

Incubated Shakers (Floor Standing)

Large capacity up to five 6L flasks and heavy workload shaking with rapid heating and cooling performance.

Exclusive drive mechanism with ergonomic design delivers years of trouble-free service.



REMOTE CONTROL
with your **MOBILE DEVICE**
see page 8-9



ISF-7100R

Optional accessories see page 95-97

- Universal/Dedicated platforms
- Spring wire racks, Microplate holders, Gateway

※ Above products design can be changed without prior notice.



User-friendly design



Clear viewing window



Gas spring lid



Performance

- Temperature range:
 - Ambient +5°C to 80 °C for ISF-7100 / 7200
 - Ambient -20°C (Min. 4) to 80°C for ISF-7100R / 7200R
- Competitive high shaking speed up to 500 rpm.
 - from 30 to 500 rpm for ISF-7100(R)
 - from 30 to 300 rpm for ISF-7200(R)
- Orbital shaking motion in various diameter.
 - 25.4mm for ISF-7100(R)
 - 50.8mm for ISF-7200(R)
- Microprocessor PID control.
- Three point temperature calibration / Automatic tuning.
- Wide speed range even with heavy workload.
 - Ideal DD(Direct Drive) brushless motor and triple cam system support heavy load, quiet, maintenance free operation and deliver high torque at high speeds and smooth rotation.
- Best effort run function intelligently manages its rpm to keep shaking even workload is out of its capacity.
 - Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.
- Pleasant test environment by the smooth acceleration and deceleration control.
 - Smooth start and smooth stop function prevents chemical spills from flasks or test tubes.
- High-velocity fan ensures uniform temperature distribution and rapid thermal recovery after door open.
- Air-tight silicone door seal with lockable door for safe storage of samples.

Convenience

- Intuitive touch screen LCD controller with easy icons and logical menus.

- Easy-set digital timer for shaking operation. (1 min. to 999 hr. 59 min.)
- Easy sample monitoring and convenient sample loading.
 - Clear observation of samples without affecting inner chamber's environment thanks to the transparent top viewing window with bright LED lamps.
 - The lid is inclined gently towards the front for easy observation of samples in the chamber.
 - Gas spring lid supports providing smooth motion, soft opening and closing.
- Repetitive task can be easily performed as the platform stops where it starts.
 - Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process.
- Corrosion resistance stainless steel interior.
- Easy-access drain system with a quick disconnect valve offers great convenience to clean up of spills.
- Built-in RS-232 port and USB port for external control and data collection.
- Sturdy foot caster, beneficial for easy mobility during installation or relocation.

Safety

- Automatic run after power interruption.
- Temperature and shaking speed deviation alarm.
- Over-current protection.
- Triple independent temperature monitor system.
 - Temperature deviation alarm (High/Low)
 - Electronic temperature limiter (High/Low)
 - Mechanical over-temperature limiter (High)
- Environment-friendly CFC-free refrigerant. (for ISF-7100R / 7200R)
- Audible and visible open door alarms.

	Model	ISF-7100	ISF-7100R	ISF-7200	ISF-7200R	
Temperature	Range (°C / °F)	Amb. +5 to 80 / Amb. +9 to 176	Amb. -20 (Min. 4) to 80 / Amb. -36 (Min. 7.2) to 176	Amb. +5 to 80 / Amb. +9 to 176	Amb. -20 (Min. 4) to 80 / Amb. -36 (Min. 7.2) to 176	
	Fluctuation at 37°C in flask (±°C / °F)	0.1 / 0.18				
	Variation at 37°C in flask (±°C / °F)	0.5 / 0.90				
	Refrigerator (Hp)	-	1/6Hp	-	1/6Hp	
Shaking system	Motion type	Orbital				
	Amplitude size (mm / inch, dia.)	25.4 / 1			50.8 / 2	
	Speed range (rpm)	30 to 500			30 to 300	
	Accuracy	±1% of set speed (>100rpm) / ±1 (≤100rpm)				
	Timer	1 min. to 999 hr 59 min.				
	Max. load (kg / lbs)	15 / 33.1 at 500 rpm 25 / 55.1 at 400 rpm 35 / 77.2 at 300 rpm			20 / 44.1 at 300 rpm 35 / 77.2 at 200 rpm	
Dimension	Volume (L / cu ft)	270 / 9.5				
	Platform (WxD) (mm / inch)	755x520 / 29.7x20.5				
	Interior (WxDxH) (mm / inch)	894x634x480 / 35.2x25x18.9				
	Exterior (WxDxH) (mm / inch)	1128x854x1035 / 44.4x33.6x40.8				
	Net weight (Kg / lbs)	277 / 610.7	287 / 632.7		277 / 610.7	287 / 632.7
Electrical requirements (230V)	50 / 60Hz, 3.7A	60Hz, 5.6A	50Hz, 5.6A	50 / 60Hz, 3.7A	60Hz, 5.6A	50Hz, 5.6A
Cat. No.	AAH23342K	AAH23542K	AAH23541K	AAH23442K	AAH23642K	AAH23641K
Electrical requirements (120V)	60Hz, 7.3A	60Hz, 10A		60Hz, 7.3A	60Hz, 10A	
Cat. No.	AAH23375U	AAH23575U		AAH23475U	AAH23675U	

※ Temp. change may occur during automatic defrost. (for ISF-7100R/7200R)

※ FDA establishment registered company. FDA listed products.