

Sterilizers with extra class



Lisa[®]

Ready for the future: Class B

The European standard EN 13060 specifies the performance requirements and test methods for small steam sterilizers. These are used for hygiene and infection control in general medical practices, dentistry facilities, and veterinary practices.



They are used for materials and equipment which are likely to come into contact with blood or body fluids. The very specific loads used within these fields of application call for different performance requirements for the sterilization cycles.

According to the European standard EN 13060, there are three classes of cycle B, S and N. It is ONLY the Class B cycle that provides safe sterilization of all types of load: solid, hollow and porous, bagged and single / double wrapped. W&H Sterilization is part of the European working group which formulated the EN 13060 norm.



LISA MB 17 and MB 22

LISA Sterilizers have been internationally certified and have sold more than 25,000 units world-wide. Lisa Sterilizers received a reputation of being extremely reliable, easy to use and providing a number of attractive and appreciated state-of-the-art features.

Lisa: The concept

W&H are aware that a sterilizer should be user-friendly and always give reliable and consistent results. So the Lisa sterilizers were designed to provide exclusively Class B cycles. This means that all cycles have the same profile which always includes multi-fractionated pre-vacuum and complete pulsed vacuum drying.



Therefore:

- 1 No specific training on the load type selection required for the user.
- 2 No confusion or mistake in the load type selection.
- 3 The selected cycle is always correct for the type of load to be sterilized.

Totally safe sterilization releasing the user's responsibility!



Lisa: Sterilization made totally safe and e

WARRANTY

2 years or 2000 cycles
whichever comes first



Technical data

Power supply

LISA MB 17

Single phase 230 VAC $\pm 10\%$ / 50-60 Hz / 10A

LISA MB 22

Sterilizer

Power consumption

max. 2100 W / 9.2 A

max. 2100 W / 9.2 A

Dimensions overall (mm)

W: 445 – H: 410 - D: 520

W: 445 - H: 410 - D: 620

Weight

49 kg

56 kg

Main / Used water tanks content

3.5 / 4.0 litres

4.5 / 5.0 litres

Working range

8 to 12 cycles

8 to 12 cycles

Average / max. noise level

55 / 63 Db

55 / 63 Db

Chamber

Capacity / dimensions (mm)

17 litres / \emptyset 250 – D: 350

22 litres / \emptyset : 250 – D: 450

External connections

The sterilizer is supplied with the facility to connect to the LISA Demin 20 external water supply. It can also be plumbed directly to a sink or waste water connection.

Independent steam generator

Separate steam generation and storage.



LR 217064



2CS worldwide patented system

2CS Condensation Collect System provides:

- Reduced cycle time especially with full loads
- Reduced water and energy consumption
- Complete vacuum drying in shortest time
- Practical, with up to 12 cycles before water needs refilling.

Documentation

External dot matrix DP 40 printer and/or data saving on computer with Memory Card.



Interactive touch-screen

The Lisa sterilizers are equipped with a touch-screen which acts as a complete communication centre. Cycles are selected with just a simple touch. There are various sub-menus such as sleep mode and diagnostic service menus. Maintenance reminders, check-ups and user information automatically appear on the screen.

Independent steam generator

For dry saturated steam and exceptionally quick cycles.

Reversible rack

Simple and practical, permitting the use of 5 trays or 3 wrapped cassettes.

Stainless steel chambers

For longevity and ease of maintenance.

Automatic door locking system

There is a safety electric door closing mechanism which uses double locking and is sealed by a parallel positioning of the door gasket.

Service door

For easy access to the mains switch, drain connections for both clean and used water tanks and the bacteriological filter.

Load type classification

Not all sterilization cycles are suitable for all types of load. As the Lisa has exclusively Class B cycles, it can be used for any of the following load types: unwrapped solid products, full porous load, small porous loads and porous items, hollow loads, bagged (pouches), single and double wrapped products.



Solid load



Porous load

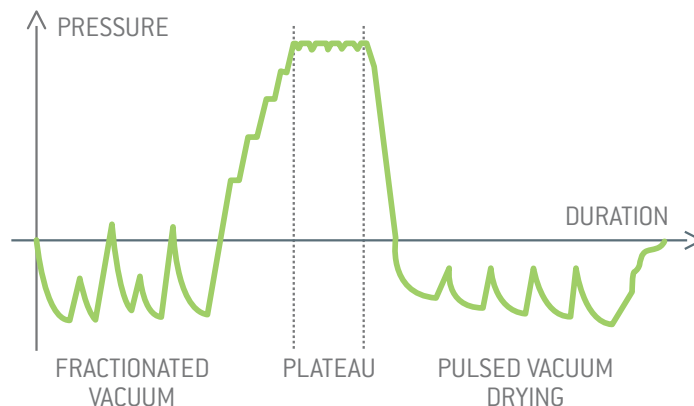


Hollow load

Programme table: Lisa MB 17 · Lisa MB 22

Sterilization cycles	B STANDARD 134	B PRION 134	B STANDARD 121
Temperature	135.5° C	135.5° C	122.5° C
Pressure	2.16 bar	2.16 bar	1.14 bar
Duration of the plateau	4'	18'	15'
Duration of the drying phase	14'	15'	20'
Total duration: empty-full load	MB 17 MB 22		
	30' – 40' 32' – 52'	44' – 54' 46' – 66'	50' – 60' 50' – 65'
Type of Load			
Full solid	YES	YES	YES
Small porous items	YES	YES	YES
Full porous	YES	YES	YES
Hollow A	YES	YES	YES
Hollow B	YES	YES	YES
Bagged and single/double wrapped	YES	YES	YES
Max mass of the load: solid/porous	MB 17: 4.5 / 1.5 kg · MB 22: 6.0 / 2.0 kg		
Test cycles	Helix, Bowie & Dick, Air Leakage – Vacuum test		

Profile of the Lisa class B cycles



Process evaluation system

Lisa's software is fitted with a process evaluation system which monitors the physical parameters (EN 13060) during the complete cycle. The values include the switch points of all vacuum and steam pressure pulses, the sterilization plateau temperature, pressure and the drying phase. The values are compared with the ones pre-set by our engineers. This exclusive system indicates whether the cycle is acceptable or not.



Works test – Validation

According to En 13060, the works test including initial validation is the final test to be performed on every sterilizer before it is released for use. Therefore every LISA is connected to a test bench and intensely tested for more than 5 hours.



Documentation

For complete transparency every Lisa is delivered with:

- Complete WORKS TEST report
- Declaration of conformity
- Electrical safety test report
- International warranty

The complete works test is filed in our factory for over 10 years.

Declaration of conformity

LISA sterilizers have been developed, certified and validated according to the most stringent European Directives and Standards applicable on small steam sterilizers which assures the highest performances ever reached for bench top autoclaves:

93/42/EEC	Medical Device Directive
EN 13060	Small steam sterilizer – General requirements.
EN 61010-1	Laboratory equipment – Safety
EN 61010-2-041	Specific instructions for steam sterilizer
EN 61326	Electromagnetic compatibility

LISA sterilizers were cleared to market in the USA by the FDA.





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Order your Lisa through your dental supplier

Pictures are for illustrative purposes only. Additional equipment and accessories are not included with the item.