

OrbiCult™ Shakers

Exceptional Choice for Versatile and Reliable Shaking Application





Alarm System

- Produces 5 audible alarm on each end-run
- Speed deviation alarm

Digital LED —

- Displays all information simultaneously on the screen
- Easy-to-use design which enables to set precise parameter
- Audible and visible alarm alert any undesirable situation
- Automatically restart after power interruption for the nonvolatile program saved in the memory

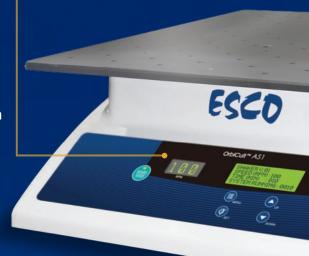
SmartRun™: Imbalance Compensation Algorithm

- Excellent out-of-balance sensor and propriety imbalance compensation algorithm adjust the optimum rpm to ensure smooth operation without any vibration
- PID (Proportional-Integral-Derivative) Microprocessor for speed control system



TriDrive™: Triple-Eccentric Counterbalanced Drive System

- Robust triple-eccentric counterbalanced drive supports long service life
- Two types of orbit (19 mm and 25 mm) that meet different applications
- Brushless DC motor provides consistent and no vibration rotation
- Wide Speed Range: 15 575 rpm
- Low noise and low heat emission
- Installed with acceleration / deceleration circuit to prevent spillage



OrbiCult™ Ambient Shaker Model: AS1-NC-19





Connecting Alarm Contacts

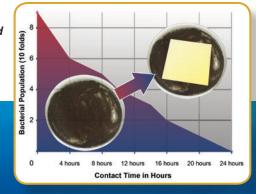
Located at the back of the unit to monitor speed, shaker imbalance, and power recovery alarms



- Audible alarm can be turned on or off, but the visual alarm will remain activated
- LED will light up red during the alarm

ISGCIDE™ Powder Coat

Easy-to-clean external surface coated with Isocide™ to eliminate 99.9% of surface bacteria within 24 hours of exposure



Large Capacity with Slim Structure

■ Maximum capacity of 30 Kg



CO₂ Resistant Model

- Designed with material resistant components that adapt to CO₂ and humid environment that ensures the AS1 CO₂ resistance model to have a long-term worry-free operation
- Suitable for cell incubation application.

 AS1 C series fit in Esco 170 L and 240 L

 CelCulture® and CelMate® series CO₂

 incubator



Leveling Feet

Built-in leveling feet that can be adjusted to level the unit



Multiple Interchangeable Platform

- Customizable to accommodate different applications
- Three interchangeable platform sizes are available to minimize footprint
- Has two types of Platform: Universal Platform and Dedicated Platform

Common	Application	List of O	rbiCult™ Sha	10
Common	Application	n List of O	rbiCult™ Sha	ΚE

Cell Culture	Bacterial Suspension
Solubility Testing	Growth of Bacteria and Yeast
Extraction Procedures	Washing Procedures
Diagnostics Tests	Hybridization
General Mixing	Staining and Destaining





SmartRun™: Imbalance Compensation Algorithm

 Excellent out-of-balance sensor that adjusts the optimum rpm to ensure smooth operation without any vibration

SmarTouch™: Large 5.7" intuitive touchscreen displays every parameter and status of your shaker at a glance

- **■** Easy-to-use design enables to set parameter precisely
- Historical setting can easily track and review from the touchscreen

Alarm System

- Produces 5 audible alarm on each end-run
- Speed deviation alarm
- High and low temperature alarm from the set point
- Unbalanced load on shaker platform
- Audible alarm can be turned on or off, however the visual alarm will still remain activated even when the audible alarm is off



Transparent Acrylic Hood

- Durable and only half as heavy as glass
- Clear cover allows easy viewing of samples
- Door sensor pauses the driver rotation when the chamber door is open



TriDrive™: Triple-Eccentric —— Counterbalanced Drive System

- Robust triple eccentric counterbalanced drive supports long service life
- Two types of orbit (19 mm and 25 mm) that meet different applications
- Brushless DC motor provides consistent and no vibration rotation
- Wide Speed Range: 15 575 rpm
- Low noise and low heat emission
- Installed with acceleration/deceleration circuit to prevent spillage



Large Capacity with Slim Structure

■ Maximum capacity of 30 Kg



Leveling Feet

Built-in leveling feet that can be adjusted to level the unit



OrbiCult™ Incubator Benchtop Shaker Model: IBS-R-19-3

Precise and Wide Temperature Range

- Refrigerated: 10°C below ambient to 80°C Non-refrigerated: 5°C above ambient to 80°C Built with forced convection ventilation to ensure accurate temperature avoiding possible deviations during the operation
- Environment-friendly design
- World-class compressor with low energy consumption
- Temperature sensor stops the heater or compressor in any exceeded temperature

