



Biotechnology

Pharmaceutical

Chemistry

# SHAKERS

## SELECTION GUIDE

### ORBITAL SHAKERS

	Type	Speed Range (rpm)	Orbit Size Inches (cm)	Ambient Conditions °C	Maximum Load Lb. (kg)	Page
<b>Choose from Several Platform Sizes</b>	Open Air Platform MaxQ 2000, 3000	Analog: 40 to 400 Digital: 15 to 500	MaxQ 2000 - 0.75 (1.9) MaxQ 3000 - 1.0 (2.54)	0 - 40 0 to 40	MaxQ 2000 - 35 (15.9) MaxQ 3000 - 50 (22.7)	238
<b>Combine Incubator/Refrigerated Temperatures with an Orbital Shaker</b>	Incubated/High Temp Refrigerated Bench Top Platform MaxQ 4000	Analog: 40 to 400 Digital: 15 to 500	0.75 (1.9)	0 - 40	50 (22.7)	240
<b>Gives You Hands Free Operation!</b>	Incubated/Refrigerated Floor MaxQ 5000	Analog: 40 to 400 Digital: 15 to 500	1.0 (2.54)	0 - 40	75 (34)	242
<b>Easy Front Access Drain System with Quick Disconnect!</b>	Incubated Water Bath MaxQ 7000	Analog: 40 to 400 Digital: 15 to 500	0.5 (1.27)	0 - 40	35 (15.9)	244
<b>Accessories for Orbital Shakers</b>	Platforms and Clamps					246
<b>Durable Shakers for Large Capacity</b>	Big Bill and Bigger Bill	25 - 450	0.75 (1.9)	4 - 45	55 (25)	250
<b>Economical Reliable Shakers!</b>	1345, 1346	40 - 220	0.75 (1.9)	0 - 40	10 (5)	252
<b>Low Profile— High Performance!</b>	AROS 160	20 - 280	0.63 - 1.5 (1.6-3.8)	0 - 60	12 (5.4)	253
<b>Fixed Speed - Economical Slow Speed Orbital Shakers!</b>	Rotomix	60, 100 200	0.8 (2) 0.8 (2)	17 - 27 4 to 37	3 (1.4) 10 (4.5)	254
<b>Variable Speed - Economical Slow Speed Orbital Shakers!</b>	Rotomix	10 - 60, 80-220	0.8 (2)	4 to 37, 4 to 56	5 (2.2)	255

### ORBITAL/RECIPROCATING SHAKERS

<b>Versatile Reciprocating Operation</b>	Reciprocating 3506	10 - 250	0.5 - 1.5 (1.2 - 3.8)	4 to 40	15 (6.8)	256
<b>Two Mixing Actions— One Low Price!</b>	Dual Action	50 - 400	0.4 (0.9)	0 - 40	15 (6.8)	257

### ROCKERS

	Type	Degree of Rocking Angle	Speed Range (rpm)	Orbit Size Inches (cm)	Ambient Conditions °C	Maximum Load Lb. (kg)	Page
<b>Rocking Motion Provides Gentle to Vigorous Mixing!</b>	Variable Speed 4638	10-15	0 -100	—	4 to 40	5 (2.27)	258
<b>Steep Angle Rocking!</b>	Vari Mix Platform	1 - 48	5 to 30	—	4 to 40	15 (6.8)	259
<b>When Your Application Requires Safe, Gentle Rocking!</b>	Fixed Speed 4635	10	10	—	4 to 40	5 (2.3)	260



PRODUCTS



Genetics

Agriculture

# SELECTION GUIDE

## ROTATORS

	Type	Degree of Rocking Angle	Speed Range (rpm)	Orbit Size Inches (cm)	Ambient Conditions °C	Maximum Load Lb. (kg)	Page
<b>Economical Multi Purpose Rotators!</b>	1304, 1309, 1314	–	40 - 220	0.75 (1.9)	4 to 40	10 (4.53)	261
<b>Bi-Directional Economy Model!</b>	4630	10	30	NA	4 to 40	3 (1.36)	262
<b>Deluxe Bi-Directional Rotator!</b>	4631	6	0 - 25	NA	4 to 40	4 (1.8)	262
<b>Constant and Variable Speed Models!</b>	Vari Mix	1-48	2 to 20	NA	4 to 40	1.25 (0.56)	263
	Speci Mix, 1/2 Size	48	18	NA	4 to 40	1.25 (0.56)	
<b>Three Dimensional Rotation Permits Gentle, Low Foaming Agitation!</b>	Multi-Tube	20	30	NA	4 to 40	3 (1.36)	264
<b>Optimal Culture Results!</b>	Cel-Gro, 1 Drum	–	5 - 70	NA	15 - 40	142 - 16 mm* 76 - 25 mm*	265
	Cel-Gro, 2 Drum	–	Fixed 0.2	NA	15 - 40	60 - 50 mm* 284 - 16 mm* 152 - 25 mm* 120 - 50 mm*	
<b>Versatility at an Economical Price!</b>	Double deck trays and/or clip bar	900	22 - 70	NA	0 - 65	1.7 (0.8)	266
		300	8		0 - 65	1.7 (0.8)	
<b>Low Cost Alternative for Hybridizations!</b>	Small Rotisserie	360	8	NA	0 - 65	2.4 (1.1)	268
	Large Rotisserie	360	8	NA	0 - 65	3.5 (1.6)	268

## 96 WELL PLATE SHAKER

	Type	Speed Range (rpm)	Orbit Size Inches (cm)	Ambient Conditions °C	Maximum Load Lb. (kg)	Page
<b>Vortex Up to Four 96-Well Micro or Deep Well Plates!</b>	Titer Plate	40 - 1100	0.12 (0.3)	0 to 40	2 (1)	269

## SPECIALTY SHAKERS

	Type	Speed Range (rpm)	Degree of Arc	Ambient Conditions °C	Page
<b>Emulates Side-to-Side Action of Hand Mixing!</b>	3589	30 - 750	4	4 to 40	270
<b>Ideal for Extractions!</b>	6000	1 - 30	90° Vertical to Horizontal	1 to 30	271

\* Tube Capacity