

Shakers

Next-level shaking versatility and control

IntelliStack Incubator and CO₂ Incubator Shakers



Thermo Scientific™ IntelliStack™ Incubator and CO₂ Incubator Shakers, 3 Stack

Supported applications

- Cell culture
- Scale up bioproduction
- Cell and molecular biology research
- QA / QC assays

Benefits

- Precise control of temperature, humidity, shake speed, and CO₂*
- High-capacity, slide-out 35 x 22 in. platform, capable of fitting 8 5 L flasks**
- Bidirectional UV light
- Energy efficient and quiet operation
- Real-time parameter monitoring with alarms and connectivity, up to 2 years of data stored
- Customizable programming, thresholds, user-access controls
- 24-month warranty

IntelliStack Incubator Shakers and CO₂ incubator shakers enable accurate, adjustable, and reproducible growth conditions to support cell growth and other applications requiring orbital shaking – including bioproduction. Capable of stacking up to three units, regardless of CO₂ gas or orbit, the IntelliStack Incubator Shaker allows for exceptional flexibility in your research and scale up workflows.

Each unit can independently control temperature, humidity, and shake speed. IntelliStack CO₂ Incubator Shaker models additionally allow for precision CO₂ gassing. The IntelliStack comes with either 25 mm or 50 mm orbital diameter options, excellent for a wide range of vessel sizes and culture volumes. A large shaking platform can fit as many as eight 5 L flasks. Dedicated accessory options are available including clamps for tube racks and shake flasks, as well as spring platforms. Whether you need one unit or multiple, you can customize your setup according to your workflow requirements and processing volume as you needs evolve.

The easy to clean polished stainless-steel interior, efficient vapor-based humidification system (Fig. 3), slide out platform and 254 nm bidirectional UV light minimize contamination risk. 12-step programmability complements a full suite of user access controls (Fig. 1) and customizable alarms (Fig. 2). USB or RS-485 options are included for connectivity and data management.

*CO₂ control for IntelliStack Incubator CO₂ Shaker models only

**Using adhesive mats and 5L flasks with < 13.7 in. height

Specifications for IntelliStack Incubator and CO₂ Incubator Shakers

Specification	Description
Overview	
Platform dimensions	35.4 x 22.0 in., 900 x 560 mm
Chamber height	13.7 in., 348 mm
User interface	10-in. touchscreen
Stacking	Up to 3 units, mixed
UV	Bidirectional UV, 254 nm
Shaking	
Orbital diameter	25 mm or 50 mm
Shake speed	25 mm: 30 – 350 ±1 rpm, 50 mm: 30 – 300 ±1 rpm
Max shake speed, 3-unit stack	250 rpm (middle), 220 rpm (top)
Temperature	
Range	Ambient -18 °C to 60 °C (4 °C lowest)
Accuracy	0.1 °C
Uniformity	± 0.3 °C at 37 °C
Recovery time, door opening	≤ 6 min at 37°C
Operating ambient temperature	10 to 35 °C
Humidity	
Range	Ambient RH + 10 % to 90 %
System	Vapor injection, unidirectional
Water quality	Deionized, 0.5 to 1 MΩ/cm
Carboy size**	10 L
CO₂	
Range	0 % to 20 %
Accuracy	± 0.2 % at 5 % CO ₂
Display accuracy	0.1 %
Sensor type	Infrared
Recovery time, door opening	≤ 6 min at 5 % CO ₂
Electrical	
Power supply	120 V 50 / 60 HZ, 220 V 50 / 60 Hz
Total power	≤ 1,000 W
Heat power	≤ 850 W
Cooling power	70 to 180 W
Capacity	
Max load at max rpm	44.1 lbs, 20 kg
Max load at 200 rpm	55.1 lbs, 25 kg
Dimensions	
Internal dimensions (W x H x D)	39.6 x 13.7 x 27.2 in., 1005 x 347 x 690 mm
Exterior dimensions (W x H x D)	55.1 x 26.8 x 34.9 in., 1400 x 680 x 886 mm
Net weight	683.4 lbs, 310 kg
General information	
Connectivity	USB or RS-485
Access port – standard	1, left side
Data Storage	> 912 days
Data Logged	Time, Temp, CO ₂ %, Speed, Humidity, Unit Status
Noise Level	≤ 60 dB
Certifications	UL, CE