Access Port

 Ergonomic design that gives easy access for temperature validation and mapping



Environment-Friendly Refrigeration System

Uses CFC-free refrigerant, good for the environment



Easy access to transport data log and alarm log to an external hard disk



Gas Manifold Port

- Add versatility for aerobic and anaerobic cultivation
- Available with a 12-port gas manifold option
- Allows the operator to supply gas directly to the culture medium of 12 individual flasks



Connecting Alarm Contacts

Located at the back of the unit to monitor speed, shaker imbalance, and power recovery alarms

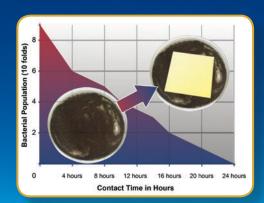


Medium-sized Platform

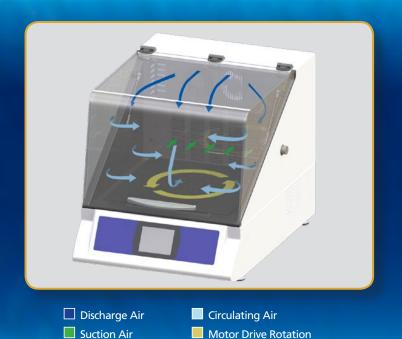
- Suitable platform is available to maximize the area inside the chamber
- Has two types of Platform: Universal Platform and Dedicated Platform

ISOCIDE™ Powder Coat

Easy-to-clean external surface coated with Isocide™ to eliminate 99.9% of surface bacteria within 24 hours of exposure

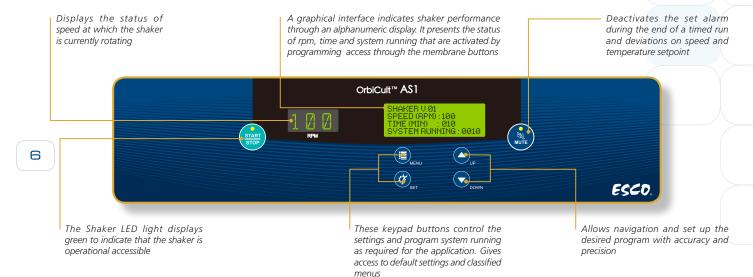


Common Application List of OrbiCult™ Incubator Benchtop Shaker							
Cell Culture	Bacterial Suspension						
Solubility Studies	Growth of Bacteria and Yeast						
Extraction Procedures	Washing Procedures						
Diagnostics Tests	Hybridization						
General Mixing	Staining and Destaining						

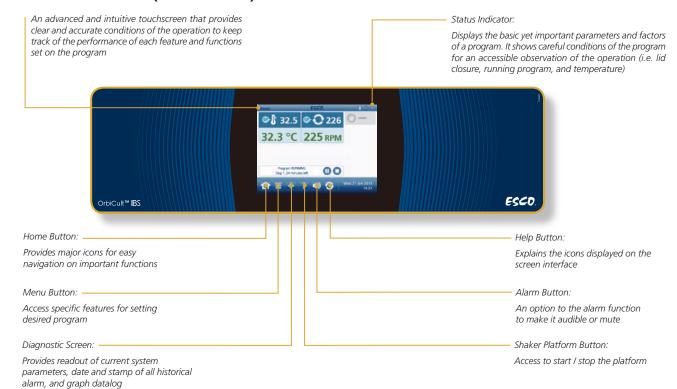


- **Airflow Circulation**
- Two circulating fans located on top of the perforated panel disperse and distribute the air inside the chamber
- Perforation located below the circulating fan absorbs the air to recirculate the air inside the chamber
- Platform performs counterclockwise rotation based on the motor drive motion
- Air temperature changes during suction process
 - For refrigerated unit, the evaporator located behind the perforated panel will cool down the air
 - For non-refrigerated unit, a heater located below the circulating fan will heat up the air

