

Maximum Convenience by Advanced Digital Technology

# DAIHAN NEW Generation 500 °C High Temp. Digital Hotplate Stirrers

## Hotter! Stronger! **MaXtir™ 500** High-Temp Hotplate Stirrer



MSH-20D, launched in 2004 by DAIHAN Scientific, was the **1st Digital Hotplate Stirrer in the market** with temperature/rpm display, digital feedback control, timer function and simple external pt100 sensor connection. Though it's not made by IKA or by Corning, **80,000+** plates have been sold to the world-wide customers for the past 10 years, and **1,000** plates are still being sold every month. It is unbelievable, isn't it? How was it possible? Based on the philosophy of **User-Friendly Design** and **Cutting-Edge Digital Technology**, it offers **more functions and conveniences** for user's lab work, with lower cost, than others.

Added to the Unique User Convenient features of DAIHAN, the core performance of Hotplate stirrer, **Heating & Stirring**, is dramatically improved. Experiencing this **Max Convenience & Performance MaXtir™ 500**, nothing better than this is needed.

### »» Features

- High-quality Ceramic Glass Plate and High-Performance Heater for Max Temp 500° C.
- Superior Heat-/ Acid-/ Chemical-resistant Plate: Reduced damage on the Plate caused by high temperature and/or strong chemicals.
- Easy-to-Clean Plate
- Hot-top Indicator on the Control Panel ensures User Safety from a burn: The Indicator Lamp illuminates while temperature on the Plate Surface is over 50° C regardless power on/off.
- High-quality Insulation (BTU) ensures User Safety during operation at High Temperature.
- Brushless Shade Motor used: Strong & Precise Stirring, Minimized Noise, Long Life-time
- Two Independent Internal Temp. Sensor : Accurate Temp Control and Over-Temperature Protection.
- All New Design with the consideration of Safety, Convenience and Functionality
- New Jog-Dial and Capacitive Touch Button for User Convenience. (Patent No. : 10-0554098)



### »» New Jog - Dial & Capacitive Touch - Button Controller

Digital LCD with Back-light Function

Operating LED Lamp

Hot-TOP Indicator

Capacitive Touch Button

New Jog-Dial & Push Button



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## » High-quality Ceramic Glass Plate

Achieved the maximum temperature of 500° C by using High-quality Ceramic Glass Plate which can resist up to 700° C.

Superior Heat-/Acid-/Chemical-resistant and Easy-to-Clean Plate



## » Hot-top Indicator for User Safety

The Indicator Lamp illuminates while temperature on the Plate Surface is over 50° C regardless power on/off.

Prevention from a fire or a burn caused by operation at high temperature

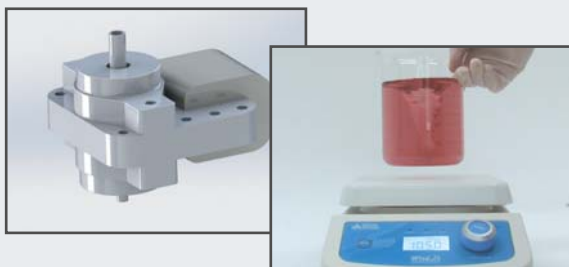


## » 2 × Independent Internal Temp. Sensor

Two Independent Internal Temp. Sensors: Accurate Temp. Control and Over-temp. Protection.

1xTemp Control Sensor: Achieved Accurate Temp. Control at High Temp.

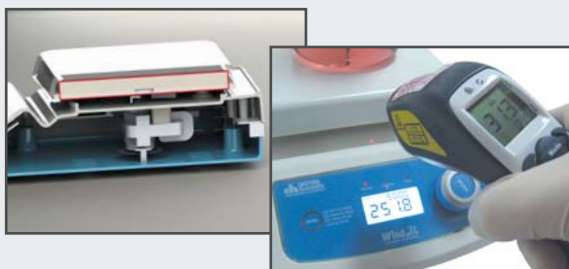
1xOver-Temp. Protection Sensor: Prevention from malfunction or danger caused by Over-temperature.



## » High-performance Stirring Mechanism

High-performance Brushless Shade Motor ensures Strong & Precise Stirring, Minimized Noise and Long Life-time.

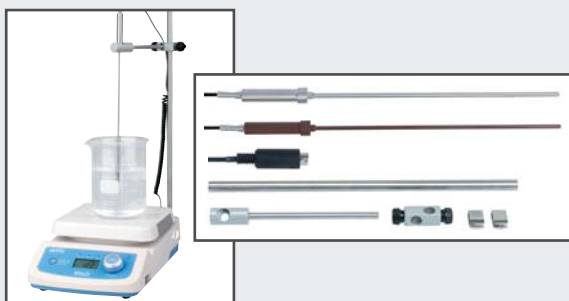
High-performance Magnet achieves Strong Stirring Power : Prevention from out-of-position of a Stirrer Bar and Strong Stirring Capability that enables to stir even when a vessel is positioned away from the Plate.



## » High-quality Insulation (BTU) for User Safety

High-quality Insulation (BTU) ensures User Safety during operation at High Temperature.

Minimized Heat Transfer from the Plate to the Inside, ensures Long Life-time.



## » External Temp. Sensor

Usability of the External Temp. Sensor achieves even more Accurate Temp Control by measuring Temp. of Sample. (Optional)

Cat. No	Description	Articles
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**DAIHAN MaXtir™ 500S Hi-performance Digital Magnetic Stirrers, Shade Motor, Max. 80~1,500 rpm** **NEW**  
with Solid Ceramic Glass Plate, 200×200mm, Touch-button Controller, Digital Feedback Control, Precise Speed Control, Max 20Lit.

- DAIHAN-brand® New Generation Magnetic Stirrers
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Digital Feedback Control by High-Performance Microprocessor
- High-quality Solid Ceramic Glass Plate : Heat-/Chemical-/Acid-Resistance and Easy to Clean
- Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control
- Built in DAIHAN-brand® New Generation Controller : Patented Jog-Dial and Main Touch Button - Best Durability, Best Mobility, Best Convenient to Operate.
- Ergonomic Design ■ CE Certified
- PL(Product Liability) Insurance

- \* 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)
- \* Digital LCD with Back Light Function \* Digital Timer Function(99hr 59min)
- \* Ergonomic Design of Body made by Aluminum Die-casting
- \* Free Voltage(AC 80V~240V, 50/60Hz) by SMPS

## Specification

Model		New MaXtir 500S
Material	Body	Powder Coated Aluminum
	Plate	Solid Ceramic Glass Plate, 200×200mm
Stirring Capacity (H <sub>2</sub> O)		Max. 20 Lit.
Speed & Control Resolution		80 ~ 1,500 rpm, 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 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
Permissible Temp. & RH %		Ambient +5 ~ 50℃, 85% RH
Dimension & Weight		205×345×h135mm, 3.3kg
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

DH.WMS04022 Digital Magnetic Stirrer, "MaXtir 500S", 230 V, w/stir bar  
DH.WMS05022 , 120 V, w/stir bar

### Additional Function Accessories

DH.WHP503036 (1) Stand Rod, "RD200", Stainless steel,  $\phi 12 \times L450$ mm  
Screw, for "HP-20A/20D", "MS-20A/20D",  
"MSH-20A/20D", "SMHS", "MaXtir 500"  
DH.WHP503012 (2) Holder/Clamp/Clip, "CL220", for Temp. Probe



Hi-Performance Digital Magnetic Stirrer "MaXtir 500S"



New Generation Controller of "MaXtir 500S" Unit only

