Ingenious Portfolio

Our rich history and extensive industry knowledge have resulted in a comprehensive line of high performance laboratory equipment that continually meet our customers' needs at economical and cost-effective prices.

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1 Thermal Shakers

OHAUS Thermal Shakers are designed for heating and cooling applications that require consistent and precise high-speed shaking with dependable temperature control from 17°C below ambient to 100°C. Temperature can be user-calibrated when precision is required. Intuitive touchscreen allows the user to view all steps of the program while monitoring the progress.

▶ See page 17

2 Guardian™ 3000

OHAUS Guardian™ 3000 Hotplate Stirrers are designed for economical heating and stirring in all laboratory settings. The bright LCD display includes easy-to-read temperature and speed settings, intuitive icons and a prominent hot top indicator that lights up when the heater is above 40°C. All models can be used with the optional temperature probe for precise temperature control of the sample.

▶ See page 59

3 Achiever™ 5000

OHAUS Achiever™ 5000 Overhead Stirrers are designed for powerful, precise stirring, safety and simplicity in all applications. The sealed design has an IP54 rating and ensures safe mixing performance even in the most demanding applications. The keyless chuck and software-controlled speed ramping provide easy setup and safe stirring to protect the sample and user. Select from five models with up to 200 Ncm torque and up to 100 L volume capacity.

▶ See page 64

4 Frontier™ FC5916R

The FC5916R is smart, intuitive, and endlessly capable. Compatible with 14 optional rotors and 75 accessories, it can be customized to implement seamlessly with your lab workflow, and enhance efficiency through innovative, intelligent design.

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What is in a Model Number?

Open Air Shakers

SHHD1619DG = Heavy Duty Open Air Shaker with 16 kg capacity, 19 mm orbit and digital controls					
SH	LD	MP	03	DG	
Type	Family	Capacity	Orbit*	Front Panel Control	Tiers**
SH = Open Air Shakers	LD = Light Duty*** EX = Extreme Environment HD = Heavy Duty**** RK = Rocking WV = Waving RC = Reciprocating HS = High Speed	02 = 2 kg 04 = 4 kg 07 = 7 kg 16 = 16 kg 23 = 23 kg 45 = 45 kg 68 = 68 kg MP = Microplates	Orbit (mm): 03 = 3 mm 15 = 15 mm 19 = 19 mm 25 = 25 mm 50 = 50 mm	AL = Analog DG = Digital	1 = 1 2 = 2
*Not applicable to RK and WV families **Analog Rockers Only		***LD models can handle samples up to 3,6 kg or 4 microplates or 2 micro-tube racks ****HD models can handle heavier samples and are available from 16 up to 68 kg			

Incubating & Incubating Cooling Shakers

ISTHBLHTS = Incubating Cooling Thermal Shaker with block, heats only and touch screen controls					
IS	LD	04	H	DG	
Type	Family	Capacity	Temperature Control	Front Panel Control	Opaque Lid Only
IS = Incubating Shakers	IC = Incubating/Cooling TH = Thermal Shakers HD = Heavy Duty** LD = Light Duty* RK = Rocking WV = Waving	02 = 2 kg 04 = 4 kg 16 = 16 kg 23 = 23 kg BL = Thermal Shaker Blocks MP = Microplate or Modular Blocks MP = Microplates	C = Heats & Cools H = Heat Only	DG = Digital TS = Touch Screen	L = Light Sensitive Samples
			*LD models can handle samples up to 3,6 kg or 4 microplates or 2 micro-tube racks **HD models can handle heavier samples and are available from 16 kg up to 23 kg		

Vortex Mixers

VXMNAL = Mini Vortex Mixer with analog control			
VX	MN	AL	*Mini models have an intermittent duty rating for short term mixing and are limited to speeds below ~900 rpm when used with optional accessories **HD models have a continuous duty rating for mixing samples when used with optional accessories throughout the entire speed range for extended periods of time
Type	Family	Front Panel Control	
VX = Vortex Mixer	MN = Mini* HD = Heavy Duty** MP = Microplate MT = Multitube	AL = Analog DG = Digital FS = Fixed Speed PS = Pulsing	

Dry Block Heaters

HB1AL = 1 Block Heater with analog controls			
HB	1	AL	
Type	Family	Front Panel Control	Units with Lids Only
HB = Heatblocks	1 = 1 Block Well 2 = 2 Block Well 4 = 4 Block Well 6 = 6 Block Well	AL = Analog DG = Digital	HL = Heated Lid version LD = Lid (non-heated)

Hotplates & Stirrers

G51HS07C = Guardian 5000 Hotplate stirrer 17,8 x 17,8 cm Ceramic plate				
G5	**1**	**HS**	**07**	**C**
Family	Generation	Function	Top Plate Size	Top Plate Material
G2 = Guardian 2000 G3 = Guardian 3000 G5 = Guardian 5000 G7 = Guardian 7000	1=first	HP = Hotplate HS = Hotplate Stirrer ST = Stirrer	4 = 10,2 x 10,2 cm / 4 x 4 inch 7 = 17,8 x 17,8 cm / 7 x 7 inch 10 = 25,4 x 25,4 cm / 10 x 10 inch RD = Round 13,5 cm	C = Ceramic M = Metal S = Ceramic Coated Stainless Steel R = Resin