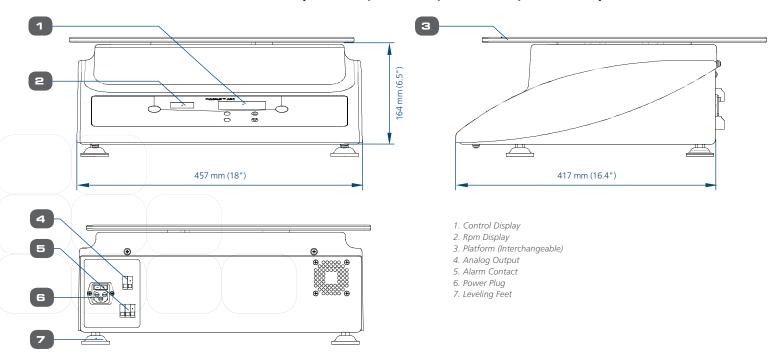
Digital LED Controller (for AS1 model)

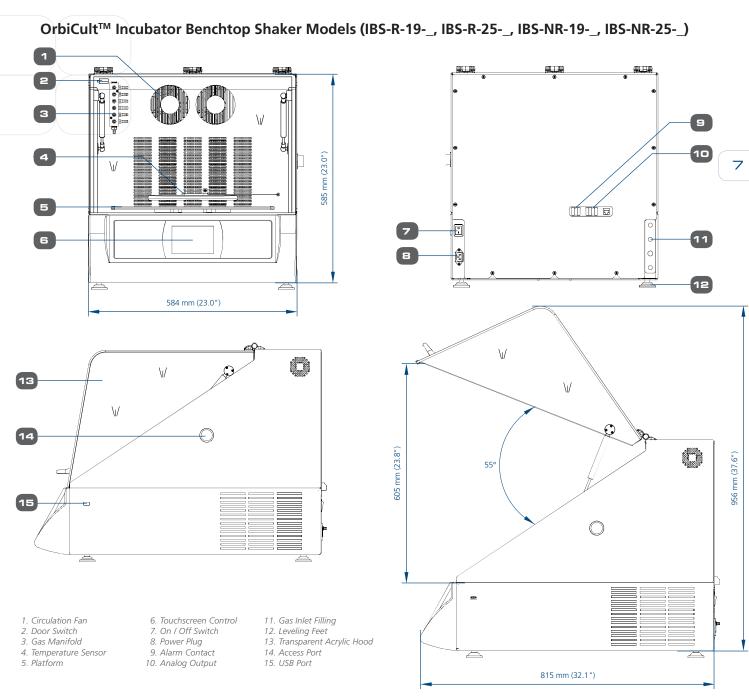


SmarTouch™ Controller (for IBS model)



OrbiCult[™] Ambient Shaker Models (AS1-C-19, AS1-C-25, AS1-NC-19, AS1-NC-25)





						TECHNI	CAL SPE	CIFICATIO	ON						
Model		AS1 -C-19 2200002	AS1 -C-25 2200004	AS1 -NC-19 2200001	AS1 -NC-25 2200003	IBS -NR-19-8 2200009	IBS -NR-25-8 2200011	IBS -NR-19-9 2200010	IBS -NR-25-9 2200012	IBS -R-19-1 2200005	IBS -R-25-1 2200007	IBS -R-19-2 2200006	IBS -R-25-2 2200008	IBS -R-19-3 2200015	IBS -R-25-3 2200016
Electrical Supp	oly	1	100 - 240 VAC, 50 / 60 Hz				50 / 60 Hz	115 VAC,	50 / 60 Hz	230 VA	C, 50 Hz	115 VAC	C, 60 Hz	230 VA	C, 60 Hz
Orbit Size		19 mm (0.7")	25 mm (1.0")	19 mm (0.7")	25 mm (1.0")	19 mm (0.7")	25 mm (1.0")	19 mm (0.7")	25 mm (1.0")	19 mm (0.7")	25 mm (1.0")	19 mm (0.7")	25 mm (1.0")	19 mm (0.7")	25 mm (1.0")
Speed Range								15 - 5	75 rpm						
rpm Accuracy								+ /	- 1						
Display		Digital LE	D and 4 line	LCD messa	ge center					Colored To	uchscreen				
Timer			9999 minutes							999 hrs and	l 59 minute	5			
Maximum Loa	ıd	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)							25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	
External Dime (W x D x H)	ension	430 x 417 x 164 mm (16.9" x 16.4" x 6.5")				584 x 815 x 585 mm (23.0" x 32.1" x 23.0")									
Net Weight		23 Kg (50.7 lbs) 27 Kg (59.5 lbs)			59.5 lbs)	70 Kg (154.3 lbs) 80 Kg (176.4 lbs)									
CO ₂ Resistant		Y	es	٨	lo										
External Cove	r Material		4 Flammabil iirement mad												
Platform Mate	erial							Anodized	Aluminum						
	Base				3.0	mm (0.1") 1	8 gauge EG	Steel with	socide™ An	ti-microbial l	Powder Coa	iting			
Cabinet Construction	Main						2.0 r	mm (0.08")	18 gauge EC	Steel with	Isocide™ Ar	nti-microbial	Powder Co	ating	
	Work zone								2.0 mm	(0.08") 16 <u>c</u>	gauge Stainl	ess Steel			
Temperature F	Range					5 °C (above ambient) - 80°C 10°C (below ambient) - 80°C									
Temperature A	Accuracy					± 0.5									
Shipping Weig	ght	33 Kg (7	72.8 lbs)	37 Kg (31.6 lbs)		90 Kg (1	98.4 lbs)				100 Kg (2	220.5 lbs)		
Shipping Dime (W x D x H)	ension		0 mm x 650 (25.6" x 25.							720 x 1120 (28.3" x 44.					

