



Laboratory Equipment Manufacturer
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INSTRUCTION MANUAL FOR

RC-200/450

High Speed Stirrers

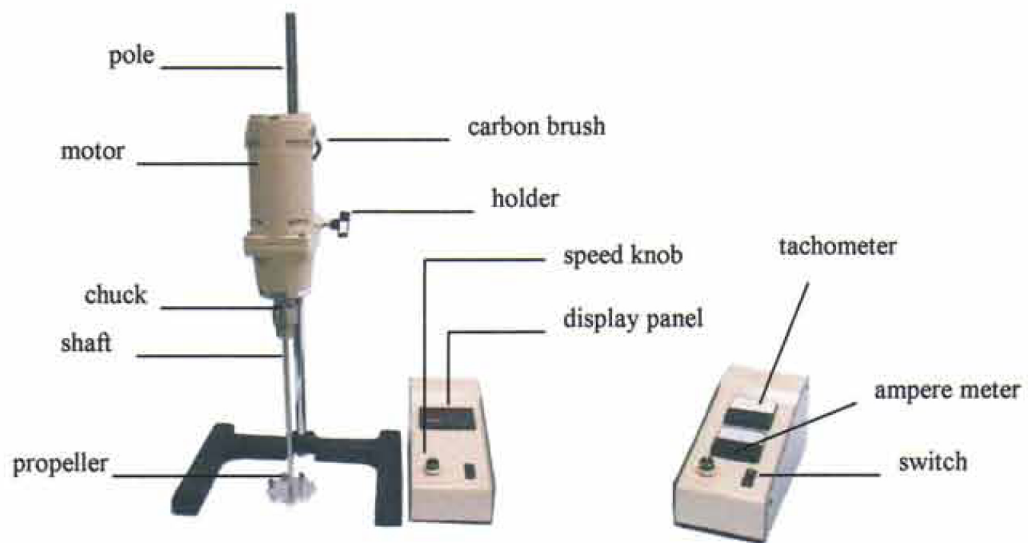


PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATION

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(I) STRUCTURE:



(II) SPECIFICATION:

Model	RC-200	RC-450
Speed (rpm)	0~4,000	0~4,000
Max. Torque (kg-cm)	7	18
Motor	DC 200W	DC 900W
Safety Device	Overheat and shutdown system	
	Over-current protection device	
	Glass fuse	
Shaft Diameter	\varnothing 1~10mm	\varnothing 1~10mm
Coating	Medicine resisting coating	
Voltage	AC110 / 220V, 50 / 60Hz	AC220V, 50 / 60Hz
Ampere	4.2A / 2.1A	6.5A

(III) STANDARD ACCESSORY:

1. Stirring shaft : stainless steel SUS304, \varnothing 8 x 350mm
2. Propeller: No. 11 (\varnothing 5cm, 8cm one pc. each)
3. Holder : \varnothing 19 x 19mm
4. Stand base: W370 x D270 x H40 mm, approx. 7.7kgs
5. Pole : \varnothing 19 x H 800 mm, approx. 1.8kgs

(IV) OPERATION :

1. Connect motor with controller together.
2. Turn the speed knob to be " 0 " then plug the power cord.
3. Adjust the speed knob to increase speed gradually and to be proper speed.
4. Thermal circuit breaker is at inside of motor. When motor's temp. is at approx. 75°C, the breaker will stop operation to prevent motor brunt. Until the motor's temp. reduced under 55 °C (approx.) then it can operate again. Meanwhile, please cut off the power and turn the speed to be "0".

Caution: When the machine stirs again, if it stops operation again , please reduce stirrer's volume.

5. Control system with over-current protection can protect the machine's stirring under certain ampere flow, when sample is high viscosity.
6. When replace new carbon brush , please let the machine running at 1000rpm for 1~2 hours without stirring any sample. This way will make motor's life longer.
7. Propeller and stirring container should depend on sample's liquid to use it. (Such as density and viscosity)
8. The machine can fit more than 2 pieces of propeller to stir sample liquid but depend on its torque load.

(V) CAUTION:

1. Please avoid using the same power source with high electricity machine .
2. The machine running over-loading will shorten motor's life.

(VI) ASSEMBLE PROCEDURE:

1. Put pole on the stand base and tighten screw.
2. Install main unit onto the pole and adjust the proper height for stirrer's shaft.
3. Loosen the screw at the end of shaft then put on propeller and fasten to the end of stirrer's shaft.
4. Loosen chuck clockwise; insert the shaft into chuckhole. The shaft should be put straight without any slope. Take the chuck's handle to tighten chuck.

(VII) TROUBLE SHOOTING:

1. To check if carbon brush use out or bad connection, if it uses off then replace new one.
Carbon brush is at both sides of motor.
2. To check if fuse brunt.
3. To check if the speed knob is normal.

If above are available, please return the machine to local distributor.

(VIII) CIRCUIT DIAGRAM:

