

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

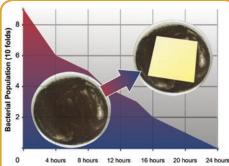


Audible alarm can be turned on or off, but the visual alarm will remain activated LED will light up red during the alarm

ESCO

ISGCIDE[™] Powder Coat

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



Contact Time in Hours



Maximum capacity of 30 Kg

CO₂ Resistant Model

Leveling Feet

- Designed with material resistant components that adapt to CO, and humid environment that ensures the AS1 CO, 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 CO, incubator

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**

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

Common Application List of OrbiCult[™] Shaker





SmartRun™: Imbalance Compensation Algorithm

ESCO.

 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

OrbiCult™ **B**S

- 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

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2.3 % 275

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

AS1 and IBS • Laboratory Shakers

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

USB Port

 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

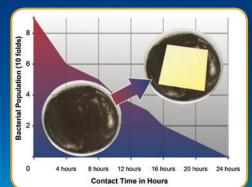
Located at the back of the unit to monitor speed, shaker imbalance, and power recovery alarms





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 Orbi	Cult™ 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				

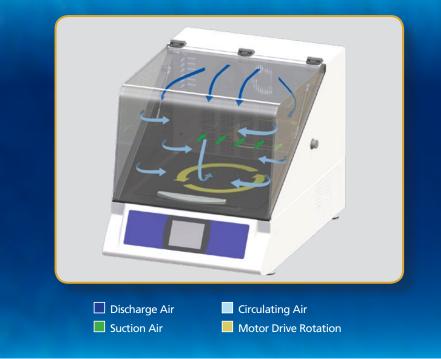
Medium-sized Platform

FSCO

Suitable platform is available to maximize the area inside the chamber

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 Has two types of Platform: Universal Platform and Dedicated Platform E



Digital LED Controller (for AS1 model)

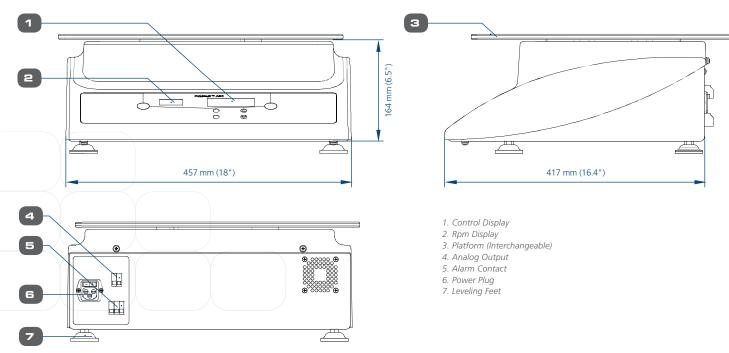
alarm, and graph datalog

Airflow Circulation

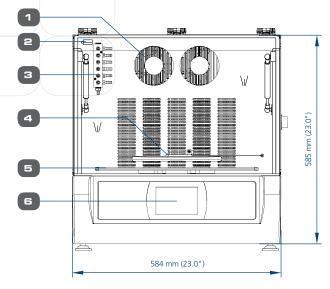
- Two circulating fans located on top of the perforated panel disperse and distribute the air inside the chamber
- Perforation located below the circulating fan absorbs the air to recirculate the air inside the chamber
- Platform performs counterclockwise rotation based on the motor drive motion
- Air 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

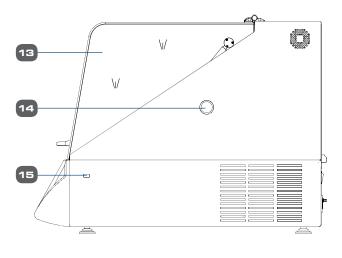
Displays the status of A graphical interface indicates shaker performance Deactivates the set alarm speed at which the shaker through an alphanumeric display. It presents the status during the end of a timed run of rpm, time and system running that are activated by and deviations on speed and is currently rotating programming access through the membrane buttons temperature setpoint OrbiCult[™] AS1 0010 6 14 ESCO The Shaker LED light displays These keypad buttons control the Allows navigation and set up the green to indicate that the shaker is settings and program system running desired program with accuracy and as required for the application. Gives operational accessible precision access to default settings and classified menus SmarTouch[™] Controller (for IBS model) An advanced and intuitive touchscreen that provides Status Indicator: clear and accurate conditions of the operation to keep Displays the basic yet important parameters and factors track of the performance of each feature and functions of a program. It shows careful conditions of the program set on the program for an accessible observation of the operation (i.e. lid closure, running program, and temperature) 32.3 °C 225 RPM 00 ESCO OrbiCult™ BS Home Button: Help Button: Provides major icons for easy Explains the icons displayed on the navigation on important functions screen interface Menu Button: Alarm Button: Access specific features for setting An option to the alarm function desired program to make it audible or mute Diagnostic Screen: Shaker Platform Button: Provides readout of current system Access to start / stop the platform parameters, date and stamp of all historical