	Ordering Information															
Accessories	Item Code	Item Name	Description	25 mL Flask	50 mL Flask	125 mL Flask	250 mL Flask	300 mL Flask	500 mL Flask	1 L Flask	2 L Flask	2.8 L Flask	3 L Flask	4 L Flask	5 L Flask	6 L Flask
(Universal)	5270016	Small Universal	330 x 330 mm (13.0" x 13.0")	36	36	13	9	9	9	4	4	1	1	1	1	1
	5270017	Medium Universal	457 x 457 mm (18.0" x 18.0")	64	64	32	16	16	16	8	5	4	4	4	4	2
	5270018	Large Universal	457 x 610 mm (18.0" x 24.0")		70	35	20	20	20	12	8	5	5	5	4	3

0.7 m³ (24.7 ft³)

Note: Universal Platform Medium for IBS only allows until 2.8L flask.

0.2 m³ (7.1 ft³)



Shipping Volume, Maximum





Universal Platform

Have standard holes pattern that can fit any flask clamps and test tube rack. All multiple flask clamps and labware holders are shipped separately and installed by the end-user.



Flask Clamps

Single-piece stainless steel clamps that provide enough strength and security to hold flasks.



Microplate Holder

Double layer racks that hold up to six standard deep well plates.



Sticky Mats

Allows the user to place the flask directly on the mat without the use of a clamp. Sticky mats are very convenient if the user desires to rotate at less than 350 rpm. This can be ordered separately and attach on Universal Platform.



Dedicated Platform

Platforms have a customized pattern to optimize the number of a particular size of flask clamp on a platform. Dedicated platforms are pre-installed with the flask clamps.



Test Tube Rack

Stainless steel rack that stabilizes and holds the test tubes.



Utility Carrier

Made of stainless steel that holds different glassware in between adjustable stainless steel bars.



Gas Manifold

Contain 12 gas ports that add versatility for aerobic and anaerobic cell cultivation.

The IBS is available with a 12-port gas manifold option to allow the operator to supply gas directly to the culture medium of 12 individual flasks.



