

## Platform Shakers – orbital

### Time and tranquility are required for the cultivation of cells

The slow and constant rotation of the Rotamax and Unimax models keeps your samples continuously in motion



### Unimax 1010

#### The incubating model

- The Unimax 1010 is a medium sized model and accepts load capacities of 5 kg
- The shaking orbit of 10 mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and continuously adjust the variable speed on the digital display from 30 to 500 rpm
- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65 °C
- An digital process timer allows for unattended operation and can be set from 1 to 99 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops



P/N 543-12310-00  
Accessories: Category D

### Unimax 2010

#### The resilient model

- Includes all Unimax 1010 features, plus:
- The Unimax 2010 is a large model and accepts a load capacity of 10 kg for high sample throughput
- The shaking orbit of 20 mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks
- Set and continuously adjust the variable speed on the digital display from 20 to 400 rpm
- Increase your sample throughput with the optional multi-tier attachment for a variety of vessel sizes
- An analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops



P/N 543-12310-00  
Accessories: Category D

### Platform Shaker Plug & Play Unimax

#### This package includes:

- One orbital platform shaker - Unimax 1010
- One heating module
- One high incubator hood

P/N 543-12219-00



- Set and continuously adjust the variable speed on the analog control knob from 20 to 300 rpm
- An analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops

## ► Platform Shakers – rocking

Focus on cell culture, mix in large media bottles and require a two-dimensional motion with flexibility to heat? The Duomax is available in two different angle configurations which are recommended for culture plates/bottles, media bottles and Erlenmeyer flasks to help cultivate cells



### Duomax 1030

#### The incubating model

- The Duomax 1030 is a medium-sized model and accepts load capacities of 5 kg
- Choose your angle between these two options: tilt angle of 5° for soft and gentle movements or tilt angle of 10° for a much stronger motion
- Set and continuously adjust the variable speed on the analog control knob from 2 to 50 rpm – ideal for media bottles
- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65 °C
- An analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops

Features tilt angle of 5° P/N 543 - 32205 - 00  
Features tilt angle of 10° P/N 543 - 32210 - 00  
Accessories: Category D

## ► Platform Shakers - reciprocating

Are you missing the right shaker for separations in chemistry or for the performance of soil tests? All Promax models are designed especially for phase separations using separatory funnels or applications that require reciprocating motion!

### Promax 1020

#### The incubating model

- The Promax 1020 is a medium-sized model and accepts load capacities of 5 kg
- Wide range of accessories, attachments and clamps for separatory funnels available
- With a stroke length of 32 mm the Promax model performs an ideal motion for separatory funnels
- Set and continuously adjust the variable speed on the digital display from 30 to 250 rpm
- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65 °C
- An digital process timer allows for unattended operation and can be set from 1 to 999 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops

P/N 543 - 2332 - 00  
Accessories: Category D



### Promax 2020

#### The resilient model

- Includes all Promax 1020 features, plus:
- The Promax 2020 is a large model and accepts a load capacity of 10 kg for high sample throughput
- With a stroke length of 20 mm this Promax model can mix larger volumes with ease
- Set and continuously adjust the variable speed on the digital display from 20 to 400 rpm – ideal for separations
- An analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops

P/N 542 - 2020 - 00  
Accessories: Category E



## ► Platform Shakers – wave

Nothing beats a three-dimensional motion: For best mixing results of viscous media such as gels for electrophoresis, you can also choose the tilt angle that works best for the application

### Polymax 1040

#### The incubating model



- The Polymax 1040 is a medium-sized model and accepts load capacities of 5 kg
- Choose your angle between these two options: tilt angle of 5° for soft and gentle movements or tilt angle of 10° for a much stronger motion
- Use this model for any vessel – from culture plates and media bottles to Erlenmeyer flasks - there is no limit
- Set and continuously adjust the variable speed on the analog control knob from 2 to 50 rpm – ideal for cell culture plates
- This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65 °C
- An analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops

Features tilt angle of 5° P/N 543-42205-00  
Features tilt angle of 10° P/N 543-42210-00  
Accessories: Category D

### Polymax 2040

#### The resilient model

- Includes all Polymax 1040 features, plus:
- The Polymax 2040 is a large model and accepts a load capacity of 10 kg for high sample throughput
- Set and continuously adjust the variable speed on the digital display from 2.5 to 50 rpm – ideal for cell culture plates
- An analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops

Features tilt angle of 5° P/N 542-40005-00  
Features tilt angle of 10° P/N 542-40010-00  
Accessories: Category E

## ► Incubator 1000

Your platform shaker has no space in your heating oven or incubator cabinet? Adjustable temperature and visual control are key priorities for you?

