



ultrasonic baths

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Ultrasonic baths are devices used for cleaning delicate or complex objects using high-frequency sound waves. These devices generate ultrasonic sound waves that create small bubbles in the bathwater. When these bubbles implode, microscopic shockwaves and liquid currents are generated, removing dirt, residues, and particles from the surfaces of objects immersed in the bath.

These instruments find extensive use in laboratories, dental or medical offices, as well as in mechanical and industrial sectors, wherever the quick and effective cleaning of work tools is required. The frequency of ultrasonic waves determines the obtained result: the higher the frequency, the better the result.

There are two main types of ultrasonic baths: those with heating and those without heating.

Ultrasonic baths without heating

These devices use only high-frequency sound waves without an integrated heating system. They are suitable for cleaning objects sensitive to heat or when heating is not essential for the type of dirt to be removed. These ultrasonic baths may be more suitable for delicate materials or electronic components that could be damaged by high temperatures.

- **LBS 1 Series**
The simplest version of the range, ideal for routine work and simple cleaning operations of tools.

Ultrasonic baths with heating

These devices have an integrated heating function that allows bringing the bathwater to a controlled temperature. Water heating can enhance the effectiveness of the cleaning process, as chemical reactions and the action of ultrasonic waves can be intensified at higher temperatures. This is particularly useful for removing residues of oils, fats, or other substances that are more challenging to eliminate with water at room temperature.

- **LBS 1-H Series**
Simple models with the addition of heating.
- **LBS 3 Series**
Floor-standing version with heating, ideal for cleaning even large tools (50-liter tank).
- **LBS 2 Series**
Multifrequency models with variable power allow setting customized combinations to adapt to various uses.
- **LBS – DE Series**
Models with degassing mode, where alternating frequencies ensure the removal of gas in the washing liquid or samples, sweep and pulse ensuring cleaning even in stubborn cases such as oxidation and encrustations.



I N D E X

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- 04 **Ultrasonic baths for simple cleaning operations**
 - 05 **Ultrasonic baths with heating**
 - 06 **Ultrasonic baths with heating for large volume**
 - 07 **Ultrasonic baths with heating with multi-frequency and adjustable power**
 - 08 **Ultrasonic baths with heating and degass-sweep-pulse mode**
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ULTRASONIC BATHS FOR SIMPLE CLEANING OPERATIONS



LBS 1

-  Ideal for cleaning and eliminating all types of impurities with cavitation (vibratory effect generated by the ultrasonic power)
-  It can be used with a timer or continuously. Digital programmable timer
-  Support grid included



Technical data		LBS 1 - 0,6	LBS 1 - 3	LBS 1 - 6	LBS 1 - 10	LBS 1 - 15	LBS 1 - 22,5
Tank capacity	lt	0,6	3,0	6,0	10,0	15,0	22,5
Frequency	KHz	50	50	50	50	50	50
Power peak	HF/W	39	140	226	280	495	700
Power consumption	W	28	100	160	200	350	500
Power adjustment	%	no	no	no	no	no	no
Heating	°C	no	no	no	no	no	no
Timer		no	1-99 + ∞	1-99 + ∞	1-99 + ∞	1-99 + ∞	1-99 + ∞
Drain valve		no	no	no	yes	yes	yes
Dim. of internal tank LxWxH	mm	150x86x65	240x140x100	300x150x150	300x240x150	330x300x150	500x300x150
Dim. of external tank LxWxH	mm	186x122x155	270x160x240	330x180x290	360x270x310	390x300x310	570x330x330
Weight	kg	2,5	3,2	3,8	5,2	8,0	10,4
Code		616.1010.02	616.1010.04	616.1010.06	616.1010.08	616.1010.12	616.1010.14

V/HZ 220/240-50/60

SAFETY CLASS 1

PROTECTION CLASS IP 42

ACCESSORIES



Code	LBS 1 - 0,6	LBS 1 - 3	LBS 1 - 6	LBS 1 - 10	LBS 1 - 15	LBS 1 - 22,5
18/8 stainless steel lid	616.1025.02	616.1025.04	616.1025.06	616.1025.08	616.1025.12	616.1025.14
18/8 stainless steel basket	-	616.1027.04	616.1027.06	616.1027.08	616.1027.12	616.1027.14



Concentrated bottle at 10% PH12
 Universal cleaner for ultrasonic baths, suitable for cleaning glassware, ceramic items, metals and synthetic products, eliminating greasy waste and organic waste. 90% Biodegradable

Code
 1 litre
616.1043.45

5 litres
616.1043.46

ultrasonic baths

ULTRASONIC BATHS WITH HEATING



Ideal for cleaning and eliminating all types of impurities with cavitation (vibratory effect generated by the ultrasonic power)



