

Wisdom 120 × 120 Mini Hi-Quality Digital Magnetic Stirrer "MS-12D", Max. 2,500rpm **NEW**

With Tempered Glass Plate & PP Housing, BLDC-motor, Digital LED Display, Waterproof, Max. 2Lit(H₂O), 소형 디지털 자력교반기



120 × 120mm Mini Magnetic Stirrer "MS-12D"

- Made in Korea
- PL (Product Liability) Insurance
- High Performance Brushless DC-motor : High Efficiency Stirring Performance and Precise Speed Control (Minimize RPM Fluctuation), Low Maintenance Cost.
- Outstanding Chemical Resistance due to Tempered Glass Plate (120 × 120mm) and PP Housing
- Higher Speed Range from 100 ~ 2,500 rpm
- Waterproof Structure
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- * Digital Speed LED Display.
- * Electronically Controlled Motor for more Capacity
- * Includes 1ea × 3cm Stirring Bar
- * Can be used with up to 5cm bar

Specifications & Ordering information

Spec.	Models	"MS-12D" 120 × 120mm Plate
Stirring Capacity		Max. 2Lit (H ₂ O)
Motor Rating(Input/Output)		6 / 3W
Speed Range & Motor		100~2,500rpm, High Performance Brushless DC-motor
Controller & Display		Digital PID Control with Jog-knob & Digital LED display
Stirring Bar		3cm bar-included, Usable : up to 5cm bar
Material		Tempered Glass Plate(5mm thick) & PP Housing
Dimension		Plate : 120 × 120mm, Body : 136 × 136 × h50.5mm
Weight		0.5kg
Electrical Reqts.		DC 12V, with AC 230V Adapter, 50/60Hz
Cat. No.	230V	DH.StiM012
	120V	DH.StiM012.1
Price, Set. W		

Wisdom 180 × 180 Midi Hi-Quality Digital Magnetic Stirrer "MS-18D", Max. 2,500rpm **NEW**

With Tempered Glass Plate & PP Housing, BLDC-motor, Digital LED Display, Waterproof, Max. 5Lit(H₂O), 미디 디지털 자력교반기



180 × 180mm Midi Magnetic Stirrer "MS-18D"

- Made in Korea
- PL (Product Liability) Insurance
- High Performance Brushless DC-motor : High Efficiency Stirring Performance and Precise Speed Control (Minimize RPM Fluctuation), Low Maintenance Cost.
- Outstanding Chemical Resistance due to Tempered Glass Plate (180 × 180mm) and PP Housing
- Higher Speed Range from 100 ~ 2,500 rpm
- Waterproof Structure
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- * Digital Speed LED Display.
- * Electronically Controlled Motor for more Capacity
- * Includes 1ea × 3cm Stirring Bar
- * Can be used with up to 5cm bar

Specifications & Ordering information

Spec.	Models	"MS-18D" 180 × 180mm Plate
Stirring Capacity		Max. 5Lit (H ₂ O)
Motor Rating(Input/Output)		12 / 6W
Speed Range & Motor		100~2,500rpm, High Performance Brushless DC-motor
Controller & Display		Digital PID Control with Jog-knob & Digital LED display
Stirring Bar		3cm bar-included, Usable : up to 5cm bar
Material		Tempered Glass Plate(5mm thick) & PP Housing
Dimension		Plate : 180 × 180mm, Body : 193 × 193 × h80.5mm
Weight		1.6kg
Electrical Reqts.		DC 12V, with AC 230V Adapter, 50/60Hz
Cat. No.	230V	DH.StiM018
	120V	DH.StiM018.1
Price, Set. W		

DAIHAN® Standard Digital & Analog Magnetic Stirrer “MS-20”, 180×180mm Ceramic-Coated Plate, Max. 1,500rpm
With Precise Speed Control, with Certi. & Traceability, Max. 20 Lit, 디지털/아날로그 자력교반기, 세라믹 코팅 플레이트



A. Digital Magnetic Stirrer “MS-20D”



B. Analog Magnetic Stirrer “MS-20A”

Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC !!