This truly unique system enables you to perform a number of functions simultaneously - shaking, mixing and heating with visual reaction control. These platform shakers are compatible with the incubator system: Duomax 1030, Polymax 1040, Tiramax 1000, Unimax 1010 and Promax 1020

### YOUR ADVANTAGES

- Heating module allows for gentle temperature adjustments up to 65 °C
- The electrical heater allows for quick and even temperature distribution throughout the entire enclosure
- Unlimited visual reaction control at all times; the transparent and non-fogging PETG construction offers it all
- Three options available: a flat hood for small vessels and microtiter plates, a high hood for all common medium-sized vessels and even a high hood XL for larger Erlenmeyer flasks up to 2,000 mL
- Immediate access: the incubator hood opens instantly and interlocks in any position
- Use ONE incubator for numerous shakers - interchangeability is ensured and takes less than 2 minutes. You can incubate and mix simultaneously or independently



### Heating module



- Heating capacity of 300 W allows for quick temperature adjustments
- Digital temperature settings up to 65 °C and separate display for actual temperature
- To protect your sample from thermal damage this unit features a safety circuit to prevent overheating
- Electrical heater comes with low-noise blower and provides accuracy of ± 2 °C up to 50 °C and ± 4 °C over 50 °C

P/N 549-90010-00

## Incubator 1000

### Incubator hoods

Combine the heating module with an incubator hood of your choice:

#### Flat hood



##### For small vessels

- The small incubator hood has a total height of 163 mm
- Recommended especially for microtiter plates, culture plates, small flasks, media bottles and Erlenmeyer flasks up to 100 ml
- Transparent and non-fogging PETG material allows for sample viewing and easy cleaning



##### For high vessels and flasks

- The high incubator hood has a total height of 267 mm
- Recommended especially for large flasks and media bottles, Erlenmeyer flasks up to 500 ml and medium-sized or large common vessels
- Transparent and non-fogging PETG material allows for sample viewing and easy cleaning



##### For 2,000-ml vessels

- The high hood XL has a total height of 428 mm
- Recommended especially for 2,000-ml Erlenmeyer flasks
- Transparent and non-fogging PETG material allows for sample viewing and easy cleaning

High hood XL  
P/N 549-90060-00

## Overhead Shakers

Complies with standards for the determination of elutriation with water

#### Reax 20

##### Overhead shakers for 4, 8 or even 12 bottles



- Set and continuously adjust the variable speed on the analog control knob from 1 to 6 rpm – ideal for waste water analysis
- Other rotation speeds available upon request, for example 0.5 to 8 rpm or 2 to 32 rpm
- Easy and fast attachments of bottles
- Other vessels with 160 - 270 mm height and max. 136 mm diameter can be used with attachments

Reax 20/2 (not shown)  
P/N 541-20004-00  
Accessories: Category G

Reax 20/8  
P/N 541-20008-00  
Accessories: Category G

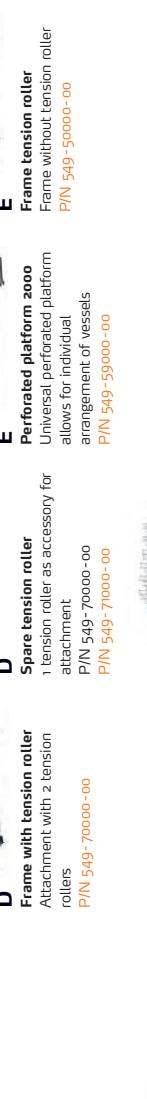
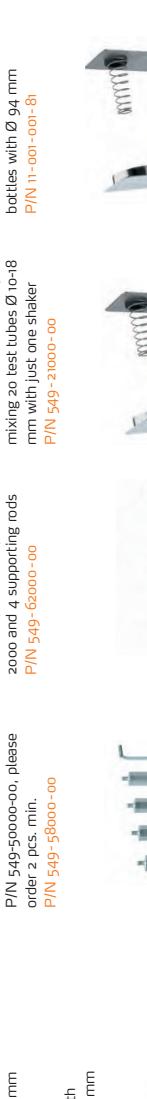
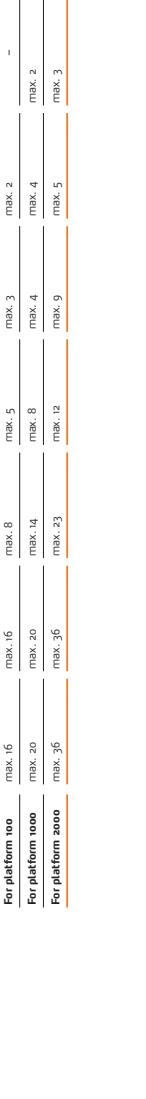
#### Reax 2