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



OrbiCult[™] Incubator Benchtop Shaker Models (IBS-R-19-_, IBS-R-25-_, IBS-NR-19-_, IBS-NR-25-_)

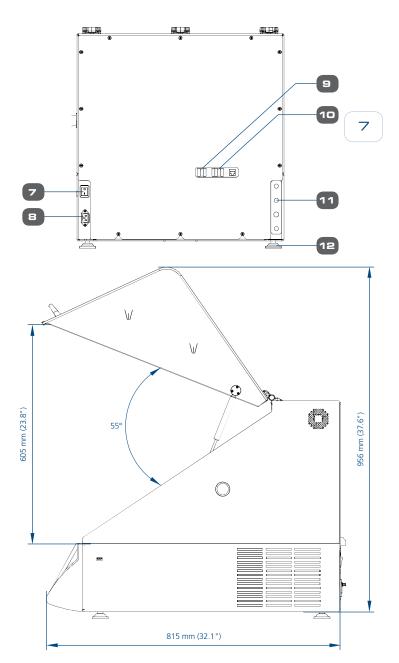




1. Circulation Fan 2. Door Switch

- 3. Gas Manifold
- 4. Temperature Sensor 5. Platform
- 6. Touchscreen Control 7. On / Off Switch 8. Power Plug 9. Alarm Contact
- 10. Analog Output
- 11. Gas Inlet Filling 12. Leveling Feet 13. Transparent Acrylic Hood 14. Access Port





						TECHN	ICAL SPE	CIFICATIO	DN						
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	bly	1	00 - 240 VA	C, 50 / 60 H	Iz	230 VAC, 50 / 60 Hz 115 VAC, 50 / 60 Hz			230 VA	C, 50 Hz	115 VA	C, 60 Hz	230 VAC, 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 - 575 rpm									
rpm Accuracy								+ /	- 1						
Display		Digital LE	D and 4 line	LCD messa	ge center					Colored To	ouchscreen				
Timer		9999 minutes								999 hrs and	1 59 minutes	5			
Maximum Loa	d	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)	30 Kg (66.1 lbs)	25 Kg (55.1 lbs)
External Dime (W x D x H)	nsion	430 x 417 x 164 mm (16.9" x 16.4" x 6.5"			4″ x 6.5″)				584 x 815	x 585 mm (:	23.0″ x 32.1	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		Ye	es	N	lo										
External Cove	r Material		4 Flammabil irement mac												
Platform Mate	erial							Anodized	Aluminum						
	Base				3.0	mm (0.1") 1	18 gauge EG	Steel with I	socide [™] An	ti-microbial	Powder Coa	iting			
Cabinet Construction	Main						2.0 ו	mm (0.08")	18 gauge EG	G Steel with	Isocide™ Ar	nti-microbial	Powder Coa	ating	
	Work zone								2.0 mm	(0.08") 16 g	gauge Stainl	ess Steel			
Temperature F	lange					5	°C (above a	mbient) - 80	°C		10	°C (below a	mbient) - 80)°C	
Temperature A	Accuracy	requirement made of ABS Plastic Anodized Aluminum Anodized Aluminum 3.0 mm (0.1") 18 gauge EG Steel with Isocide™ Anti-microbial Powder Coating 2.0 mm (0.08") 18 gauge EG Steel with Isocide™ Anti-microbial Powder Coating 2.0 mm (0.08") 16 gauge Stainless Steel 5 °C (above ambient) - 80°C													
Shipping Weig	Jht	33 Kg (72.8 lbs) 37 Kg (81.6 lbs) 90 Kg (198.4 lbs)					100 Kg (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					
Shipping Volu Maximum	me,		0.2 m ³ ((7.1 ft³)						0.7 m³ (24.7 ft³)				

	Ordering Information															
Accessories	ltem Code	ltem 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	<mark>6 L</mark> Flask
527	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
Platform List (Universal)	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

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





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.