Accessories **Flask** Model Item Clamp Quantity AS1-C-19 AS1-C-25 AS1-NC-19 **AS1-NC-25** Code Code PLJ-S 5270016 Platform, Universal, Small - 330 X 330 mm (13.0" X 13.0") PU-M 5270017 Platform, Universal, Medium - 457 x 457 mm (18.0 "x 18.0") PU-L 5270018 Platform, Universal, Large - 457 x 610 mm (18.0" x 24.0") PD-S-25 5270019 Platform, Dedicated, Small, for 25 ml Flask, 330 x 330 mm (13.0" x 13.0") 36 5270020 PD-S-50 Platform, Dedicated, Small, for 50 ml Flask 330 x 330 mm (13.0" x 13.0") 36 PD-S-125 5270021 Platform, Dedicated, Small, for 125 ml Flask 330 x 330 mm (13.0" x 13.0") 16 PD-S-250 5270022 Platform, Dedicated, Small, for 250 ml Flask 330 x 330 mm (13.0" x 13.0") 10 PD-S-300 5270023 Platform, Dedicated, Small, for 300 ml Flask 330 x 330 mm (13.0" x 13.0") 10 5270024 Platform, Dedicated, Small, for 500 ml Flask 330 x 330 mm (13.0" x 13.0") 9 PD-S-500 5270025 5 PD-S-1L Platform, Dedicated, Small, for 1 L Flask 330 x 330 mm (13.0" x 13.0") PD-S-2L 5270026 Platform, Dedicated, Small, for 2 L Flask 330 x 330 mm (13.0" x 13.0") PD-S-2.8L 5270027 Platform, Dedicated, Small, for 2.8 L Flask 330 x 330 mm (13.0" x 13.0") PD-S-3L 5270028 Platform, Dedicated, Small, for 3 L Flask 330 x 330 mm (13.0" x 13.0") 1 PD-S-4I 5270029 Platform, Dedicated, Small, for 4 L Flask 330 x 330 mm (13.0" x 13.0") 1 PD-S-5L 5270030 Platform, Dedicated, Small, for 5 L Flask 330 x 330 mm (13.0" x 13.0") 1 PD-S-6L 5270031 Platform, Dedicated, Small, for 6L Flask 330 x 330 mm (13.0" x 13.0") PD-M-25 5270032 Platform, Dedicated, Medium, for 25 ml Flask 457 x 457 mm (18.0" x 18.0") 64 PD-M-50 5270033 Platform, Dedicated, Medium, for 50 ml Flask 457 x 457 mm (18.0" x 18.0") 64 5270034 PD-M-125 Platform, Dedicated, Medium, for 125 ml Flask 457 x 457 mm (18.0" x 18.0") 36 PD-M-250 5270035 Platform, Dedicated, Medium, for 250 ml Flask 457 x 457 mm (18.0 " \times 18.0 ") 25 PD-M-300 5270036 Platform, Dedicated, Medium, for 300 ml Flask 457 x 457 mm (18.0" x 18.0") 25 PD-M-500 5270037 Platform, Dedicated, Medium, for 500 ml Flask 457 x 457 mm (18.0" x 18.0") 16 PD-M-1L 5270038 9 Platform, Dedicated, Medium, for 1 L Flask 457 x 457 mm (18.0" x 18.0") PD-M-2L 5270039 Platform, Dedicated, Medium, for 2 L Flask 457 x 457 mm (18.0" x 18.0") 5 PD-M-2.8L 5270040 Platform, Dedicated, Medium, for 2.8 L Flask 457 x 457 mm (18.0" x 18.0") 4 5270041 PD-M-3L Platform, Dedicated, Medium, for 3 L Flask 457 x 457 mm (18.0" x 18.0") 4 PD-M-4L 5270042 Platform, Dedicated, Medium, for 4 L Flask 457 x 457 mm (18.0" x 18.0") 5270043 PD-M-5L Platform, Dedicated, Medium, for 5 L Flask 457 x 457 mm (18.0" x 18.0") 4 5270044 PD-M-6L Platform, Dedicated, Medium, for 6 L Flask 457 x 457 mm (18.0" x 18.0") PD-L-50 5270046 Platform, Dedicated, Large, for 50 ml Flask 457 x 610 mm (18.0" x 24.0") 80 PD-L-125 5270047 Platform, Dedicated, Large, for 125 ml Flask 457 x 610 mm (18.0" x 24.0") 48 PD-L-250 5270048 Platform, Dedicated, Large, for 250 ml Flask 457 x 610 mm (18.0" x 24.0") 35 PD-L-300 5270049 Platform, Dedicated, Large, for 300 ml Flask 457 x 610 mm (18.0" x 24.0") 35 PD-L-500 5270050 Platform, Dedicated, Large, for 500 ml Flask 457 x 610 mm (18.0" x 24.0") 20 PD-L-1L 5270051 Platform, Dedicated, Large, for 1 L Flask 457 x 610 mm (18.0" x 24.0") 12 5270052 Platform, Dedicated, Large, for 2 L Flask 457 x 610 mm (18.0" x 24.0") PD-L-2L 8 5270053 5 PD-L-2.8L Platform, Dedicated, Large, for 2.8 L Flask 457 x 610 mm (18.0 " x 24.0 ") PD-L-3L 5270054 Platform, Dedicated, Large, for 3 L Flask 457 x 610 mm (18.0" x 24.0") PD-L-4L 5270055 Platform, Dedicated, Large, for 4 L Flask 457 x 610 mm (18.0" x 24.0") PD-L-5L 5270056 Platform, Dedicated, Large, for 5 L Flask 457 x 610 mm (18.0" x 24.0") 4 PD-L-6L 5270057 Platform, Dedicated, Large, for 6 L Flask 457 x 610 mm (18.0" x 24.0") 4

