

**Hotplates &
Hotplate Stirrers**
Heating Mantles

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**500°C Hi-temp
Digital Hotplate Stirrers**
"MaXtir™ MSH500"



**Analog Premium
Hotplate Stirrers**
"MSH-20A"



Digital Hotplate Stirrers
"MSH-20D"



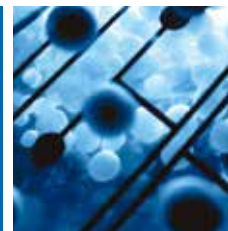
Large Plate Digital Hotplate
"HPLP-C-P"



Systematic Multi-Hotplate Stirrers
"SMHS-6"

Maximum Convenience by Advanced Digital Technology

DAIHAN New Generation 500°C High Temp. Hotplates, Solid Ceramic Glass Plate



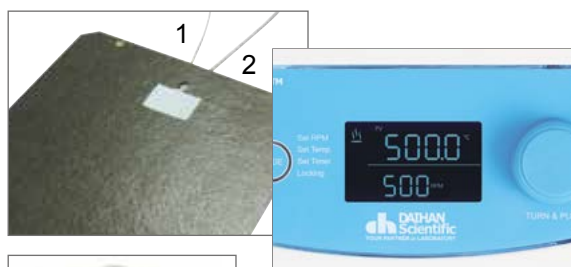
» High-quality Ceramic Glass Plate

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



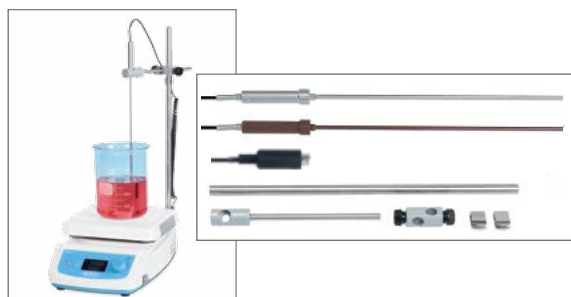
» 2× Independent Internal Temp. Sensor

Two Independent Internal Temp. Sensors : Accurate Temp. Control and Over-temp. Protection.
1× Temp Control Sensor: Achieved Accurate Temp. Control at High Temp.
1× Over-Temp. Protection Sensor: Prevention from malfunction or danger caused by Over-temperature.



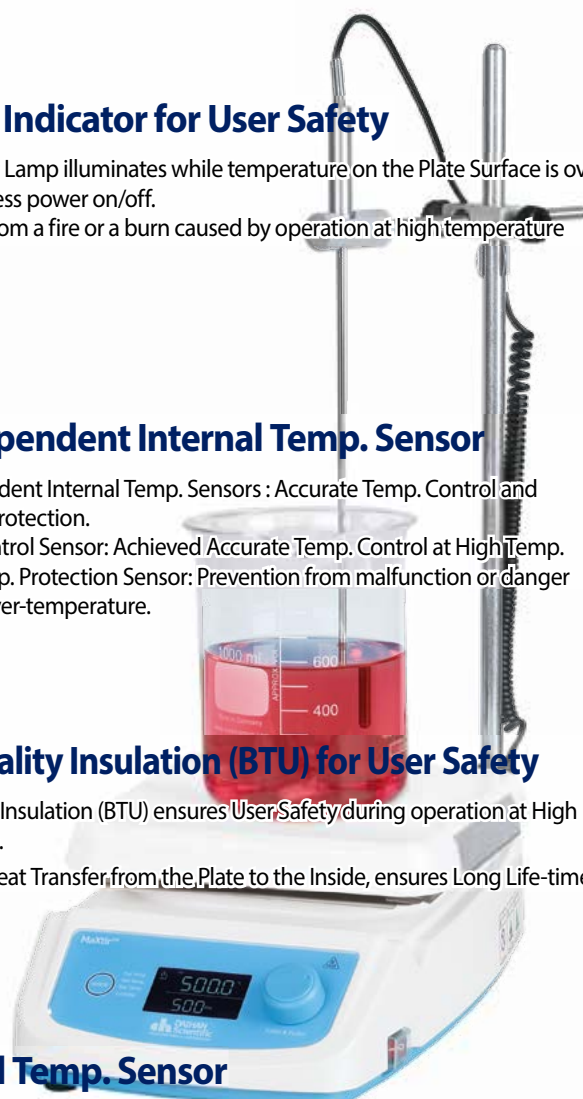
» High-quality Insulation (BTU) for User Safety

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

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



DAIHAN-brand® *New* 500 °C Hi-Temp. Hotplates “MaXtir™ HP500”, Solid Ceramic Glass Plate, 200 × 200mm with Large LCD, Optimum Insulation Layer. Accurate Temp. Control, Touch-button Controller, Hot-Top Indicator, Max. 500 °C, Accu. ± 0.3 °C



(a) “MaXtir™ HP500” Package-set



(b) “MaXtir™ HP500” Unit only



New Generation Controller of “MaXtir™ HP500”



(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”, φ 12 × L450mm

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

- **Made in Korea**
 - **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
 - **Optimum Insulation Fourfold Layers :**
BTU + Ceramic Paper + 2 × SUS Insulation Layers
 - **Maximum Temperature of 500 °C** ■ **Ergonomic Design**
 - **Microprocessor PID control**
 - **Patented Controller “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**
- * 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)

Specifications & Ordering information

Spec.		Model	(a) “MaXtir™ HP500” (Package-set)	(b) “MaXtir™ HP500” (Unit Only)
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	
Included Standard Acc.			Unit, * External Temp Probe-set	Unit Only
Permissible Temp. & RH %			Ambient +5 ~ 50 °C, 85% RH	
Dimension & Weight			220 × 332 × h114mm, 3.8kg	
Electrical Reqts.			1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V		DH.WHP01500	DH.WHP00500

Component of Package-set

- * External Temp Probe-set : ① Hotplate Unit ② “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD200” Stainless steel Support Rod φ 12 × L450mm ④ “CL220” Holder+Clamp for External Temp. Probe with stir Bar

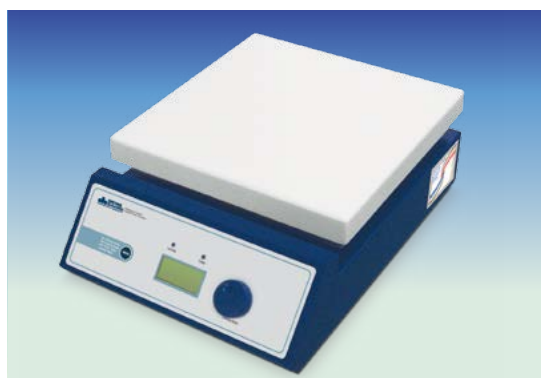
Optional External Temp Probes/Stand Rods/Holder, Clamp, Clip

- DH.WHP503060 (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe φ 4 × L250mm, Cable L190mm
- DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe φ 4 × L250mm, Cable L190mm
- DH.WHP503036 (3) Stand Rod, “RD200”, Stainless steel, φ 12 × L450mm, Screw, for “MaXtir™ HP500”, “MaXtir™ MSH500”
- DH.WHP503012 (4) Holder/Clamp/Clip, “CL220”, for Temp. Probe

DAIHAN-brand® 380°C Digital Precise Hotplate “HP-D”, Ceramic-Coated Plate, ±0.3°C with Digital Feedback Control System, Back Light LCD, 180×180mm- or 260×260mm-Plate, with Certi. & Traceability



(a) 180×180mm Plate-type Digital Precise Hotplate “HP-20D” Package-set



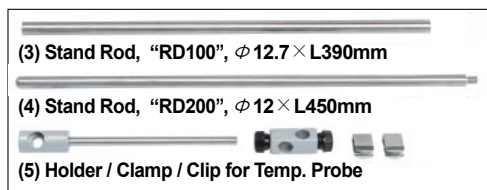
(b) 180×180mm Plate-type Digital Precise Hotplate “HP-30D” Unit only



(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, “RD100”, $\phi 12.7 \times L390\text{mm}$

(4) Stand Rod, “RD200”, $\phi 12 \times L450\text{mm}$

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

- Made in Korea ■ CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Patented Jog-Shuttle Control System
- * Digital Feedback Control by High-Performance Microprocessor
- * Smart Design of Body made by Aluminum Die-Casting (HP-20D)
- * Ceramic Coated Plate-Chemical/Acid Resistance * Digital LCD with Back-Light Function
- * Superior Temperature Uniformity : less than 10% on the Plate at Ambient Temperature
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (Optional)
- * Locking Mode for Experimental Safety Supported (Input to Jog Shuttle can be disabled)
- * User's Self-Compensation Function : to Control Difference between Real Temp. and Indicated Temp. ($\pm 20.0^\circ\text{C}$)

Specifications & Ordering information

Spec.	Model	(a) “HP-20D”	(b) “HP-30D”
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
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		600 W	1.2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn + Push)	
Safety Circuit		Over Temp. Protection	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.2kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

Unit Only			
Cat. No.	230V	DH.WHP03020	DH.WHP03022

* External Temp. Probe Package-set			
Cat. No.	230V	DH.WHP03021	DH.WHP03023

Component of Package-set

- * “HP-20D” Package-set : Complete with ① Hotplate Unit ② : “SS500” 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
- * “HP-30D” Package-set : Complete with ① Hotplate Unit ② : “SS500” 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

