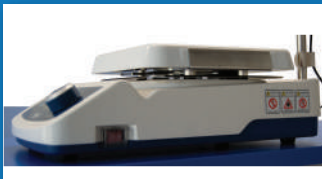


Magnetic stirrer with hotplate

MSH-500

NEW



Highest performance

- powerful: stirring capacity up to 20 l, temperature up to 500 °C, stirring rate up to 1.500 rpm
- protection against corrosion due to the smart design
- superior heat- and chemical-resistant full ceramic plate
- strong but quiet motor, made for a long life time
- precise temperature by digital feedback control

Highest convenience

- intuitive and very easy to use control elements
- illuminated digital display for easy setting
- easy to clean full ceramic plate

Highest user safety

- hot top indicator for temperatures over 50°C
- high quality insulation to protect user and device against heat damage
- two independent internal sensors for accurate temperature and overheating protection

Protection

Two features protect the device from internal corrosion and prolong its life time: the **closed coverage type** and the **intelligent fluid management system**, which leads off accidentally spilled liquids away from the interior of the device.

Surface

The **superior full ceramic plate** achieves up to 500°C, is **resistant against aggressive chemicals** and **easy to clean**.

Housing

The **die-cast case** with **high-quality insulation** ensures **user safety** during operation at high temperatures. The **minimized heat transfer** from the plate to the inside also ensures a **longer life time**.

Temperature control & safety

Two independent internal temperature sensors assure accurate temperature control and prevent from malfunction or danger caused by overheating.



Accessories

The **external temperature sensor** allows accurate temperature due to digital feedback control system.

Motor

The **brushless shade motor** ensures **strong and precise stirring**, **minimized noise** and a **long life time**. Due to the high-performance magnet, up to 20 l of water can be stirred easily.

Safety first

Hot top indicator lamp illuminates when temperature on the plate is over 50°C.

Controller

New **Jog-Dial “Turn + Push”** and **touch button** are designed for **intuitive, easy and direct use**.

Magnetic stirrer with hotplate

digital, up to 500°C, 80-1,500 rpm, solid ceramic plate 200x200 mm

80-1500 rpm

500°C ± 0.3°C



MSH-500 Set

Stirrer bar included

MSH-500 digital, 500°C

Ideal for:

- mixing of chemical, laboratory and pharmaceutical materials
- heat-sensitive procedures in microbiology and biochemistry
- sample drying and general lab heating applications where high temperature is needed

Features:

- new design: lighter and more compact than the previous model
- digital display with backlight
- high-quality solid ceramic plate 200x200 mm, up to 500°C
- heat-, chemical- and acid-resistant
- shade motor for 80-1,500 rpm
- enormous strength of magnet
- perfect heat uniformity from the inner to the edge
- no liquid can get into the body
- powder-coated aluminium body
- 30 mm stirrer bar included
- CE certified and unique serial number for tracing

Safety mechanism:

- hot top indicator lamp
- ideal fourfold insulation: BTU, ceramic paper and 2 x SUS
- timer 99h 59min with timer-end signal
- error status and locking mode
- operation LEDs

Controller:

- **Jog-Dial** controller with touch-button for precise temperature control

Model	MSH-500
Body	powder-coated aluminium
Plate	solid ceramic plate, 200x200 mm
Stirring capacity	max. 20 l
Speed & control resolution	80 - 1,500 rpm, 5 rpm
Temperature range & accuracy	max. 500°C, ±0.3°C
Temperature resolution	0.1°C display, 0.5°C control
Temperature uniformity	specialy designed heating module: temperature difference less than 10%
Heating power / consumption	850W
Timer & alarm	99hr 59min (with continuous run), error status and timer-end
Display	digital LCD with backlight function
Controller	digital feedback controller with Jog-Dial (Turn+Push) and Touch-button
Safety circuit	overheat protection, hot top indicator LED lamp
Stirring bar	30 mm bar included, usable up to 50 mm bar
Permissible temperature & RH %	ambient temperature +5 ~ 50°C, 85% RH
Dimension & weight	220 x 332 x 144, 3.8 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz
Order number 230V	Unit: DH.WMH00500 Set: DH.WMH01500
Order number 120V	Unit: DH.WMH00501 Set: DH.WMH01501

Set includes: Unit MSH-500D
 Temperature probe Ø4xL250 mm, cable length: 190 mm
 Stand rod Ø12xL450 mm with thread, stainless steel
 Holder / clamp / clip for fixation of temperature probe

Accessories: External temperature probes, stand rod, stirring bars and holder / clamp / clip on page 27