Overhead Stirrers

A51ST020 = Achiever 5000 Stirrer Max Torque 020 Ncm			
A5	1	ST	020
Family	Generation	Function	Max Torque Ncm =
A5 = Achiever 5000	1=first	ST = Stirrer	020 040 060 100 200

LIGHT DUTY ORBITAL SHAKERS

Choose the Perfect Light Duty Orbital Shaker You Can Trust for Reliable Everyday Shaking

SHLDMP03DG

Application
ELISA Assays, Cell Cultures, Immunoassays, Protein Studies, Bacterial and Yeast Cultures, Staining/Destaining, Blotting Techniques, DNA Studies

Display
Easy-to-read, independent LED displays for speed/time allow the operator to view all settings simultaneously (digital models) and basic control knobs with dial markings for speed/time (analog models)

Operation
Detachable 3-wire cord and plug (included)

Construction
Cast aluminium

Design Features
Non-slip mat (29,9 × 22,2 cm) included with all models except the Microplate Shaker

Designed for flexibility with your applications – OHAUS Light Duty Shakers include the ready-to-use tray and mat, or remove the mat and customize the tray with over 20 easy-to-install accessories.

Well-performing economical choice for your everyday laboratory shaking needs. Non-digital model offers reliable shaking across the entire speed range with the robust triple eccentric drive design.

Microplate shaker is designed to securely hold up to four microplates or deepwell plates, or easily install two microtube racks. Units slowly increase speed to desired setpoint to avoid splashing.

Model	Description	Item N°
SHLD0415AL	Analog Light Duty Orbital Shaker	30391893

Specifications	
Speed Range	40 to 300 rpm
Orbit	15 mm
Maximum Weight Capacity	3,6 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	29,9 × 22,2 cm
Overall Dimensions (L × W × H)	41,3 × 254 × 10,2 cm
Ship Weight	11,3 kg

Model	Description	Item N°
SHLDMP03DG	Light Duty Microplate Shaker	30391907

Specifications	
Speed Range	100 to 1200 rpm
Speed Accuracy	± 2%
Timer	1 second to 160 hours
Orbit	3 mm
Maximum Weight Capacity	4 microplates or 2 micro-tube racks
Tray Material	Aluminium
Tray Dimensions (L × W)	27,9 × 19,7 cm
Overall Dimensions (L × W × H)	41,3 × 25,4 × 10,2 cm
Ship Weight	11,3 kg

Model	Description	Item N°
SHLD0403DG	Digital Light Duty Orbital Shaker 3 mm Orbit	30391900
SHLD0415DG	Digital Light Duty Orbital Shaker 15 mm Orbit	30391914

Specifications

Speed Range SHLD0403DG SHLD0415DG	100 to 1200 rpm 40 to 300 rpm
Speed Accuracy	+/-2% above 100 rpm +/-2 rpm below 100 rpm
Timer	1 second to 160 hours
Orbit SHLD0403DG SHLD0415DG	3 mm 15 mm
Maximum Weight Capacity	3,6 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	29,9 × 22,2 cm
Overall Dimensions (L × W × H)	41,3 × 25,4 × 10,2 cm
Ship Weight	11,3 kg

Heavy duty orbital shakers

Eight Orbital Shakers Offering a Variety of Capacities and Flexibility to Maximize Sample Processing

Application
Cell Cultures, Solubility Studies, Extractions, Bacteria & Yeast Cultures and Suspensions, Staining/Destaining, Immunoassays, Protein Studies, Blotting Techniques

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously and control knobs with dial markings (analog models)

Operation
Detachable 3-wire cord and plug (included)

Communication
RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction
Cold rolled steel (CRS)

Design Features
Built-in tray (28 x 33 cm) with a non-slip rubber mat (included)

SHHD6825DG

Ready for your lab - all models include a tray and rubber mat and can be customized with over 70 accessory options.

Rely on the digital shakers' exclusive Accu-Drive shaking system for exceptional speed control, accuracy and durability. All models feature a maintenance-free motor for long-term use.

Protect your samples. Optimal speed ramping feature slowly increases speed to setpoint to avoid splashing. The load sensor detects unbalanced conditions and automatically reduces to a safe speed.

