

Certification by...

- CE Insurance
- ISO 9001 Certified
- PL Insurance
- Validation(IQ & OQ) Service
- Patented

High-performance! High-Temperature!

MaXtir™ Hotplate
(with/without Stirring)

MaXtir™ Magnetic Stirrer



Sales & A/S:

By the Official Distributors in your area

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 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

Capacitive Touch Button

Hot - TOP Indicator

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



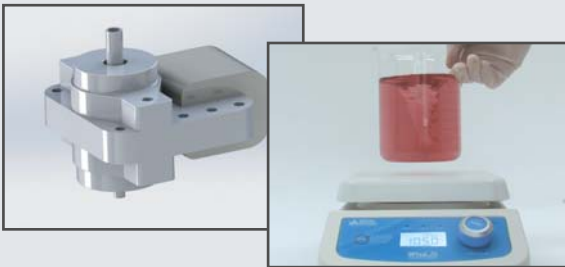
» Hot-top Indicator for User Safety

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



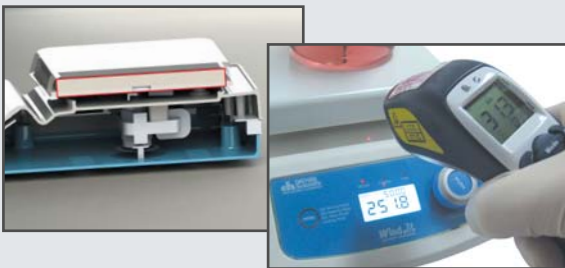
» 2 × Independent Internal Temp. Sensor

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.



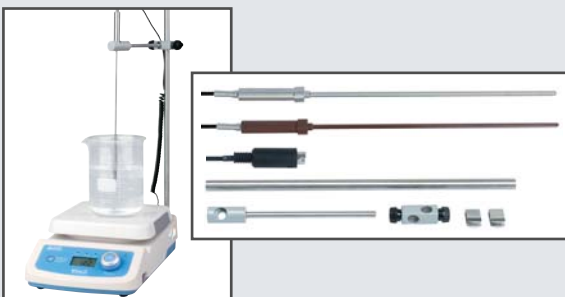
» High-performance Stirring Mechanism

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)

DAIHAN MaXtir™ 500 Hi-Temp.(500°C) Digital Hotplate Stirrers, Solid Ceramic Glass Plate, 200×200mm with Digital Feedback Control, Accurate Temp. Control, Touch-button Controller, Hot Top Indicator; 80 ~ 1,500rpm, Max. 500°C, ±0.3°C

- 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°C
 - 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
 - Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control, Minimization Noise
 - Hot Top Indicator LED Lamp : Hot Surface(Over 50°C) Warning Lamp for User Safety
 - CE Certified
 - PL(Product Liability) Insurance
- * User's Self -Compensation Function : to Control Difference between Real Temp. and Indicated Temp. (±20.0°C)
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (optional)
- * Storage Function for the set Values: Temp. and Timer
- * 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)

Specification

Model		New "MaXtir 500"
Material	Body	Powder Coated Aluminum
	Plate	Solid Ceramic Glass Plate, 200×200mm
Stirring Capa.		Max. 20 Lit.
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm
Temp. Range & Accuracy		Max. 500°C, ±0.3°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		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.
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°C, 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 $\phi 12 \times L450$ mm
 ④ "CL220" Holder + Clamp for External Temp. Probe

(1) Package-set, 500°C High Temp. Digital Hotplate Stirrers, with Stir bar

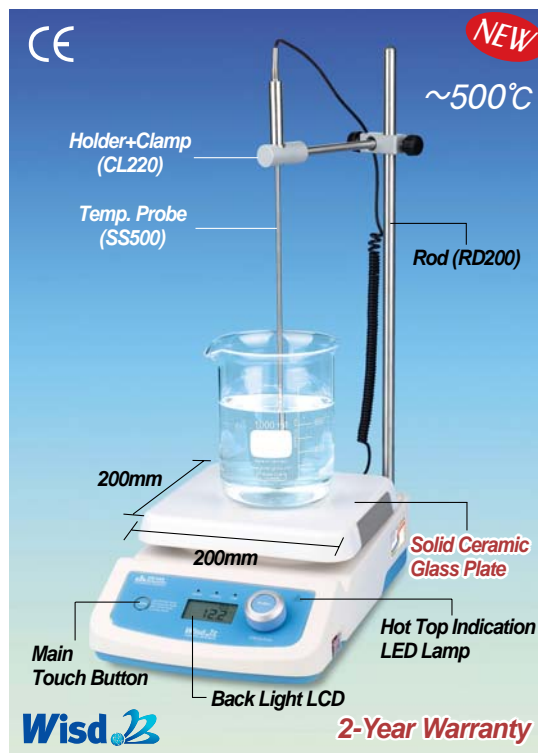
DH.WMH04020 500°C High Temp. Hotplate Stirrer, "MaXtir 500", 230 V
 DH.WMH04021 , 120 V