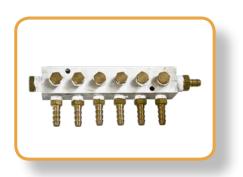
Test Tube Rack

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					
Model Code	Item Code	AS1-C-19	AS1-C-25	AS1-NC-19	AS1-NC-25	Flask Clamp Quantity		
PU-S	5270016	Platform	n, Universal , Small - 3	30 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	Platforr	n, Universal , Large -	457 x 610 mm (18.0"	x 24.0")			
PD-S-25	5270019	Platform, Dedic	ated, Small, for 25 m	l Flask, 330 x 330 mm	(13.0" x 13.0")	36		
PD-S-50	5270020	Platform, Dedi	cated, Small, for 50 m	l Flask 330 x 330 mm	(13.0" x 13.0")	36		
PD-S-125	5270021	Platform, Dedi	cated, Small, for 125	ml Flask 330 x 330 mm	(13.0" x 13.0")	16		
PD-S-250	5270022	Platform, Dedi	cated, Small, for 250	ml Flask 330 x 330 mm	(13.0" x 13.0")	10		
PD-S-300	5270023	Platform, Dedi	cated, Small, for 300	ml Flask 330 x 330 mm	(13.0" x 13.0")	10		
PD-S-500	5270024	Platform, Dedi	cated, Small, for 500	ml Flask 330 x 330 mm	(13.0" x 13.0")	9		
PD-S-1L	5270025	Platform, Dec	licated, Small, for 1 L	Flask 330 x 330 mm (13.0" x 13.0")	5		
PD-S-2L	5270026	Platform, De	dicated, Small, for 2 I	. Flask 330 x 330 mm (1	I3.0" x 13.0")	4		
PD-S-2.8L	5270027	Platform, Dec	licated, Small, for 2.8	L Flask 330 x 330 mm ((13.0" x 13.0")	1		
PD-S-3L	5270028	Platform, Dec	licated, Small, for 3 L	Flask 330 x 330 mm (13.0" x 13.0")	1		
PD-S-4L	5270029	Platform, Dec	licated, Small, for 4 L	Flask 330 x 330 mm (13.0" x 13.0")	1		
PD-S-5L	5270030	Platform, Dec	licated, Small, for 5 L	Flask 330 x 330 mm (13.0" x 13.0")	1		
PD-S-6L	5270031	Platform, Dec	dicated, Small, for 6L	Flask 330 x 330 mm (1	I3.0" x 13.0")	1		
PD-M-25	5270032	Platform, Dedic	ated, Medium, for 25	ml Flask 457 x 457 mm	(18.0" x 18.0")	64		
PD-M-50	5270033	Platform, Dedic	ated, Medium, for 50	ml Flask 457 x 457 mm	(18.0" x 18.0")	64		
PD-M-125	5270034	Platform, Dedica	Platform, Dedicated, Medium, for 125 ml Flask 457 x 457 mm (18.0" x 18.0")					
PD-M-250	5270035	Platform, Dedica	ated, Medium, for 250	ml Flask 457 x 457 mn	n (18.0" x 18.0")	25		
PD-M-300	5270036	Platform, Dedica	ated, Medium, for 300	ml Flask 457 x 457 mn	n (18.0" x 18.0")	25		
PD-M-500	5270037	Platform, Dedica	ated, Medium, for 500	ml Flask 457 x 457 mn	n (18.0" x 18.0")	16		
PD-M-1L	5270038	Platform, Ded	icated, Medium, for 1	L Flask 457 x 457 mm (18.0" x 18.0")	9		
PD-M-2L	5270039	Platform, Ded	icated, Medium, for 2	L Flask 457 x 457 mm (18.0" x 18.0")	5		
PD-M-2.8L	5270040	Platform, Dedi	cated, Medium, for 2.8	L Flask 457 x 457 mm	(18.0" x 18.0")	4		
PD-M-3L	5270041	Platform, Ded	icated, Medium, for 3	L Flask 457 x 457 mm (18.0" x 18.0")	4		
PD-M-4L	5270042	Platform, Ded	icated, Medium, for 4	L Flask 457 x 457 mm (18.0" x 18.0")	4		
PD-M-5L	5270043	Platform, Ded	icated, Medium, for 5	L Flask 457 x 457 mm (18.0" x 18.0")	4		
PD-M-6L	5270044			L Flask 457 x 457 mm (2		
PD-L-50	5270046	Platform, Ded	licated, Large, for 50 m	l Flask 457 x 610 mm (18.0" x 24.0")	80		
PD-L-125	5270047			nl Flask 457 x 610 mm		48		
PD-L-250	5270048	Platform, Dedi	cated, Large, for 250 r	nl Flask 457 x 610 mm	(18.0" x 24.0")	35		
PD-L-300	5270049	Platform, Dedi	cated, Large, for 300 r	nl Flask 457 x 610 mm	(18.0" x 24.0")	35		
PD-L-500	5270050	Platform, Dedi	cated, Large, for 500 r	nl Flask 457 x 610 mm	(18.0" x 24.0")	20		
PD-L-1L	5270051	Platform, De	dicated, Large, for 1 L	Flask 457 x 610 mm (1	8.0" x 24.0")	12		
PD-L-2L	5270052			Flask 457 x 610 mm (1	· · · · · · · · · · · · · · · · · · ·	8		
PD-L-2.8L	5270053	Platform, Dec	licated, Large, for 2.8	Flask 457 x 610 mm (18.0" x 24.0")	5		
PD-L-3L	5270054	· · · · · · · · · · · · · · · · · · ·		Flask 457 x 610 mm (1	· · · · · · · · · · · · · · · · · · ·	5		
PD-L-4L	5270055	Platform, De	dicated, Large, for 4 L	Flask 457 x 610 mm (1	8.0" x 24.0")	5		
PD-L-5L	5270056			Flask 457 x 610 mm (1	· · · · · · · · · · · · · · · · · · ·	4		
PD-L-6L	5270057			Flask 457 x 610 mm (1	· · · · · · · · · · · · · · · · · · ·	4		