Model	Description	Item N°
SHHD1619AL	16 kg Capacity Analog Heavy Duty Orbital Shaker	30391802

Specifications	
Speed Range	25 to 500 rpm
Timer	1 minute to 120 minutes
Orbit	19 mm
Maximum Weight Capacity	16 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	27,9 × 33 cm
Overall Dimensions (L × W × H)	41,3 × 35,5 × 14,9 cm
Ship Weight	22,2 kg

Model	Description	Item N°
SHHD1619DG	16 kg Capacity Digital Heavy Duty Orbital Shaker	30391811

Specifications	
Speed Range	15 to 500 rpm
Speed Accuracy	above 100 rpm ± 1% of set speed below 100 rpm ± 1 rpm
Timer	1 second to 160 hours
Orbit	19 mm orbit
Maximum Weight Capacity	16 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	27,9 × 33 cm
Overall Dimensions (L × W × H)	41,3 × 35,5 × 14,9 cm
Ship Weight	22,2 kg

Model	Description	Item N°
SHHD2325AL	23 kg Capacity Analog Heavy Duty Orbital Shaker	30391837

Specifications	
Speed Range	25 to 500 rpm
Timer	1 minute to 120 minutes
Orbit	25 mm
Maximum Weight Capacity	22,7 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	45,7 × 61 cm
Overall Dimensions (L × W × H)	61,0 × 67,8 × 14,9 cm
Ship Weight	49,5 kg

Model	Description	Item N°
SHHD2325DG	23 kg Capacity Digital Heavy Duty Orbital Shaker	30391844

Specifications	
Speed Range	20 to 500 rpm
Speed Accuracy	above 100 rpm ± 1% of set speed below 100 rpm ± 1 rpm
Timer	1 second to 160 hours
Orbit	25 mm
Maximum Weight Capacity	22,7 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	45,7 × 61 cm
Overall Dimensions (L × W × H)	61,0 × 67,8 × 14,9 cm
Ship Weight	49,5 kg

Model	Description	Item N°
SHHD4525DG	45 kg Capacity Digital Heavy Duty Orbital Shaker 25 mm Orbit	30391865
SHHD4550DG	45 kg Capacity Digital Heavy Duty Orbital Shaker 51 mm Orbit	30391872

Specifications	
Speed Range	
SHHD4525DG	15 to 500 rpm
SHHD4550DG	15 to 300 rpm
Speed Accuracy	above 100 rpm ± 1% of set speed below 100 rpm ± 1 rpm
Timer	1 second to 160 hours
Orbit	
SHHD4525DG	25 mm
SHHD4550DG	51 mm
Maximum Weight Capacity	45,4 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	61 × 61 cm
Overall Dimensions (L × W × H)	72,9 × 67,8 × 17,0 cm
Ship Weight	90,8 kg

Model	Description	Item N°
SHHD6825DG	68 kg Capacity Digital Heavy Duty Orbital Shaker 25 mm Orbit	30391879
SHHD6850DG	68 kg Capacity Digital Heavy Duty Orbital Shaker 51 mm Orbit	30391886

Specifications	
Speed Range	
SHHD6825DG	15 to 500 rpm
SHHD6850DG	15 to 300 rpm
Speed Accuracy	above 100 rpm ± 1% of set speed below 100 rpm ± 1 rpm
Timer	1 second to 160 hours
Orbit	
SHHD6825DG	25 mm
SHHD6850DG	51 mm
Maximum Weight Capacity	68 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	61 × 91 cm
Overall Dimensions (L × W × H)	74,4 × 91,4 × 17,0 cm
Ship Weight	104,4 kg

EXTREME ENVIRONMENT SHAKERS

High Performance Orbital Shaker Designed to Withstand Extreme Environments Up To 100% Humidity

Application
Cell Cultures, Solubility Studies, Extraction Procedures, Bacteria & Yeast Cultures and Suspensions, Staining/Destaining, Immunoassays, Protein Studies, Blotting Techniques

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously

Operation
Detachable 3-wire cord and plug (included)

Communication
RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction
Cold rolled steel (CRS) and stainless steel, external control module, thin ribbon cable (1,7 m) easily passes underneath an incubator door or via incubator's utility port

Design Features
Built-in tray (28x33 cm) with a non-slip rubber mat (included)

Defy the elements - rely on this orbital shaker's unique construction to deliver exceptional speed control, accuracy and durability under the most extreme environmental conditions.

Best in class load capacity to maximize efficiency in your incubator. Customize the Extreme Environment Shaker for your unique application with over 50 accessories.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The triple eccentric drive provides smooth, stable shaking motion throughout the entire speed range.

Model	Description	Item N°
SHEX1619DG	Extreme Environment Shaker	30391816

Specifications	
Speed Range	15 to 500 rpm
Speed Accuracy	above 100 rpm ± 1% of set speed
Timer	1 second to 160 hours
Orbit	19 mm
Maximum Weight Capacity	16 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	3 27,9 × 33 cm
Overall Dimensions (L × W × H) Shaker	29,4 × 35,5 × 14,9 cm
Remote	15,0 × 35,6 × 11,2 cm
Ship Weight	22,2 kg

RECIPROCATING SHAKER

*Providing Consistent, Repeatable Reciprocating Shaking Action
for a Variety of Applications*

Application
Chemical Extractions, Blood Sample Mixing, Gel Staining, Cell Cultures, Solubility Studies

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously

Operation
Detachable 3-wire cord and plug (included)

Communication
RS232 interface provides two-way communication for data logging and unit control (digital models)

Construction
Cold rolled steel (CRS)

Design Features
Built-in tray (28x33 cm) with a non-slip rubber mat (included)

A flexible unit for the lab - our multi-purpose Reciprocating Shakers can be customized to fit your unique workflow needs using a wide variety of accessories.