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	Accessories												
Model Code	Item Code	AS1-C-19	AS1-C-25	AS1-NC-19	AS1-NC-25	Tubes per Rack							
TR-S-1	5270072		Test Tube	40									
TR-S-2	5270073		Test Tube	Rack Small 12-15	mm	21							
TR-S-3	5270074		Test Tube	Rack Small 16-19	mm	10							
TR-S-4	5270075		Test Tube	Rack Small 20-22	mm	10							
TR-S-5	5270076		Test Tube	Rack Small 23-26	mm	5							
TR-S-6	5270077		Test Tube	Rack Small 27-33	mm	5							
TR-M-1	5270078		Test Tube F	lack Medium 8-1	l mm	64							
TR-M-2	5270079		Test Tube R	ack Medium 12-1	5 mm	33							
TR-M-3	5270080		Test Tube R	ack Medium 16-1	9 mm	18							
TR-M-4	5270081		Test Tube R	ack Medium 20-2	22 mm	16							
TR-M-5	5270082		Test Tube R	ack Medium 23-2	6 mm	8							
TR-M-6	5270083		Test Tube R	ack Medium 27-3	3 mm	8							
TR-L-1	5270002		Test Tube	Rack Large 8-11	mm	88							
TR-L-2	5270003		Test Tube	Rack Large 12-15	mm	48							
TR-L-3	5270004		Test Tube	Rack Large 16-19	mm	24							
TR-L-4	5270005		Test Tube	Rack Large 20-22	! mm	22							
TR-L-5	5270006		Test Tube	Rack Large 23-26	mm	11							
TR-L-6	5270007		Test Tube	Rack Large 27-33	mm	11							

		Options and Acce	essories						
Model Code	Item Code	AS1-C-19	AS1-C-25	AS1-NC-19	AS1-NC-25				
FC-25	5270059	Flask Clamp 25 ml							
FC-50	5270060		Flask Clamp 50 ml						
FC-125	5270061		Flask Clar	mp 125 ml					
FC-250	5270062		Flask Clar	mp 250 ml					
FC-300	5270063		Flask Clar	mp 300 ml					
FC-500	5270064		Flask Clar	mp 500 ml					
FC-1L	5270065		Flask C	lamp 1 L					
FC-2L	5270066		Flask C	lamp 2 L					
FC-2.8L	5270067		Flask Cla	amp 2.8 L					
FC-3L	5270068		Flask C	lamp 3 L					
FC-4L	5270069		Flask C	lamp 4 L					
FC-5L	5270070		Flask C	lamp 5 L					
FC-6L	5270071		Flask C	lamp 6 L					
MH-L	5270008		Microplate h	nolder - Large					
MH-M	5270009		Microplate ho	older - Medium					
MH-S	5270010		Microplate I	nolder - Small					
UC-S	5270011		Utility Carrier, Small, 332 x 7	77 x 304 mm (13" x 3"x 12')				
UC-M	5270012	Ut	ility Carrier, Medium, 462 x	77 x 431 mm (18" x 3" x 1	7")				
AMP	5270014		Adhesive Mat Platfor	m (200 x 200 x 3 mm)					

Accessories											
Model Code	Item Code	IBS-NR-19	IBS-NR-25	IBS-R19	IBS-R-25	Flask Clamp Quantity					
PU-M	5270017	Platforn	Platform, Universal, Medium - 457 x 457 mm (18.0 "x 18.0")								
PD-M-25	5270032	Platform, Dedic	ated, Medium, for 2	5 ml Flask 457 x 457	mm (18.0" x 18.0")	64					
PD-M-50	5270033	Platform, Dedic	Platform, Dedicated, Medium, for 50 ml Flask 457 x 457 mm (18.0" x 18.0")								
PD-M-125	5270034	Platform, Dedic	Platform, Dedicated, Medium, for 125 ml Flask 457 x 457 mm (18.0" x 18.0")								
PD-M-250	5270035	Platform, Dedic	cated, Medium, for 2	50 ml Flask 457 x 457	mm (18.0" x 18.0")	25					
PD-M-300	5270036	Platform, Dedic	cated, Medium, for 3	00 ml Flask 457 x 457	mm (18.0" x 18.0")	25					
PD-M-500	5270037	Platform, Dedic	cated, Medium, for 5	00 ml Flask 457 x 457	mm (18.0" x 18.0")	16					
PD-M-1L	5270038	Platform, Dedicated, Medium, for 1 L Flask 457 x 457 mm (18.0" x 18.0")			9						
PD-M-2L	5270039	Platform, Dec	Platform, Dedicated, Medium, for 2 L Flask 457 x 457 mm (18.0" x 18.0")								
PD-M-2.8L	5270040	Platform, Ded	icated, Medium, for	2.8 L Flask 457 x 457 r	nm (18.0" x 18.0")	4					