- Quickly clamps in 2 vessels of any size and accepts load capacities up to 1 kg
- Speed continuously adjustable from 20 to 100 rpm
- Universal adaptor allows for the use of various vessels of 50 - 160 mm height
- In addition, an optional adaptor is available for the use of 20 test tubes at a time

P/N 541-2000-00  
Accessories: Category F

## ② Accessories

	<b>A Test tube stand</b> Attachment to hold one test tube safely for continuous shaking P/N 549-19000-00		<b>A Attachment for 10 test tubes</b> For up to 10 test tubes with Ø 10 mm, length up to 60 mm P/N 549-01000-00
	<b>B Spare tension roller</b> Attachment with 2 tension rollers P/N 549-81000-00		<b>B Perforated platform 100</b> Universal perforated platform allows for individual arrangement of vessels P/N 549-81000-00
	<b>C Tension roller attachment</b> For up to 49 test tubes with Ø 12 mm, length up to 80 mm P/N 549-83000-00		<b>D Multi-tier attachment</b> Includes perforated platform 2000 and 4 supporting rods P/N 549-62000-00
	<b>E 25-ml Erlenmeyer attachment</b> Attachment for up to 14 Erlenmeyer flasks with a size of 50 ml P/N 549-73000-00		<b>E Tension roller</b> 1 tension roller for the frame P/N 549-50000-00, please order 2 pcs. min. P/N 549-58000-00
	<b>F 100-ml Erlenmeyer attachment</b> Attachment for up to 9 Erlenmeyer flasks with a size of 100 ml P/N 549-74000-00		<b>F Adaptor for 20 test tubes</b> Allows for simultaneously mixing 20 test tubes Ø 10-18 mm with just one shaker P/N 549-21000-00

	<b>D Frame with tension roller</b> Attachment with 2 tension rollers P/N 549-70000-00		<b>E Frame tension roller</b> Frame without tension roller P/N 549-50000-00
	<b>E Perforated platform 2000</b> Universal perforated platform allows for individual arrangement of vessels P/N 549-59000-00		<b>G Tension plate for caps</b> Allows for the use of common bottles with Ø 94 mm P/N 11-001-000-81
	<b>F Multi-tier attachment</b> Includes perforated platform 2000 and 4 supporting rods P/N 549-62000-00		<b>S Separatory funnel clamp (2000 ml)</b> For perforated platform 2000, space for max. 2 clamps P/N 549-61000-00
	<b>G Attachment for 0.5-l bottles</b> (Set of 4) Allows for the use of four 0.5-l bottles P/N 549-27000-00		<b>G Attachment for 1-l bottles</b> (Set of 4) Allows for the use of four 1-liter bottles P/N 549-26000-00
	<b>D Separatory funnel attachment</b> Attachment for up to 5 Erlenmeyer flasks with a size of 250 ml P/N 549-75000-00		<b>S - Clamps for the perforated platform 100, 1000 and 2000</b>

Accessories for:	Size 1 For 25-ml Erlenmeyer flasks	Size 2 For 50-ml Erlenmeyer flasks	Size 3 For 100-ml Erlenmeyer flasks	Size 4 For 250-ml Erlenmeyer flasks	Size 5 For 500-ml Erlenmeyer flasks	Size 6 For 1000-ml Erlenmeyer flasks	Size 7 For 2000-ml Erlenmeyer flasks
<b>A Reax top/control</b>	P/N 549-51000-00	P/N 549-52000-00	P/N 549-53000-00	P/N 549-54000-00	P/N 549-55000-00	P/N 549-56000-00	P/N 549-57000-00
<b>B Vibramax 100, Rotamax 120</b>	max. 16	max. 16	max. 16	max. 16	max. 16	max. 2	-
<b>C Vibramax 110</b>	max. 20	max. 20	max. 20	max. 20	max. 20	max. 4	max. 2
<b>D Unimax 1010, Duomax 1030, Polymax 1040, Promax 1020</b>	max. 36	max. 36	max. 36	max. 36	max. 36	max. 5	max. 3
<b>E Unimax 2010, Promax 2020, Polymax 2040</b>							
<b>F Reax 2</b>							
<b>G Reax 2014-2012</b>							
<b>S Additional Accessories for Shakers &amp; Mixers</b>							