Reciprocating motion is ideal for gentle-to-vigorous mixing of separatory funnels with the sturdy separatory funnel platform. Other optional platforms for flask clamps, media bottles and tube racks.

Designed for safety - speed ramping feature slowly increases speed to avoid splashing. Load sensor detects unbalanced conditions and automatically reduces to a safe speed to protect samples.

Model	Description	Item N°
SHRC0719DG	Digital Reciprocating Shaker	30391830

Specifications	
Speed Range	20 to 300 rpm
Speed Accuracy	above 100 rpm ± 1% of set speed below 100 rpm ± 1 rpm
Timer	1 second to 160 hours
Stroke	19 mm
Maximum Weight Capacity	6,8 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	27,9 × 33 cm
Overall Dimensions (L × W × H)	41,3 × 35,5 × 14,6 cm
Ship Weight	22,2 kg

ROCKING-WAVING SHAKERS

Reliable Rocking and Waving Shakers with Simple Adjustments for Tilt Angle and Speed

Application
Mixing Blood Samples, DNA Extractions, Blotting Techniques, Staining and Destaining Gels, Hybridizations

Display
Easy-to-read, independent LED displays for speed, tilt angle and time allow the operator to view all settings simultaneously (digital models) and basic control knobs with dial markings for speed, tilt angle and time (analog models)

Operation
Detachable 3-wire cord and plug (included)

Construction
Cast aluminium housing, non-slip rubber mat (included), stacking tray option (with all models except the analog Waver model)

Design Features
Spill-resistant design, overload protection with audio/visual alarm on digital models and audible alarm on analog models

SHWV02AL

SHWV02DG

Electronic control allows simple tilt angle and speed adjustments while the unit is still running to achieve optimal mixing

Achieve reproducible results you can trust with digital models. Precisely adjust the tilt angle in 1° increments with variable speed down to 1 rpm with intuitive touchpad controls.

Optimal speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with state-of- the-art motor and electronics.

Model	Description	Item N°
SHRK07AL1	Analog Rocking Shaker 1 Tier	30391954
SHRK07AL2	Analog Rocking Shaker 2 Tier	30391961

Specifications		
Speed Range		1 to 75 rpm*
Tilt Angle		0 to 15°*
Timer		1 minute to 120 minutes
Maximum Weight Capacity		7,3 kg**
Tray Material		Aluminium
Tray Dimensions (L × W)		35,6 × 27,9 cm
Overall Dimensions (L × W × H)	1 Tier	42,5 × 27,9 × 14,0 cm
	2 Tier	42,5 × 27,9 × 24,1 cm
Ship Weight		7 kg

Model	Description	Item N°
SHWV02AL	Analog Waving Shaker	30391968

Specifications	
Speed Range	1 to 75 rpm*
Tilt Angle	0 to 16°*
Timer	1 minute to 120 minutes
Maximum Weight Capacity	2,3 kg**
Tray Material	Aluminium
Tray Dimensions (L × W)	35,6 × 27,9 cm
Overall Dimensions (L × W × H)	42,5 × 27,9 × 16,5 cm
Ship Weight	7 kg

Model	Description	Item N°
SHRK04DG	Digital Rocking Shaker 1 Tier	30391989

Specifications	
Speed Range	1 to 50 rpm*
Speed Accuracy	± 1 rpm
Tilt Angle	0 to 15°*
Timer	1 second to 160 hours
Maximum Weight Capacity	4,5 kg**
Tray Material	Aluminium
Tray Dimensions (L × W)	32,4 × 25,4 cm
Overall Dimensions (L × W × H)	42,5 × 25,4 × 14,0 cm
Ship Weight	7 kg

Model	Description	Item N°
SHWV02DG	Digital Waving Shaker	30391949

Specifications	
Speed Range	1 to 30 rpm*
Speed Accuracy	± 1 rpm
Tilt Angle	0 to 20°*
Timer	1 second to 160 hours
Maximum Weight Capacity	2,3 kg**
Tray Material	Aluminium
Tray Dimensions (L × W)	29,9 × 22,2 cm
Overall Dimensions (L × W × H)	41,3 × 25,4 × 16,5 cm
Ship Weight	7,3 kg

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.
** Centered on tray.

HIGH SPEED MICROPLATE SHAKER

High Speed Shaking for up to 48 Microplates

NEW

Application
Cell Lysing, Emulsifications, Mixing Microplates

Display
Independent LED displays for speed and time

Construction
Die Cast Aluminum

Communication
RS-232

Design Features
Programmable pulse feature with adjustments for pulse ON & pulse OFF between 1 & 59 seconds. Program timer to count down from set time and turn off when timer reaches zero or run in continuous mode and timer will count accumulated time until user turns it off.

Sturdy, adjustable top plate secures up to 48 microplates, 6 deep well plates or small tubes less than 12.7 cm tall up to 3.2 kg.

For difficult to mix samples or to prevent overheating samples while shaking, the Pulse Feature can be adjusted to Pulse ON and Pulse OFF between 1 and 59 second intervals.