(2) Unit only, 500°C High Temp. Digital Hotplate Stirrers, with Stir bar

DH.WMH05020 500°C High Temp. Hotplate Stirrer, "MaXtir 500", 230 V
 DH.WMH05021 , 120 V

Additional Function Accessories

- DH.WHP503060 (1) Direct Contact Temp. Probe, "SS500", "PT100", Probe $\phi 4 \times L250$ mm, Cable L190mm, for "MaXtir 500H", "MaXtir 500"
- DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, "SS510", Probe $\phi 4 \times L250$ mm, Cable L190mm, for "MaXtir 500H", "MaXtir 500"
- DH.WHP503036 (3) Stand Rod, "RD200", Stainless steel, $\phi 12 \times L450$ mm, Screw, for "MaXtir 500H", "MaXtir 500"
- DH.WHP503012 (4) Holder/Clamp/Clip, "CL220", for Temp. Probe



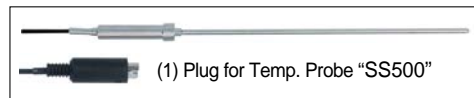
(1) New "MaXtir 500" Package-set



(2) New "MaXtir 500" Unit only



New Generation Controller of "MaXtir 500" model



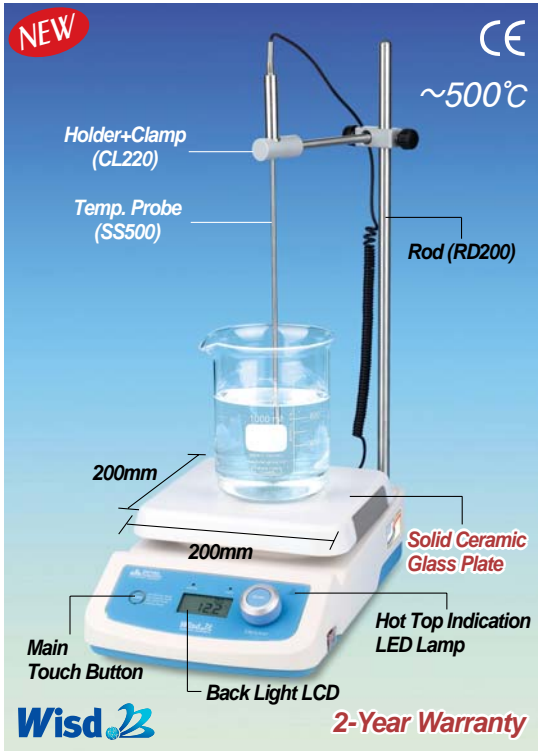
External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



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



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



(2) New "MaXtir 500H" Unit only



New Generation Controller of "MaXtir 500H"



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- 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°C
- 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°C) 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°C)
- * 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)

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°C, ±0.3°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		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°C, 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 φ12×L450mm
④ "CL220" Holder + Clamp for External Temp. Probe

(1) Package-set, 500°C High Temp. Digital Hotplates

DH.WHP04020 500°C High Temp. Hotplate, "MaXtir 500H", 230 V
DH.WHP04021 , 120 V

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

DH.WHP05020 500°C High Temp. Hotplate, "MaXtir 500H", 230 V
DH.WHP05021 , 120 V

Additional Function Accessories

DH.WHP503060 (1) Direct Contact Temp. Probe, "SS500", "PT100",
Probe φ4×L250mm, Cable L190mm,
for "MaXtir 500H", "MaXtir 500"

DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe,
"SS510", Probe φ4×L250mm, Cable L190mm,
for "MaXtir 500H", "MaXtir 500"

DH.WHP503036 (3) Stand Rod, "RD200", Stainless steel, φ12×L450mm,
Screw, for "MaXtir 500H", "MaXtir 500"

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

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 20Lit.



Hi-Performance Digital Magnetic Stirrer "MaXtir 500S"



New Generation Controller of "MaXtir 500S" Unit only



- 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 Capa.		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°C, 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, 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

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