



LABSONIC® M

The ultrasonic homogenizer for every application

Ultrasonic homogenizers are widely used for disruption of bacteria, yeast and cultured animal cells. The LABSONIC® M homogenizer is a compact, handheld laboratory instrument that combines all functions in one unit and thus helps saving bench space.

Sonication amplitude can be set between 20 and 100% of the maximum output of 100 W, active time interval between 0,2 and 1,0 sec. This helps to prevent sample denaturation by heating or foaming.

Service life of the titanium sonotrodes is increased by automatic length determination and frequency adjustment. Maximum sample volume is 750 ml in batch mode or up to several liters² using a flow cell.

Benefits

- universal ultrasonic homogenizer
- selectable amplitude and active cycle
- self-optimization of energy output

Ordering information

BBI-8535027

LABSONIC® M
230 V|50 Hz

BBI-8535035

LABSONIC® M
115 V|60 Hz,

Technical specifications

| | |
|-------------------------------|---|
| Dimensions | W × H × D = 130 × 180 × 50 mm |
| Weight | 0.75 kg |
| Line voltage | 230 V 50 Hz or 115 V 60 Hz |
| Output | 100 W (90 W in aqueous media) |
| Output settings | 20% to 100%, continuous |
| Duty cycle (pulsed operation) | 10% to 100%, continuous |
| Timer | Optional, by external timer |
| Working frequency | 30 kHz according to US Standard |
| Accuracy | ±1 kHz |
| Max. energy density | 125 to 600 W/cm ² depending on sonotrode |
| Max. amplitude | 125 to 220 μm depending on to sonotrode |
| Operational stability | Permanent operation, also in air |
| Fuses | T2A primary (internal) |
| Protection class protection | I, grounded device IP 40 |
| Interference | According to EN 55011 EN 50082-2 |
| PC-connection | Optional, socket integrated |
| Ambient temperature | +5°C to +40°C |
| Humidity | Avoid extreme humidity |

All units are delivered without probes and further accessories.

Accessories

01 |



| Reference | Description | For sample volume (ml) |
|---|------------------------------------|------------------------|
| Probes made of Titanium, normal length | | |
| BBI-853 5612 | Probe Ø 0.5 mm, approx. 80 mm long | 0.01–0.5 |
| BBI-853 5620 | Probe Ø 1 mm, approx. 80 mm long | 0.1–5 |
| BBI-853 5639 | Probe Ø 2 mm, approx. 80 mm long | 2–50 |
| BBI-853 5647 | Probe Ø 3 mm, approx. 80 mm long | 5–200 |
| BBI-853 5655 | Probe Ø 7 mm, approx. 80 mm long | 20–500 |
| BBI-853 5671 | Probe Ø 10 mm, approx. 80 mm long | 30–750 |
| Probes made of Titanium, double length | | |
| BBI-853 5680 | Probe Ø 3 mm, approx. 160 mm long | 5–200 |
| BBI-853 5698 | Probe Ø 7 mm, approx. 160 mm long | 20–500 |
| BBI-853 5710 | Probe Ø 10 mm, approx. 160 mm long | 30–750 |

02|

**Reference****Description**

| Reference | Description |
|--|---|
| Accessories for sonication in a flow cell | |
| BBI-853 5663 | Probe Ø 7 mm, for flow cell 853 5728, approx. 80 mm long |
| BBI-853 5701 | Probe Ø 7 mm, long form, for flow cell 853 5736, approx. 160 mm long |
| BBI-853 5728 | Flow cell incl. cooling connection, stainless steel 1.4301, autoclavable, incl. quick-fit connector. For operation a probe 853 5663 is required! |
| BBI-853 5736 | Flow cell incl. cooling connection, glass, autoclavable, for sonicating liquids in a closed system. The norm adapter 853 5744 is needed. |
| BBI-853 5744 | Norm adapter for glass flow cell 853 5736 |

03|



Timer, for connection to LABSONIC® M

| Reference | Description |
|----------------------------|---|
| Further accessories | |
| BBI-853 5280 | Clamp STH-16 (included with LABSONIC® M) |
| BBI-853 5272 | Stand ST-16, Ø 16 mm, plate stainless steel 1.4301, rod made of aluminium |
| BBI-853 5779 | Timer, for connection to LABSONIC® M |
| BBI-853 5787 | PC-control, incl. recording of input power, slot-in board for PC, connecting cable and software for Windows 95/98 |
| BBI-853 5795 | PC-control, incl. recording of input power and temperature, slot-in board for PC, connecting cable and software for Windows 95/98 |
| BBI-853 5817 | Sound dampening chamber SB2 for LABSONIC® M |