

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



(1) Digital Magnetic Stirrer with Stir Bar “MS-20D”

- 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

(1) 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)

(2) 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



(2) Analog Magnetic Stirrer with Stir Bar “MS-20A”

Specifications & Ordering information

Spec.	Model	(1) “MS-20D”	(2) “MS-20A”
Plate Size (mm)		180×180	
Stirring Capacity (H <sub>2</sub> 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 Temperature		Room Temp. +5 ~ 50°C	
Permissible Relative Moisture		85%	
Material	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance)	
	Body	Powder Coated Aluminum	
Dimension (w×d×h) (mm)		206×307×99	
Weight (kg)		3.1 kg	
Packing Size (w×d×h) (mm) & Gross Weight		400×280×200	
		5 kg	
Power Consumption		10 W	
Electrical Reqs.		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 “HP-20A/20D”, “MSH-20A/20D”, and “SMHS”
- DH.WHP503012 (2) Holder/Clamp/Clip, “CL220”, for Temp. Probe

Ea. Price, ₩

**Long Life Power & Mechanism!**

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

Stable DC !!

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

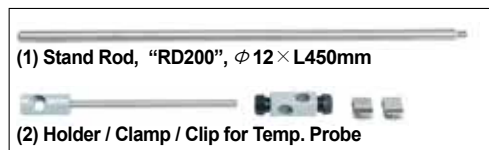
**High Stability in Very Low & High-speed**

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

PWM Control  
Use with DC !!  
(Super linearity)

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

Specialized Features of “MS-20A”



Optional Stand Rod / Holder / Clamp / Clip