	Options and Accessories												
Model Code	Item Code	IBS-NR-19	IBS-NR-25	IBS-R19	IBS-R-25	Tubes per Rack							
TR-S-1	5270072		40										
TR-S-2	5270073		Test Tube Rack S	Small 12-15 mm		21							
TR-S-3	5270074		Test Tube Rack S	5mall 16-19 mm		10							
TR-S-4	5270075		Test Tube Rack S	Small 20-22 mm		10							
TR-S-5	5270076		Test Tube Rack S	Small 23-26 mm		5							
TR-S-6	5270077		Test Tube Rack S	Small 27-33 mm		5							
TR-M-1	5270078		Test Tube Rack N	1edium 8-11 mm		64							
TR-M-2	5270079		33										
TR-M-3	5270080		Test Tube Rack M	edium 16-19 mm		18							
TR-M-4	5270081		Test Tube Rack M	edium 20-22 mm		16							
TR-M-5	5270082		Test Tube Rack M	edium 23-26 mm		8							
TR-M-6	5270083		Test Tube Rack M	edium 27-33 mm		8							
TR-L-1	5270002		Test Tube Rack	Large 8-11 mm		88							
TR-L-2	5270003		Test Tube Rack I	arge 12-15 mm		48							
TR-L-3	5270004		Test Tube Rack L	arge 16-19 mm		24							
TR-L-4	5270005		Test Tube Rack L	arge 20-22 mm		22							
TR-L-5	5270006		Test Tube Rack L	arge 23-26 mm		11							
TR-L-6	5270007		Test Tube Rack L	arge 27-33 mm		11							



		Options and Acce	ssories					
Model Code	Item Code	IBS-NR-19	IBS-NR-25	IBS-R19	IBS-R-25			
FC-25	5270059	Flask Clamp 25 ml						
FC-50	5270060		Flask Clam	np 50 ml				
FC-125	5270061		Flask Clam	p 125 ml				
FC-250	5270062		Flask Clam	p 250 ml				
FC-300	5270063		Flask Clam	p 300 ml				
FC-500	5270064		Flask Clam	p 500 ml				
FC-1L	5270065		Flask Cla	mp 1 L				
FC-2L	5270066		Flask Cla	mp 2 L				
FC-2.8L	5270067		Flask Clan	np 2.8 L				
MH-L	5270008		Microplate ho	older - Large				
MH-M	5270009		Microplate hold	der - Medium				
MH-S	5270010		Microplate ho	older - Small				
UC-S	5270011	U	tility Carrier, Small, 332 x 77	x 304 mm (13" x 3"x 12")				
AMP	5270014		Adhesive Mat Platform	(200 x 200 x 3 mm)				
GM-12	5270015		12 Port Gas	Manifold				

Guide to Models										
<u>AS 1 - C - 19</u>										
1st Placeholder Product Line	1st Code	2nd Placeholder External Dimension	2nd Code	3rd Placeholder CO2 Resistance	3rd Code	4th Placeholder Orbit Size	4th Code			
				Designant	_	19 mm	19			
Ambient Shaker	AS	430 x 417 x 164 mm	1	Resistant	С	25 mm	25			
Ambient Snaker	AS	(16.9" x 16.4" x 6.5")	I	N	NC	19 mm	19			
			Non-resistant		NC	25 mm	25			

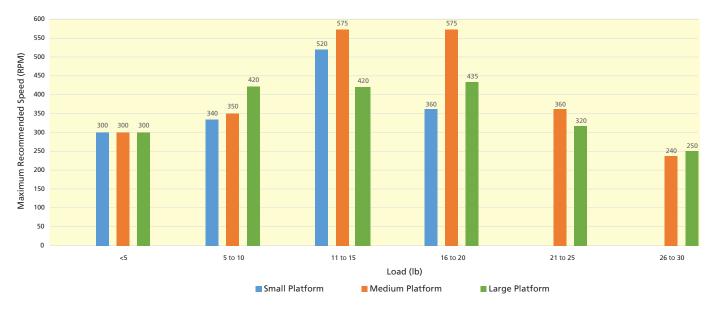
Guide to Models							
<u>IBS - R - 19 - 1</u>							
1st Placeholder Product Line	1st Code	2nd Placeholder Temperature	2nd Code	3rd Placeholder Orbit Size	3rd Code	4th Placeholder Electrical	4th Code
Incubator Benchtop Shaker	IBS	Refrigerated	R	19 mm	19	220-240 VAC, 50 Hz	1
						110-130 VAC, 60 Hz	2
						230 VAC, 60 Hz	3
				25 mm	25	220-240 VAC, 50 Hz	1
						110-130 VAC, 60 Hz	2
						230 VAC, 60 Hz	3
		Non-refrigerated	NR	19 mm	19	220-240 VAC, 50/60 Hz	8
						110-120 VAC, 50/60 Hz	9
				25 mm	25	220-240 VAC, 50/60 Hz	8
						110-120 VAC, 50/60 Hz	9