		Ac	cessories			
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 Rack Small 8-11 mm			
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 Rack Medium 8-11 mm				64
TR-M-2	5270079		Test Tube Rack Medium 12-15 mm			
TR-M-3	5270080		Test Tube R	ack Medium 16-1	9 mm	18
TR-M-4	5270081		Test Tube Ra	ack Medium 20-2	2 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			
TR-L-5	5270006		Test Tube Rack Large 23-26 mm			11
TR-L-6	5270007		Test Tube	Rack Large 27-33	mm	11

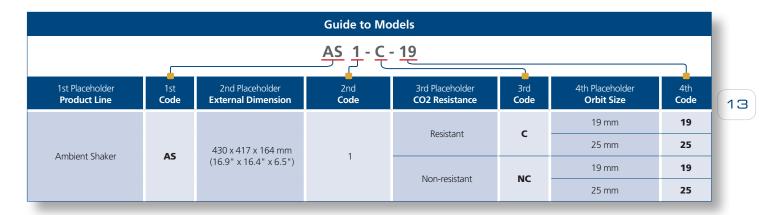
		Options and Acc	essories							
Model Code	Item Code	AS1-C-19	AS1-C-25	AS1-NC-19	AS1-NC-25					
FC-25	5270059		Flask Clamp 25 ml							
FC-50	5270060		Flask Cla	amp 50 ml						
FC-125	5270061		Flask Cla	mp 125 ml						
FC-250	5270062		Flask Cla	mp 250 ml						
FC-300	5270063		Flask Cla	mp 300 ml						
FC-500	5270064		Flask Cla	mp 500 ml						
FC-1L	5270065		Flask C	lamp 1 L						
FC-2L	5270066		Flask C	lamp 2 L						
FC-2.8L	5270067		Flask Cl	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	holder - Large						
MH-M	5270009		Microplate h	older - Medium						
MH-S	5270010		Microplate	holder - Small						
UC-S	5270011		Utility Carrier, Small, 332 x	77 x 304 mm (13" x 3"x 12")					
UC-M	5270012	U	tility Carrier, Medium, 462 ×	: 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	ltem Code	IBS-NR-19	IBS-NR-25	IBS-R19	IBS-R-25	Flask Clamp Quantity						
PU-M	5270017	Platfor	m, Universal, Mediun	n - 457 x 457 mm (18	8.0 "x 18.0")							
PD-M-25	5270032	Platform, Dedi	cated, Medium, for 2	25 ml Flask 457 x 457	mm (18.0" x 18.0")	64						
PD-M-50	5270033	Platform, Dedi	Platform, Dedicated, Medium, for 50 ml Flask 457 x 457 mm (18.0" x 18.0")									
PD-M-125	5270034	Platform, Dedi	Platform, Dedicated, Medium, for 125 ml Flask 457 x 457 mm (18.0" x 18.0")									
PD-M-250	5270035	Platform, Dedi	cated, Medium, for 2	250 ml Flask 457 x 457	' mm (18.0" x 18.0")	25						
PD-M-300	5270036	Platform, Dedi	cated, Medium, for 3	300 ml Flask 457 x 457	' mm (18.0" x 18.0")	25						
PD-M-500	5270037	Platform, Dedi	cated, Medium, for 5	500 ml Flask 457 x 457	' mm (18.0" x 18.0")	16						
PD-M-1L	5270038	Platform, Dec	licated, Medium, for	1 L Flask 457 x 457 n	nm (18.0" x 18.0")	9						
PD-M-2L	5270039	Platform, De	Platform, Dedicated, Medium, for 2 L Flask 457 x 457 mm (18.0" x 18.0")									
PD-M-2.8L	5270040	Platform, Dec	licated, Medium, for	2.8 L Flask 457 x 457	mm (18.0" x 18.0")	4						

