

# Content

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## Brief introduction

Hydrothermal synthesis reactor is also called high pressure digestion tank, pressure dissolved shells which is finished by high quality stainless steel and PTFE. It with simple appearance, reasonable structure, while acid, alkali and corrosion are all resistance. Hydrothermal synthesis reactor is achieve the goal of rapid digestion of insoluble material by strong acid or alkali and high temperature and high pressure sealed environment in the tank. It is the right hand in sample digestion when it determined the trace elements and trace elements.

## Use and precautions

1. The heating temperature should not exceed 200 °C, heating rate  $\leq 5^{\circ}\text{C min}$ , PID temperature control system can be used to control the temperature, cooling rate  $\leq 5^{\circ}\text{C min}$ , safety pressure is 3 Mpa.

2. When you completed the reaction, please open the kettle cover until the kettle natural cooling to the room temperature.

3. The degree of filling in kettle should no more than 80%.

**Note:** when heated to 100 degrees, please keep for 1 hour and then heated to the desired temperature, to ensure the longevity and safety of the equipment.

## Technical parameter

	Model	Capacity(ml)	Material	Remarks
Hydrothermal synthesis reactor	KH-15	15	Kettle body is stainless steel and the liner is PTFE	Max. Pressure is 3 Mpa
	KH-25	25		
	KH-50	50		
	KH-100	100		
	KH-150	150		
	KH-200	200		
	KH-250	250		
	KH-300	300		
	KH-400	400		
	KH-500	500		
	KH-1000	1000		

# Liner temperature

Liner temperature		
Lining color	Safe temperature (°C)	Max.temperature (°C)
White	220	240
Gray	260	280
Black	280	300