Optional External Temp Probes/Stand Rods/Holder, Clamp, Clip

- DH.WHP503060 (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe $\phi 4 \times L250\text{mm}$, Cable L190mm
- DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe $\phi 4 \times L250\text{mm}$, Cable L190mm
- DH.WHP503011 (3) Stand Rod, “RD100”, Stainless steel, $\phi 12.7 \times L450\text{mm}$ for “HP-30A/30D”, “MSH-30A/30D”, Non-screw
- DH.WHP503036 (4) 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”, Screw
- DH.WHP503012 (5) Holder/ Clamp / Clip, “CL220”, for Temp. Probe

DAIHAN-brand® 380°C Analog Premium Hotplate “HP-20A” & “HP-30A”, Ceramic-Coated Plate
 Built-in Linearity PWM Controller, High Temp. Uniformity, 180×180- or 260×260-mm Plate, CE Certified, with Certi. & Traceability



(a) 180×180mm Plate-type Hotplate “HP-20A”



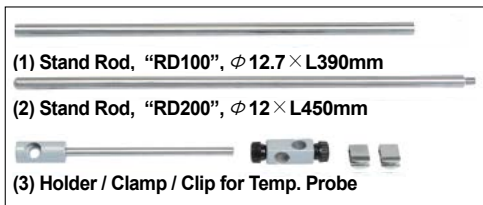
(b) 260×260mm Plate-type Hotplate “HP-30A”

- Made in Korea ■ CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Excellent for Sample Drying and Most General Lab Heating Applications
- Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature

- * Excellent for Sample Drying and most General lab Heating Applications
- * Smart Design of Body made by Aluminum Die-Casting (HP-20A)
- * Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
- * Superior Linearity for Temperature Control by Specially Designed Control Circuitry (PWM control)
- * Ceramic Coated Plate - Chemical / Acid Resistance

Specifications & Ordering information

Spec.	Model	(a) “HP-20A”	(b) “HP-30A”
Plate Size(mm)		180×180mm Plate-type	260×260mm Plate-type
Material	Body	Powder Coated Aluminum	Powder Coated steel
	Plate	Ceramic Coated Aluminum (Chemical / Acid Resistance, Easy to Clean)	
Temp. Range & Uniformity		Max. 380°C Temp., High Uniformity : Difference 10% less	
Heating Power/Consumption		600 W	1.2 kW
Controller		Superior Linearity PWM Controller	
Permissible Temp. & RH %		R/T +5 ~ 50°C, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.3kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×200hmm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	DH.WHP03120	DH.WHP03121



- (1) Stand Rod, “RD100”, φ 12.7 × L390mm
- (2) Stand Rod, “RD200”, φ 12 × L450mm
- (3) Holder / Clamp / Clip for Temp. Probe

Optional Stand Rod & Holder/Clamp

- DH.WHP503011 (1) Stand Rod, “RD100”, Stainless steel, Non-screw φ 12.7×L390mm, for “HP-30A/30D”, “MSH-30A/30D”
- DH.WHP503036 (2) Stand Rod, “RD200”, Stainless steel, 1.5p screw φ 12×L450mm, for “HP-20A/20D”, “MSH-20A/20D”, “MSH-50A/55A”, “MSH-50D/55D” and “SMHS”
- DH.WHP503012 (3) Holder / Clamp / Clip, “CL220”, for Temp. Probe

Specialized Features

High Stability in Very Low & High-Temperature

General Phase Control
Use with AC !!
(Very sensitive Point)

General analog control

PWM Control
Use with DC !!
(Super linearity)

DAIHAN Realize **Stable & Easy to Use!**

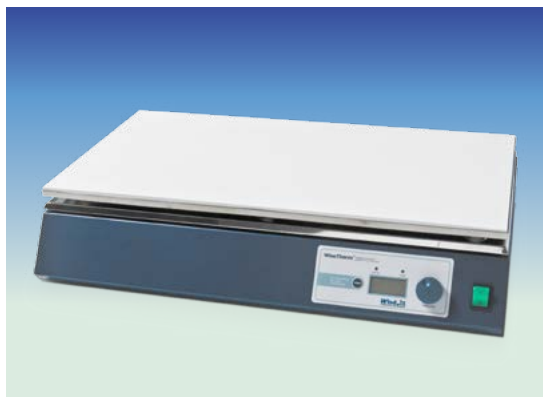
Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC !!

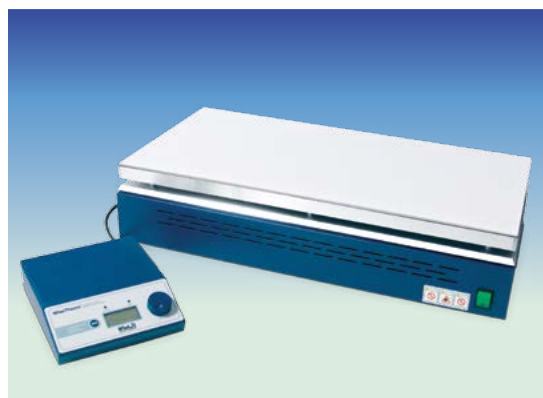
AC → Stable DC !!

SSR (Solid State Relay)-Non Contact
No Electronic Harm!
Realize **Long Life Cycle!**

DAIHAN-brand® 350°C Large Plate Digital Hotplate “HPLP”, Ceramic-Coated Plate, Superior Temp. Uniformity Built-in Digital PID Controller or Digital Remote Controller, Ceramic-Coated Plate, Back Light LCD, 310×620mm Plate



(1) Large Digital Hotplate, with Built-in Digital PID Controller, Ceramic-Coated Plate-type “HPLP-C-P”



(2) Large Digital Hotplate, Digital Remote Controller, Ceramic-Coated Plate-type “HPLP-C-R”

- Made in Korea
- CE Certified
- 2-Years Warranty
- Max Temp : 350°C
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Superior Temperature Uniformity :
Less than 10% on the Plate at Ambient Temperature
- Digital PID Controller
- Patented Jog-Shuttle Control System and Back-Light LCD
- * Excellent for Sample Drying and most General lab Heating Applications
- * Large Heating Area : Ideal for TLC Plate Heating and Surface Heating in Electronic Industries
- * Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
- * Ceramic Coated Plate -Chemical / Acid Prevention

Specifications & Ordering information

Spec.	Models	(1) “HPLP-C-P”	(2) “HPLP-C-R”
Controller		Built-in Digital PID Controller	Digital Remote Controller
Plate Surface		Ceramic-coated	
Plate Size		310×620mm	
Temp. Range & Accuracy		Max. 350°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		2 kW	
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight		670×360 ×h150mm, 16kg	
Packing Size & Gross Weight		750×430 ×h220mm, 18 kg	
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	DH.WHP03024	DH.WHP03025

DAIHAN-brand® 500°C Hi-Temp. Hotplate Stirrers “MaXtir™ MSH500”, Solid Ceramic Glass Plate, 200×200mm with Large LCD, Optimum Insulation Layer. Accurate Temp. Control, Touch-button Controller, Hot-Top Indicator, Max. 500°C, Accu. ±0.3°C



(a) “MaXtir™ MSH500” Package-set



(b) “MaXtir™ MSH500” Unit only



New Generation Controller of “MaXtir™ MSH500” model



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



- **Made in Korea** ■ **Ergonomic Design**
- **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
- **Optimum Insulation Fourfold Layers :**
BTU + Ceramic Paper + 2×SUS Insulation Layers
- **Brushless Shade Motor & Powerful Magnet ensures Powerful Stirring and Precise Speed Control, Minimization Noise**
- **Maximum Temperature of 500°C** ■ **Microprocessor PID control**
- **Patented Controller “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**
- * 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)

Specifications & Ordering information

Spec.		Model	(a) “MaXtir™ MSH500” (Package-set)	(b) “MaXtir™ MSH500” (Unit Only)
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		
included Standard Acc.		Unit, *External Temp Probe-set, with 1ea Stir Bar	Unit with 1ea Stir Bar	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH		
Dimension & Weight		220×332×h114mm, 3.8kg		
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz, with Cord/Plug		
Cat. No.	230V	DH.WMH00500	DH.WMH01500	

Component of Package-set

- * 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

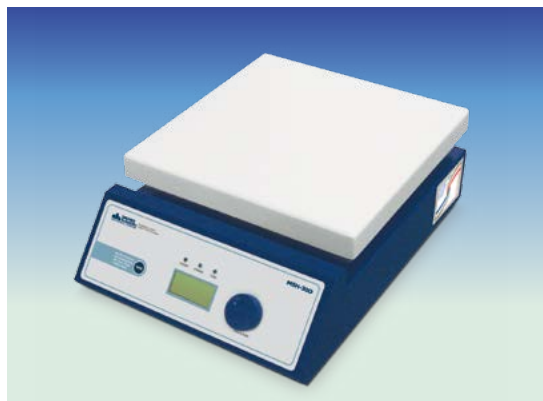
Optional External Temp Probes/Stand Rods/Holder, Clamp, Clip

- DH.WHP503060** (1) Direct Contact Temp. Probe, “SS500”, “PT100”,
Probe $\phi 4 \times L250$ mm, Cable L190mm,
DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe,
“SS510”, Probe $\phi 4 \times L250$ mm, Cable L190mm,
DH.WHP503036 (3) Stand Rod, “RD200”, Stainless steel, $\phi 12 \times L450$ mm,
Screw, for “MaXtir™ HP500”, “MaXtir™ MSH500”
DH.WHP503012 (4) Holder/Clamp/Clip, “CL220”, for Temp. Probe

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



(a) 180 × 180mm Plate-type Digital Precise Hotplate “MSH-20D” Package-set



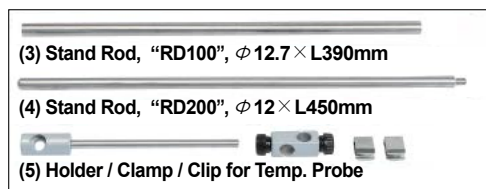
(b) 180 × 180mm Plate-type Digital Precise Hotplate “MSH-30D” Unit only



