

## Abstract of Intelligent Jar Tester

Jar Tester is one originated intelligent testing instrument. It is the crystallization of Mr. Li's research in the field of coagulant over 30 years and it is the perfect combination with the modern microelectronic control technology. This product is now a sharp tool for hundreds of water supply companies and universities, with included world famous companies, Veolia Water and Suze Water, Hongkong University etc.

1. All parameters (speed, time, G..) are display in the Large-size LCD. Each operation step has instruction and the operation is very simple just by pressing keys.

2. Jar tester can store 12 groups of programs, and each one has 10 rotation speed steps. The edit and revision of the program are very convenient

3. **Synchro run**: all paddle run the same program.

**Independent run**: six paddles can run different programs at the same time, so the times of the test can be greatly reduced and the influences to the coagulation results by different mixing processes can be compared

4. Jar tester is equipped with high-accurate stepping motor. The speed is controlled by the digital signals sent by the

chip,so the speed is very accurate,the running of the paddles is completely synchro and the results of multiple tests conform to each other

5.Jar tester calculates G &GT value (speed gradient )automatically to match well with the production practice.Jar tester can measure the temperature of water sample automatically for the calculation of G value and GT value.

6. Automatic agent dosing: after the set speed or time is reached,the prepared agent can be dosed to the beaker synchronously.

Automatic elevating: after mixing is completed,the paddle will elevate above the water surface automatically thus will not influence the sedimentation of flocks.

7.Controller and the main machine is separated to facilitate the maintenance and changing parts.The functions of mixing,agent dosing and elevating &downing are controlled by three PCBs which can be replaced easily if there is malfunction.The service cost is very low and the repair is very quick.

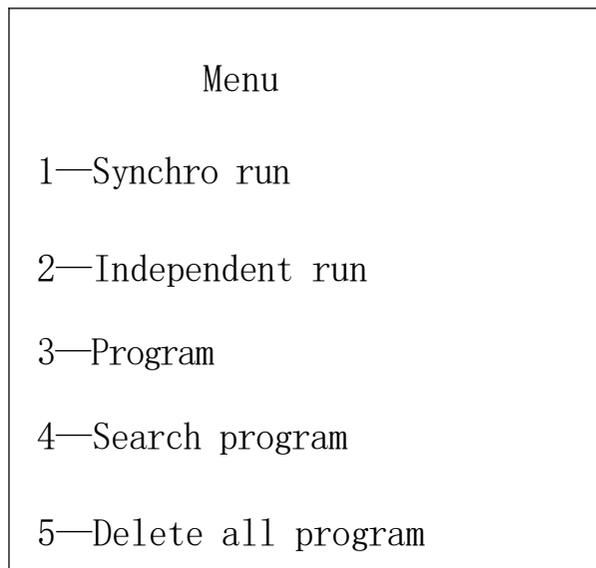
## Specifications of Jar Tester

Model	ZR4-6	ZR4-4	ZR4-2
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Description		Six Beaker Desktop type	Four Beaker Portable type	Two Beaker Portable type
Gross Weigh	Kg	33.0	11.0	8.5
Net Weight	Kg	30.0	9.5 Include Carrying Case	7.2 Include Carrying Case
Shipping Carton	cm	95×48×53	61×45×27	56×47×25
Base Unit	cm	1080×35×40	55×39×21 Include Carrying Case	46×33×17 Include Carrying Case
Acrylic Round Beaker		1.0L. 中 11cm, H18cm	0.6L. 中 9.5cm, H13cm	1.0L, 中 11cm, H18cm
Acrylic Square Beaker		1.5L. 11×11×17cm		
Power	W	180	80	40
Rotation Speed	rpm	20~1000, in 1-rpm increments, Accuracy: ±0.3%		
Speed Gradient	(G)	20~1000 Second <sup>1</sup> . Just for round beaker		
Running Time min		Each step:0-99min, 10 step each program		
Temperature	°C	0-50°C, Accuracy: ±1°C		
Voltage	V	AC220V, ±5% (Special:110V)		
Frequency:	Hz.	50/60		

## Our Operation Picture

### 1. Main Menu



## Write and Revise Program

Program No. :03		←Return		
Paragraph	Min.	Sec.	RPM	Agent
01	00	20	560	Ⅰ
02	00	20	300	1
03	00	30	200	0
04	02	00	150	0
05	02	00	080	1
06	02	00	040	0
07	15	00	000	0
08				
09				

10				
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Agent: '1' pour automatically, '0' don't-pour

### 3. Synchro run

Program	No. :06
Total 08 Seg.	No. 02
02 min 30 sec	360 rpm
G:470.9	Temp. :26°C
Stirring	↓—End

#### 4. Independent run

Jar	Prog.	Total	No.	Min.	Sec.	RPM	Status
1	02	08	01	01	00	500	Stir
2	04	06	02	01	20	760	Stir
3	05	08	05	02	20	080	Stir
4	07	08	01	02	20	760	Stir
5	09	07	03	04	20	400	Stir
6	12	08	01	00	30	110	Stir
G:	1-579		2-368		3-185		

4—79.5	5—31.3	6—4.8
Stirring	↓—End	T:30℃