

Мешалки магнитные с подогревом MS-H-Pro+, MS7-H550-S, MS10-H500-Pro, MS-H280-B, MS-H280-F, MS-H220, цифровые магнитные мешалки, 4-позиционные, 6-позиционные мешалки MS-PB, MC-M-C4

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Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: dbe@nt-rt.ru || сайт: <http://dlab.nt-rt.ru/>

MS-H-PRO^A

LCD Digital Magnetic Hotplate Stirrer

Three heating models for selecting
(fast heating, standard heating and stable heating)

MS-H-PRO⁺

LCD Digital Magnetic Hotplate Stirrer

MS-H-Pro^T

LCD Digital Magnetic Hotplate Stirrer with Timer

MS-H-S

Analog Magnetic Hotplate stirrer



Features

- Brushless DC motor is maintenance free and explosion-proof
- Digital temperature control up to 340°C
- Digital speed control up to 1500rpm
- Maximum stirring quantity of H₂O is 20L
- Safety circuits provide overheating protection
- "HOT" warning flashes if plate temperature is above 50°C even when hotplate is turned off
- Wide range timer function from 1 min to 99h 59min (MS-H-Pro^T only)
- High-resolution LCD display shows actual temperatures and speed (MS-H-Pro^T displays the time)
- External temperature control is possible by connecting the temperature sensor (PT 1000) with accuracy at $\pm 0.2^{\circ}\text{C}$
- Work plate with ceramic coating provides good chemical-resistant performance
- Remote function provides PC control and data transmission
- Wide variety of accessories available to choose

Security

- International safety certification: CE, CTÜVus, FCC and other product safety cert, certifications issued by TUV Rheinland
- Safety circuits provide overheating protection
- "HOT" warning flashes if the work plate temperature is above 50°C
- DC brushless motor free of maintenance and spark, and with long service life
- Fully enclosed aluminum alloy housing with good heat dissipation performance and reliable protection capability

Specifications	MS-H-Pro ^A	MS-H-PRO ⁺	MS-H-PRO ^T	MS-H-S	MS-H380-Pro	MS-H280-Pro
Work plate Dimension [W x D]	Ø135mm (5 inch)	Ø135mm (5 inch)	Ø135mm (5 inch)	Ø135mm (5 inch)	140x140mm	Ø135mm (5 inch)
Work plate material	Aluminum cover with ceramic coating	stainless steel cover with ceramic coating	stainless steel cover with ceramic coating	stainless steel cover with ceramic coating	Aluminum cover with ceramic coating	stainless steel cover with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Stirring positions	1	1	1	1	1	1
Max. stirring quantity, [H ₂ O]	20L	20L	20L	20L	5L	3L
Max. magnetic bar [length]	80mm	80mm	80mm	80mm	50mm	50mm
Speed range	100-1500rpm resolution $\pm 1\text{rpm}$	100-1500rpm resolution $\pm 1\text{rpm}$	100-1500rpm resolution $\pm 1\text{rpm}$	0-1500rpm	200-1500rpm	200-1500rpm
Speed display	LCD	LCD	LCD	Scale	LCD	LED
Temperature display	LCD	LCD	LCD	Scale	LCD	LED
Heating temperature range	Room temp.-340°C, increment 1°C	Room Temp.-340°C, increment 1°C	Room Temp.-340°C, increment 1°C	Room Temp.-340°C	Room Temp-380°C	Room Temp-280°C
Heating liquid temperature control accuracy	$\pm 1^{\circ}\text{C}$ (<100°C) $\pm 1\%$ (>100°C)	$\pm 1^{\circ}\text{C}$ (<100°C) $\pm 1\%$ (>100°C)	$\pm 1^{\circ}\text{C}$ (<100°C) $\pm 1\%$ (>100°C)	-	$\pm 1^{\circ}\text{C}$ (<100°C) $\pm 1\%$ (>100°C)	$\pm 1^{\circ}\text{C}$ (<100°C) $\pm 1\%$ (>100°C)
Overheating temperature protection	420°C	420°C	420°C	420°C	420°C	320°C
Temperature display accuracy	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	-	$\pm 0.1^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000 (accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000 (accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000 (accuracy $\pm 0.2^{\circ}\text{C}$)	-	PT1000 (accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000 (accuracy $\pm 0.2^{\circ}\text{C}$)
"Hot" warning	50°C	50°C	50°C	-	-	50°C
Data connector	RS232	RS232	RS232	-	-	-
Protection class	IP21	IP21	IP21	IP21	IP21	IP42
Timer function	1min to 99h59min	-	1min to 99h59min	-	-	-
Motor rating output	10W	10W	10W	10W	1.8W	3W
Power	720W	550W	550W	530W	510W	515W
Heating output	600W	500W	500W	500W	500W	500W
Voltage, Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	280x160x100mm	160x280x100mm	160x280x100mm	160x280x100mm	320x180x108mm	150x260x100mm
Weight	2.8kg	2.8kg	2.8kg	2.8kg	2.2kg	1.8kg
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH



External sensor



RS232 connector



Wide range of accessories



Chemical resistance



Brushless DC motor

MS10-H500-Pro

LCD Digital Magnetic Hotplate Stirrer With 10 Inch Ceramic Plate



Features

- Large volume: Up to 30L of liquid on 10-inch hot plate with powerful magnetic stirring
- Glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- LCD display for precise monitoring of speed and temperature. External temperature control is possible by connecting the temperature sensor (PT1000) with an accuracy at $\pm 0.2^{\circ}\text{C}$
- Digital speed control of 100 ~ 1500rpm
- Max. heating plate temperature 500°C
- The “HOT” warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Data connector: The SD card records the instrument's running data in real time.
- Timing function: the running time of the instrument can be set.

Specifications	MS10-H500-Pro	MS7-H550-Pro	MS7-H550-S
Work plate Dimension [W x D]	254x254mm (10 inch)	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Brushless DC motor	Shaded pole motor
Stirring positions	1	1	1
Max. stirring quantity, [H ₂ O]	30L	20L	10L
Max. magnetic bar[length]	80mm	80mm	80mm
Speed range	100-1500rpm, resolution $\pm 1\text{rpm}$	100-1500rpm, resolution $\pm 1\text{rpm}$	0-1500rpm
Speed display	LCD	LCD	Scale
Temperature display	LCD	LCD	LED
Heating temperature range	Room Temp.- 500°C , increment 1°C	Room Temp.- 550°C , increment 1°C	Room Temp.- 550°C , increment 5°C
Temperature control accuracy	$\pm 1^{\circ}\text{C}$ ($<100^{\circ}\text{C}$) $\pm 1\%$ ($>100^{\circ}\text{C}$)	$\pm 1^{\circ}\text{C}$ ($<100^{\circ}\text{C}$) $\pm 1\%$ ($>100^{\circ}\text{C}$)	$\pm 10^{\circ}\text{C}$
Overheating protection	540°C	580°C	580°C
Temperature display accuracy	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000(accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000(accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000(accuracy $\pm 0.2^{\circ}\text{C}$)
"Hot" warning	50°C	50°C	50°C
Data connector	SD card	RS232	-
Protection class	IP20	IP21	IP21
Motor rating output	10W	10W	1.5W
Power	1700W	1050W	1030W
Heating output	1500W	1000W	1000W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	328x424x138mm	215x360x112mm	215x360x112mm
Weight	7.2kg	5.3kg	4.5kg
Timer function	1min-99h59min	-	-
Permissible ambient temperature and humidity	$5-40^{\circ}\text{C}$,80%RH	$5-40^{\circ}\text{C}$,80%RH	$5-40^{\circ}\text{C}$,80%RH



Overheating protection



External sensor



Chemical resistance



Wide range of accessories

MS7-H550-Pro

**LCD Digital Magnetic Hotplate Stirrer
With 7 Inch Ceramic Plate**

MS7-H550-S

**LED Magnetic Hotplate Stirrer
With 7 Inch Ceramic Plate**



Features

- LCD displays actual temperature & speed
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Maximum heating plate temperature up to 550°C
- Glass ceramic work plate is resistant to corrosion and is easy to clean
- External temperature control is possible by connecting temperature sensor (PT1000) with an accuracy of $\pm 0.2^{\circ}\text{C}$
- Digital speed control with maximum range of 1500rpm
- Outstanding brushless DC motor offers more stirring power
- Two knobs enable easy adjustment of speed and temperature
- "HOT" warning flashes when work plate temperature is above 50°C even when hotplate is turned off
- Remote function provides PC control and data transmission