## Technical Specifications - Shakers and Mixers



Research made easy

Model	Rexx top	Rexx control	Multi Rexx	Titramax	Vibramax	Vibramax	Rotamax
Motion	vibrating	vibrating	vibrating	vibrating	vibrating	vibrating	orbital
Rotation speed (rpm)	0 - 2.500	0 - 2.500	150 - 2.000	150 - 350	150 - 350	150 - 350	20 - 300
Rotation speed setting	analog	analog	digital	electronic contr.	electronic contr.	electronic contr.	electronic contr.
Orbit	(mm)	5	3	1.5	3	1.5	20
Angle	(°)	-	-	-	-	-	-
Operating mode	automatic or continuous	automatic or continuous	time or continuous	time or continuous	time or continuous	time or continuous	time or continuous
Input power (W)	5	5	50	31	31	31	46
Weight (kg)	2.8	2.8	9.8	5.5	6.5	5.5	5.5
Dimensions (w x h x d) (mm)	134 x 105 x 172	34 x 105 x 172	270 x 172 x 410	245 x 195 x 310	340 x 125 x 275	245 x 195 x 310	245 x 195 x 310
Platform size (mm)	-	-	220 x 220	220 x 220	294 x 56	220 x 220	220 x 220
Accessories included	-	-	2 clamps	space for 4 microtiter plates	space for 4 microtiter plates	non-slip rubber mat	non-slip rubber mat
Load capacity (kg)	-	-	1.5	2	5	2	2
Overheat protection	self-resetting	self-resetting	self-resetting	self-resetting	self-resetting	self-resetting	self-resetting
Permissible ambient temperature (°C)	5-40 at 85 % rel. humidity	5-40 at 85 % rel. humidity	5-40 at 80 % rel. humidity	5-40 at 80 % rel. humidity	5-40 at 80 % rel. humidity	5-40 at 80 % rel. humidity	5-40 at 80 % rel. humidity
Protection class (DIN EN 60539)	IP 22	IP 22	IP 30	IP 30	IP 30	IP 30	IP 30

Model	Unimax 1010	Unimax 2010	Promax 1020	Duomax 1030	Polymax 1040	Polymax 2040	Reaxx 2014
Motion	orbital	orbital	reciprocating	reciprocating	locking	wave	overhead
Rotation speed (rpm)	30 - 500	20 - 400	30 - 500	20 - 400	2 - 50	2.5 - 50	20 - 100
Rotation speed setting	digital	digital	digital	digital	electronic contr.	digital	analog
Orbit / Stroke (mm)	10	20	32	20	-	-	-
Angle (°)	-	-	-	-	5/10	5/10	-
Operating mode	time or continuous	-					
Input power (W)	50	115	50	15	15	15	27
Weight (kg)	8.0	16	8.0	16	8.0	16	5.2
Dimensions (w x h x d) (mm)	320 x 125 x 375	446 x 135 x 435	320 x 125 x 435	340 x 185 x 375	426 x 268 x 345	510 x 180 x 235	490 x 495 x 520
Platform size (mm)	290 x 258	390 x 340	490 x 258	390 x 340	490 x 258	390 x 340	-
Accessories included	non-slip rubber mat	universal adaptos	1050 x 495 x 520				
Load capacity (kg)	5	10	5	10	5	10	1
Overheat protection	self-resetting						
Permissible ambient temperature (°C)	0-50 at 80 % rel. humidity						
Protection class (DIN EN 60539)	IP 40	IP 20	IP 20	IP 40	IP 40	IP 20	IP 20

Standard supply voltage 230 V - other voltages upon request, please specify for order

J. Weizlein  
S. A. Henz

i. V. Stefan Richter  
Quality Control Director

## Certificate

To confirm the ability for  
continuous operation  
of the Test Tube and Platform Shakers

The Test Tube and Platform Shakers feature overtemperature safety circuits according to DIN EN 61010-1:2001 and DIN EN 61010-2-010:2003 and therefore are designed for continuous operation.

This statement is made under the precondition that all units are operated in accordance with the operation manual and in accordance with good practice standards for safety in laboratories, rules for accident preventions, and compliance with directions on hazardous materials.

Schwaach, January 2013