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## User manual

### I: Product brief

Designing by European techniques, with its advance technology, stable performance, novel structure and good using effect, this equipment is widely used for in heating in labs of colleges, petrochemical industries, medicine, and environment protection institutions etc.


### II: Product overview



### III: Product introduction



IV: Product data

Model	HM                      HMC                      HMS                      HMSC									
Product Name	Heating Mantle									
Picture										
Capacity	100ml	250ml	500ml	1L	2L	3L	5L	10L	20L	
Function	Heating		Heating		Heating/magnetic stirrer					
Heating Power	100W	150W	250W	350W	450W	600W	800W	1200W	2400W	
Temperature Control	/		Digital temperature control		/		Digital temperature control			
Max Temperature	Room temp-380℃		Room temp-300℃		Room temp-380℃		Room temp-300℃			










V: Characteristics

- 1.Cold rolling sheet stretching and spraying exterior.
- 2.Use advanced digital temperature control system can precisely control the temperature of the heated liquid, easy to use, high precision, temperature display intuitive.
- 3.Using high quality nickel-chrome heating resistance wire sealed in high temperature insulation layer. Woven into half the ball in heating sets, with characteristics of large heating area, fast warm-up, high temperature evenness, no open flame and so on.

VI: Working condition

Ambient temperature: 5~40℃;  
Ambient humidity: ≤90%;  
Voltage: 110/ 220V

Safety attentions

	Connect the device to an earthed power supply to ensure safety of machine and experiment; connect the power as the machine required.
	This equipment is forbid to use in inflammable and explosive, poisonous and strong corrosive experiments.
	Make sure horizontal installation.
	Non-professionals are not allowed to disassemble and repair this machine.
	Pay attention to the set temperature while dealing with the inflammable matters.
	Make sure dry the resin container, if the temperature is setting too high by accident, the container would be dissolved and then fall on the heater to cause fire.
	Overfilled of sample will lead to overheat of working room under parts, which will dissolve the inflammable material and cause fire.
	While the machine is working, don't touch the top, window and exhaust port of the device to protect from high-temperature burns.
	Read the instruction book before operation.

VII: Operation instruction

- a)Place the equipment on level worktable, put the sensor frame, and plug it into sensor block on the back of the instruments
- b)Fill a liquid container in the instrument, and set the sensor in the heated liquid.
- c)Use the same voltage as the machine required, and then the instrument's screen will display the temperature of the liquid.
- d)Set temperature: after press “S” ,the green button “Set” indicator light, the screen display the set temperature, and press the arrow keys to select the temperature you want to use. After setting temperature, press “S” to display the actual temperature.
- e)When heated the red indicator light, lights off when not heated.
- f)When temperature rose to the set temperature at the first time, it may be washed for few degrees; it will stabilize down when the temperature came down.
- g)Stirring adjust: Adjust the stirring speed by turn the knob clockwise.

VIII: Usage notes

- 1.Because of the surface of heat insulation material is coated with grease, in the first used shall first heat except when heating oil, will appear white smoke, shut off the power after heating to smokeless, when the temperature come down, it can normal use.
- 2.When use the instrument should pour the liquid into the container firstly, and then put in the instrument to use.

IX: Fault analysis

Phenomenon	Causation	Treatment
No power	Poor connect of socket and plug circuit not closes.	Adjust the socket and plug Adjust the circuit
No heating	Heating jacket wire is broke	Chang heating jacket
No temperature control	The control panel is broke	Change control panel

Product conformity certificate

Product Name :                      Heating Mantle

Model number : ☐ HM                      ☐ HMC                      ☐ HMS                      ☐ HMSC

Production date : \_\_\_\_\_

Manufacturer : JoanLab Equipment(Zhejiang) Co., Ltd.