Specifications	MS10-H500-Pro	MS7-H550-Pro	MS7-H550-S
Work plate Dimension [W x D]	254x254mm (10 inch)	184x184mm (7 inch)	184x184mm (7 inch)
Work plate material	Glass ceramic	Glass ceramic	Glass ceramic
Motor type	Brushless DC motor	Brushless DC motor	Shaded pole motor
Stirring positions	1	1	1
Max. stirring quantity, [H ₂ O]	30L	20L	10L
Max. magnetic bar[length]	80mm	80mm	80mm
Speed range	100-1500rpm, resolution $\pm 1\text{rpm}$	100-1500rpm, resolution $\pm 1\text{rpm}$	0-1500rpm
Speed display	LCD	LCD	Scale
Temperature display	LCD	LCD	LED
Heating temperature range	Room Temp.-500°C, increment 1°C	Room Temp.-550°C, increment 1°C	Room Temp.-550°C, increment 5°C
Temperature control accuracy	$\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 1\%(>100^{\circ}\text{C})$	$\pm 1^{\circ}\text{C}(<100^{\circ}\text{C}) \pm 1\%(>100^{\circ}\text{C})$	$\pm 10^{\circ}\text{C}$
Overheating protection	540°C	580°C	580°C
Temperature display accuracy	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	$\pm 1^{\circ}\text{C}$
External temperature sensor	PT1000(accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000(accuracy $\pm 0.2^{\circ}\text{C}$)	PT1000(accuracy $\pm 0.2^{\circ}\text{C}$)
"Hot" warning	50°C	50°C	50°C
Data connector	SD card	RS232	-
Protection class	IP20	IP21	IP21
Motor rating output	10W	10W	1.5W
Power	1700W	1050W	1030W
Heating output	1500W	1000W	1000W
Voltage,Frequency	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz	100-120/200-240V, 50/60Hz
Dimension [WxDxH]	328x424x138mm	215x360x112mm	215x360x112mm
Weight	7.2kg	5.3kg	4.5kg
Timer function	1min-99h59min	-	-
Permissible ambient temperature and humidity	5-40°C, 80%RH	5-40°C, 80%RH	5-40°C, 80%RH



Overheating protection



External sensor



Chemical resistance



Wide range of accessories



MS-H220-V3/MS H220-V5 LCD Digital Heating Magnetic Stirring Bath

- Safety lock to prevent accidental changes in operational status.
- Buzzer: A “beep beep beep” alert sounds when the countdown timer function ends. Button tone.
- Features a timer function with a range of 1 min to 99h59min. It stops heating when the countdown ends but continues stirring to prevent heat damage to the sample.
- Touch buttons with audible prompts.
- Working status indicator light: Green during operation, flashing green before reaching set temperature; alarm red.
- Reversible function.
- Protection features: dry burning protection, overcurrent protection, ground fault protection, and over temperature protection.
- Residual heat warning function. When the plate temperature is above 50℃ , heating is turned off, and the screen flashes “HOT” as a reminder of the high temperature even after the power is off.
- Two independent safety circuits continuously monitor the device. In case of overheating, sensor failure, or circuit short, the machine will error report and stop heating or automatically cut off power to ensure operator safety.
- DC brushless motor, spark-free, long life; low noise, maintenance-free, stable operation.
- LCD displays speed, time, and temperature parameters clearly and intuitively.

Model: MS-H220-V3

MS-H220-V5

PRODUCT PARAMETERS

Cat.No.	8030324118
Work plate Dimension	Ø220×105mm
Work plate material	High borosilicate glass + stainless steel base
Max. stirring quantity [H2O]	3L
Speed range	100~1500rpm, ±10rpm
Speed display	LCD
Temperature display	LCD
Heating temperature range	Room Temp.-220℃
Temperature control accuracy	±1℃
Temperature display accuracy	0.1℃
"Hot" warning	50℃
Overheating temperature protection	350℃
Motor type	Brushless DC motor
Stirring positions	1
Max. magnetic bar length	40mm
Timer function	1min-99h59min
Protection class	IP21
Motor rating output	20W
Power	900W
Heating output	850W
Voltage,Frequency	100-120V,60Hz; 200-240V,50Hz
Dimension [WxDxH]	343×215×283mm
Weight	6.0kg
Permissible ambient temperature	5-40℃
Permissible ambient humidity	80%RH

MS-H280-B100/250/500/1000& MS-H280-F100/250/500/1000

LCD Digital Magnetic Stirrer with Electric Heating Mantle



Heating Mantle model	HB100	HB250	HB500	HB1000	HF100	HF250	HF500	HF1000
Picture								
Specification	Beaker	Beaker	Beaker	Beaker	Flask	Flask	Flask	Flask
Capacity	100mL	250mL	500mL	1000mL	100mL	250mL	500mL	1000mL
Heating Mantle Inner Diameter	54.75mm	72.75mm	89.75mm	118.75mm	72.75mm	89.75mm	118.75mm	144.75mm