		Optior	ns and Accessori	es					
Model Code	ltem Code	IBS-NR-19	IBS-NR-25	IBS-R19	IBS-R-25	Tubes per Rack			
TR-S-1	5270072		Test Tube Rack	Small 8-11 mm		40			
TR-S-2	5270073		Test Tube Rack S	Small 12-15 mm		21			
TR-S-3	5270074		Test Tube Rack S	Small 16-19 mm		10			
TR-S-4	5270075		Test Tube Rack Small 20-22 mm						
TR-S-5	5270076		Test Tube Rack Small 23-26 mm						
TR-S-6	5270077		5						
TR-M-1	5270078		64						
TR-M-2	5270079		33						
TR-M-3	5270080		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 I	.arge 16-19 mm		24			
TR-L-4	5270005		Test Tube Rack I	.arge 20-22 mm		22			
TR-L-5	5270006		Test Tube Rack I	.arge 23-26 mm		11			
TR-L-6	5270007		Test Tube Rack I	.arge 27-33 mm		11			

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		Options and Acce	ssories						
Model Code	Item Code	IBS-NR-19	IBS-NR-25	IBS-R19	IBS-R-25				
FC-25	5270059		Flask Clam	p 25 ml					
FC-50	5270060		Flask Clam	p 50 ml					
FC-125	5270061		Flask Clamp	0 125 ml					
FC-250	5270062		Flask Clamp	250 ml					
FC-300	5270063		Flask Clamp 300 ml						
FC-500	5270064	Flask Clamp 500 ml							
FC-1L	5270065		Flask Clar	np 1 L					
FC-2L	5270066		Flask Clar	np 2 L					
FC-2.8L	5270067		Flask Clam	p 2.8 L					
MH-L	5270008		Microplate hol	der - Large					
MH-M	5270009		Microplate hold	er - Medium					
MH-S	5270010		Microplate hol	der - Small					
UC-S	5270011	l	Jtility 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					



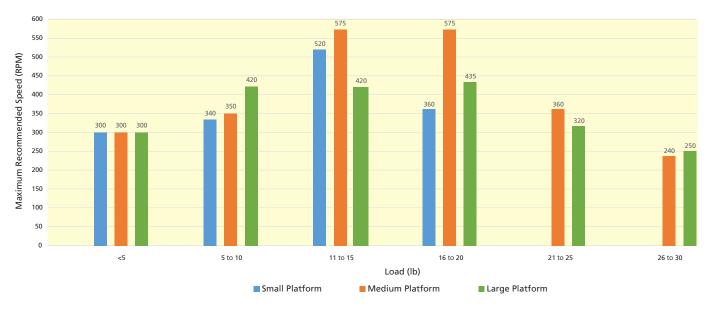
			Guide to Mo	dels							
<u>IBS - R - 19 - 1</u>											
1st Placeholder Product Line	1st Code	2nd Placeholder Temperature	2nd Code	3rd Placeholder Orbit Size	3rd Code	4th Placeholder Electrical	4th Code				
		Refrigerated	R		19 25	220-240 VAC, 50 Hz	1				
				19 mm 25 mm		110-130 VAC, 60 Hz	2				
						230 VAC, 60 Hz	3				
						220-240 VAC, 50 Hz	1				
nguhatar Danshtan Chalvar	IBS					110-130 VAC, 60 Hz	2				
ncubator Benchtop Shaker	IBS					230 VAC, 60 Hz	3				
				19 mm	19	220-240 VAC, 50/60 Hz	8				
		Non refrigerated	NR	19 1111	19	110-120 VAC, 50/60 Hz	9				
		Non-refrigerated	NK	2E mm		220-240 VAC, 50/60 Hz	8				
	25 mm	25	110-120 VAC, 50/60 Hz	9							