(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, “RD100”, φ 12.7 × L390mm

(4) Stand Rod, “RD200”, φ 12 × L450mm

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

- Made in Korea ■ CE Certified
- 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

- * 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
- * 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

Specifications & Ordering information

Spec.	Model	(a) “MSH-20D”	(b) “MSH-30D”
Plate Size(mm)		180 × 180mm Plate-type	260 × 260mm Plate-type
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, ±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		600W	1.2 kW
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD 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
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	

Unit Only			
Cat. No.	230V	DH.WMH03020	DH.WMH03022
	230V	DH.WMH03021	DH.WMH03023

Component of Package-set

- * “MSH-20D” Package-set : Complete with ① Hotplate Unit ② : “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD200” Stainless steel Support Rod φ 12 × L450mm ④ “CL220” Holder+Clamp for External Temp. Probe
- * “MSH-30D” Package-set : Complete with ① Hotplate Unit ② : “SS500” PT100 External / Direct Contact Temp. Probe, ③ “RD100” Stainless steel Support Rod φ 12 × L450mm ④ “CL220” Holder+Clamp for External Temp. Probe

Optional External Temp Probes/Stand Rods/Holder, Clamp, Clip

- DH.WHP503060 (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe φ 4 × L250mm, Cable L190mm
- DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe φ 4 × L250mm, Cable L190mm
- DH.WHP503011 (3) Stand Rod, “RD100”, Stainless steel, φ 12.7 × L450mm for “HP-30A/30D”, “MSH-30A/30D”, Non-screw
- DH.WHP503036 (4) Stand Rod, “RD200”, Stainless steel, φ 12 × L450mm for “HP-20A/20D”, “MSH-20A/20D”, “MSH-50A/55A”, “MSH-50D/55D” and “SMHS”, Screw
- DH.WHP503012 (5) Holder / Clamp / Clip, “CL220”, for Temp. Probe

DAIHAN-brand® 380°C Analog Premium Hotplate Stirrer “MSH-A”, Ceramic-Coated Plate, 1,500 rpm, with Certi. & Traceability Built-in Linearity PWM Controller, Superior Temperature Uniformity, Precise Control of Temp. & RPM, 180×180mm or 260×260mm



(a) 180×180mm Plate-type Hotplate Stirrer “MSH-20A”



(b) 260×260mm Plate-type Hotplate Stirrer “MSH-30A”

- **Made in Korea** ■ **CE Certified**
- **with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System**
- **Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature**
- **Superior Linearity for Temperature Control & Stirring Speed**
- **Ceramic Coated Plate-Chemical / Acid Resistance**
- * Excellent for Sample Drying and most General Lab Heating Applications
- * Superior Temperature Uniformity : Less than 10% on the Plate at Ambient Temperature
- * Superior Linearity for Temperature Control & Stirring Speed by Specially Designed Control Circuitry.(PWM Control)
- * Smart Design of Body made by Aluminum Die-Casting (MSH-20A)
- * Ceramic Coated Plate-Chemical/Acid Resistance
- * Maximum Temperature of 380°C

Specifications & Ordering information

Spec.	Model	(a) “MSH-20A”	(b) “MSH-30A”
Plate Size		180×180mm Plate-type	260×260mm Plate-type
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 Range		Max. 1,500 rpm	
Temp. Range		Max. 380°C	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		600W	1.2 kW
Controller		Superior Linearity PWM Controller	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Ambient +5 ~ 50°C, 85% RH	
Dimension & Weight		206×307×h99mm, 2.8kg	286×387×h99mm, 3.3kg
Packing Size & Gross Weight		400×280×h200mm, 5 kg	430×320×h200mm, 5 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	DH.WMH03120	DH.WMH03121

- (1) Stand Rod, “RD100”, φ 12.7 × L390mm
- (2) Stand Rod, “RD200”, φ 12 × L450mm
- (3) Holder / Clamp / Clip for Temp. Probe

Optional Stand Rod & Holder/Clamp

- DH.WHP503011 (1) Stand Rod, “RD100”, Stainless steel, Non-screw φ 12.7 × L390mm, for “HP-30A/30D”, “MSH-30A/30D”
- DH.WHP503036 (2) Stand Rod, “RD200”, Stainless steel, 1.5p screw, φ 12 × L450mm, for “HP-20A/20D”, “MSH-20A/20D”, “MSH-50A/55A”, “MSH-50D/55D” and “SMHS”
- DH.WHP503012 (3) Holder / Clamp / Clip, “CL220”, for Temp. Probe

Specialized Features

High Stability in Very Low & High-Temperature

General Phase Control
Use with AC !!
(Very sensitive Point)

General analog control

PWM Control
Use with DC !!
(Super linearity)

DAIHAN Realize **Stable & Easy to Use!**

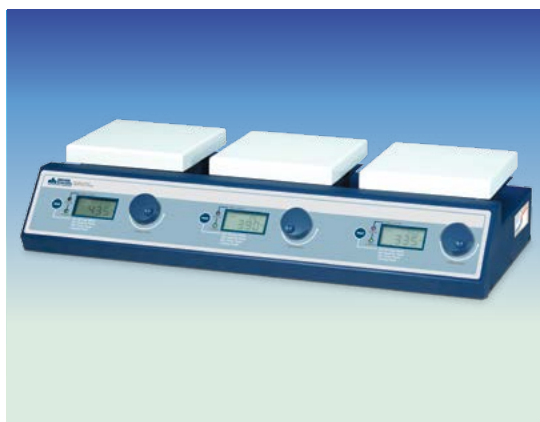
Long Life Power & Mechanism!

SMPS (Switching Mode Power Supply)
Use with Safety & Regular DC !!

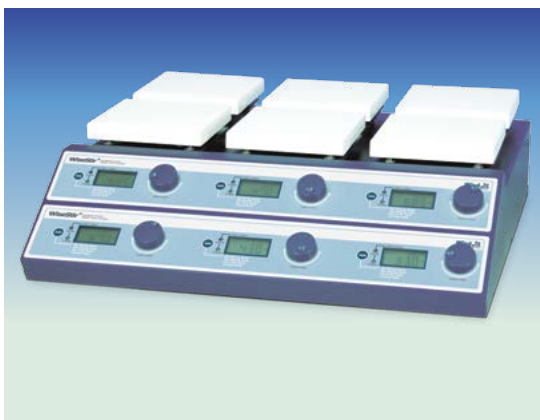
AC → Stable DC !!

SSR (Solid State Relay)-Non Contact
No Electronic Harm!
Realize **Long Life Cycle!**

DAIHAN-brand® 350°C Systematic Multi-Hotplate Stirrers “SMHS”, 3- or 6-Places, Ceramic-Coated Plates with Digital Feedback Control, Independent Heating & Stirring Control, up to 350°C, 80~1,500 rpm



(a) 3 × 1 Plates-type Multi-Hotplate Stirrer “SMHS-3”



(b) 3 × 2 Plates-type Multi-Hotplate Stirrer “SMHS-6”

- Made in Korea ■ CE Certified
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Excellent for Multi-use and wide range Sample Testing
- Patented Jog-Shuttle Control System
- * Systemized 3- and 6-Hotplate Stirrer
- * Independent Heating and Stirring Control
- * Digital Feedback Control by High-Performance Microprocessor
- * Ceramic Coated Plate-Chemical/Acid Resistance
- * Maximum Temperature of 350°C with ±0.3°C Control Accuracy
- * Accurate Temp. Control of the Sample in the Vessel using PT100 Sensor (Optional)
- * Digital LCD with Back-Light Function
- * Digital Timer Function Included : 99 hr 59 min
- * Storage Function for the Set Values : Temperature, RPM and Timer
- * Locking Mode for Experimental Safety Supported

Specifications & Ordering information

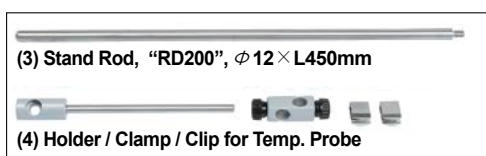
Spec.	Model	(a) “SMHS-3”	(b) “SMHS-6”
Plate-type		3 × 1 Plates-type	3 × 2 Plates-type
Material		Plate : Ceramic Coated Aluminum, Body : Powder Coated steel	
Plate Size(mm)		140 × 140	
Stirring Capa. & Motor Rating		Max. 20 Lit.(H ₂ O), 9/4W × 3	Max. 20 Lit.(H ₂ O), 9/4W × 6
Speed & Control Resolution		80 ~ 1,500 rpm, 5 rpm	
Temp. Range & Accuracy		Max. 350°C, ±0.3°C at Set Temp.	
Temp. Resolution		0.1°C-Display, 0.5°C-Control	
Temp. Uniformity		Specially Designed Heating Module : Temp. Difference 10% less	
Heating Power/Consumption		400 W × 3 Plates	400 W × 6 Plates
Timer & Alarm		99hr 59min (with Continuous run.), Error status & Timer-end	
Display		Digital LCD with Back-Light Function	
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)	
Stirring Bar		3cm bar-included, Usable : up to 5cm bar	
Permissible Temp. & RH %		Room Temp. +5 ~ 50°C, 85% RH	
Dimension & Weight		510 × 240 × h100mm, 10kg	510 × 410 × h180mm, 18kg
Packing Size & Gross Weight		540 × 330 × h170mm, 10kg	570 × 540 × h230mm, 18kg
Electrical Reqt.s.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz	
Cat. No.	230V	DH.WMH03503	DH.WMH03506