Digital temperature control



It can be used with a timer or continuously. Digital programmable timer



Support grid included



LBS 1 - H



Technical data		LBS 1 - H 3	LBS 1 - H 10	LBS 1 - H 22,5
Tank capacity	lt	3,0	10,0	22,5
Frequency	KHz	35	35	50
Ultrasonic power	W	100	200	700
Heating power	W	88	270	500
Setting of power	%	no	no	no
Heating	°C	20-69	20-69	20-69
Timer		1-99 + ∞	1-99 + ∞	1-99 + ∞
Drain valve		no	yes	yes
Inner tank dimensions LxWxH	mm	240x140x100	300x240x150	500x300x150
Dim. of outer tank LxWxH	mm	270x160x240	360x270x310	570x330x330
Weight	kg	3,2	5,2	10,4
Code		616.1015.04	616.1015.08	616.1015.14

V/HZ 220/240-50/60

SAFETY CLASS 1

PROTECTION CLASS IP 42

ACCESSORIES



Code	LBS 1 - 3	LBS 1 - 10	LBS 1 - 22,5
18/8 stainless steel lid	616.1025.04	616.1025.08	616.1025.14
18/8 stainless steel basket	616.1027.04	616.1027.08	616.1027.14



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5 litres
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ULTRASONIC BATHS WITH HEATING FOR LARGE VOLUMES



LBS 3

-  Ideal for cleaning and eliminating all types of impurities with cavitation (vibratory effect generated by the ultrasonic power)
-  Digital temperature control
-  Digital programmable timer
-  Support grid and lid included

Technical data		LBS 3
Tank capacity	lt	50
Frequency	KHz	25
Power consumption	W	750
Heating capacity	W	780
Heating	°C	20-60
Digital timer		1-199
Drain valve		yes
Inner tank dimensions LxWxH	mm	420x370x350
Dim. of outer tank LxWxH	mm	480x540x630
Code		616.1022.05

V/HZ 220/240-50/60

SAFETY CLASS 1

PROTECTION CLASS IP 42

ACCESSORIES

Basket
Code 616.1028.05

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ULTRASONIC BATHS WITH HEATING
WITH MULTI-FREQUENCY AND ADJUSTABLE POWER



Display LCD
Ideal for cleaning, mixing, degassing,
extracting and preparation of samples
Adjustable multi-frequency power



Digital control and
real temperature display



Digital programmable timer



Acoustic alarm when temperature
exceeds the set values



Thermal efficiency with low power consumption



Included support grid



LBS 2



Technical data		LBS 2 - 4,5	LBS 2 - 10	LBS 2 - 15	LBS 2 - 22,5
Tank capacity	lt	4,5	10,0	15,0	22,5
Frequency	KHz	35 or 53	35 or 53	35 or 53	35 or 53
Power peak	HF/W	150	300	450	650
Power consumption	W	135	250	350	500
Power adjustment	%	40-100	40-100	40-100	40-100
Heating	°C	20-80	20-80	20-80	20-80
Timer		1-199	1-199	1-199	1-199
Drain valve		no	yes	yes	yes
Inner tank dimensions LxWxH	mm	300x150x100	300x240x150	330x300x150	500x300x150
Dim. of outer tank LxWxH	mm	330x180x240	360x270x310	390x330x310	570x330x330
Weight	kg	3,4	6,9	9,4	12,7
Code		616.1020.05	616.1020.08	616.1020.12	616.1020.14

V/HZ 220/240-50/60

SAFETY CLASS 1

PROTECTION CLASS IP 42

ACCESSORIES



Code	LBS 2 - 4,5	LBS 2 - 10	LBS 2 - 15	LBS 2 - 22,5
18/8 stainless steel lid	616.1025.05	616.1025.08	616.1025.12	616.1025.144
18/8 stainless steel basket	616.1027.05	616.1027.08	616.1027.12	616.1027.14



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5 litres
616.1043.46

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ULTRASONIC BATHS WITH HEATING AND DEGASS-SWEEP-PULSE MODE



Scan for more info about the product



LCD display

Mode of operation:

- Degassing: releasing air from the liquid to ensure better cleaning
- Sweep mode: varying frequencies to improve cleaning efficiency while avoiding instrument deterioration.
- Pulse mode: alternating between high and zero frequencies to maximize cleaning in cases of oxidation and deposits.



Digital control and real temperature display



Digital programmable timer



Acoustic alarm when temperature exceeds the set values



Thermal efficiency with low power consumption



Gridded support included

Technical data		LBS-DE 3	LBS-DE 10	LBS-DE 22,5
Capacity	lt	3	10	22,5
Operating Frequency	KHz	53	53	53
RF power	W	90	180	320
Heating power	W	88	270	500
Heating	°C	From 20 to 80	From 20 to 80	From 20 to 80
Timer		1-99	1-99	1-99
Tank dimensions LxDxH	mm	240x140x100	300x240x150	500x300x200
External dimensions LxDxH	mm	295x215x245	355x330x305	555x385x333
Weight	kg	4	7,5	15
Drain tap		no	yes	yes
Code		616.1021.04	616.1021.08	616.1021.14

V/HZ 220/240-50/60

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