*Additional models available (220 V, downswing, 50 mm orbital)

**Separate carboy purchase required. Feeds up to 3 units per carboy.

***For CO₂ Incubator Shaker models only

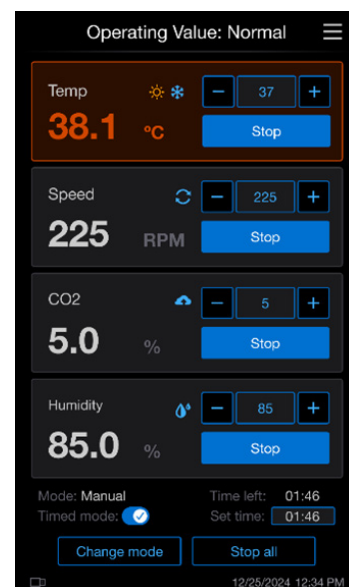


Figure 1. Independent parameter control, manual or programmed mode.



Figure 2. Customizable alarms

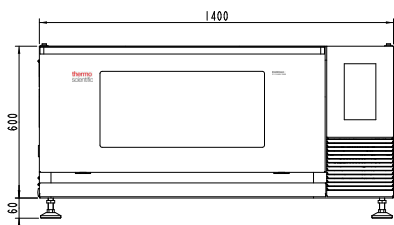


Figure 3. Humidification carboy

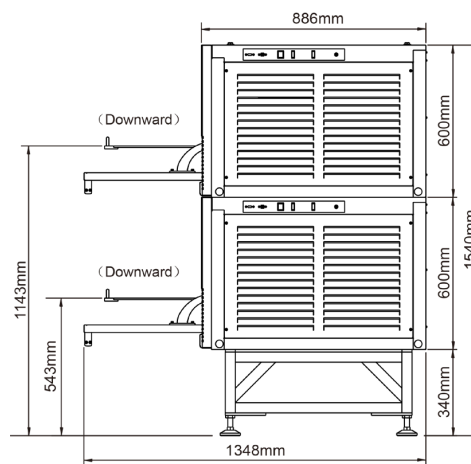
Ordering information

Specification	Cat. Nos.	
IntelliStack Incubator Shakers	120 V, 50 / 60 Hz	220 V, 50 / 60 Hz
Down swing door, 25 mm orbit	8882610D	8882620D
Up swing door, 25 mm orbit	8882610U	8882620U
Down swing door, 50 mm orbit	8885010D	8885020D
Up swing door, 50 mm orbit	8885010U	8885020U
IntelliStack CO₂ Incubator Shakers		
Down swing door, 25 mm orbit	8892610D	8892620D
Up swing door, 25 mm orbit	8892610U	8892620U
Down swing door, 50 mm orbit	8895010D	8895020D
Up swing door, 50 mm orbit	8895010U	8895020U
Accessories		
Carboy kit		88900001
Front window cover for light-sensitive applications		88900002
Open frame stand for use with single or double IntelliStack Shakers		88900000
Closed frame stand for use with single or double IntelliStack Shakers		88900003
Stacking kit		88STACKIT