External/Direct Contact Temp. Probe



External/Direct Contact Temp. Probe, Teflon Coated



Optional External Temp Probes/Stand Rods/Holder, Clamp. Clip

- DH.WHP503060 (1) Direct Contact Temp. Probe, “SS500”, “PT100”, Probe $\phi 4 \times L250$ mm, Cable L190mm
- DH.WHP503061 (2) Direct Contact Teflon Coated Temp. Probe, “SS510”, Probe $\phi 4 \times L250$ mm, Cable L190mm
- DH.WHP503036 (3) Stand Rod, “RD200”, Stainless-steel, $\phi 12 \times L450$ mm for “HP-20A/20D”, “MSH-20A/20D”, “MSH-50A/55A”, “MSH-50D/55D” and “SMHS”, 1.5p Screw
- DH.WHP503012 (4) Holder / Clamp / Clip, “CL220”, for Temp. Probe

Heating Mantles

For Beaker	- Basic-type	12
	- Stirring-type	12
For Flask	- Basic-type	13
	- Stirring-type	13
	- Remote Control	14
Fabric Housing		15
Reaction Vessel	- Basic-type	16
	- Stirring-type	16
	- Remote Control	17
Heating Tape and Custom Made		19
Soxhlet/Extraction		18
Heating Product Controller		20



Beaker Basic-type
"WHM12146"



Beaker Stirring-type
"WHM12606"



Flask Basic-type
"WHM1204"



Flask Stirring-type
"WHM12034"



Flask High Temp-type
"WHM12094"



Fabric Housing
"WHM12114"



Fabric Housing
"WHM121303"

Analog Compact Controller
"WHM-C10A"



Digital Feedback Controller
"WHM-C10D"



Reaction Flask
"WHM8224"



Reaction Vessel
"WHM8153"



Reaction Vessel
"WHM8180"



Analog 6 Places Heating Mantle
"WHM12293"

DAIHAN-brand® Aluminum-case Beaker Heating Mantles, (1) Basic & (2) Stirring-type, 450°C, 100~5,000ml with Built-in Temp Controller, with/without Mag-stir Speed Control, with Certi. & Traceability

- Made in Korea
- Ideal for All type Beakers
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.



(1) Basic-type Beaker Mantle with Controller

(1) Basic-type Beaker Mantles, Built-in Temp. Controller

* With a Device* for Holding a Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.

Beakers, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
100ml, ϕ 50~52	80 W	40 mm	ϕ 145 \times H140	DH.WHM12141	DH.WHM12151
250ml, ϕ 68~70	140 W	65 mm	ϕ 145 \times H140	DH.WHM12142	DH.WHM12152
400ml, ϕ 79~81	240 W	70 mm	ϕ 145 \times H140	DH.WHM12143	DH.WHM12153
600ml, ϕ 88~90	240 W	75 mm	ϕ 145 \times H140	DH.WHM12144	DH.WHM12154
800ml, ϕ 98~100	300 W	90 mm	ϕ 190 \times H165	DH.WHM12145	DH.WHM12155
1,000ml, ϕ 105~108	350 W	90 mm	ϕ 190 \times H165	DH.WHM12146	DH.WHM12156
2,000ml, ϕ 130~132	450 W	125 mm	ϕ 199 \times H190	DH.WHM12147	DH.WHM12157
3,000ml, ϕ 151~153	550 W	160 mm	ϕ 270 \times H235	DH.WHM12148	DH.WHM12158
4,000ml, ϕ 160~162	700 W	160 mm	ϕ 270 \times H235	DH.WHM121481	DH.WHM121581
5,000ml, ϕ 169~171	800 W	160 mm	ϕ 270 \times H235	DH.WHM12149	DH.WHM12159



(2) Stirring-type Beaker Mantle with a Stir-Bar

(2) Stirring-type Beaker Mantles, Built-in 50~75rpm Mag-stir Speed & Temp. Controller

* With a Device* for Holding a Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.

* With 1ea \times PTFE Octagonal Magnetic Stirrer Bar, L38mm

Beakers, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
100ml, ϕ 50~52	80 W	45 mm	ϕ 145 \times H140	DH.WHM121601	DH.WHM121611
250ml, ϕ 68~70	140 W	70 mm	ϕ 190 \times H165	DH.WHM121602	DH.WHM121612
400ml, ϕ 79~81	240 W	70 mm	ϕ 190 \times H165	DH.WHM121603	DH.WHM121613
600ml, ϕ 88~90	240 W	72 mm	ϕ 190 \times H165	DH.WHM121605	DH.WHM121615
1,000ml, ϕ 105~108	350 W	105 mm	ϕ 190 \times H190	DH.WHM121606	DH.WHM121616
2,000ml, ϕ 130~132	450 W	140 mm	ϕ 270 \times H235	DH.WHM121607	DH.WHM121617
3,000ml, ϕ 151~153	550 W	140 mm	ϕ 270 \times H235	DH.WHM121608	DH.WHM121618
4,000ml, ϕ 160~162	700 W	170 mm	ϕ 325 \times H270	DH.WHM121609	DH.WHM121619
5,000ml, ϕ 169~171	800 W	170 mm	ϕ 325 \times H270	DH.WHM121610	DH.WHM121620



(3) Stand Rod, "RD300", ϕ 12.7 \times L520mm

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

Optional Stainless-steel Rod, Holder & Clamp

DH.WHP503037 (3) Stand Rod, ϕ 12.7 \times L520mm, "RD300", for Heating Mantles

DH.WHP503012 (4) Holder & Clamp, "CL220", for Temp. Sensor

DAIHAN-brand® Aluminium-case Flask Heating Mantles, (1) Basic & (2) Stirring-type, 450°C, 50~20,000ml with Built-in Temp Controller, with/without Mag-stir Speed Control, with Certi. & Traceability

- Made in Korea
- Ideal for All type Round Flask
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.
- With Powder-coated Steel-case : 10-/20-Lit.



(1) Basic-type Flask Mantle with Controller

(1) Basic-type Flask Mantles, Built-in Temp. Controller

* Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.

Flasks, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
50ml, ϕ 49 ~ 52	90 W	30 mm	ϕ 145 \times H140	DH.WHM12010	DH.WHM12020
100ml, ϕ 63 ~ 66	90 W	50 mm	ϕ 145 \times H140	DH.WHM12011	DH.WHM12021
250ml, ϕ 83 ~ 86	160 W	55 mm	ϕ 145 \times H140	DH.WHM12012	DH.WHM12022
500ml, ϕ 102 ~ 105	250 W	70 mm	ϕ 190 \times H165	DH.WHM12013	DH.WHM12023
1,000ml, ϕ 130 ~ 133	350 W	85 mm	ϕ 190 \times H165	DH.WHM12014	DH.WHM12024
2,000ml, ϕ 165 ~ 169	490 W	100 mm	ϕ 270 \times H200	DH.WHM12015	DH.WHM12025
3,000ml, ϕ 184 ~ 187	600 W	110 mm	ϕ 270 \times H200	DH.WHM12016	DH.WHM12026
4,000ml, ϕ 206 ~ 208	750 W	140 mm	ϕ 325 \times H226	DH.WHM8037	DH.WHM8037.1
5,000ml, ϕ 221 ~ 225	850 W	130 mm	ϕ 325 \times H226	DH.WHM12017	DH.WHM12027
6,000ml, ϕ 234 ~ 237	850 W	130 mm	ϕ 325 \times H226	DH.WHM12018	DH.WHM12028
10Lit, ϕ 278 ~ 282	1,500 W	205 mm	ϕ 400 \times H260	DH.WHM12019	DH.WHM12029
20Lit, ϕ 344 ~ 350	2,000 W	220 mm	ϕ 460 \times H280	DH.WHM12070	DH.WHM12071



(2) Stirring-type Flask Mantle with a Stir-Bar

(2) Stirring-type Flask Mantles, Built-in 50~75rpm Mag-stir Speed & Temp. Controller

* Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.

* 10-/20-Lit. models Square-type Outside Shape.

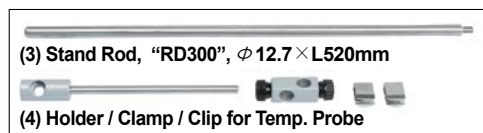
* With 1ea \times PTFE Oval-type Magnetic Stirrer Bar, L25mm.

