Maximum Convenience by Advanced Digital Technology

DAIHAN NEW Generation
500℃ 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 DIAHAN, 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

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
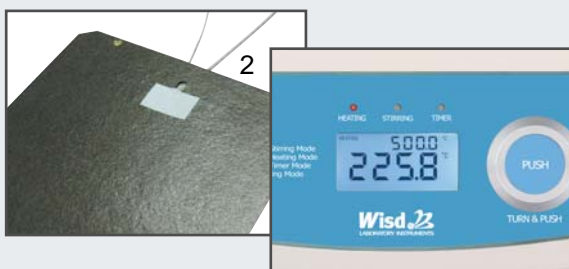
2 × Independent Internal Temp. Sensor

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.
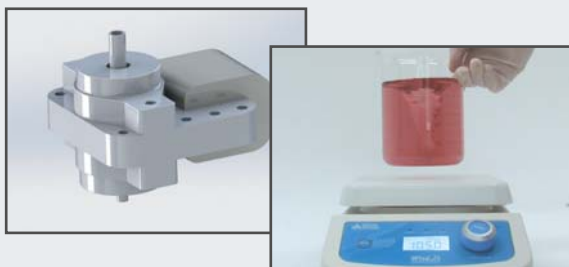
High-performance Stirring Mechanism

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.
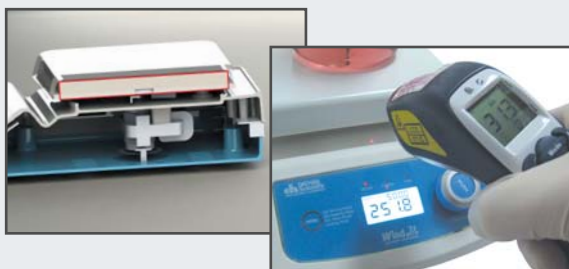
High-quality Insulation (BTU) for User Safety

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.
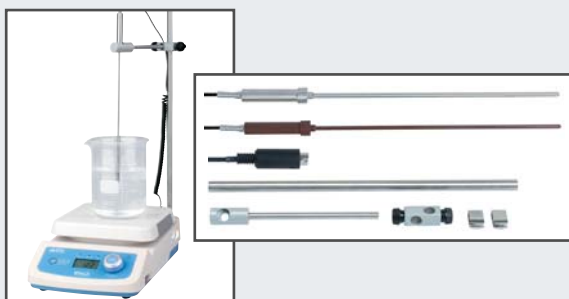
External Temp. Sensor

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

Cat. No	Description	Articles

DAIHAN MaXtir™ 500H Hi-Temp.(500℃) Digital Hotplates, Solid Ceramic Glass Plate, 200×200mm NEW
with Digital Feedback Control, Accurate Temp. Control, Touch-button Controller, Hot-Top Indicator, Max. 500℃, Accu. ±0.3℃

- **DAIHAN-brand® New Generation Hotplates**
- **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**
- **Maximum Temperature of 500℃** ■ **Ergonomic Design**
- **Digital Feedback Control by High-Performance Microprocessor**
- **Built in DAIHAN-brand® New Generation Controller : Patented 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℃) Warning Lamp for User Safety**
- **CE Certified** ■ **PL(Product Liability) Insurance**

∗ Excellent for Sample Drying and most General Lab Heating Applications
∗ User's Self -Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0℃)
∗ 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)

(1) New "MaXtir 500H" Package-set

(2) New "MaXtir 500H" Unit only

New Generation Controller of "MaXtir 500H"

Specification

Model		New "MaXtir 500H"
Material	Body	Powder Coated Aluminum
	Plate	Solid Ceramic Glass Plate, 200×200mm
Stirring Capa.		Max. 20 Lit.
Temp. Range & Accuracy		Max. 500℃, ±0.3℃ at Set Temperature
Temp. Resolution		0.1℃-Display, 0.5℃-Control
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.
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

Package-set : ① Hotplate Unit ② **"SS500"** PT100 External / Direct Contact Temp. Probe,
③ **"RD200"** Stainless steel Support Rod ⌀12×L450mm
④ **"CL220"** Holder+Clamp for External Temp. Probe
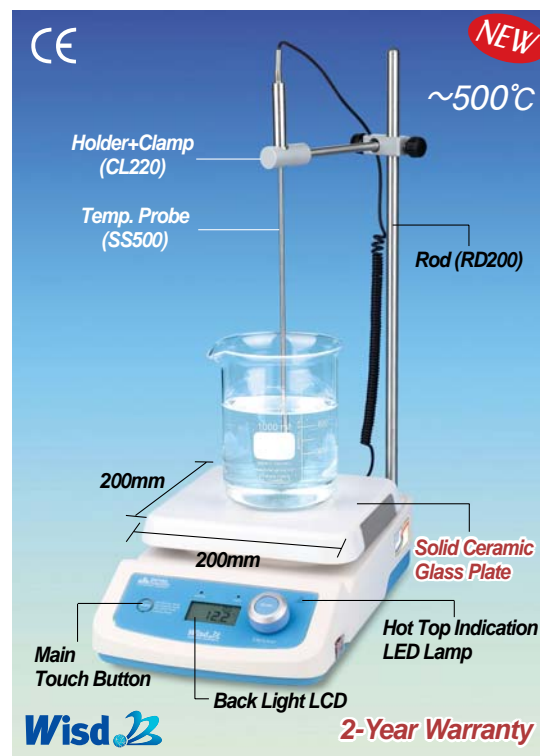
(1) Package-set, 500℃ High Temp. Digital Hotplates

DH.WHP04020	500℃ High Temp. Hotplate, **"MaXtir 500H", 230 V**
DH.WHP04021	**, 120 V**

(2) Unit only, 500℃ High Temp. Digital Hotplates

DH.WHP05020	500℃ High Temp. Hotplate, **"MaXtir 500H", 230 V**
DH.WHP05021	**, 120 V**

Additional Function Accessories

DH.WHP503060 (1) Direct Contact Temp. Probe, **"SS500", "PT100"**, Probe ⌀4×L250mm, Cable L190mm**, for "MaXtir 500H", "MaXtir 500"**

DH.WHP503061 (2) Direct Contact **Teflon Coated** Temp. Probe, **"SS510"**, Probe ⌀4×L250mm, Cable L190mm, for **"MaXtir 500H", "MaXtir 500"**

DH.WHP503036 (3) Stand Rod, **"RD200",** Stainless steel, ⌀12×L450mm, Screw, for **"MaXtir 500H", "MaXtir 500"**

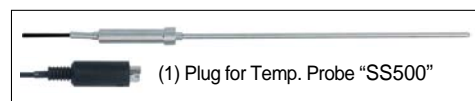**DH.WHP503012** (4) Holder/Clamp/Clip, **"CL220",** for Temp. Probe

(1) Plug for Temp. Probe "SS500"
External/Direct Contact Temp. Probe
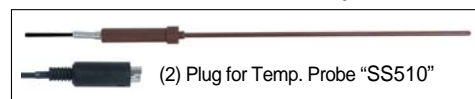
(2) Plug for Temp. Probe "SS510"
External/Direct Contact Temp. Probe, Teflon Coated

(3) Stand Rod, "RD200", ⌀12×L450mm

(4) Holder / Clamp / Clip for Temp. Probe