Independent LEDs and Touchpad Control for Speed and Time allow you to accurately reproduce the exact settings every time

Model	Description	Item N°
SHHSMPDG	High Speed Microplate Shaker	30573785

Specifications	
Motion	Orbital, 3,6 mm
Speed Range	600 rpm to 2500 rpm
Timer	1 second to 160 hours
Control	Digital
Communication	RS-232 Interface
Capacity	48 microplates
Dimensions (H x L x W)	32,5 x 39,4 x 30,5 cm
Tray Dimensions (L x W)	31,1 x 27,9 cm
Net Weight	21,8 kg

INCUBATING COOLING THERMAL SHAKERS

Industry Leading Thermal Shaker with Exceptional Heating/Cooling Performance with High Speed Shaking

Application
DNA, RNA, Cell Cultures, Hybridizations, Protein Studies

Display
10,9 cm colour touchscreen Liquid Crystal Display (LCD) which can be programmed in six languages

Operation
Detachable 3-wire cord and plug (included), unit requires a block (ISTHBLHTS and ISTHBLCTS units are supplied with block for 24 × 1.5 mL tubes, removable rack and cover) - compatible with Eppendorf Thermomixer® R blocks

Communication
USB port provides greater flexibility in data collection and transfer

Construction
Valox cool touch housing, removable plastic rack, cover and screwdriver for block removal (included)

Design Features
Hot top indicator, audible alarm, maximum temperature limiting function, temperature priority function, pulse/quick mix mode, temperature calibration mode, temperature ramp rate function

Best in class temperature performance. Enhanced electronics and software allow for fast and accurate temperature control you can trust. Cooling models reach temperatures down to 17°C below ambient.

Intuitive touchscreen for simple operation and programming. Set the functions and the comprehensive help screens in one of six languages to guide the user through the operation of the unit.

Easily create programs for repeat applications. Storage for five separate, 5-step programs. The USB port allows the transfer of test data to a flash drive for data logging and program storage.

Model	Description	Item N°
ISTHBLHTS	Thermal Shaker	30392005
ISTHBLCTS	Cooling Thermal Shaker	30391998
ISTHBLCTSN*	Thermal Shaker Heat/Cool without block	30573842
ISTHBLHTSN*	Thermal Shaker Heat without block	30573848

*NEW

Specifications

Temperature Range	
Thermal Shaker	4°C above ambient to 100°C
Cooling Thermal Shaker	17°C below ambient to 100°C
Temperature Accuracy	
Thermal Shaker	± 1°C between 20°C and 45°C
	± 2°C above 45°C
Cooling Thermal Shaker	± 0,5°C between 20°C and 45°C
	± 2°C below 20°C and above 45°C
Speed Range	300 to 3000 rpm
Speed Accuracy	± 2%
Timer	1 minute to 99 hours, 59 minutes
Orbit	3 mm
Cooling Rate	above ambient 2-3°C/min
	below ambient 0,5-1,0°C/min
Heating Rate	5°C/min
Overall Dimensions (L × W × H)	26 × 24,8 × 13,2 cm
Ship Weight	5,4 kg

ACCESSORIES FOR INCUBATING COOLING THERMAL SHAKERS MODULAR BLOCKS

Microplate Block

Sample Type	Well Size	Well Depth	Dimensions (L × W × H)	Item N°
Microplate Thermal Block with Lid	12,8 x 8,6 × 0,25 cm	2,30 cm	11,9 × 16,3 × 7,6 cm	30400126

Sample Type	Well Diameter	Well Depth	Dimensions (L × W × H)	Item N°
384 Well Plate Thermal Block with Lid	0,40 cm	0,81 cm	11,9 × 16,3 × 7,6 cm	30400127
0,2 ml PCR Plate Thermal Block with Lid	0,64 cm	1,27 cm	11,9 × 16,3 × 7,6 cm	30400128

Tube Blocks

Sample Type	N° of Wells	Well Diameter	Well Depth	Dimensions (L × W × H)	Item N°
0,5 ml Microtubes*	30	0,79 cm	2,46 cm	10,2 × 14,2 × 4,6 cm	30400129
1,5 ml Microtubes*	24	1,11 cm	3,53 cm	10,2 × 14,2 × 5,3 cm	30400130
2,0 ml Microtubes*	24	1,15 cm	3,53 cm	10,2 × 14,2 × 5,3 cm	30400131
5-7 ml Tubes	24	1,20 cm	3,61 cm	10,2 × 14,2 × 5,6 cm	30400132

* Supplied with clear rack and cover

Racks and Covers

Description	Item N°
Rack For 30 X 0,5 ml Tube Block	30400250
Rack For 24X1,5 / 24X2,0 ml Tube Blocks	30400251
Cover For 0,5ml/1,5ml/2,0ml Tube Blocks	30400252

Cryo Tube Block

Sample Type	N° of Wells	Well Diameter	Well Depth	Dimensions (L × W × H)	Item N°
2,0 ml Cryo Tubes	24	1,26 cm	3,6 cm	10,2 × 14,2 × 5,6 cm	30400133

