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ISS-7200R - Incubated Shakers (Stackable)

Order code: 9002.AAH239232K



Information about product price on demand

**Parameters** 

Volume

Temperature range

Brand, Manufacturer

Inner dimensions (w  $\times$  d  $\times$  h) [mm]

Quantitative unit

198 I

Amb. -20°C (Min. 4°C) to 80°C

Lab Companion

809×624×393 [mm]

ks

### **Advantages of Stackable Model**

- Large shaking capacity chamber allows user to freely organize different size of samples.
  - 198L chamber can accommodate six of 4L flasks and also thirty nine of 250ml flasks. You can make the capacity triple, if you stack three units.
- Maximize your space with our triple stackable incubated shaker.
  - Highly recommended for users who want to maximize limited space. Have three units in your lab while taking up minimal space. In addition, high rpm is still guaranteed even when you stack up 3 units.
- Lift up opening door and slide out platform enables easy sample handling.
  - Door is opened upward and stayed open for hands-free handling. Slide type universal platform let you access to all samples, even ones placed at the back.
- Optional stand is available and highly recommended for comfort use. Setting your incubated shaker at your height let you feel totally relaxed when you use it anytime.(optional)

#### **Performance**

- Temperature range:
  - Ambient -20°C (Min. 4) to 80°C
- Competitive high shaking speed up to 400 rpm. (Stackable up to 250rpm)
  - From 30 to 300 rpm (stackable: 30 to 200)
- Orbital shaking motion in 19.1mm diameter.
  - 50.8 mm
- 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 to provide excellent temperature uniformity.

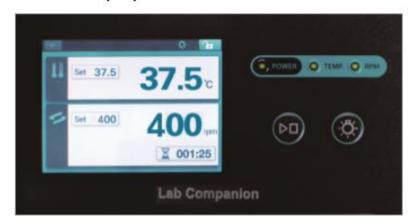
#### Convenience

- 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.)
- · Wide sample monitoring.
  - Clear observation of samples without affecting inner chamber's environment thanks to the transparent viewing window with bright LED lamps.
- 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.
- Two adjustable-height shelves provided allow static incubation or refrigeration, which increase storage capacity.
- Built-in electrical outlet with a safety cover inside the chamber.
- 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.
- The unit comes with retractable 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, Stalled platform check.
- 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.

# Control display



## Lift up opening door



### **Technical Data:**

Model		ISS-7100	ISS-7100R	ISS-7200	ISS-7200R
Temperature	Range (°C / °F)	Amb. +10 to 80 / Amb. +18 to 176	Amb20 (Min. 4) to 80 /Amb36 (Min. 7.2) to 176	Amb. +10 to 80 /Amb. +18 to 176	Amb20 (Min. 4) to 80 /Amb36 (Min. 7.2) to 176
	Fluctuation $37^{\circ}$ C in flask ( $\pm^{\circ}$ C / $^{\circ}$ F)	0.1 / 0.18			
	Variation at $37^{\circ}$ C in flask ( $\pm^{\circ}$ C / $^{\circ}$ F)	0.5 / 0.90			
	Refrigerator(Hp)	-	1/6Hp	-	1/6Hp
	Motion type		Orbital		
Shaking system	Amplitude size (mm / inch, dia.)	25.4 / 1		50.8 / 2	
	Speed range (rpm)	30 to 400 (stackable <sup>2)</sup> : 30 to 250)		30 to 300 (stackable <sup>2</sup> ) : 30 to 200)	
	Accuracy	±1% of set speed (>100rpm) / ±1 (≤100rpm)			
	Timer	1 min. to 999 hr 59 min.			
	Max. Load (kg / lbs)	20 / 44.1 at 400 rpm 15 / 33.1 at 250 rpm (stacked) 20 / 44.1 at 200 rpm (stacked)		20 / 44.1 at 300 rpm 15 / 33.4 at 200 rpm (stacked) 20 / 44.1 at 150 rpm (stacked)	
Dimension	Volume (L / cu ft)	198 /7.1			
	Platform (W×D, mm / inch)	755×520 / 29.7×20.5			
	Interior (š×h×v, mm / inch)	809×624×393 / 31.9×24.6×1	5.5		
	Exterior <sup>1)</sup> (š×h×v, mm / inch)	1310×996×755/ 51.6x39.2x29.7			
	Net weight (kg / lbs)	365 / 804.7	375 / 826.7	365 / 804.7	375 / 826.7
Electrical requirements		230V/50Hz, 3.7A	230V/50Hz, 5.6A	230V/50Hz, 3.7A	230V/50Hz, 5.6A

 $<sup>\</sup>ensuremath{\mbox{\$}}$  Above specifications can be changed without prior notice.

- 1) Main body dimension with retractable foot caster.
- 2) Stacked with stand or products.

 $<sup>\</sup>ensuremath{\,\raisebox{.4ex}{$\star$}}$  Temp. change may occur during automatic defrost. (Pro ISS-7100R / 7200R)