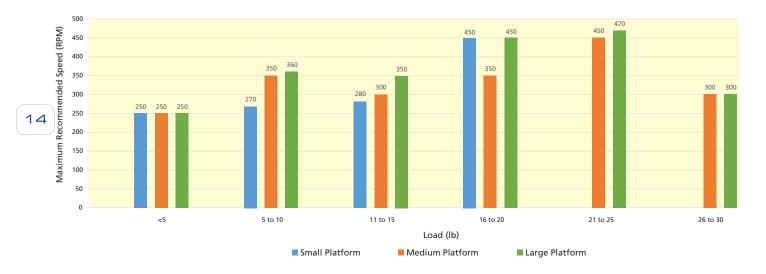
Load Speed Charts

OrbiCult™ Ambient Shaker

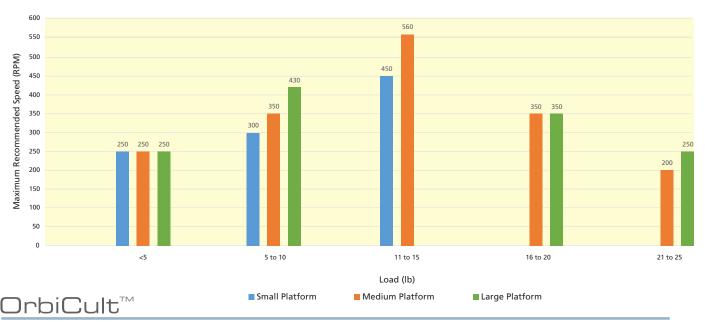
AS1 Non-CO2 with 25mm Orbit Shakers



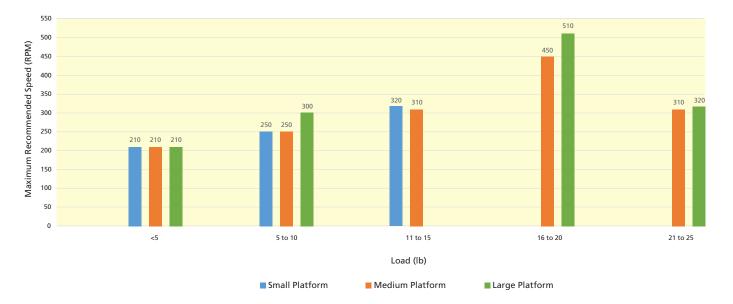
AS1 Non-CO2 with 19mm Orbit Shakers



AS1 CO2 with 25mm Orbit Shakers

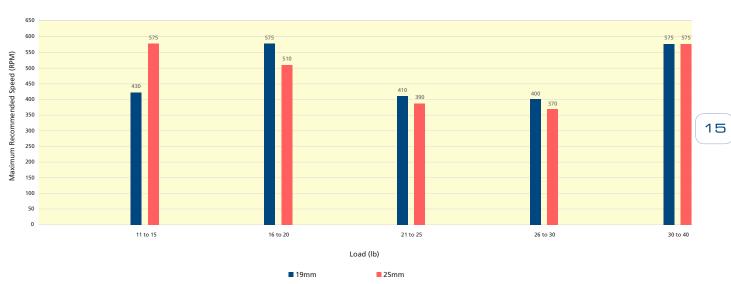


AS1 CO₂ with 19mm Orbit Shakers

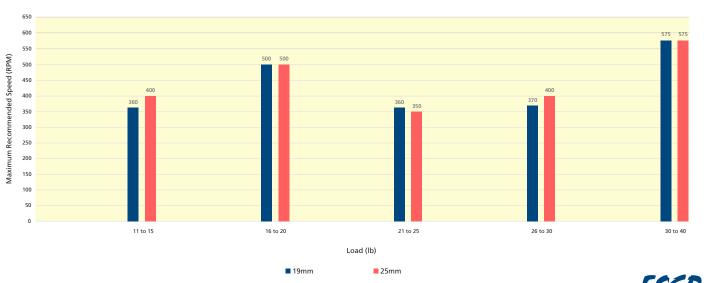


OrbiCult™ Incubator Benchtop Shaker

Refrigerated, 19mm and 25mm Orbit



Non-Refrigerated, 19mm and 25mm Orbit



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