laboratory Products PLC · Bishop's Stortford · Herts · Tel. +44 (0) 1279-827 700 · Fax +44 (0) 1279-827 750 · kendro@kendro.co.uk
USA	Kendro Laboratory Products · Asheville, NC · USA · Tel. +1 800-879 7767 · Fax +1 828-658 0363 · info@kendro.com

All other countries in

Asia Pacific	Kendro Laboratory Products (H.K.) Limited · Hong Kong · Tel. +852 2711 3910 · Fax +852 2711 3858 · info@kendro.com
Europe, Middle East, Africa	
	Kendro Laboratory Products International Sales · Langenselbold · Germany · Tel. +49 (0) 6184-90 6940 · Fax +49 (0) 6184-90 7474 · info@kendro.de
Latin America	Kendro Laboratory Products International Sales · Asheville, NC · USA · Tel. +1 828-658 2711 · Fax +1 828-645 9466 · info@kendro.com

Internet http://www.kendro.com

Kendro® **Quality Products – Lifetime Care**

Heraeus

Registered to ISO 9001. Kendro Laboratory Products meet or exceed stringent quality and product safety standards. ©2003 Kendro Laboratory Products. *All Rights Reserved.*
Specifications and dimensions are subject to change without notice.
Printed in Germany 3C 08/03 4t Künzel – 203104-1