AC → Stable DC !!

SSR (Solid State Relay)-Non Contact
No Electronic Harm!
Realize **Long Life Cycle!**

High Stability in Very Low & High-speed

General Phase Control
Use with AC !!
(Very sensitive Point)

General analog control

PWM Control
Use with DC !!
(Super linearity)

DAIHAN Realize **Stable & Easy to Use!**

Specialized Features of “MS-20A”

- Made in Korea
- CE Certified
- PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System

■ Ceramic Coated Plate-Chemical/Acid Resistance

- * Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- * Mixing for Chemical, Laboratory, Pharmaceutical Materials
- * Smart Design of Body made by Aluminum Die-Casting
- * Powerful Motor for Stirring Quantities of up to 20Lit (Water)
- * Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS

A. Digital Microprocessor Control System “MS-20D”

■ Digital Feedback Control by High-Performance Microprocessor

■ Patented Jog-Shuttle Control System

- * Digital LCD Display with Back-Light Function
- * Storage function for the set values : RPM and Time
- * Digital Timer Function : 99hr 59min(with Continuous run.)
- * Alarm Function : Error Status and Timer-End
- * Locking Mode Supported for Experimental Safety (Jog-shuttle input blocked)

B. Analog PWM Control System “MS-20A”

- * Superior Linearity for the Control of Stirring Speed by Specially Designed Control Circuitry (PWM Control)
- * Long Life Power & Mechanism
- * High Stability in Very Low & High-speed

Specifications & Ordering information

Spec.	Model	A. “MS-20D” Digital-type	B. “MS-20A” Analog-type
Plate Size		180×180mm	
Stirring Capacity (H ₂ O)		Max. 20Lit	
Speed Range		80 ~ 1,500 rpm	Max. 1,500 rpm
Motor Rating		9 / 4 W	
Speed Accuracy (%)		± 5	-
Speed Control Resolution		5 rpm	-
Timer & Alarm		99hr 59min, Error status & Timer-end	-
Display		Digital LCD with Back-Light	-
Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)	Superior Linearity PWM Controller
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Ambient Temp.		Room Temp. +5 ~ 50℃	
Permissible Relative Moisture		85%	
Material	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance)	
	Body	Powder Coated Aluminum	
Dimension (w×d×h)		206×307×99mm	
Weight (kg)		3.1 kg	
Packing Size (w×d×h) & Gross Weight		280×400×200mm 5 kg	
Power Consumption		10 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80 ~ 240 V, 50 / 60 Hz)	
Cat. No.	230V	DH.WMS03022	DH.WMS03122
	120V	DH.WMS02022	DH.WMS02122
Price, Each. ₩			

* Other Specifications are available upon Customer's Request.



Optional Stand Rod/Holder/Clamp/Clip

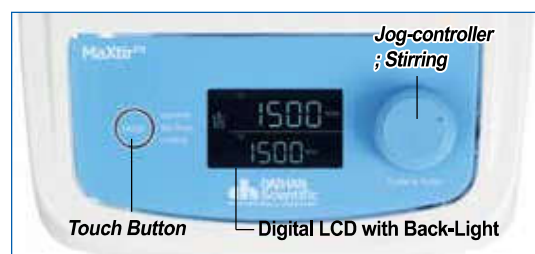
- DH.WHP503036 (1) Stand Rod “RD200”, Stainless-steel, screw,
φ 12×L450mm, for “MS-20A/20D”
- DH.WHP503012 (2) Holder/Clamp/Clip, “CL220”, for Temp. Probe

Ea. Price, ₩

DAIHAN® Premium Magnetic Stirrer “MaXtir™ MS500”, Shade Motor, Max. 80~1,500 rpm, Max 20Lit
 With Large LCD, Solid Ceramic Glass Plate, 200×200mm, Touch-button Controller, Digital Feedback Control, Precise Speed Control
 고성능 디지털 자력 교반기, 디지털 피드백 제어, 초강력 쉐이드 모터