Flasks, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
50ml, ϕ 49 ~ 52	90 W	45 mm	ϕ 145 \times H140	DH.WHM12030	DH.WHM12040
100ml, ϕ 63 ~ 66	90 W	45 mm	ϕ 145 \times H140	DH.WHM12031	DH.WHM12041
250ml, ϕ 83 ~ 86	160 W	45 mm	ϕ 145 \times H140	DH.WHM12032	DH.WHM12042
500ml, ϕ 102 ~ 105	250 W	70 mm	ϕ 190 \times H165	DH.WHM12033	DH.WHM12043
1,000ml, ϕ 130 ~ 133	350 W	90 mm	ϕ 190 \times H190	DH.WHM12034	DH.WHM12044
2,000ml, ϕ 165 ~ 169	490 W	105 mm	ϕ 270 \times H200	DH.WHM12035	DH.WHM12045
3,000ml, ϕ 184 ~ 187	600 W	105 mm	ϕ 270 \times H200	DH.WHM12036	DH.WHM12046
4,000ml, ϕ 206 ~ 208	750 W	135 mm	ϕ 325 \times H226	DH.WHM8057	DH.WHM8057.1
5,000ml, ϕ 221 ~ 224	850 W	130 mm	ϕ 325 \times H226	DH.WHM12037	DH.WHM12047
6,000ml, ϕ 234 ~ 237	850 W	130 mm	ϕ 325 \times H226	DH.WHM12038	DH.WHM12048
10Lit, ϕ 278 ~ 282	1,500 W	210 mm	440 \times 510 \times h310	DH.WHM8060	DH.WHM8060.1
20Lit, ϕ 344 ~ 348	2,000 W	230 mm	440 \times 550 \times h330	DH.WHM8061	DH.WHM8061.1

Optional Stainless-steel Rod, Holder & Clamp

DH.WHP503037 (3) Stand Rod, ϕ 12.7 \times L520mm, "RD300", for Heating Mantles

DH.WHP503012 (4) Holder & Clamp, "CL220", for Temp. Sensor



(3) Stand Rod, "RD300", ϕ 12.7 \times L520mm

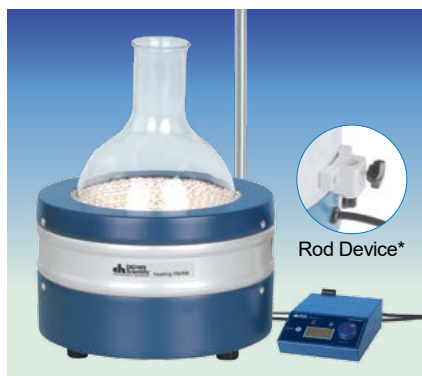
(4) Holder / Clamp / Clip for Temp. Probe

DAIHAN-brand® Remotecontrolled Flask Heating Mantles, (1) 450°C Basic & (2) 650°C High Temp-type, 50ml~100Lit. for Spherical Flask, with Nickel Chrome Heating Element, K-type Thermo-Sensor Integrated, with Certi. & Traceability, Option-Controller

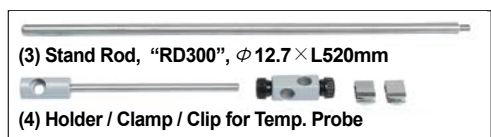
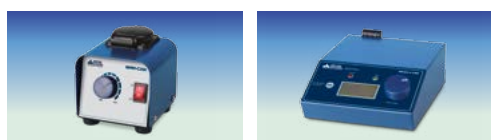
- Made in Korea
- Ideal for All type Round Flask and Use with Magnetic Stirrer
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optional Remote Thermo Controller, K-type Thermo-Sensor, and Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.
- Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.



(1) 450°C Basic-type



(2) 650°C High Temp-type



(1) 450°C Basic-type, 50ml~100Lit.

- ① with Aluminum-case, 50~6000ml ② with Powder-coated Steel-case, 10~100Lit.

Flasks, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
50ml, ϕ 49 ~ 52	90 W	30 mm	ϕ 145 \times H75	DH.WHM12050	DH.WHM12060
100ml, ϕ 63 ~ 66	90 W	50 mm	ϕ 145 \times H75	DH.WHM12051	DH.WHM12061
250ml, ϕ 83 ~ 86	160 W	50 mm	ϕ 145 \times H75	DH.WHM12052	DH.WHM12062
500ml, ϕ 102 ~ 105	250 W	55 mm	ϕ 190 \times H80	DH.WHM12053	DH.WHM12063
1,000ml, ϕ 130 ~ 133	350 W	85 mm	ϕ 190 \times H110	DH.WHM12054	DH.WHM12064
2,000ml, ϕ 165 ~ 169	490 W	105 mm	ϕ 270 \times H135	DH.WHM12055	DH.WHM12065
3,000ml, ϕ 184 ~ 187	600 W	110 mm	ϕ 270 \times H135	DH.WHM12056	DH.WHM12066
4,000ml, ϕ 206 ~ 208	750 W	135 mm	ϕ 325 \times H165	DH.WHM8078	DH.WHM8078.1
5,000ml, ϕ 221 ~ 224	850 W	130 mm	ϕ 325 \times H165	DH.WHM12057	DH.WHM12067
6,000ml, ϕ 234 ~ 237	850 W	130 mm	ϕ 325 \times H165	DH.WHM12058	DH.WHM12068
10Lit, ϕ 278 ~ 282	1,500 W	205 mm	ϕ 390 \times H240	DH.WHM12073	DH.WHM12083
20Lit, ϕ 344 ~ 348	2,000 W	220 mm	ϕ 460 \times H280	DH.WHM12074	DH.WHM12084
50Lit, ϕ 489 ~ 494	4,000 W	310 mm	ϕ 610 \times H390	DH.WHM12075	DH.WHM12085
100Lit, ϕ 609 ~ 614	6,000 W	370 mm	ϕ 740 \times H450	DH.WHM8084	DH.WHM8084.1

(2) 650°C High Temp-type, 100ml~10Lit.

- ① with Aluminum-case, 100~6000ml ② with Powder-coated Steel-case, 10Lit.

Flasks, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
100ml, ϕ 63 ~ 66	160 W	50 mm	ϕ 145 \times H75	DH.WHM12091	DH.WHM12101
250ml, ϕ 83 ~ 86	250 W	50 mm	ϕ 145 \times H75	DH.WHM12092	DH.WHM12102
500ml, ϕ 102 ~ 105	350 W	55 mm	ϕ 190 \times H80	DH.WHM12093	DH.WHM12103
1,000ml, ϕ 130 ~ 133	490 W	85 mm	ϕ 190 \times H110	DH.WHM12094	DH.WHM12104
2,000ml, ϕ 165 ~ 169	600 W	105 mm	ϕ 270 \times H135	DH.WHM12095	DH.WHM12105
3,000ml, ϕ 184 ~ 187	750 W	105 mm	ϕ 270 \times H135	DH.WHM12096	DH.WHM12106
4,000ml, ϕ 206 ~ 208	850 W	125 mm	ϕ 325 \times H165	DH.WHM8097	DH.WHM8097.1
5,000ml, ϕ 221 ~ 224	1,500 W	130 mm	ϕ 325 \times H165	DH.WHM12097	DH.WHM12107
6,000ml, ϕ 234 ~ 237	1,500 W	130 mm	ϕ 325 \times H165	DH.WHM12098	DH.WHM12108
10Lit, ϕ 278 ~ 282	2,000 W	160 mm	ϕ 400 \times H260	DH.WHM8100	DH.WHM8100.1

Optional Remote Controller

- (a) Analog Remote Controller, 5~100% of Rated Voltage, Up to 1.2kW
 (b) Digital Remote Controller, Ambient +5 ~ 700°C, \pm 1°C Uniformity at Set Temp.

Cat. No	
with 230V	with 120V
DH.WHM13500	DH.WHM23500
DH.WHM12500	DH.WHM22500

Optional Temp. Probes & Stand Rod, Holder, Clamp for Digital Temp. Remote Controller

- DH.WHP503040 Direct Contact Temp. Probe, K-type, "SS300", L250 \times ϕ 4.8 mm
 DH.WHP503050 "SS400", L380 \times ϕ 4.8 mm
 DH.WHP503041 Direct Contact Temp. Probe, K-type, "SS310", Teflon Coated, L250 \times ϕ 5 mm
 DH.WHP503051 Direct Contact Temp. Probe, K-type, "SS410", Teflon Coated, L380 \times ϕ 5 mm
 DH.WHP503037 (3) Stand Rod, ϕ 12.7 \times L520mm, "RD300", for Heating Mantles
 DH.WHP503012 (4) Holder & Clamp, "CL220", for Temp. Sensor

DAIHAN-brand® Remotecontrolled Reaction Flasks Heating Mantle, Bottom Outlet-type, 450°C, 2,000ml~50Lit. with Nickel Chrome Heating Element, K-type Thermo-sensor Integrated, with Certi. & Traceability, Option-Controller



- Made in Korea
- Ideal for All type Reaction Flasks
- Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.
- With a Device* for Holding a Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.
- Optional Remote Thermo Controller, K-type Thermo-Senser

Flasks, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
2,000ml, ϕ 165 ~ 169	550 W	110 mm	ϕ 270 \times H135	DH.WHM8222	DH.WHM8222.1
3,000ml, ϕ 184 ~ 186	550 W	195 mm	ϕ 270 \times H220	DH.WHM8232	DH.WHM8232.1
5,000ml, ϕ 224 ~ 226	800 W	215 mm	ϕ 325 \times H240	DH.WHM8233	DH.WHM8233.1
10Lit, ϕ 278 ~ 282	1400 W	200 mm	ϕ 400 \times H250	DH.WHM8226	DH.WHM8226.1
20Lit, ϕ 348 ~ 352	2000 W	230 mm	ϕ 440 \times H290	DH.WHM8227	DH.WHM8227.1
50Lit, ϕ 480 ~ 484	4000 W	300 mm	ϕ 625 \times H360	DH.WHM8228	DH.WHM8228.1

DAIHAN-brand® Fabric-Housed Heating Mantles, (1) Self Standing-base & (2) Top Cover, 450°C, 50ml~100Lit. for Spherical Flask, with Nickel Chrome Heating Element, Option-Controller, with Certi. & Traceability

- Made in Korea
- Ideal for All type Round Flask and Use with Magnetic Stirrer
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.