Conical Tube Blocks

Sample Type	N° of Wells	Well Diameter	Well Depth	Dimensions (L × W × H)	Item N°
5 ml Eppendorf Tube Block	9	1,68 cm	4,9 cm	10,4 × 14,5 × 7,1 cm	30400134
15 ml Conical Tubes	9	1,73 cm	10,44 cm	10,7 × 14,7 × 12,7 cm	30400135
50 ml Conical Tubes	4	3,0 cm	10,09 cm	10,2 × 14,5 × 12,2 cm	30400136

30400126

30400127

30400128

30400129

30400130

30400131

30400132

30400250

30400133

30400134

30400135

30400136

INCUBATING LIGHT DUTY ORBITAL SHAKERS

Save Bench Space with Combined Incubating and Shaking Features

Application
Immunoassays, Hybridizations, Cell Cultures, Bacterial & Yeast Cultures and Suspensions, ELISA Assays, PCR, Enzyme Reactions

Display
Easy-to-read, independent LED displays for temperature, speed and time allow the operator to view all settings simultaneously
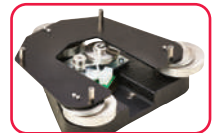
Operation
Detachable 3-wire cord and plug (included)

Construction
Cast aluminium housing with polycarbonate lid, brushless DC motor

Design Features
Spill-resistant design, overload protection, caution hot indicator

Designed to provide flexibility in your applications, these shakers with a 4 kg capacity include the ready to use tray to customize with over 10 easy-to-install accessories.

When precision is required achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

When precision is required achieve temperature accuracy with the user-controlled temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Model	Description	Item N°
ISLD04HDG	Incubating Light Duty Orbital Shaker	30391919

Specifications	
Temperature Range	Ambient +5°C to 65°C
Temperature Uniformity	± 0,5°C at 37°C
Speed Range	100 to 1200 rpm
Speed Accuracy	± 2% of set speed
Timer	1 second to 160 hours
Orbit	3 mm
Maximum Weight Capacity	3,6 kg
Tray Material	Aluminium
Tray Dimensions (L × W)	27,9 × 19,7 cm
Interior Dimensions (L × W × H)	28,7 × 21,1 × 14,5 cm
Overall Dimensions (L × W × H)	43,2 × 27,9 × 27 cm
Ship Weight	13,6 kg

Model	Description	Item N°
ISLDMPHDG	Incubating Microplate Shaker	30391933
ISLDMPHDGL	Incubating Microplate Shaker with Opaque Lid	30391926

Specifications

Temperature Range	Ambient +5°C to 65°C
Temperature Uniformity	± 0,5°C at 37°C
Speed Range	100 to 1200 rpm
Speed Accuracy	± 2%
Timer	1 second to 160 hours
Orbit	3 mm
Maximum Weight Capacity	4 microplates or 2 micro-tube racks
Tray Material	Aluminium
Tray Dimensions (L × W)	27,9 × 19,7 cm
Overall Dimensions (L × W × H)	43,2 × 27,9 × 19,7 cm
Ship Weight	13,6 kg

INCUBATING & INCUBATING COOLING SHAKERS

Save Incubator Space with Benchtop Incubating and Incubating Refrigerating Shakers

Application
Cell Cultures, Solubility Studies, Bacterial Suspensions, Extraction Procedures

Display
Independent LED displays for temperature, speed and time

Communication
RS-232 Interface

Construction
Aluminum and Cycoloy

Design Features
Temperature calibration feature, overload protection, overshoot protection (temperature), load sensor, PID temperature controller, Triple Eccentric Drive system

ISHD23CDG

The exclusive Opti-Flow Forced Ventilation System utilizes twin induction or a single large fan. Air is deflected around & not directly on samples, creating a circular flow of air ensuring uniformity.

For repeatable results, the exclusive Accu-Drive shaking system ensures speed accuracy. The Triple Eccentric Drive provides consistent shaking motion throughout the entire speed range.

The chambers for the ISHD23HDG and ISHD23CDG units are large enough to hold 2 x 6 L Erlenmeyer flasks with optional clamps and platform.

Model	Description	Item N°
ISHD16HDG	Incubating Heavy Duty Orbital Shaker 16kg	30573770

Specifications	
Motion	Orbital, 19 mm
Speed Range	15 rpm to 500 rpm
Speed Accuracy	Above 100 rpm +/-1% / Under 100 rpm +/- 1 rpm
Temperature Range	Ambient +5 °C to 65 °C
Temperature Uniformity	+/- 0,5 °C at 37 °C
Calibration	Temperature Calibration
Timer	1 second to 160 hours
Control	Digital
Communication	RS-232 Interface
Max Weight Capacity	16 kg @ 75 rpm, 2,3 kg @ 500 rpm
Drive System	Triple Eccentric; Brushless DC motor
Dimensions (H x L x W)	40,6 x 64,8 x 35,6 cm
Interior Dimensions (H x L x W)	24,1 x 34 x 30,5 cm
Tray Dimensions (L x W)	33 x 27,9 cm
Net Weight	35,9 kg