Advantages

- The smart magnetic stirrer can be flexibly set up with inter-changeable heating sleeves for 100mL, 250mL, 500mL, 1000mL round-bottom flask, or 100mL, 250mL, 500mL, 1000mL flat bottom beakers.
- Even more flexible configurations: as one heating magnetic stirrer, or as one heating sleeve plus one magnetic stirrer.
- Temperature self calibration function for higher temperature accuracy.
- Heating sleeve made of high-quality Aluminum silicate fiber cotton with accurate temperature control, uniform heating and corrosion resistance.
- Strengthened magnetic fields with enhanced stirring power.
- Fireproof metal outcast with higher safety level.
- Explosion-proof DC brushless motor free of maintenance and spark, and with long service life.
- The “HOT” warning will flash if the work plate temperature is above 50°C even when the hotplate is turned off, as long as the power cable is connected.
- Two independent safety circuits are designed to continuously monitor the equipment. When the sensor malfunctions and overheating occurs, an error code will be generated and the stirrer will stop heating. When the first safety circuit is shorted, the second safety circuit will cut off the power supply to ensure the safety of the operator

Applications

Magnetic stirrer with heating sleeve is a very popular product for laboratories in scientific research, industry and mining, food processing, biochemistry, agriculture, petrochemical, pharmaceutical, and educational aspect. It is used for heating and incubation of liquids at a certain temperature. It provides fast and uniform heating with highly precise temperature control and strong stirring power. It can serve as a magnetic stirrer with heating sleeve, or as a magnetic stirrer and a heating sleeve .



Specification

Model number	MS-H280-B100/250/500/1000	MS-H280-F100/250/500/1000
Motor type	Brushless DC motor	Brushless DC motor
Speed range [rpm]	200-1500rpm	200-1500rpm
Speed control accuracy [rpm]	±20rpm	±20rpm
Speed display	LCD	LCD
Temperature display	LCD	LCD
Temperature control range [°C]	25-280°C	25-280°C
“Hot” warning	50°C	50°C
Overheat protection [°C]	420°C	420°C
Temperature display accuracy [°C]	±0.1°C	±0.1°C
Heating liquid temperature control accuracy	±1°C(<100°C), ±1%(>100°C)	±1°C(<100°C), ±1%(>100°C)
External temperature sensor	PT1000 (accuracy ±0.2°C)	PT1000 (accuracy ±0.2°C)
Protection class	IP21	IP21
Motor output power [W]	1.8W	1.8W
Heating power [W]	210W/240W/380/440W	210W/240W/380/440W
Voltage, Frequency	100-120V,60Hz;200-240V,50Hz	100-120V,60Hz;200-240V,50Hz
Dimension [WxDxH]	295X160X160mm	295X160X160mm
Weight	3.7Kg	3.7Kg
Permissible ambient temperature	5-40°C	5-40°C
Permissible ambient humidity	80%	80%
Compatible containers	100mL、250mL、 500mL 、 1000mL flat bottom beakers	100mL、 250mL、 500mL、 1000mL round bottom flasks



MS-PA

LED Digital Magnetic Stirrer

Features

- Digital speed control within the range of 0-1500rpm
- Maximum stirring quantity of H₂O at 3L
- LED display shows stirring speed (MS-PA)



MS-PB

Magnetic Stirrer



Specifications	MS-PA	MS-PB
Work plate Dimension	Ø135mm (5 inch)	Ø135mm (5 inch)
Work plate material	Nylon+GF	Nylon+GF
Motor type	Brushless DC motor	Brushless DC motor
Stirring positions	1	1
Max. stirring quantity[H ₂ O]	3L	3L
Max.magnetic bar[length]	50mm	50mm
Speed range	200-1500rpm	0-1500rpm
Speed display	LED	scale
Protection class	IP42	IP42
Motor output Power	3W	3W
Power	15W	10W
Voltage,Frequency	100-240V, 50/60Hz	100-240V, 50/60Hz
Dimension[WxDxH]	150x260x80mm	150x260x80mm
Weight	1.8kg	1.8kg
Permissible ambient temperature and humidity	10-40°C, 80%RH	5-40°C, 80%RH



