

Desktop Constant Temperature Shaker(LCD)

Characteristics:

- Ultra-low speed start, auto-lock when speed out of control, adjustable start-up speed .
- Multi-stage speed, temperature and time control system.
Can set different speed, temperature and time in one time, automatic change operating mode during working.
- Silent fan design, forced air convection mode and unique air circulation structure, ensure good temperature uniformity.
- Automatic refrigerating mode, environmental friendly cryogen, automatic control for refrigerating system on and off based on ambient temperature.
- Intelligent refrigerate without frost, automatic defrosting function, can set time and interval time for defrosting, ensure machine in stable operation under low temperature. With refrigerating delay start-up function to protect compressor.
- Three rotation mode for chose positive rotation inversion reciprocal and mutual conversion.
- LCD display temperature, time and speed on same screen.
- With fault self-diagnosis, indicating fault location and fault code, to help find problem and solve problem .
High precision speed control PID feedback control, avoid damage from long time motor working at low speed causing motor under over heating.
- Equipped with servo motor, control speed accuracy, high and low speed performance.
- Selected imported compressors meet the international environmental protection requirements, safe fluorine free refrigeration, and low noise.
- With ultraviolet disinfection (including air duct disinfection) and lighting functions.



Main Technical Parameters:

Desktop Constant Temperature Shaker(LCD)		
Name	FSI-70	
Model	FSI-70	FSI-70C
Control Mode	PID Microcomputer Processing Chip	
Cycle Mode	Forced Air Convection	
Oscillation Mode	Cyclotron Oscillation	
Display Mode	LCD Display	
Drive Mode	Single-Dimensional Drive	
USB Data Download System	Yes (optional)	
Control System	Standard Mode;Continuous Mode;Programable Mode(multi-stage temperature,speed and time control)	
Rotary Speed Range (rpm)	0, 20-450 (Static Cultivate, Positive And Negative Rotation)	
Rotary Accuracy (rpm)	± 1	
Amplitude (mm)	Φ26	
Max Capacity (clamp)	100ml x 23 or 250ml x 15 or 500ml x 9 or 1000ml x 6 or 2000ml x 4	
Max Capacity (stick mat)	100ml x 30 or 250ml x 20 or 500ml x 9 or 1L x 8 or 2L x 4	
Standard Configuration	500ml x 3 250ml x 3 100ml x 4 50ml x 4	
Plate Size (mm)	450 x 410	
Timer Range (h/min)	0-9999 (with timing function,continuous operating)	
Temperature Range (°C)	Temperature Range+5-65	4-65 (25°C)
Temperature Accuracy (°C)	± 0.1	
Temperature Uniformity (°C)	± 0.5 (37°C, Effective Working Area)	
Temperature Motion (°C)	≤0.1 (37°C)	
Tray Number	1 piece	
External Size (mm)	750 x 710 x 520	
Capacity (L)	70	
Power (W)	550	650
Power Supply	AC220 ± 10% 50-60HZ	
Ambient Temperature (°C)	5-30	
Additional Function	Ultra-low speed start, adjustable start speed, automatic over speed protection, timer monitor,parameter memory,electricity incoming recovery, refrigeration unit overload protection and electricity incoming delay start, automatic defrozing,upper and lower limits over temperature acoustooptical alarm, automatic stop by door opened (optional),LED light, UV sterilizing function (optional), parameter setting for viewing, calibration for monitor temperature and ambient temperature.	

Multifunctional Water Baths Shaker

◎ Low noise and steady reciprocating oscillating water bath cultivation equipment.

Characteristics:

- Large-screen background LCD, shows the measured value, set value and the setting time and the remaining time.
- High-precision temperature control. resume operation automatically if power off unexpectedly.
- High-precision speed control: PID feedback control, motor speed stable and accurate. the precision ± 1rpm slow start design, automatically locked after speed out of control, adjustable start speed prevent splashing of shaking bottle liquid.
- Tube rack and water bath flask seat for standard configuration, with function of water bath.



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Main Technical Parameters:

Model		FWS-30
Mode		Reciprocating oscillation + thermostatic water bath
Function	Operating Temp Range	RT-100°C
	Tem. Rasolution Ratio	0.1°C
	Tem. Motion	± 0.1°C
	Tem. Uniformity	± 0.2°C
	Reciprocal Oscillation Amplitude	16 or 24mm (Ex-factory is 16mm)
	Reciprocating Frequency Range	20 ~ 180 (r/min)
Structure	Reciprocating Frequency Accuracy	± 1rpm
	Water Tank	Mirror stainless steel
	Outer Shell	Cold rolling steel electrostatic spraying exterior
	Upper Cover	Mirror stainless steel
	Insulating Layer	Polyurethane
	Heater	Stainless steel electric heater tube
Controller	Driving Mode	Crankshaft+ double link + four wheels
	Shelf	Mirror stainless steel
	Power Rating	1.5kW
	Tem. Control Mode	LCD PID Intelligent control
	Reciprocating Control Mode	
	Setting Mode	Touch button setting
Safety Device	Tem. Display Mode	LCD Display
	Speed Display Mode	
	Timer	0 ~ 9999 min
	Operation Function	Fixed value operation. timing function, auto stop, quickly stop start
	Temperature Sensor	PT100
	Speed Sensor	Hoare
Specification	Additional Function	Deviation correction, menu keys locked, power-off memory
	Water Tank Size (W*L*H)(mm)	500*310*200
	Exterior Size (W*L*H)(mm)	828*360*425
	Packing Size (W*L*H)(mm)	912*480*605
	Spring Shock Basket Size (mm)	395*250
	Shock Basket Largest Single Size (ml /piece)	100ml*12/250*8/500*6
Accessories	Inside Volume	31L
	Shock Basket Bearing	5kg/layer
	Current Rating (50Hz)	AC220V/6.8A
	NW/GW (kg)	20/30
	Water bath flask seat. tube rack, Customized Flask Clip Tray(Optional)	