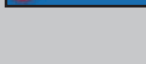
Magnetic stirrer with hotplate

analog, up to 380°C, up to 1,500 rpm, ceramic-coated square-type plate

up to 1500 rpm



380°C
± 0.3°C



MSH-20A

MSH-A square-type, analog, 380°C

Ideal for:

- mixing of chemical, laboratory and pharmaceutical materials
- heat-sensitive procedures in microbiology and biochemistry
- sample drying and general lab heating applications

Features:

- up to 380°C
- up to 1,500 rpm
- ceramic-coated aluminium plate 180x180 / 260x260 mm
- heat-, chemical- and restricted acid-resistant
- no liquid can get into the body
- powder-coated body
- easy to clean
- 30 mm stirrer bar included
- CE certified and unique serial number for tracing

Safety mechanism:

- operation LEDs

Controller:

- **PWM controller**



MSH-30A

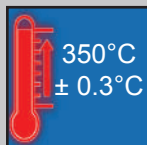
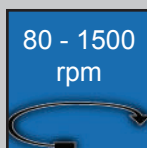
Stirrer bar included

Model	MSH-20A	MSH-30A
Body	powder-coated aluminium	powder-coated steel
Plate	ceramic-coated aluminium 180x180 mm	ceramic-coated aluminium 260x260 mm
Stirring capacity	max. 20 l	
Speed & control resolution	up to 1,500 rpm	
Temperature range & accuracy	max. 380°C	
Temperature uniformity	specially designed heating module: temperature difference less than 10%	
Heating power / consumption	600W	1.2kW
Controller	superior linearity PWM Controller	
Stirring bar	30 mm bar included, usable up to 50 mm bar	
Permissible temperature & RH %	ambient temperature +5 ~ 50°C, 85% RH	
Dimension & weight	206x307xh99 mm, 2.8 kg	286x387xh99 mm, 3.3 kg
Packaging size	400x280xh200 mm, 5 kg	430x320xh200 mm, 5 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz	
Order number 230V	DH.WMH03120	DH.WMH03121
Order number 120V	DH.WMH02120	DH.WMH02121

Accessories: External temperature probes, stand rod, stirring bars and holder / clamp / clip on page 27

Magnetic stirrer with hotplate

analog, multiple places (3 & 6), up to 350°C, 80-1,500 rpm, ceramic-coated plates 140x140 mm



Stirrer bar included

SMHS multi-type, digital, 350°C

Ideal for:

- multiple mixing and heating applications at the same time
- mixing of chemical, laboratory and pharmaceutical materials
- heat-sensitive procedures in microbiology and biochemistry
- sample drying and general lab heating applications

Features:

- each place individually adjustable
- digital Jog-Dial controller for each place
- up to 350°C
- up to 1,500 rpm
- ceramic-coated aluminium plate with 3 or 6 places 140x140 mm
- heat-, chemical- and restricted acid-resistant
- no liquid can get into the body
- powder-coated steel body
- easy to clean
- 30 mm stirrer bar included (3x / 6x)
- up to 3 temperature probes possible (3 & 6 place-type)
- CE certified and unique serial number for tracing

Safety mechanism:

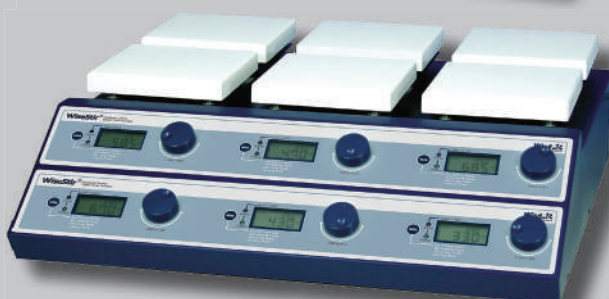
- timer 99h 59min with timer-end signal
- error status
- locking mode
- operation LEDs

Controller:

