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 Coming, **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
- 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

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**
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 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)
DAIHAN MaXtir™ 500S Hi-performance Digital Magnetic Stirrers, Shade Motor, Max. 80~1,500 rpm with Solid Ceramic Glass Plate, 200×200mm, Touch-button Controller, Digital Feedback Control, Precise Speed Control, Max 20 Lit.

- 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
- 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
- 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

<table>
<thead>
<tr>
<th>Model</th>
<th>New MaXtir 500S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Body</td>
</tr>
<tr>
<td></td>
<td>Powder Coated Aluminum</td>
</tr>
<tr>
<td></td>
<td>Plate</td>
</tr>
<tr>
<td></td>
<td>Solid Ceramic Glass Plate, 200 × 200mm</td>
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<tr>
<td>Stirring Capacity (H2O)</td>
<td>Max. 20 Lit.</td>
</tr>
<tr>
<td>Speed &amp; Control Resolution</td>
<td>80 ~ 1,500 rpm, 5 rpm</td>
</tr>
<tr>
<td>Timer &amp; Alarm</td>
<td>99hr 59min (with Continuous run.), Error status &amp; Timer-end</td>
</tr>
<tr>
<td>Display</td>
<td>Digital LCD with Back-Light Function</td>
</tr>
<tr>
<td>Controller</td>
<td>Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.</td>
</tr>
<tr>
<td>Stirring Bar</td>
<td>3cm bar-included, Usable : up to 5cm bar</td>
</tr>
<tr>
<td>Safety Circuit</td>
<td>Over Temp. Protection</td>
</tr>
<tr>
<td></td>
<td>Hot Top Indicator LED Lamp</td>
</tr>
<tr>
<td>Permissible Temp. &amp; RH %</td>
<td>Ambient +5 ~ 50℃, 85% RH</td>
</tr>
<tr>
<td>Dimension &amp; Weight</td>
<td>205 × 345 × h135mm, 3.3kg</td>
</tr>
<tr>
<td>Power Supply &amp; Cord/Plug*</td>
<td>1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug</td>
</tr>
</tbody>
</table>

* 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, φ12 × L450mm
- Screw, for “HP-20A/20D”, “MS-20A/20D”, “MSH-20A/20D”, “SMHS”, “MaXtir 500”
- DH.WHP503012 (2) Holder/Clamp/Clip, “CL220”, for Temp. Probe