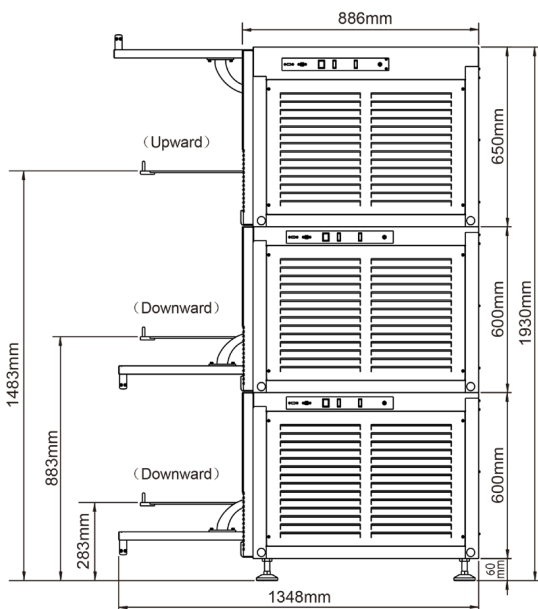
Front dimensions



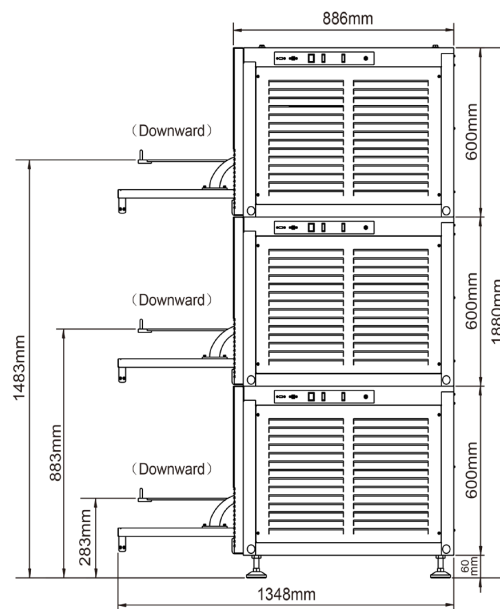
Dimensions of a 2-unit stack with doors opening downward



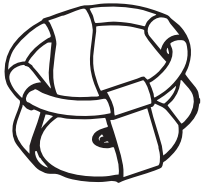
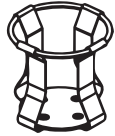
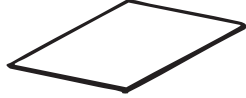
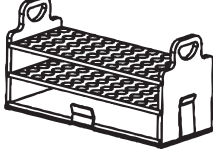
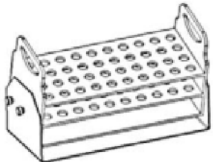
Dimensions of 3-unit stack with top door opening upward



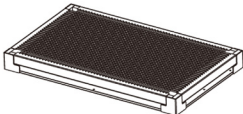
Dimensions of 3-unit stack with doors opening downward



IntelliStack platform accessories

Description	Size	Max Qty	Cat. No.
Flask clamps			
	25 mL	134	88881135C
	50 mL	134	88881105
	100 mL	60	88881106
	150 mL	60	88881107
	200 mL	60	88881108
	250 mL	60	88881109
	500 mL	32	88881110
	1,000 mL	22	88881111
	2,000 mL	15	88881112
	3,000 mL	12	88881113
	5,000 mL	6	88881114
Infusion media bottle clamps			
	500 mL	40	88881115
	1,000 mL	28	88881116
Adhesive mats			
	140 x 140 mm	24	88881126
	High adhesion		
	200 x 200 mm	15	75004126
	280 x 170 mm	10	75004127
	Low adhesion		
	200 x 200 mm	15	75004111
	280 x 179 mm	10	75004117
Sep funnel clamp			
	500 mL	32	88881110
Fixed test tube racks			
	40 x 14 mm	9	88881118
	40 x 16 mm	9	88881119
	40 x 18 mm	9	88882118
	27 x 22 mm	9	88881136
	21 x 30 mm	9	88882119
Adjustable test tube rack			
	40 x 14 mm	9	88881120
	40 x 16 mm	9	88881137
	40 x 18 mm	9	88881138
	27 x 22 mm	9	88881139
	21 x 30 mm	9	88881140
	24 x 30 mm	6	88881141

IntelliStack platform accessories (cont.)

Description	Size	Max Qty	Cat. No.
Micro plate holder			
	500 mL	32	88881110
Spring platforms			
	720 x 440 x 80 mm	1	88881143
	350 x 240 x 80 mm	4	88881144
	450 x 400 x 80 mm	1	88881145
	428 x 295 x 80 mm	2	88881146

Learn more at thermofisher.com/shakers

thermo scientific

For laboratory use. It is the customer's responsibility to ensure that the performance of the product is suitable for the customer's specific uses or applications. © 2025 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific or its subsidiaries. **SPEC-10446145 0725**