(1) Self Standing-base

(1) Self Standing-base Mantle

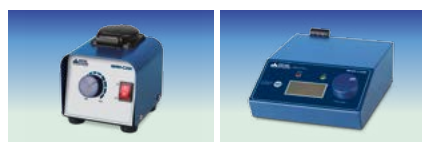
Flasks, ml Dia. ϕ mm	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (mm)	with 230V	with 120V
50ml, ϕ 49 ~ 52	90 W	30 mm	ϕ 100 \times H50	DH.WHM12110	DH.WHM12120
100ml, ϕ 63 ~ 66	90 W	50 mm	ϕ 120 \times H70	DH.WHM12111	DH.WHM12121
250ml, ϕ 83 ~ 86	160 W	55 mm	ϕ 150 \times H80	DH.WHM12112	DH.WHM12122
500ml, ϕ 102 ~ 105	250 W	75 mm	ϕ 180 \times H100	DH.WHM12113	DH.WHM12123
1,000ml, ϕ 130 ~ 133	350 W	90 mm	ϕ 210 \times H115	DH.WHM12114	DH.WHM12124
2,000ml, ϕ 165 ~ 169	490 W	105 mm	ϕ 250 \times H130	DH.WHM12115	DH.WHM12125
3,000ml, ϕ 184 ~ 187	600 W	115 mm	ϕ 270 \times H140	DH.WHM12116	DH.WHM12126
4,000ml, ϕ 206 ~ 208	750 W	120 mm	ϕ 310 \times H160	DH.WHM8108	DH.WHM8108.1
5,000ml, ϕ 221 ~ 224	850 W	135 mm	ϕ 310 \times H160	DH.WHM12117	DH.WHM12127
6,000ml, ϕ 234 ~ 237	850 W	135 mm	ϕ 310 \times H160	DH.WHM12118	DH.WHM12128
10Lit, ϕ 278 ~ 282	1,500 W	205 mm	ϕ 390 \times H260	DH.WHM12119	DH.WHM12129



<Ex.>(2) Top Cover with (1) Self Standing-base

(2) Top Cover only

Flasks, ml Dia. ϕ mm	Mantle		Catalog No.	
	Watts (W)	Outside $\phi \times H$ (mm)	with 230V	with 120V
250ml, ϕ 83 ~ 86	90 W	ϕ 136 \times H70	DH.WHM121301	DH.WHM121311
500ml, ϕ 102 ~ 105	160 W	ϕ 160 \times H77	DH.WHM121302	DH.WHM121312
1,000ml, ϕ 130 ~ 133	250 W	ϕ 183 \times H90	DH.WHM121303	DH.WHM121313
2,000ml, ϕ 165 ~ 169	350 W	ϕ 220 \times H107	DH.WHM121304	DH.WHM121314
3,000ml, ϕ 184 ~ 187	490 W	ϕ 236 \times H210	DH.WHM121305	DH.WHM121315
4,000ml, ϕ 206 ~ 208	490 W	ϕ 260 \times H130	DH.WHM8117	DH.WHM8117.1
5,000ml, ϕ 221 ~ 224	600 W	ϕ 280 \times H140	DH.WHM121306	DH.WHM121316
10Lit, ϕ 278 ~ 282	850 W	ϕ 350 \times H170	DH.WHM121307	DH.WHM121317
20Lit, ϕ 344 ~ 348	1,500 W	ϕ 420 \times H210	DH.WHM121308	DH.WHM121318
50Lit, ϕ 489 ~ 494	2,000 W	ϕ 590 \times H290	DH.WHM8121	DH.WHM8121.1
100Lit, ϕ 609 ~ 614	2,000 W	ϕ 700 \times H340	DH.WHM8122	DH.WHM8122.1



Optional Remote Controller

- (a) Analog Remote Controller, 5~100% of Rated Voltage, Up to 1.2kW
- (b) Digital Remote Controller, Ambient +5 ~ 700°C, \pm 1°C Uniformity at Set Temp.

Cat. No.	
with 230V	with 120V
DH.WHM13500	DH.WHM23500
DH.WHM12500	DH.WHM22500

DAIHAN-brand® Reaction Vessel Heating Mantles, (1) Basic & (2) Stirring-type, 450°C, 100ml~100Lit. with Built-in Temp Controller, with/without Mag-stir Speed Control, with Certi. & Traceability

- Made in Korea
- Powder-coated Steel Housing
- Ideal for All type Reaction Vessel
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Built-in Temp-Controller. Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.
- Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding a Optional Stainless-steel Rod $\phi 12.7$ mm for Article Support.



(1) Basic-type Reaction Vessel Mantle with Temp. Controller

(1) Basic-type Reaction Vessel Mantles, Built-in Temp. Controller

① with Aluminum-case, 100~500ml ② with Powder-coated Steel-case, 1000ml ~ 100Lit.

Vessels, ml Dia. $\phi \times H$ (cm)	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (cm)	with 230V	with 120V
100ml, $\phi 7 \times H9$	80 W	6.5 cm	$\phi 14.5 \times H14.0$	DH.WHM8130	DH.WHM8130.1
250ml, $\phi 7 \times H13$	140 W	9.0 cm	$\phi 19.0 \times H16.5$	DH.WHM8131	DH.WHM8131.1
500ml, $\phi 11 \times H12$	350 W	9.0 cm	$\phi 19.0 \times H16.5$	DH.WHM12146	DH.WHM12156
1,000ml, $\phi 11 \times H20$	350 W	16.0 cm	$\phi 19.0 \times H26.0$	DH.WHM8133	DH.WHM8133.1
2,000ml, $\phi 13 \times H24$	450 W	18.5 cm	$\phi 19.0 \times H26.0$	DH.WHM8134	DH.WHM8134.1
2,000ml, $\phi 14 \times H27$	550 W	24.5 cm	$\phi 20.6 \times H30.0$	DH.WHM8135	DH.WHM8135.1
3,000ml, $\phi 13 \times H32$	550 W	24.5 cm	$\phi 19.0 \times H32.0$	DH.WHM8136	DH.WHM8136.1
4,000ml, $\phi 20 \times H29$	800 W	23.5 cm	$\phi 32.5 \times H30.0$	DH.WHM8138	DH.WHM8138.1
5,000ml, $\phi 20 \times H29$	800 W	23.5 cm	$\phi 32.5 \times H30.0$		
6,000ml, $\phi 21.5 \times H32$	800 W	23.5 cm	$\phi 32.5 \times H30.0$	DH.WHM8139	DH.WHM8139.1
10Lit, $\phi 21.5 \times H45$	1,400 W	35.0 cm	$\phi 35.0 \times H40.0$	DH.WHM8140	DH.WHM8140.1
10Lit, $\phi 24 \times H41$	1,400 W	33.0 cm	$\phi 35.0 \times H36.0$	DH.WHM8141	DH.WHM8141.1
20Lit, $\phi 25 \times H47$	2,000 W	40.0 cm	$\phi 35.0 \times H45.0$	DH.WHM8142	DH.WHM8142.1
20Lit, $\phi 27 \times H45$	2,000 W	35.0 cm	$\phi 40.0 \times H40.0$	DH.WHM8143	DH.WHM8143.1
20Lit, $\phi 29 \times H42$	2,000 W	35.0 cm	$\phi 40.0 \times H40.0$	DH.WHM8144	DH.WHM8144.1
50Lit, $\phi 31.5 \times H81$	4,000 W	67.0 cm	$\phi 44.0 \times H75.0$	DH.WHM8145	DH.WHM8145.1
100Lit, $\phi 41.5 \times H91$	6,000 W	75.0 cm	$\phi 55.0 \times H83.0$	DH.WHM8146	DH.WHM8146.1



(2) Stirring-type Reaction Vessel Mantle with Temp.-Stirring-Controller and 1 \times Mag Stir bar

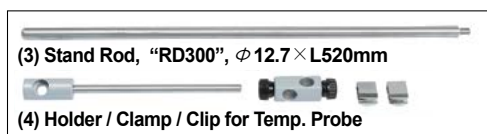
(2) Stirring-type Reaction Vessel Mantles, Built-in 50~75rpm Mag-stir Speed & Temp. Controller

* With 1ea \times PTFE Oval-type Magnetic Stirrer Bar, L25mm.

* 10-/20-Lit. models Square-type Outside Shape.

① with Aluminum-case, 100~500ml ② with Powder-coated Steel-case, 1000ml ~ 20Lit.

Vessels, ml Dia. $\phi \times H$ (cm)	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside $\phi \times H$ (cm)	with 230V	with 120V
100ml, $\phi 7 \times H9$	80 W	7.0 cm	$\phi 14.5 \times H16.5$	DH.WHM8150	DH.WHM8150.1
250ml, $\phi 7 \times H13$	140 W	9.0 cm	$\phi 14.5 \times H18.5$	DH.WHM8151	DH.WHM8151.1
500ml, $\phi 11 \times H12$	240 W	9.5 cm	$\phi 19.0 \times H19.0$	DH.WHM8152	DH.WHM8152.1
1,000ml, $\phi 11 \times H20$	350 W	16.5 cm	$\phi 19.0 \times H26.0$	DH.WHM8153	DH.WHM8153.1
2,000ml, $\phi 13 \times H24$	450 W	16.5 cm	$\phi 19.0 \times H26.0$	DH.WHM8154	DH.WHM8154.1
2,000ml, $\phi 14 \times H27$	550 W	22.5 cm	$\phi 20.6 \times H30.0$	DH.WHM8155	DH.WHM8155.1
3,000ml, $\phi 13 \times H32$	550 W	22.5 cm	$\phi 19.0 \times H32.0$	DH.WHM8156	DH.WHM8156.1
4,000ml, $\phi 20 \times H29$	800 W	23.5 cm	$\phi 32.5 \times H30.0$	DH.WHM8158	DH.WHM8158.1
5,000ml, $\phi 20 \times H29$	800 W	23.5 cm	$\phi 32.5 \times H30.0$		
6,000ml, $\phi 21.5 \times H32$	800 W	23.5 cm	$\phi 32.5 \times H30.0$	DH.WHM8159	DH.WHM8159.1
10Lit, $\phi 21.5 \times H45$	1400 W	40.0 cm	$35 \times 46 \times h48$	DH.WHM8160	DH.WHM8160.1
10Lit, $\phi 24 \times H41$	1400 W	37.0 cm	$35 \times 46 \times h39.5$	DH.WHM8161	DH.WHM8161.1
20Lit, $\phi 25 \times H47$	2000 W	48.5 cm	$35 \times 46 \times h56.5$	DH.WHM8162	DH.WHM8162.1