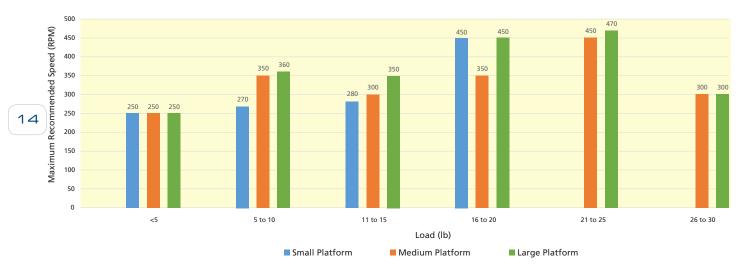
Load Speed Charts

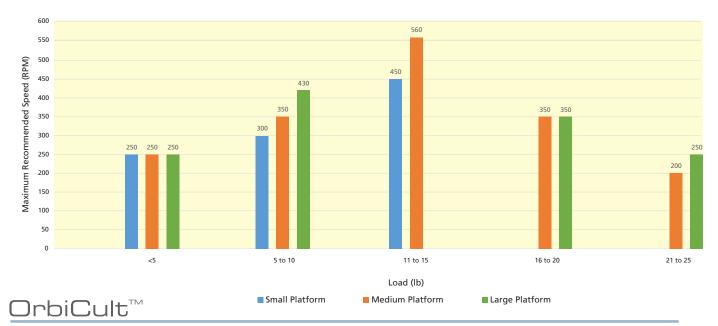
OrbiCult[™] Ambient Shaker

AS1 Non-CO2 with 25mm Orbit Shakers





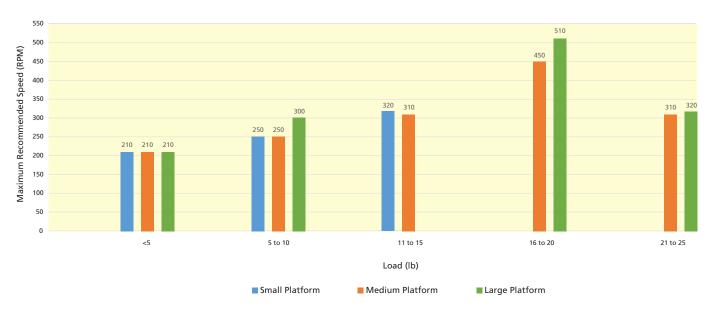




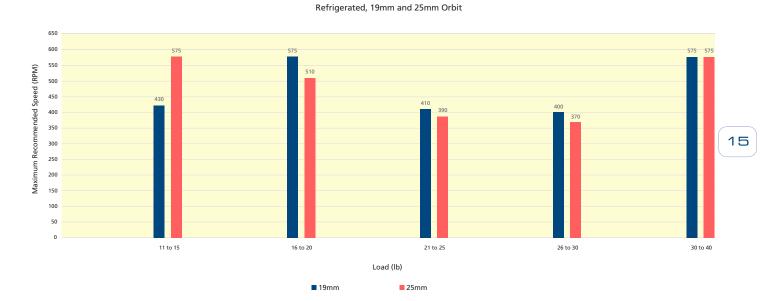
AS1 CO2 with 25mm Orbit Shakers

AS1 and IBS • Laboratory Shakers

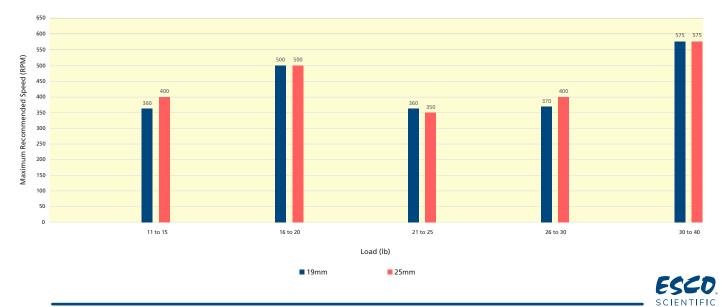
AS1 CO2 with 19mm Orbit Shakers



OrbiCult[™] Incubator Benchtop Shaker



Non-Refrigerated, 19mm and 25mm Orbit



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