



Laboratory Equipment Manufacturer
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INSTRUCTION MANUAL FOR

HOD-010M

Homo Disperser

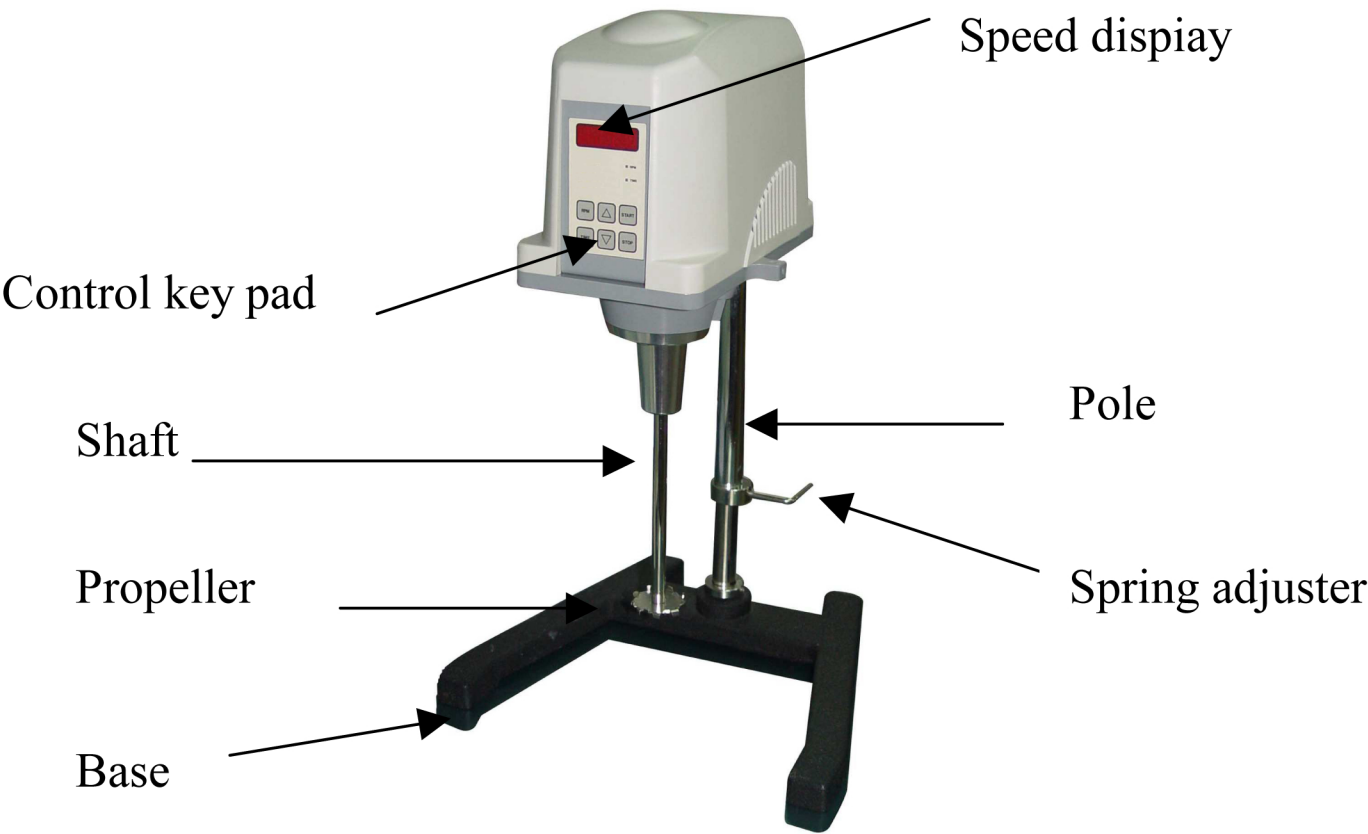


PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATION

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I 、STRUCTURE



II 、SPECIFICATION

Model	HOD-010M
Capacity (L)	0.1 ~5
Power	220V, 50 / 60 Hz
Motor	DC 220W
Timer	1~99 h/59 mins
Speed (rpm)	1000~12000
Control	Microprocessor control
Safety device	Fuse
Size	270 x 210 x 560 mm
Size	399 x 376 x 840
Weight (kg)	17

III 、 OPERATION INTRODUCTION

1. First , adjust speed control button to “ 0” , then plug into an outlet with specified electric source. Open on switch.
1. Setting the Speed(rpm)
 - A. Push **【RPM】** (flash) , then push π or θ , to setting the speed .
 - B. Final to Push **【RPM】** , again to seated.
 - C. Push **【START】** , working to speed you seated .
2. Setting the Timer :
 - A. Push **【TIME】** , show, 00:00 °
 - B. Then push again **【TIME】** (flash) , choose π or θ , to set the time you need .
 - C. Push again **【TIME】** , finish seated °
 - D. Push **【START】** , auto timer start. Small yellow light on. And flash
 - E. Auto stop when time over.
3. Auto over heat protect is insid of Motor. , If the temp. of Motor over 75 degree C, the motor will auto stop, if temp. down later. (it need about 30 mins to reach 55 deree C) , then can working again and re-start. Please notice with the capacity to avoid over load. °
4. This machine protect with the Fuse, the fuse will auto cut off in heavy and over load.
5. Please notice , there is at least 1CM away from the bottom of container.
6. With a spring elevator pole , easy to position with.

IV · ATTENTION

1. Use only one power source.
2. Match the rotation speed to the water speed.
3. Do not over load working, it's will damage with the carbon bursh and also the motor.

V · INSPECTION

When the machine is out of order, please check up whether:

1. The carbon brush on the two sides of the motor are out of using or in bad contact. (Take them out and renew while out of using.)
2. The fuse burns out or not.

- **If everything down on above instruction, and still not working please send it back to the agent for examination & maintenance. ***

VI, Erro massage:

1. Signal of display :

Signal	Status	description	Repairing
Err-1	1. motor can not drive	Carbon brush connect badly. Wire matched badly. The controller is out of order.	1. check carbon brush 2. check wiring 3. check the outlet of controller 4. replace controller
	2. motor stops during operating	Carbon brush connect badly. Wire matched badly. The controller is out of order.	1. check carbon brush 2. check wiring 3. check the outlet of controller 4. replace controller
	3. Motor over speed	Sensor is out of order (Hall IC) . The controller is out of order.	1. check sensor or replace new one (Hall IC) 2. check wiring 3. check the controller
COOL	1. motor is over-heat	Temp. switch skips away.	After temp. is cooler then operate it again
	2. motor stops running	Temp. switch is out order. Wire matched badly.	1. check temp. switch or replace new one. 2. check wiring.

VII, CIRCUIT DIAGRAM