Premium Digital Magnetic Stirrer “MaXtir™ MS500”



Controller of “MaXtir™ MS500”



- Made in Korea ■ Ergonomic Design
- PL (Product Liability) Insurance
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Digital Feedback Control by High-Performance Microprocessor
- Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control
- High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean
- Large LCD display for Current and Speed, and Timer
- Patented Controller “Jog-Dial” and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate.
- * Mixing for Chemical, Laboratory, Pharmaceutical Materials
- * Storage Function for the set Values : RPM and Timer
- * Minimization of Noise and Improved the Product Life
- * Use of the Special Advanced Insulation for the safety of the Body Temp.
- * Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)
- * Large LCD with Back Light Function
- * Digital Timer Function(99hr 59min)
- * Ergonomic Design of Body made by Aluminum Die-casting

Specifications & Ordering information

Spec.		Model	“MaXtir™ MS500”
Material	Body	Powder Coated Aluminum	
	Plate	Solid Ceramic Glass Plate, 200 × 200mm	
Stirring Capa.			Max. 20 Lit
Speed & Control Resolution			80 ~ 1,500 rpm, 5 rpm
Timer & Alarm			99hr 59min (with Continuous run.), Error status & Timer-end
Display			Large Digital LCD with Back-Light Function
Controller			Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.
Stirring Bar			3cm bar-included, Usable : up to 5cm bar
Permissible Temp. & RH %			Room Temp. +5 ~ 50 °C, 85% RH
Dimension & Weight			200 × 332 × h114mm, 3.8kg
Electrical Reqts.			1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.WMS00500	
	120V	DH.WMS00501	
Price, Each. ₩			

* Other Specifications are available upon Customer's Request.

Optional Stand Rod/Holder/Clamp/Clip

- DH.WHP503036 (1) Stand Rod, “RD200”, Stainless-steel, screw, φ 12 × L450mm
 DH.WHP503012 (2) Holder/Clamp/Clip, “CL220”, for Temp. Probe

Ea. Price, ₩

DAIHAN® Digital Multi-point Magnetic Stirrer “MS-MP”, 4-/8-Points, Max. 500ml per Point
 With Digital Feedback Control System, Digital LCD Display, Synchronous Operation, 80~1,200 rpm, with Certi. & Traceability
 4-/8-멀티포인트 디지털 자력교반기, 디지털 피드백 컨트롤 시스템



A. Digital 4-Point Magnetic Stirrer “MS-MP4”



B. Digital 8-Point Magnetic Stirrer “MS-MP8”

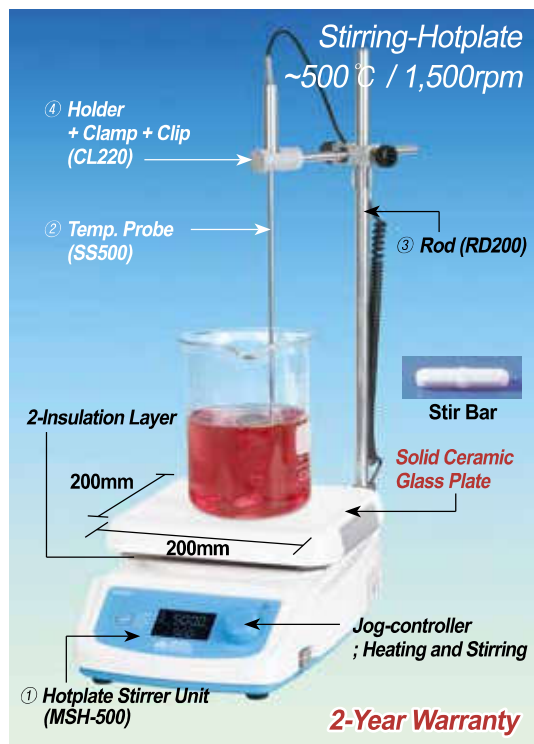
- **Made in Korea** ■ **CE Certified** ■ **PL(Product Liability) Insurance**
- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Ideally Suitable for Use in Incubators and Climatic Chambers**
- **Excellent for Multi-use and wide range of Sample Testing**
- **Patented Jog-Shuttle Control System**
- * Ideal for Heat-sensitive Procedures such as Microbiology and Biochemistry Applications
- * Synchronous Operation of 4 / 8 Stirring Points
- * Up to 0.5 Lit. Stirring Capacity per Point
- * Increased Effectiveness by Microprocessor Control
- * Digital LCD with Back-Light Function
- * Digital Timer Function (99 hr 59 min)
- * Smooth Start and Change of Stirring Speed
- * Storage Function for the Set Values : RPM and Timer
- * Extraordinary Mechanical, Physical and Chemical Resistance
- * Locking Mode supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- * Free Voltage (AC 80V ~ 240V, 50 / 60Hz) by SMPS