(3) Stand Rod, "RD300", $\phi 12.7 \times L520$ mm

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

Optional Stainless-steel Rod, Holder & Clamp

- DH.WHP503037 (3) Stand Rod, $\phi 12.7 \times L520$ mm, "RD300", for Heating Mantles
 DH.WHP503012 (4) Holder & Clamp, "CL220", for Temp. Sensor

DAIHAN-brand® Remotecontrolled Reaction Vessel Heating Mantles, (1) Plain Bottom & (2) Bottom Outlet-type, 450°C, 100ml~100Lit. with Nickel Chrome Heating Element, K-type Thermo-Sensor Integrated, with Certi. & Traceability, Option-Controller

- Made in Korea
- Powder-coated Steel Housing.
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Optional Remote Thermo Controller, K-type Thermo-Sensor, and Nickel-Chrome Heating Element "Coil-type" : Acid Resistant & Long Life Time.
- Heating Mantles for 50ml~6,000ml Flask are with a Device* for Holding an Optional Stainless-steel Rod ϕ 12.7 mm for Article Support.



(1) Plain Bottom-type Remotecontrolled Reaction Vessel Heating Mantle

(1) Plain Bottom-type

Vessels, ml Dia. ϕ × H(cm)	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside ϕ × H(cm)	with 230V	with 120V
100ml, ϕ 7 × H9	80 W	6.5cm	ϕ 14.5 × 11.0	DH.WHM8170	DH.WHM8170.1
250ml, ϕ 7 × H13	140 W	10.5cm	ϕ 14.5 × 14.0	DH.WHM8171	DH.WHM8171.1
500ml, ϕ 11 × H12	240 W	9.0cm	ϕ 19.0 × 13.5	DH.WHM8172	DH.WHM8172.1
1,000ml, ϕ 11 × H20	350 W	14.0cm	ϕ 19.0 × 16.5	DH.WHM8173	DH.WHM8173.1
2,000ml, ϕ 13 × H24	450 W	16.5cm	ϕ 19.0 × 19.0	DH.WHM8174	DH.WHM8174.1
2,000ml, ϕ 14 × H27	550 W	20.5cm	ϕ 20.6 × 22.0	DH.WHM8175	DH.WHM8175.1
3,000ml, ϕ 13 × H32	550 W	26.5cm	ϕ 19.0 × 29.0	DH.WHM8176	DH.WHM8176.1
4,000ml, ϕ 20 × H29	800 W	21.0cm	ϕ 27.0 × 22.5	DH.WHM8178	DH.WHM8178.1
5,000ml, ϕ 20 × H29	800 W	21.0cm	ϕ 27.0 × 22.5		
6,000ml, ϕ 21.5 × H32	800 W	24.5cm	ϕ 32.5 × 23.5	DH.WHM8179	DH.WHM8179.1
10Lit, ϕ 21.5 × H45	1400 W	32.0cm	ϕ 32.5 × 35.0	DH.WHM8180	DH.WHM8180.1
10Lit, ϕ 24 × H41	1400 W	32.0cm	ϕ 32.5 × 35.0	DH.WHM8181	DH.WHM8181.1
20Lit, ϕ 25 × H47	2000 W	40.0cm	ϕ 40.0 × 45.0	DH.WHM8182	DH.WHM8182.1
20Lit, ϕ 27 × H45	2000 W	35.0cm	ϕ 40.0 × 40.0	DH.WHM8183	DH.WHM8183.1
20Lit, ϕ 29 × H42	2000 W	35.0cm	ϕ 40.0 × 40.0	DH.WHM8184	DH.WHM8184.1
50Lit, ϕ 31.5 × H81	4000 W	70.0cm	ϕ 44.0 × 75.0	DH.WHM8185	DH.WHM8185.1
100Lit, ϕ 41.5 × H91	6000 W	75.5cm	ϕ 55.0 × 83.0	DH.WHM8186	DH.WHM8186.1



(2) Bottom Outlet-type Remotecontrolled Reaction Vessel Heating Mantle

(2) Bottom Outlet-type / with Bottom Drain Valve PTFE

* Bottom Outlet Hole Size : L7.2 × W4.0cm(500~2,000ml) or L12.0 × W7.0cm(3,000ml~100Lit.)

Vessels, ml Dia. ϕ × H(cm)	Mantle			Catalog No.	
	Watts (W)	Inside Depth	Outside ϕ × H(cm)	with 230V	with 120V
500ml, ϕ 11 × H12	240 W	8.5cm	ϕ 19.0 × 11.0	DH.WHM8190	DH.WHM8190.1
1,000ml, ϕ 11 × H20	350 W	14.0cm	ϕ 19.0 × 16.5	DH.WHM8191	DH.WHM8191.1
2,000ml, ϕ 13 × H24	450 W	16.5cm	ϕ 19.0 × 19.0	DH.WHM8192	DH.WHM8192.1
2,000ml, ϕ 14 × H27	550 W	16.5cm	ϕ 20.6 × 22.0	DH.WHM8193	DH.WHM8193.1
3,000ml, ϕ 13 × H32	550 W	26.5cm	ϕ 19.0 × 29.0	DH.WHM8194	DH.WHM8194.1
4,000ml, ϕ 20 × H29	800 W	21.0cm	ϕ 27.0 × 22.5	DH.WHM8196	DH.WHM8196.1
5,000ml, ϕ 20 × H29	800 W	21.0cm	ϕ 27.0 × 22.5		
6,000ml, ϕ 21.5 × H32	800 W	24.5cm	ϕ 32.5 × 23.5	DH.WHM8197	DH.WHM8197.1
10Lit, ϕ 21.5 × H45	1400 W	31.0cm	ϕ 32.5 × 35.0	DH.WHM8198	DH.WHM8198.1
10Lit, ϕ 24 × H41	1400 W	31.0cm	ϕ 32.5 × 35.0	DH.WHM8199	DH.WHM8199.1
20Lit, ϕ 25 × H47	2000 W	41.0cm	ϕ 40.0 × 45.0	DH.WHM8200	DH.WHM8200.1
20Lit, ϕ 27 × H45	2000 W	35.0cm	ϕ 40.0 × 40.0	DH.WHM8201	DH.WHM8201.1
20Lit, ϕ 29 × H42	2000 W	35.0cm	ϕ 40.0 × 40.0	DH.WHM8202	DH.WHM8202.1
50Lit, ϕ 31.5 × H81	4000 W	70.0cm	ϕ 44.0 × 75.0	DH.WHM8203	DH.WHM8203.1
100Lit, ϕ 41.5 × H91	6000 W	78.0cm	ϕ 55.0 × 83.0	DH.WHM8204	DH.WHM8204.1



<Ex.>
Heating Mantle Set with Temp. Probe and the Digital Feedback Temp. Controller "WHM - C10D"

(3) Stand Rod, "RD300", ϕ 12.7 × L520mm



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

Optional Remote Controller

- (a) Analog Remote Controller, 5~100% of Rated Voltage, Up to 1.2kW
- (b) Digital Remote Controller, Ambient +5 ~ 700°C, \pm 1°C Uniformity at Set Temp.

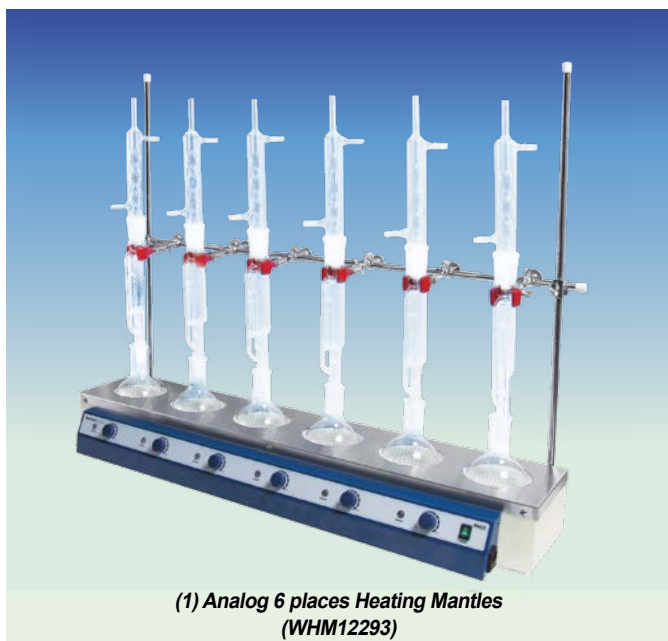
Cat. No	
with 230V	with 120V
DH.WHM13500	DH.WHM23500
DH.WHM12500	DH.WHM22500

Optional Temp. Probes & Stand Rod, Holder, Clamp for Digital Temp. Remote Controller

- DH.WHP503040 Direct Contact Temp. Probe, K-type, "SS300", L250 × ϕ 4.8 mm
- DH.WHP503050 Direct Contact Temp. Probe, K-type, "SS400", L380 × ϕ 4.8 mm
- DH.WHP503041 Direct Contact Temp. Probe, K-type, "SS310", Teflon Coated, L250 × ϕ 5 mm
- DH.WHP503051 Direct Contact Temp. Probe, K-type, "SS410", Teflon Coated, L380 × ϕ 5 mm
- DH.WHP503037 (3) Stand Rod, ϕ 12.7 × L520mm, "RD300", for Heating Mantles
- DH.WHP503012 (4) Holder & Clamp, "CL220", for Temp. Sensor

