

Horizontal Shaking Incubator FM-SI-A400



Description :

Horizontal shaking incubator FM-SI-A400 is a microprocessor PID controlled system, features orbital shaking mode and LCD backlight display. It is a heating type of incubator offers temperature range of RT +5°C to 60°C and 30 to 300 rpm high precision shaking speed. Designed with transparent window door for clear observation and pneumatic spring for stable lid opening. Inside chamber is made up of stainless steel & powder coated outer steel body. Its smooth running start/stop system helps in preventing liquid spillage. It is useful for quality, research and testing purpose across laboratories, institutes.

Specifications :

Chamber Capacity	187 L
Controller	PID (Environmental Scanning Microprocessor)
Shaking mode	Orbital
Rotating speed	30 to 300 rpm
Rotating accuracy	± 1 rpm
Vibration range	50 mm
Temperature range	RT +5°C to 60°C
Temperature accuracy	± 0.1°C
Temperature uniformity	± 1°C
Working environment temperature	25 °C

Working environment humidity	20% to 90%
Drive mode	Single shaft balance device
Circulation mode	High speed convection
Display	LCD (simultaneous display of working and set parameters)
Refrigerant	-
Cooling consumption	-
Heating consumption	800 W
Timing range	0 to 999.59 h continuous
Shaking plate size	920 × 500 mm
Shaking plate quantity	1 pc
Chamber material	Polished stainless steel
External material	Steel with powder coating
Safety function	Audio and visual alarm for over temperature, alarm for over speed
Power	960 W
Power supply	AC 200 V to 240 V, 50/60 Hz
Internal dimension (W × D × H)	970 × 550 × 350 mm
External dimension (W × D × H)	1250 × 740 × 840 mm

Packaging dimension (L × W × H)	1340 × 860 × 1070 mm
Net weight	159 kg

Features :

- Microprocessor PID control with acoustic and visual alarm
- LCD backlight display with working parameters
- Offers orbital shaking mode and convection circulation mode
- Durable single shaft drive technology
- Pneumatic spring for stable lid opening
- Automatic power cut, audio and visual alarm for over temperature
- Data recovery after automatic power off
- Built-in lighting system for convenient observation
- 120 W AC inductive brushless motor
- Stainless steel chamber and powder coated steel body
- Smooth shaking mode provide stable and reliable operation
- Transparent glass window and built-in light for observation
- Automatic stop function when door is open

Applications:

Used for microbial cell cultures, entomology, solubility tests, metabolic studies, stability studies, haematological studies, food processing, quality control analysis, mixing of reagents, pilot scale and pharmacy experiments.

Accessories:

Accessories no.	Accessories name	Unit
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1	Fluorescent lamp	1
2	UV lamp	1
3	Shaking tray	2
4	Flask clamp	500 ml × 28 and 1000 ml × 22

Accessories Optional:

Accessories no.	Accessories name	Unit
1	Humidity testing / control system	1
2	Gas inlet	1
3	Illumination system 15000 Lux	1

Standard Configuration:

Specification		Standard Quantity	Maximum capacity
Triangle Flask clamp (PCS)	250 ml	-	36
	500 ml	28	28
	1000 ml	-	18
	2000 ml	-	10
	5000 ml	-	-

Note: Other sizes listed above can be offered as standard configuration to replace the size with standard quantity alternatively.

Optional Configuration:

Specification		Maximum capacity
Tube rack (diameter)	18 ml	208
	Special size	Available for both stainless steel and ABS plastic
Universal spring tray	Standard size	450 × 900 × 80 mm
	Special size	To be customized



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