Specifications & Ordering information

Spec.	Model	A. “MS-MP4” 4 Stirring Points	B. “MS-MP8” 8 Stirring Points
Number of Stirring Points		4 (2×2) Stirring Points	8 (4×2) Stirring Points
Plate Size		208×215mm	208×415mm
Stirring Capacity (H ₂ O)		Max. 0.5 Lit per Point	
Distance between Stirring Points		100 mm	
Speed Range		80 ~ 1,200 rpm	
Motor Rating		16/9 W	
Speed Control Resolution		5 rpm	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch(Turn+Push)	
Stirring Bar		4ea 3cm bar-included, Usable : up to 3cm bar	8ea 3cm bar-included, Usable : up to 3cm bar
Permissible Ambient Temperature		Room Temp. +5 ~ 50℃	
Permissible Relative Moisture		85%	
Material	Plate	Stainless-steel (# 304)	
	Body	Power Coated Steel	
Dimension (w×d×h)		208×280×75mm	208×480×75mm
Weight		2.5 kg	3.5 kg
Others		CE Certified, PL(Product Liability) Insurance Storage Function (RPM, Timer) Locking Mode (Jog-Shuttle Input Disabled) Alarm (Error Status and Timer-end)	
Packing Size (w×d×h) & Gross Weight		300×330×180mm	330×540×180mm
Power Consumption		20 W	
Electrical Reqts.		Free Voltage (1 Phase, AC 80 ~ 240 V, 50 / 60 Hz)	
Cat. No.	230V	DH.WMS03036	DH.WMS03038
	120V	DH.WMS02036	DH.WMS02038
Price, Each. W			

• Other Specifications are available upon Customer's Request.

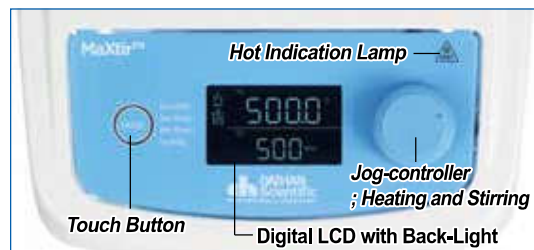
DAIHAN® 500°C High-Temp Premium Hotplate Stirrer “MaXtir™ MSH500”, Solid Ceramic Glass Plate, 200×200mm With Large LCD, Optimum Insulation Layer. Accurate Temp. Control, Touch-button Controller, Hot-Top Indicator, 80~1,500rpm 고온용 디지털 가열 자력 교반기, 최적의 방열구조, 디지털 피드백 온도 제어, 내열성/내화학성/내산성 솔리드 세라믹 글라스 플레이트