DAIHAN-brand® Analog Aluminum-case Multi Heating Mantles “WHM”, with 3 & 6 Places, 450°C, with Certi. & Traceability with Glassware Supporting Rod & Clamp, Ideal for Extraction · Reflux · Distillation Applications, Lower Profile, 250~1,000ml

- Made in Korea
- with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System
- Lower Profile for Space-saving Convenience
- Ideal for Repetitive Extraction (Kjeldahl, Soxhlet and other Extraction Procedure), Reflux and Distillation Laboratory Applications
- Analog Controller Built-in System
- Rods and Clamps for Rods Connection
- Ideal for DURAN / Kimax / Pyrex & Iwaki-brand Round Flasks
- Highly-processed Aluminum Case Offers Robust Standing, Easy Handling
- Nickel Chrome Heating Element - Coil Type : Acid-Resistant, Long Life Time
- without Clamp & Clamp Holder for Glassware ; Order Separately



(1) Analog 6 places Heating Mantles (WHM12293)

Premium Analog Multi Heating Mantles

Highly-processed Aluminum Case
Nickel Chrome Heating Element



(2) Analog 3 places Heating Mantles (WHM12391)

(1) 6 places Analog Multi Heating Mantle, 250ml, 300ml & 500ml, 450°C

Catalog No.		Flask Capacity (ml)	Flask		Watts(W)	Inside Depth (mm)	Dimension W×D×H (mm)
with 230V	with 120V		Max. Dia. φ (mm)	Bottom			
DH.WHM12291	DH.WHM12292	250/300	83 ~ 86	Flat	840	50	800×240×110
DH.WHM12293	DH.WHM12294	250/300	83 ~ 86	Round	840	50	800×240×110
DH.WHM12295	DH.WHM12296	500	102 ~ 105	Round	1440	65	950×270×130

(2) 3 places Analog Multi Heating Mantle, 500ml & 1,000ml, 450°C

Catalog No.		Flask Capacity (ml)	Flask		Watts(W)	Inside Depth (mm)	Dimension W×D×H (mm)
with 230V	with 120V		Max. Dia. φ (mm)	Bottom			
DH.WHM12391	DH.WHM12392	500	102 ~ 105	Round	720	65	550×270×130
DH.WHM12393	DH.WHM12394	1,000	130 ~ 133	Round	1050	75	690×340×170

※ Remarks : DU. : DURAN Ki. : Kimax Iw. : Iwaki Py. : Pyrex

Spare Support Rod & Clamp Set

- DH.WHM30500 Support Rod & Clamp Set, “MHR01”, for 3Places 500ml, 2×750-11×500-mm Rod and 2× Clamp for Rod
- DH.WHM31000 “MHR02”, for 3Places 1000ml, 2×750-11×600-mm Rod and 2× Clamp for Rod
- DH.WHM60250 “MHR03”, for 6Places 250-/300-ml, 2×750-11×900-mm Rod and 2× Clamp for Rod
- DH.WHM60500 “MHR04”, for 6Places 500ml, 2×750-11×940-mm Rod and 2× Clamp for Rod

DAIHAN-brand® Heating Tapes “WHM”, Standard-type, 250°C, 13 & 25mm



Heating Tapes

* For Glass Tubes Metal Pipet

Catalog No.	13mm Width × Length(m)	Watts & Volt
DH.WHM12311	13mm × 0.6m	200W, 230V
DH.WHM12312	× 1.0m	200W, 230V
DH.WHM12313	× 1.5m	250W, 230V
DH.WHM12314	× 2.0m	300W, 230V
DH.WHM12315	× 2.5m	350W, 230V
DH.WHM12316	× 3.0m	400W, 230V
Catalog No.	25mm Width × Length(m)	Watts & Volt
DH.WHM12321	25mm × 0.6m	200W, 230V
DH.WHM12322	× 1.0m	200W, 230V
DH.WHM12323	× 1.5m	250W, 230V
DH.WHM12324	× 2.0m	300W, 230V
DH.WHM12325	× 2.5m	350W, 230V
DH.WHM12326	× 3.0m	400W, 230V
DH.WHM12327	× 4.0m	550W, 230V
DH.WHM12328	× 6.0m	700W, 230V

DAIHAN-brand® Custom-Made Heating Mantles & Insulation

Ideal for Bottom Valved Vessels or General-use, “WHM”, Up to 450°C ~ 650°C

We can Offer DAIHAN Custom Heating Mantles, for which you can Specify the Outside Diameter of the Vessel, Length of Mantle, Voltage, Number of Circuits and Length of Each Heating Zone, Ambient Temperature, Unusual Ambient Conditions, Size & Location of Holes for View Ports, and Tubulations.

Please Submit a Sketch for Complicated Applications and Contact our International Sales Team or our Distributor in your Country.

- Provides Uniform Heating and Insulation for Scrubbing and Fractionating Columns.

- Closes with a Zipper, with Eyelets and laces or Hooks and laces.

- Internal Operating Temperature is up to 450°C or 650°C

Examples for Customized Heating Mantles



DAIHAN-brand® Analog Compact Temp. Controller “WHM-C10A”, up to 1.2kW, for All-Purpose Heating Instruments with Solid State, Proportional Voltage Power Control (5~100%)

■ Made in Korea ■ with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System



Analog Compact Temp. Controller “WHM-C10A”



<Ex.>
Heating Mantle Set with the Analog Compact Temp. Controller “WHM-C10A”

- Small Footprint, Compact Analog Temperature Controller
- Precise Manual Control of Heating Mantles, Tapes, Cords and Other Resistive Loads up to 1.2 kW

- * Safe and Durable Design
- * Solid state, Proportional Voltage Power Control (5~100% or Rated Voltage)

Specifications & Ordering information

Spec.	Model	“WHM-C10A”
Control Range & Capacity		5~100% of Rated Voltage, Up to 1.2 kW
Dimension & Weight		95×98×h106mm, 1 kg
Packing Size & Gross Weight		190×160×h130mm, 2 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.WHM13500

DAIHAN-brand® Digital Feedback Temp. Controller “WHM-C10D”, up to 700℃, ±0.1℃, with Back-Light LCD for All-purpose Heating Instruments, Available K-type External Direct Contact Thermocouple(Optional)

■ Made in Korea ■ with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System



Digital Feedback Temp. Controller “WHM-C10D”



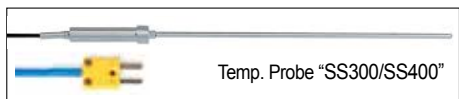
<Ex.>
Heating Mantle Set with Temp. Probe and the Digital Feedback Temp. Controller “WHM-C10D”

- User's Self-compensation Function to Control Difference between Real Temp. and Indicated Temp. (±50℃)
- Patented Jog-Shuttle Control System

- * Digital Feedback Control by High-Performance Microprocessor
- * Digital LCD with Back-Light Function
- * Storage function, Timer, Alarm & Locking Mode
- * Heating Instruments can be controlled up to 2kW.
- * Accurate Temp. Control of the Liquid in the Vessel using Optional Direct K-type Sensor
- * Small Footprint and User-Friendly Design.

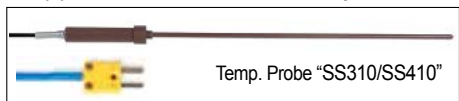
Specifications & Ordering information

Spec.	Model	“WHM-C10D”
Temp. Range & Accuracy		Ambient +5 ~ 700℃, ±1℃ at Set Temperature
Temp. Resolution		1℃-Display, 1℃-Control
Timer & Alarm		99hr 59min (Continuous run), Error status & Timer-end
Display		Digital LCD with Back Light Function (Temp., Timer)
Controller		Digital Feedback Controller with Jog Shuttle Switch (Turn+Push)
Control Capacity		up to 2 kW for 230V, 1.5kw for 120V
Dimension & Weight		145×185×h68mm, 2.8 kg
Packing Size & Gross Weight		280×250×h110mm, 4 kg
Electrical Reqts.		1 Phase, AC 120 V, 60 Hz or AC 230 V, 50 / 60 Hz
Cat. No.	230V	DH.WHM12500



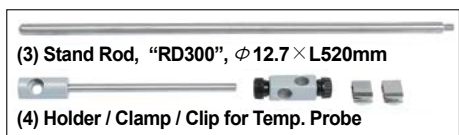
Temp. Probe “SS300/SS400”

(1) External/Direct Contact Temp. Probe



Temp. Probe “SS310/SS410”

(2) External/Direct Contact Temp. Probe, Teflon Coated



(3) Stand Rod, “RD300”, φ12.7×L520mm

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

Optional Temp. Probes & Stand Rod, Holder, Clamp

- DH.WHP503040 (1) Direct Contact Temp. Probe, K-type, “SS300”, L250×φ4.8 mm
- DH.WHP503050 (1) Direct Contact Temp. Probe, K-type, “SS400”, L380×φ4.8 mm
- DH.WHP503041 (2) Direct Contact Temp. Probe, K-type, “SS310”, Teflon Coated, L250×φ5 mm
- DH.WHP503051 (2) Direct Contact Temp. Probe, K-type, “SS410”, Teflon Coated, L380×φ5 mm
- DH.WHP503037 (3) Stand Rod, φ12.7×L520mm, “RD300”, for Heating Mantles
- DH.WHP503012 (4) Holder & Clamp, “CL220”, for Temp. Sensor