STERICELL®
Hot Air Sterlizer with Forced Air Convection

MMM Group

The STERICELL® Hot Air Sterilizer is intended for use in healthcare for the hot air / dry heat sterilization process of non-packaged and packaged medical devices, including invasive devices designed by their manufacturers for hot air / dry heat sterilization.

It features quiet operation with a fine patent-protected forced airflow system in the chamber using a built-in fan that eliminates the „cold air" areas development. Bulk and sediment-creating substances can be processed in closed containers. The device is suitable for medical and veterinary practices, clinics and hospitals, pharmacies, health centres, laboratories.

The STERICELL® device meets the highest demands for quality, speed, ease of use and safety.

The internal layout of the chamber allows the trays or shelves to be rebuilt and materials of various sizes to be inserted for the best use of the interior space.

STERICELL® with the volume of 55 to 404 litres can be ordered in a single-door or double-door version with the option of being built into the wall between the unclean and sterile zone. The protocol of the individual sterilization batches can be clearly printed out using a printer, or the protocols can be saved in the computer memory using the "PrinterArchiv" software or copied to a flash disk (optional - USB port).

It is a medical device that complies with EU Directive 93/42 / EEC.

Volume: 22, 55, 111, 222, 404 litres
(pass-through version except for the 22 l volume)
Working temperature: 10°C above ambient temperature up to 250°C
Interior: stainless steel, mat. No. 1.4301 (AISI 304)
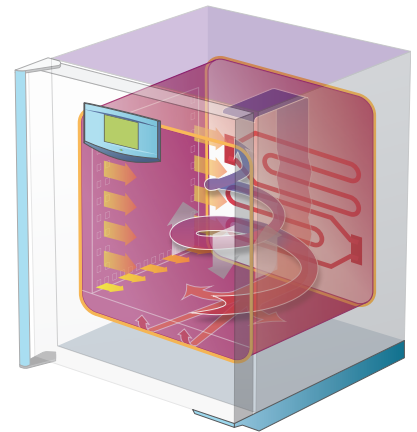Clean premises version – on request

Eco line

- Intuitive control
- Microprocessor process control Fuzzy logic
- Multi-lingual communication
- Acoustic and visual alarm
- LED indicator of device functionality
- LCD display – 3 inches (7,6 cm) with above-standard wide visual angle
- Transflective, brilliant FSTN display, powered by COG technology (it is backlit, using the outside light reflection – higher outside light increases display readability)
- Adjustable display contrast depending on device placement
- Above-standard wide viewing angle
- Current values during the device operation are enlarged for easy readibility
- Durable foil keyboard with SoftTouch touch-sensitive surface
- Mechanic response of keys
- Lit symbols integrated directly in the foil keyboard
- Keypad lock to prevent accidental key presses
- Keypad lock to prevent unauthorized access or accidental key presses
- USB Host port for flash disc connection for easy export of the relevant data (optional equipment)
- Printer for printing reports directly from the device (optional)

Forced Air Circulation in the Chamber

The principle of operation is based on fine patent-protected air flow using a ventilator in electrically heated chamber of the device. The used patent thermo-dynamic system arranges development of a homogenous air flow rising in a spiral inside of the operation chamber. By natural tempering from the bottom upstairs, the process simulates natural processes and it arranges optimal heating of materials and high space precision of temperature in the chamber with minimal power consumption.

Basic Software of the Device

Within the basic software we offer three sterilization programs for choice depending on the type of processed material.