Strong magnetism



Chemical resistance



LED display

MS-H280-S4/ MS-M-S4/ MS-H280-S6/ MS-M-S6

4/6 Channel LCD Digital Hotplate Magnetic Stirrer



Features

- 4/6 channels with independently control of start/stop, temperature, speed and display for better parallel experiment control.
- Ceramic coating aluminum work plate with fast heat transmission and strong resistance to corrosion.
- Powerful, rapid heating with accurate PID temperature control
- Spark-free DC brushless motor with extended life and no maintenance
- Compatible with various heating block or reaction vessels for a variety of application scenario
- Ultra space-saving with 4/6 channel integrated in one instrument
- “HOT” warning flashes on the LCD display if the work plate temperature is above 50°C after the user turn off the power switch.
- Two independent safety circuits keep monitoring the instrument. When overheating is detected and the sensor malfunctions, it will stop heating and sound alarm; When short circuit is detected, it will cut off the power to ensure the human safety.
- Reliable safety mechanism, compliant to IEC61010-1\UL61010-1\BSEN61010-1\CAN\CSA-C22.2NO.61010-1 and all other safety regulations of laboratory heating devices, competent with tasks without human surveillance.

Applications

The 4/6 channel hotplate magnetic stirrers are designed for parallel experiment and multiple parameter optimization, thus can serve as handy tools for Kjeldahl nitrogen determination, Soxhlet extraction and parallel synthesis, etc. They are ideal choices for test laboratories in food, animal feed, textile, soil, sewage, water treatment, pharmaceutical, polymerization, petroleum products, resin and plastic sectors. The user can handle 4 or 6 tests at the same time with stable performance, good reproducibility, high accuracy and easy operation.



MS-H280-S4



MS-H280-S6



MS-M-S4



MS-M-S6

The design of 4/6 channel hotplate magnetic stirrers aim to turn your laboratory into a space-saving, safe, highly efficient, tidy and neat benchmark among peers. They are well recognized by higher education, pharmaceutical manufacturer, biotech company, research institute and food manufacturer as an eco-friendly magnetic stirrer for synthesis.

Specifications	MS-H280-S4	MS-M-S4	MS-H280-S6	MS-M0S6
Work plate dimension	Ø134mm	Ø134mm	Ø134mm	Ø134mm
Work plate material	Aluminum with ceramic coating	Aluminum with ceramic coating	Aluminum with ceramic coating	Aluminum with ceramic coating
Motor type	Brushless DC motor	Brushless DC motor	Brushless DC motor	Brushless DC motor
Motor rating output	5WX4	5WX4	5WX6	5WX6
Heating power	600WX4	-	600WX6	-
Total power	605WX4	5WX4	605WX6	5WX6
Voltage, Frequency	100-120V,60Hz; 200-240V,50Hz	100-240V,50/60Hz	100-120V, 60Hz; 200-240V,50Hz	100-240V,50/60Hz
Stirring positions	4	4	6	6
Max. stirring quantity (H ₂ O)	3LX4	3LX4	3LX6	3LX6
Max. stirring quantity (H ₂ O) per channel	3L	3L	3L	3L
Max. magnetic bar [length]	40mm	40mm	40mm	40mm
Speed range	200-1500rpm	200-1500rpm	200-1500rpm	200-1500rpm
Speed control accuracy [rpm]	±20	±20	±20	±20
Speed display	LCD	LCD	LCD	LCD
Temperature display	LCD	LCD	LCD	LCD
Heating temperature range	25-280°C	-	25-280°C	-
Overheating protection	420°C	-	420°C	-
Temperature display resolution	0.1°C	-	0.1°C	-
Temperature control accuracy	±1°C(<100°C), ±1%(>100°C)	-	±1°C(<100°C), ±1%(>100°C)	-
External temperature sensor	PT1000 (accuracy±0.2°C)	-	PT1000 (accuracy±0.2°C)	-
IP protection class	IP21	IP21	IP21	IP21
Dimensions (WxDxH)	701X265X127mm	701X265X127 mm	564X523X127 mm	564X523X127 mm
Weight	8.7Kg	8.7Kg	12.7Kg	12.7Kg
Permissible ambient temperature and humidity	5~40°C, 80% RH	5~40°C, 80% RH	5~40°C, 80% RH	5~40°C, 80% RH



Алматы (727)345-47-04
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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: dbe@nt-rt.ru || сайт: <http://dlab.nt-rt.ru/>