

# HYDROTHERMAL SYNTHESIS REACTOR UNIT

[11]



## Features

Excellent insulation construction minimizes heat radiation loss, for more reliable uniform temperature performance.

In the event of trouble with sensors, the temperature controller, SSR, heater or other components, the self-diagnosis unit indicates the nature of the problem and safety operations are simultaneously activated.

A GND leakage breaker is included as standard equipment, as well as a dual overheating prevention system incorporating an overheating prevention function and independent hydraulic pressure type overheating prevention unit in a design for total safety.

The units are ideal for experimentation since they are capable of accommodating several reactions between different materials simultaneously (4-8 types of reaction).



The units are ergonomically designed so that even first-time users will find them easy to operate.

## Specifications

For specifications other than these listed here, please contact Hiro Co., Ltd., Customer Services: Fax. +81-45-841-0753 Phone. +81-45-842-1616

Model	KH-01	KH-02	KH-03
Reaction Vessel Volume (cc)	50cc	100cc	200cc
No. of Reaction Vessels	4 (expandable to 12)		
Max. Pressure	3MPa		
Max. Temperature	200°C Max. 220°C Note: Material specifications allow high-temperature manufacturing.		
Principal Material	SUS304 Teflon (liquid contacting parts) Note: In other cases, manufacturing is also possible with corrosion-resistant material.		
Mixer Variable Rotation Speed	Standard Parts: 0-60 rpm (equipped with variable speed mechanism)		
Heater	Microcomputer PID control autotimer 1 min ~ 99 hrs 59 min		
Safety Equipment	Dual overheating protectors, GND leakage breaker, self-diagnosis function, temperature control accuracy: $\pm 0.5^{\circ}\text{C}$		
Power Supply 50/60Hz [Option]	AC 100V 12A [200V/220V]		AC 100V 15A [200V/220V]
External Dimensions (mm)	1000 (W) X 650 (D) X 1560 (H)		120 (W) X 700 (D) X 1610 (H)

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