



**CRYSTAL TECHNOLOGY
& INDUSTRIES, INC.**

Top-Hinge Incubator Shaker IS-RDD3A/IS-RSD3A

Suitable for small scale experiments



Company Introduction

For over 25 years, Crystal Technology & Industries has been driven to deliver more value to the global scientific community. Our approach utilizes the experience and skills of our over 40 engineers collaborating closely with top tier research institutions worldwide to design and develop products with application specific features and cutting-edge technology that provide the scientist with more innovative solutions.

This brochure details Crystal's versatile Benchtop Incubator Shakers with optional refrigeration (IS-RDD3A has built-in refrigeration module with auto-defrost) with advanced features in drive technology, temperature control and easy of use to help scientists. All our products undergo extensive testing to ensure superior quality. That is why every piece of equipment from Crystal Industries comes with our industry leading 2-year Warranty administered by our in-house, factory trained engineers.

Our presence is global with dedicated offices/warehouses in North America, Europe and Asia. Our goal is to consistently provide total customer satisfaction felt locally in our products and services. We look forward to serving the scientific community now and the future.

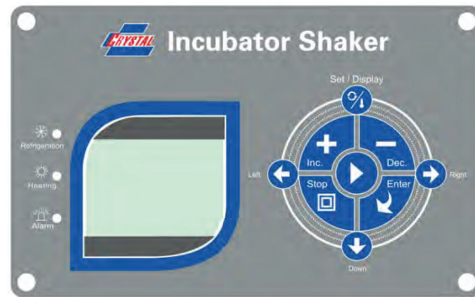


BRINGING SCIENCE AND TECHNOLOGY TO LIFE!

Overview

IS-RDD3A/IS-RSD3A TOP-HINGE INCUBATOR SHAKERS

Crystal's versatile Benchtop incubator shakers feature an easy to use keypad to Set and Change parameters, as well as Stop and Run the units. In addition, indicators let users know at a glance when the Refrigeration or Heating functions are operating. Alarm conditions are also clearly indicated on the keypad.



- ⊘ Settings
- ➡ Move Cursor Right
- ➡ Move Cursor Left
- ⬇ Move Cursor Down
- + Plus Setting Value
- Minus Setting Value
- ⏹ Confirm Setting
- ▶ Run
- ⏹ Stop



Top-Hinge Incubator Shakers

IS-RDD3A/IS-RSD3A Top-Hinge Incubator Shakers

Crystal's versatile benchtop incubator shakers with optional refrigeration (IS-RDD3A has built-in refrigeration module with auto-defrost) are designed to provide an optimal environment to shake flasks, tube racks, and microplates safely. These incubators are quiet, easy to operate, and convenient to load. Incubator Shakers are ideal for cell culture, solubility studies, extraction procedures, protein expression, and many other applications.

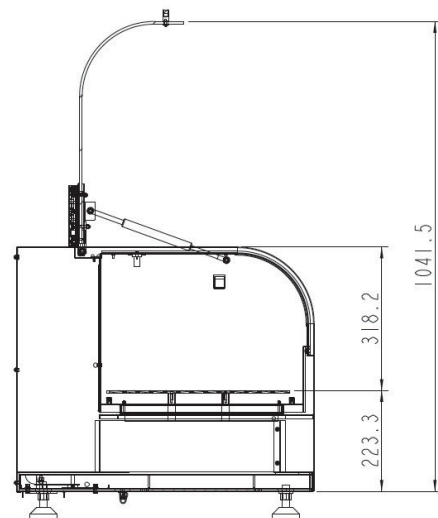
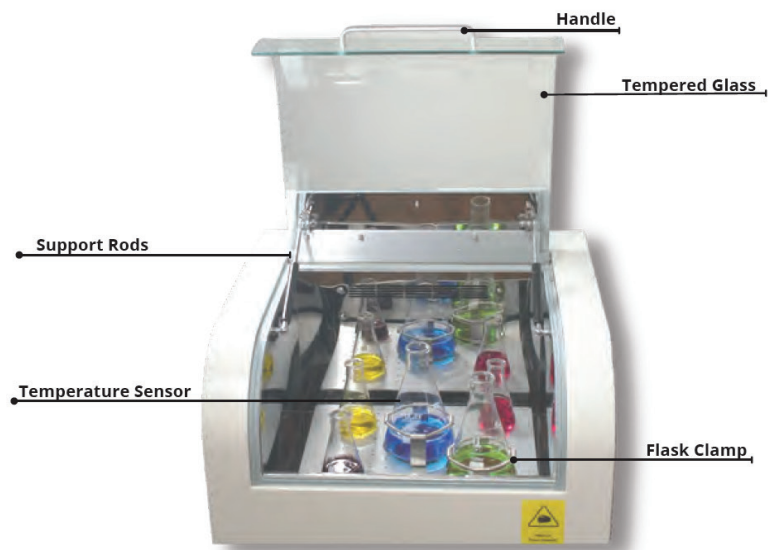
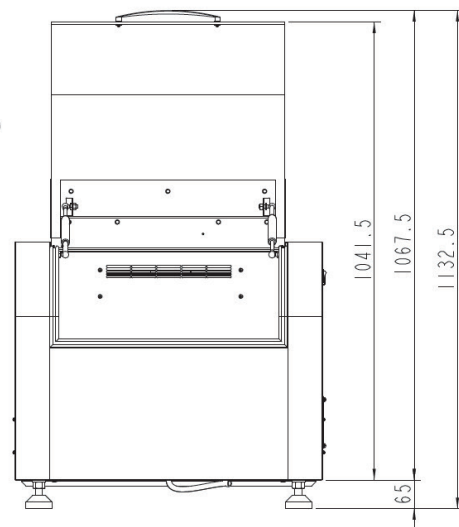