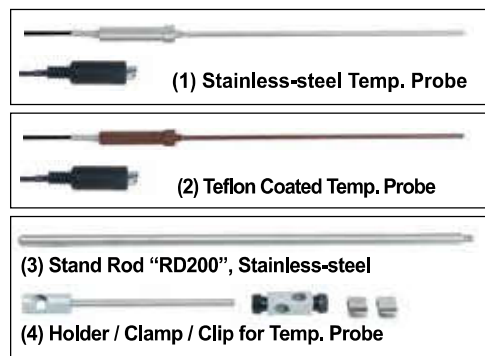
A. “MaXtir™ MSH500” Package-set



B. “MaXtir™ MSH500” Unit only



Controller of “MaXtir™ MSH500” model



- Made in Korea ■ PL(Product Liability) Insurance ■ Ergonomic Design
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean
- Optimum Insulation Fourfold Layer : BTU + Ceramic Paper + 2 SUS Insulation Layer
- Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control, Minimization Noise
- Maximum Temperature of 500°C ■ Microprocessor PID control
- Patented Controller “Jog-Dial” and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate with Back-Light Function
- 2 Internal K-type Temp. Sensor Operating Independently : 1 Temp. Control Sensor for Temperature Accuracy and 1 Over Temp. Detection Sensor for User Safety
- Hot Top Indicator LED Lamp : Hot Surface(Over 50°C) Warning Lamp for User Safety
- * Excellent for Sample Drying and most General Lab Heating Applications
- * User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. ($\pm 20.0^\circ\text{C}$)
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (Optional)
- * Storage Function for the set Values : Temp. and Timer
- * Minimization of Noise and Improved the Product Life
- * Use of the Special Advanced Insulation for the safety of the Body Temp.
- * Locking Mode Supported for Experimental Safety (Input to Jog-Dial can be Disabled)

Specifications & Ordering information

Spec.		Model	A. “MaXtir™ MSH500” (Package-set)	B. “MaXtir™ MSH500” (Unit Only)
Material	Body		Powder Coated Aluminum	
	Plate		Solid Ceramic Glass Plate, 200×200mm	
Stirring Capa.			Max. 20 Lit	
Speed & Control Resolution			80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy			Max. 500°C, $\pm 0.3^\circ\text{C}$ at Set Temperature	
Temp. Resolution			0.1 °C-Display, 0.5 °C-Control	
Temp. Uniformity			Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power / Consumption			850W	
Timer & Alarm			99hr 59min (with Continuous run.), Error status & Timer-end	
Display			Digital LCD with Back-Light Function	
Controller			Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.	
Stirring Bar			3cm bar-included, Usable : up to 5cm bar	
Safety Circuit			Over Temp. Protection, Hot Top Indicator LED Lamp	
included Standard Acc.			1ea Stir Bar, ②Temp. Probe ③Rod ④Holder+Clamp	1ea Stir Bar
Permissible Temp. & RH %			Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight			200×332×h114mm, 3.8kg	
Electrical Reqts.			1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug	
Cat. No.	230V		DH.WMH00500	DH.WMH01500
	120V		DH.WMH00501	DH.WMH01501
Price, Each. ₩				

* Other Specifications are available upon Customer's Request.

Component of Package-set

- * Package-set : ① Hotplate Stirrer Unit ② “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD200” Stainless-steel Support Rod $\phi 12 \times L450\text{mm}$ ④ “CL220” Holder+Clamp+Clip for External Temp. Probe

Optional External Temp Probe/Stand Rod/Holder/Clamp/Clip

	Ea.	Price, ₩
DH.WHP503060 (1) External / Direct Contact Temp. Probe, “SS500”, Stainless-steel, $\phi 4 \times L250\text{mm}$, Cable L190mm		
DH.WHP503061 (2) External / Direct Contact Temp. Probe, “SS510”, Teflon Coated, $\phi 4 \times L250\text{mm}$, Cable L190mm,		
DH.WHP503036 (3) Stand Rod “RD200”, Stainless-steel, $\phi 12 \times L450\text{mm}$, 1.5p screw, for “MaXtir™ MSH500”		
DH.WHP503012 (4) Holder/Clamp/Clip, “CL220”, for Temp. Probe		