Model	Description	Item N°
ISHD23HDG	Incubating Heavy Duty Orbital Shaker 23kg	30573775

Specifications	
Motion	Orbital, 25 mm
Speed Range	15 rpm to 500 rpm
Speed Accuracy	Above 100 rpm +/-1% / Under 100 rpm +/- 1 rpm
Temperature Range	Ambient +5 °C to 65 °C
Temperature Uniformity	+/- 0,5 °C at 37 °C
Calibration	Temperature Calibration
Timer	1 second to 160 hours
Control	Digital
Communication	RS-232 Interface
Max Weight Capacity	22,7 kg @ 125 rpm, 4,53 kg @ 500 rpm
Drive System	Triple Eccentric; Brushless DC motor
Dimensions (H x L x W)	59,6 x 81,5 x 67,5 cm
Interior Dimensions (H x L x W)	43,2 x 52,3 x 62,9 cm
Tray Dimensions (L x W)	45,6 x 45,7 cm
Net Weight	101,6 kg

Model	Description	Item N°
ISHD23CDG	Incubating/Refrigerating Heavy Duty Orbital Shaker 23kg	30573780

Specifications	
Motion	Orbital, 25 mm
Speed Range	15 rpm to 500 rpm
Speed Accuracy	Above 100 rpm +/-1% / Under 100 rpm +/- 1 rpm
Temperature Range	15 °C below ambient to 65 °C
Temperature Uniformity	+/- 0,5 °C at 37 °C
Calibration	Temperature Calibration
Timer	1 second to 160 hours
Control	Digital
Communication	RS-232 Interface
Max Weight Capacity	22,7 kg @ 125 rpm, 4,53 kg @ 500 rpm
Drive System	Triple Eccentric; Brushless DC motor
Dimensions (H x L x W)	59,6 x 104,4 x 67,5 cm
Interior Dimensions (H x L x W)	43,2 x 52,3 x 62,9 cm
Tray Dimensions (L x W)	45,6 x 45,7 cm
Net Weight	131,7 kg

INCUBATING COOLING ORBITAL SHAKERS

Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Application
Immunoassays, Hybridizations, Cell Cultures, Bacterial & Yeast Cultures and Suspensions, ELISA Assays, PCR, Enzyme Reactions

Display
Easy-to-read, independent LED displays for temperature, speed and time allow the operator to view all settings simultaneously

Operation
Detachable 3-wire cord and plug (included)

Construction
Cast aluminium housing with polycarbonate lid, brushless DC motor

Design Features
Spill-resistant design, overload protection, caution hot indicator

Designed to provide flexibility in your applications, these shakers are microplate ready - no accessories required, and can easily accommodate modular blocks with the included block adapter.

When precision is required, achieve temperature accuracy with the unique temperature calibration feature for sensitive applications. Digital control for reliable and repeatable shaking speed.

Innovative temperature system allows for fast, accurate and uniform temperatures you can trust. The unique Peltier design with direct plate-to-sample contact offers precise heating and cooling.

Model	Description	Item N°
ISICMBCDG	Incubating Cooling Light Duty Shaker	30391940

Specifications	
Temperature Range	10°C below ambient to 65°C
Temperature Uniformity	± 0,5°C at 37°C
Speed Range using Microplates	100 to 1200 rpm
Speed Range using Modular Blocks	100 to 600 rpm
Speed Accuracy	± 2%
Timer	1 second to 160 hours
Orbit	3 mm
Maximum Weight Capacity	2 microplates or 2 modular blocks
Overall Dimensions (L × W × H)	45,5 × 27,9 × 26,7 cm
Ship Weight	15,4 kg

ACCESSORIES FOR INCUBATING COOLING ORBITAL SHAKERS MODULAR BLOCKS

Modular Blocks

Modular Blocks are constructed from a solid anodized aluminium block. The close contact of tubes to block walls allow for maximum temperature transfer.

Block dimensions (L × W × H): 9,5 × 7,6 × 5,1 cm

Applications: Cell cultures, hybridizations, and extraction procedures

OHAUS modular blocks also fit in the OHAUS Dry Block Heaters.

Constructed of anodized aluminium, this material is ideal for its temperature conducting and corrosion resistant properties.

Microcentrifuge Tube Blocks
Single block

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
0,5 ml tube	30	7,9 mm	27,6 mm	30400157
1,5 ml tube	20	11,1 mm	39,1 mm	30400159
2 ml tube	20	11,5 mm	38,1 mm	30400191

Conical-Bottom Centrifuge Tube Blocks
Single block

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
15 ml tube	12	17,1 mm	44,5 mm	30400172
50 ml tube	5	29,0 mm	47,6 mm	30400168

Standard Test Tube Blocks
Single block

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
6 mm tube	30	8,3 mm	48,4 mm	30400158
10 mm tube	24	10,7 mm	48,4 mm	30400151
12/13 mm tube	20	13,9 mm	48,4 mm	30400152

