

Data Sheet

Mixing / Shakers



MS 3 digital

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtiter plates

- Wide range of attachments
- Attachment detection
- Timer with countdown function
- Continuous or touch operation (with standard attachment)
- Two operating modes:
 - Mode A (safe mode with attachment detection)
the maximum speed of 3.000 rpm is only reached with the standard attachment in touch mode. When using other attachments the speed is limited to 1.300 rpm.
 - Mode B (without attachment detection)
A speed of 3,000 rpm is possible with all attachments, depending on the application (see accessory list in the manual).
- Stable in all speed ranges
- Sturdy zinc die cast casing

Accessories: MS 3.1 Standard attachment, MS 3.4 Microtiter attachment, MS 3.3 Universal attachment, MS 3.5 PCR plate attachment, MS 1.21 One-hand insert, MS 1.34 Test tube insert, MS 1.31 Test tube insert, MS 1.32 Test tube insert, MS 1.33 Test tube insert

Technical Data

| | |
|--|--------------------------------|
| Type of movement | orbital |
| Shaker diameter [mm] | 4.5 |
| Permissible shaking weight (incl. attachment) [kg] | 0.5 |
| Motor rating input [W] | 10 |
| Motor rating output [W] | 8 |
| Permissible ON time [%] | 100 |
| Speed min (adjustable) [rpm] | 200 |
| Speed range [rpm] | 0 - 3000 |
| Speed display | scale |
| Timer | yes |
| Timer display | 7 segment LED |
| Time setting range [min] | 1/60 - 999 |
| Operating mode | timer and continuous operation |
| Touch function | yes |
| Shaking table lock | no |
| Working with microtiter plates | yes |
| Number of microtiter plates | 1 |
| Dimensions (W x H x D) [mm] | 148 x 63 x 205 |
| Weight [kg] | 2.9 |
| Permissible ambient temperature [°C] | 5 - 40 |
| Permissible relative humidity [%] | 80 |
| Protection class according to DIN EN 60529 | IP 21 |
| RS 232 interface | no |
| Analog output | no |
| Voltage [V] | 100 - 240 |
| Frequency [Hz] | 50/60 |
| Power input [W] | 20 |
| DC Voltage [V=] | 24 |
| Current consumption [mA] | 800 |

Ident. No.

0003319000

MS 3.1 Standard attachment

For test tubes and small vessels up to Ø 50 mm, included with the minishakers MS 3 basic and MS 3 digital.



Ident. No.
0003426300

MS 1.21 One-hand insert

For inserting into the universal attachment, included with the minishakers MS 3 basic and MS 3 digital.



Ident. No.
000L001540

MS 1.33 Test tube insert

For inserting into the universal attachment, for 4 test tubes Ø 16 mm. Material: ethylvinyl-acetate.



Ident. No.
000L001860

MS 3.3 Universal attachment

For various foam inserts, included with the minishakers MS 3 basic and MS 3 digital.



Ident. No.
0003426600

MS 1.31 Test tube insert

For inserting into universal attachment, for 14 test tubes Ø 10 mm, material: ethylvinyl-acetate.



Ident. No.
000L001840

MS 1.34 Test tube insert

For inserting into the universal attachment, for any number of bore holes. Material: ethylvinyl-acetate.



Ident. No.
000L001830

MS 3.4 Microtiter plate attachment

For use with a microtiter plate, included with the minishaker MS 3 digital.



Ident. No.
0003426400

MS 1.32 Test tube insert

For inserting into the universal attachment, for 6 test tubes Ø 12 mm. Material: ethylvinyl-acetate. Included with the minishakers MS 3 digital.



Ident. No.
000L001850

MS 3.5 PCR plate attachment

For holding PCR plates, 96-well. Includes holder and insert.



Ident. No.
0003428000