◆ Features

- Easy to use LCD user interface
- Precise Proportional-Integral-Derivative temperature control resulting in $\pm 0.1^{\circ}\text{C}$ accuracy
- Highly efficient inverted compressor refrigeration system allows for temperatures as low as 15°C below room temperature or 4°C with low energy consumption (IS-RDD3A only)
- Clear curved tempered glass window for viewing samples without disturbing chamber temperature
- Terminal feedback system ensures precise shaking speed
- Designed to reduce noise for quiet operation
- Max capacity is 8 x 1L flasks
- Timer 0~999 hours
- Audible and visual alarms activate when abnormal parameters are detected
- Program mode allows user to set up to 6 segments of varying temperature and speed

Model	IS-RDD3A	IS-RSD3A
Product Name	Top-Hinge Incubator Shaker with Cooling	Top-Hinge Incubator Shaker
Temp. Range	Ambient -15°C ~ 60°C (Lowest Temp is 4°C)	Ambient $+5^{\circ}\text{C}$ ~ 60°C
Temp. Accuracy	$\pm 0.1^{\circ}\text{C}$	
Temp. Uniformity	$\pm 0.5^{\circ}\text{C}$ (@ 37°C)	
Speed Range	0rpm, 30~400rpm	
Speed Accuracy	$\pm 1\text{rpm}$	
Orbit Diameter	$\varnothing 26\text{mm}$	
Programmable Segments	6 Segments	
Timer	0-999hrs	
Platform size	450 x 400mm (17.72 x 15.75in)	
Number of Platforms	1	
Maximum Capacity	Clamp capacity: 42x50mL / 25x100mL / 24x150mL / 20x200mL / 20x250mL / 12x500mL / 8x1000mL / 4x2000mL Sticky mat: 56x50mL / 42x100mL / 30x150mL / 30x200mL / 24x250mL / 20x300mL / 14x500mL / 9x1000mL / 4x2000mL	
Power	<700W	<500W
Power Supply	AC 110V / 60Hz	
Working Chamber Height	310mm (12.2in)	
Outer Dimensions (WxDxH)	712 x 687 x 628mm (28.03 x 27.05 x 24.72in)	
Inner Dimensions (WxDxH)	500 x 460 x 350mm (19.67 x 18.11 x 13.78in)	
Net Weight	242lb (110kg)	220lb (100kg)
Certification	CE	

Top-Hinge Incubator Shakers



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Accessories



Test Tube Rack



Adjustable Test Tube Rack



96-Well Microplate Holder



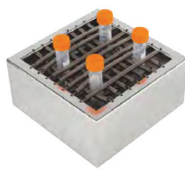
Various Flask Clamps



Bioreactor Tube Holder



Mini Universal Spring Platform



Mini Universal Spring Platform



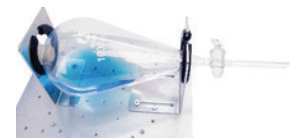
Sticky Mat



Multi-Microplate Holder



Infusion Bottle Clamp



Fixture for Separating Funnel

Item Number	Item Type	Specifications	Max Capacity
IS-A50	Various Flask Clamps	Holds 25mL Flask	42
IS-A1		Holds 50mL Flask	42
IS-A2		Holds 100mL Flask	25
IS-A3		Holds 150mL Flask	24
IS-A4		Holds 200mL Flask	20
IS-A5		Holds 250mL Flask	20
IS-A6		Holds 500mL Flask	12
IS-A7		Holds 1000mL Flask	8
IS-A8		Holds 2000mL Flask	4
IS-A47		Sticky Mat	140 x 140mm (5.51 x 5.51in)
IS-A122	280 x 280mm (11.02 x 11.02in)		1
IS-A11	Tube Rack	Holds 40 Tubes x Ø14mm	4
IS-A12		Holds 40 Tubes x Ø16mm	4
IS-A23		Holds 40 Tubes x Ø18mm	4
IS-A24		Holds 27 Tubes x Ø22mm	4

Item Number	Item Type	Specifications	Max Capacity
IS-A20	Adjustable Angled Tube Racks	Holds 40 Tubes x Ø14mm	4
IS-A21		Holds 40 Tubes x Ø16mm	4
IS-A30		Holds 40 Tubes x Ø18mm	4
IS-A31		Holds 27 Tubes x Ø22mm	4
IS-A32		Holds 21 Tubes x Ø30mm	4
IS-A37		Holds 24 Tubes x Ø30mm	2
IS-A19	Mini Universal Spring Platform	165 x 165 x 80mm	4
IS-A22		450 x 400 x 80mm	1
IS-A27		350 x 240 x 80mm	2
IS-A35	Fixture for Separating Funnel	Holds Separating Funnels of ≥500mL	4
IS-A33	Infusion Bottle Clamp	Holds 50mL Infusion Bottle	9
IS-A34		Holds 1000mL Infusion Bottle	8
IS-A13	Microplate Holder	96-Well Microplate Holder	9
IS-A175	Multi-Microplate Holder	Holds up to 6 Standard Microplates	10
IS-A166	Bioreactor Tube Holder	Holds 450mL Bioreactor Conical Tubes	2



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