

## DAIHAN® Digital Hotplate Stirrer, "MSH-D", Ceramic-Coated Plate, up to 380°C, ±0.3°C, with Certi. & Traceability with Digital Feedback Control, Accurate Temp. Control, 180×180mm- or 260×260mm- Plate, 80 ~ 1,500 rpm

- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Digital Feedback Control by High-Performance Microprocessor
- Patented Jog-Shuttle Control System
- CE Certified
- PL(Product Liability) Insurance

- \* 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
- \* Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled)
- \* Superior Temperature Uniformity : less than 10% on the Plate at Ambient Temperature

### Specification

Model		180×180mm Plate-type "MSH-20D"	260×260mm Plate-type "MSH-30D"
Material	Body	Powder Coated Aluminum	Powder Coated Steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Stirring Capa. & Motor Rating		Max. 20 Lit., 9 / 4 W	
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 380°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		600W	1.2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD Display with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Safety Circuit		Over Temp. Protection	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight		206×307×h99mm, 3.3kg	286×387×h99mm, 3.5kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Power Supply & Cord/Plug*		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug	

\* Other Specifications are available upon Customer's Request.

### Ordering Information

- \* "MSH-20D" Package-set : Complete with ① Hotplate Stirrer Unit, ② : "SS200" PT100 External / Direct Contact Temp. Probe, ③ "RD200" Stainless steel Support Rod  $\phi 12 \times L450\text{mm}$   
④ "CL220" Holder + Clamp for External Temp. Probe
- \* "MSH-30D" Package-set : Complete with ① Hotplate Stirrer Unit, ② : "SS100" PT100 External / Direct Contact Temp. Probe, ③ "RD100" Stainless steel Support Rod  $\phi 12 \times L450\text{mm}$   
④ "CL220" Holder + Clamp for External Temp. Probe

### With 180×180mm Plate-type, "MSH-20D" Package-set & Unit

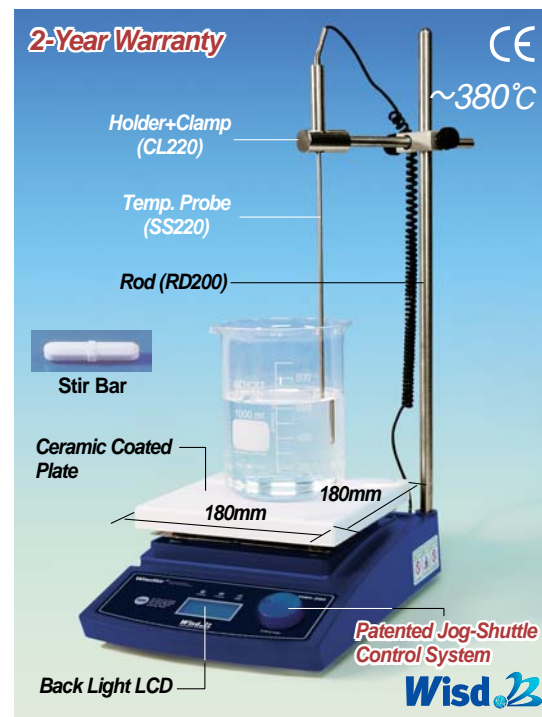
- DH.WMH03021 180×180mm Plate-type, Package-set, 230V, 120V  
 DH.WMH02021  
 DH.WMH03020 180×180mm Plate-type, Unit only, 230V, with stir bar  
 DH.WMH02020 120V, with stir bar

### With 260×260mm Plate-type, "MSH-30D" Package-set & Unit

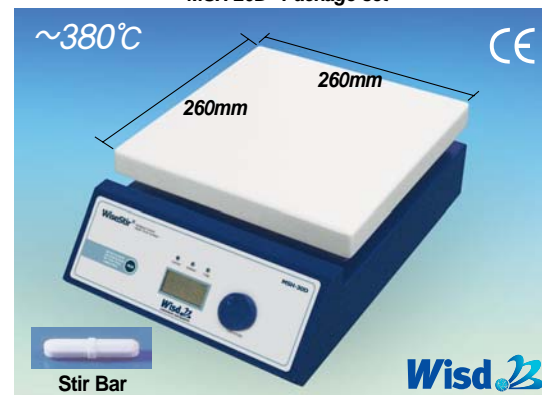
- DH.WMH03023 260×260mm Plate-type, Package-set, 230V, 120V  
 DH.WMH02023  
 DH.WMH03022 260×260mm Plate-type, Unit only, 230V, with stir bar  
 DH.WMH02022 120V, with stir bar

### Additional Function Accessories

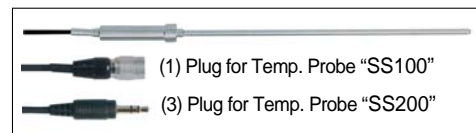
- DH.WHP503020 (1) External / Direct Contact Temp. Probe, "SS100", PT100, for HP-30D, MSH-30D and SMHS  
Probe  $\phi 4 \times L250\text{mm}$ , Cable L190cm
- DH.WHP503021 (2) External / Direct Contact Temp. Probe, "SS110", PT100, Teflon Coated, for HP-30D, MSH-30D, SMHS  
Probe  $\phi 4 \times L250\text{mm}$ , Cable L190cm
- DH.WHP503030 (3) External / Direct Contact Temp. Probe, "SS200", PT100, for HP-20D, MSH-20D, Probe  $\phi 4 \times L250\text{mm}$ , Cable L190cm
- DH.WHP503031 (4) External / Direct Contact Temp. Probe, "SS210", PT100, Teflon Coated, for HP-20D, MSH-20D  
Probe  $\phi 4 \times L250\text{mm}$ , Cable L190cm
- DH.WHP503011 (5) Stand Rod, "RD100", Stainless Steel,  $\phi 12.7 \times L390\text{mm}$   
for HP-30A/30D, MSH-30A / 30D, none Screw
- DH.WHP503036 (6) Stand Rod, "RD200", Stainless Steel,  $\phi 12 \times L450\text{mm}$   
for HP-20A / 20D, MSH-20A / 20D, MSH-50A / 55A,  
MSH-50D / 55D and SMHS, 1.5p Screw
- DH.WHP503012 (7) Holder/Clamp/Clip, "CL220", for Temp. Probe



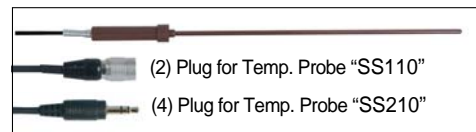
180×180mm Plate-type Digital Precise Hotplate  
"MSH-20D" Package-set



180×180mm Plate-type Digital Precise Hotplate  
"MSH-30D" Unit only



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe,  
Teflon Coated