- **Jog-Dial** controller with touch-button



SMHS-3



SMHS-6

Model	SMHS-3	SMHS-6
Stirring points	3	6 (2x3)
Body	powder-coated steel	
Plate	ceramic-coated aluminium 140x140 mm (each place)	
Stirring capacity	max. 20 l	
Speed & control resolution	80 ~ 1,500 rpm, 5 rpm	
Temperature range & accuracy	max. 350°C, ±0.3°C	
Temperature resolution	0.1°C display, 0.5°C control	
Temperature uniformity	specially designed heating module: temperature difference less than 10%	
Heating power / consumption	400W x3	400W x6
Timer & alarm	99hr 59min (with continuous run), error status and timer-end	
Display	digital LCD with backlight function	
Controller	digital feedback controller with Jog-Dial (Turn+Push) and touch-button	
Safety circuit	overheat protection	
Stirring bar	3x/6x 30 mm bar included, usable up to 50 mm bar	
Permissible temperature & RH %	ambient temperature +5 ~ 50°C, 85% RH	
Temperature sensor ports	3	3
Stand rod sockets	3	6
Dimension & weight	510x240xh100 mm, 10 kg	510x410xh180 mm, 18 kg
Packaging size	540x330xh170 mm, 10 kg	570x540xh230 mm, 18 kg
Power supply	1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz	
Order number 230V	DH.WMH03503	DH.WMH03506
Order number 120V	DH.WMH02503	DH.WMH02506

Accessories: External temperature probes, stand rod, stirring bars and holder / clamp / clip on page 27 & 28

Magnetic stirrer with hotplate

Accessories: magnet stirrer bars

Magnetic stirrer bar

- cylindrical
- PTFE
- with permanent magnet



Ø x Length	Order number
Ø 3 x 6 mm	7 211 001
Ø 3 x 8 mm	7 211 002
Ø 4.5 x 12 mm	7 211 003
Ø 4.5 x 15 mm	7 211 004
Ø 6 x 20 mm	7 211 005
Ø 6 x 25 mm	7 211 006
Ø 6 x 30 mm	7 211 007
Ø 6 x 35 mm	7 211 008
Ø 8 x 40 mm	7 211 009
Ø 8 x 45 mm	7 211 010
Ø 8 x 50 mm	7 211 011
Ø 9 x 60 mm	7 211 012
Ø 9 x 70 mm	7 211 013
Ø 10 x 80 mm	7 211 014

Magnetic stirrer bar

- cylindrical with ring
- PTFE
- with permanent magnet



Ø x Length	Order number
Ø 3 x 8 mm	7 212 001
Ø 5 x 12 mm	7 212 002
Ø 5 x 15 mm	7 212 003
Ø 6 x 20 mm	7 212 004
Ø 6 x 25 mm	7 212 005
Ø 6 x 30 mm	7 212 006
Ø 6 x 35 mm	7 212 007
Ø 7 x 40 mm	7 212 008
Ø 8 x 45 mm	7 212 009
Ø 8 x 50 mm	7 212 010
Ø 9 x 60 mm	7 212 011
Ø 9 x 70 mm	7 212 012

Magnetic stirrer bar set

- 13 different bars + 1 bar retriever (Ø 10 x 150 mm)
- PTFE
- with permanent magnet

Ø x Length	Shape	Order number
Ø 10 x 6 mm	cylindrical	7 213 112
Ø 4.5 x 15 mm		
Ø 6 x 20 mm		
Ø 6 x 25 mm		
Ø 6 x 30 mm		
Ø 8 x 40 mm		
Ø 8 x 50 mm		
Ø 9 x 60 mm		
Ø 4.5 x 15 mm	cylindrical with ring	
Ø 6 x 25 mm		
Ø 8 x 40 mm		
Ø 8 x 25 mm	oval	
Ø 14 x 40 mm		

Magnetic stirrer bar

- oval (especially for round bottom flasks)
- PTFE
- with permanent magnet



Ø x Length	Order number
Ø 10.5 x 20 mm	7 214 001
Ø 12 x 25 mm	7 214 002
Ø 15 x 30 mm	7 214 003
Ø 15 x 35 mm	7 214 004
Ø 20 x 40 mm	7 214 005
Ø 20 x 50 mm	7 214 006
Ø 20 x 65 mm	7 214 007
Ø 20 x 71 mm	7 214 008

Magnetic stirrer bar

- triangular
- PTFE
- with permanent magnet



Ø x Length	Order number
Ø 8 x 12 mm	7 213 001
Ø 8 x 25 mm	7 213 002
Ø 10 x 35 mm	7 213 003
Ø 12 x 50 mm	7 213 004

Magnetic stirrer bar

- cylindrical
- borosilicate glass coated
- with permanent magnet



Ø x Length	Order number
Ø 8 x 20 mm	7 211 019 G
Ø 8 x 25 mm	7 211 020 G
Ø 10 x 30 mm	7 211 021 G
Ø 12 x 40 mm	7 211 009 G

Magnetic stirrer bar retrievers

- magnet only at one end
- PTFE

Ø x Length	Order number
Ø 10 x 150 mm	7 218 001
Ø 10 x 250 mm	7 218 002
Ø 10 x 300 mm	7 218 003
Ø 10 x 350 mm	7 218 004
Ø 10 x 400 mm	7 218 005