Three pre-set sterilization programs with preheating (possibility of user modification by an authorized person)

- S1 - temperature 160 ° C / sterilization exposure 60 min
- S2 - temperature 170 ° C / sterilization exposure 30 min
- S3 - temperature 180 ° C / sterilization exposure 20 min

Two drying programs are a new option

- P4, P5 - temperature 10 °C (above the ambient temperature) up to 250 °C/ user-adjustable exposition time

STERICELL®

CE 0123

Technical data

			22	55	55–2	111	111–2	222	222–2	404	404–2
Inner space – stainless steel DIN 1.4301	volume	l	22	55	55–2	111	111–2	222	222–2	404	404–2
	width	mm	240	400	400	540	540	540	540	540	540
	depth	mm	320	370	370	370	370	520	520	520	520
	height	mm	300	350	350	530	530	760	760	1415	1415
External dimensions (including door, handle, legs N or casters K)	width	max. mm	406	620	620/ 870R	760	760/ 1010R	760	760/ 1010R	760	760/ 1010R
	depth	max. mm	560	680	660	680	660	830	810	790	810
	height	max. mm	610N	680N	680N	860N	860N	1090N	1110N	1910K	1910K
	ventilation neck diameter - internal / external	mm	52/49	52/49	52/49	52/49	52/49	52/49	52/49	52/49	52/49
Package – dimensions (three-layer cartoon)	width	approx mm	500	700	–	830	–	820	–	830	–
	depth	approx mm	720	760	–	750	–	890	–	860	–
	height (including palette)	approx mm	810	880	–	1060	–	1260	–	2085	–
Package – dimensions (box)	šířka	cca mm	730	800	940	830	1330	940	1330	910	1330
	hloubka	cca mm	780	840	960	910	1010	960	1010	970	1010
	výška (včetně palety)	cca mm	855	900	1310	1085	1575	1310	1575	2125	2125
Trays / shelves	maximal number	pc	4	4	4	7	7	10	10	19	19
	standard equipment	pc	2	2	2	2	2	2	2	2	2
	minimal distance between trays	mm	60	70	70	70	70	70	70	70	70
	storage area on each tray	mm	185×265	380×335	380×335	520×335	520×335	520×485	520×485	520×485	520×485
Maximal allowed loading of trays *)	per 1 tray	kg/tray	10	20	20	20	20	30	30	30	30
	per 1 shelf	kg/shelf	10	20	20	20	20	30	30	30	30
	inside the device - in total	kg/case	25	50	50	50	50	70	70	100	100
Number of external metal door		pc	1	1	2	1	2	1	2	1	2
Hmotnost	netto	cca kg	31	55	60	75	80	100	105	150	160
	brutto (karton)	cca kg	36	66	71	87	92	116	121	175	185
Elektrické údaje – síť 50/60 Hz	max. příkon	kW	0,96	1,3	1,9	1,9	2,5	1,9	3,7	3,7	5,5
	příkon v pohotovostním stavu [stand by]	W	5	5	5	5	5	5	5	5	5
	proud pro napětí **)	A	4,2	5,6	8,3	8,3	10,6	8,3	5,6	5,6	8,3
		V	230	230	230	230	230	230	400/ 3NPE	400/ 3NPE	400/ 3NPE
	proud pro napětí **)	A	8,4	11,3	16,6	16,6	21,2	16,6	19	19	28
		V	115	115	115	115	115	115	115/3PE	115/3PE	115/3PE
Noise level of complete device		dB	<55	<55	<55	<55	<55	<55	<55	<58	<58
IP Code			IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Temperature data											
Operation temperature	from 10°C above ambient	to°C	250	250	250	250	250	250	250	250	250
Variations from operation temperature with closed flap and door (DIN 12 880) ***)	space	±°C	-1/+5	-1/+5	-1/+5	-1/+5	-1/+5	-1/+5	-1/+5	-1/+5	-1/+5
	time	±°C	4	4	4	4	4	4	4	4	4
Number of air exchanges	at 250°C	per hour	45	45	45	49	49	24	24	18	18
Heat losses	at 250°C	W	420	590	590	760	760	990	990	1940	1940

Note:

All the technical data apply to 22°C of ambient temperature and ± 10%.

*)   The trays may be covered to approximately 50% of their surface and if possibly in such a way so as the air may evenly flow inside the chamber space.

**)   mains voltage is specified on type label of the device.

***)   It applies with closed ventilation flap and door.

The values may differ depending on specific charge and media parameters.

Changes in the design and make reserved.