Combination Blocks
Single block
Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
Test Tube Combination				
6 mm	6	8,3 mm	48,4 mm	
12/13 mm	5	13,8 mm	48,4 mm	30400156
25 mm	3	26,2 mm	48,4 mm	
Centrifuge Tube Combination				
1,5 ml	4	11,1 mm	39,1 mm	
15 ml	3	17,1 mm	44,5 mm	30400193
50 ml	2	29,0 mm	47,6 mm	
Micro-Tube Combination				
0,5 ml	6	7,9 mm	27,6 mm	
1,5 ml	10	11,1 mm	39,1 mm	30400194
2 ml	5	11,5 mm	38,1 mm	

Vial Blocks
Single block
Innovatively Designed Incubating Orbital Shaker to Heat, Cool and Shake Samples

Sample Type	N° of Wells	Well Diameter	Well Depth	Item N°
12 mm vial	20	12,7 mm	30 mm	30400182
15 mm vial	20	15,8 mm	35 mm	30400183
16 mm vial	15	16,4 mm	45 mm	30400190
17 mm vial	12	17,8 mm	45 mm	30400184
19 mm vial	12	19,7 mm	45 mm	30400185
21 mm vial	9	21,7 mm	45 mm	30400186
23 mm vial	8	23,8 mm	45 mm	30400187
25 mm vial	8	25,8 mm	45 mm	30400188
28 mm vial	6	28,8 mm	45 mm	30400189

30400157

30400159

30400191

30400172

30400168

30400158

30400151

30400152

30400156

30400193

30400194

30400182

30400183

30400190

30400184

30400185

30400186

30400187

30400188

30400189

INCUBATING ROCKING & WAVING SHAKERS

ISWV02HDG

Save Incubator Space with Unique Benchtop Incubating Rocking and Waving Shakers

Application
Hybridizations, Cell Cultures, Blotting Techniques, Staining and Destaining Gels

Display
Easy-to-read, independent LED displays for temperature, speed/tilt angle and time allow the operator to view all settings simultaneously

Operation
Detachable 3-wire cord and plug (included)

Construction
Cast aluminium housing with polycarbonate lid

Design Features
Spill-resistant design, overload protection with audio/visual alarm on digital models and audible alarm on analog models, caution hot indicator

Electronic control allows simple tilt angle, speed and temperature adjustments while the unit is still running to achieve optimal mixing.

Achieve reproducible results you can trust. Precisely adjust the tilt angle in 1° increments, vary the speed by 1 rpm and set temperature in 1°C increments with intuitive touchpad controls.

Innovative speed ramping feature slowly increases speed to desired setpoint to avoid splashing. Smooth rocking or waving motion is maintained with unique, state-of-the-art motor and electronics.

Model	Description	Item N°
ISRK04HDG	Incubating Rocking Shaker	30391975

Specifications	
Temperature Range	Ambient +5°C to 65°C
Temperature Uniformity	± 0,5°C at 37°C
Speed Range	1 to 50 rpm *
Speed Accuracy	± 1 rpm
Tilt Angle	0 to 15° *
Timer	1 second to 160 hours
Maximum Weight Capacity	4,5 kg **
Tray Material	Aluminium
Tray Dimensions (L × W)	25,4 × 19,1 cm
Interior Dimensions (L × W × H)	27,3 × 19,7 × 9,7 cm
Overall Dimensions (L × W × H)	43,2 × 27,9 × 26,7 cm
Ship Weight	10 kg

Model	Description	Item N°
ISWV02HDG	Incubating Waving Shaker	30391982

Specifications	
Temperature Range	Ambient +5°C to 65°C
Temperature Uniformity	± 0,5°C at 37°C
Speed Range	1 to 30 rpm *
Speed Accuracy	± 1 rpm
Tilt Angle	0 to 20° *
Timer	1 second to 160 hours
Maximum Weight Capacity	2,3 kg **
Tray Material	Aluminium
Tray Dimensions (L × W)	23,5 × 18,4 cm
Interior Dimensions (L × W × H)	27,3 × 19,7 × 8,6 cm
Overall Dimensions (L × W × H)	43,2 × 27,9 × 26,7 cm
Ship Weight	10 kg

* Maximum speed/tilt angle may vary with heavy or unbalanced loads.
** Centered on tray.

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

30400054/30400056

Universal Platforms

Allows for mounting of flask clamps, test tube racks, and bottle clamps. Platform slides over top of included tray and is tightened with adjustment screws. Optional accessories screw directly into mounting point openings. The two-tier braces allow stacking of platforms with a 25,4 cm clearance (available for select sizes). An optional non-skid rubber mat can be placed on the platform for an added non-slip surface. The platform is constructed of type 304 stainless steel.

Universal Platforms

Description	Used on Shakers	Item N°
27,9 × 33 cm Universal Platform	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400052
33 × 33 cm Universal Platform	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400053
45,7 × 45,7 cm Universal Platform*	Analog/Digital 16 kg Shakers and Reciprocating Shakers**	30400054
45,7 × 61 cm Universal Platform*	Analog/Digital 16 kg & 23 kg Shakers** and Reciprocating Shakers**	30400056
61 × 61 cm Universal Platform	Digital 45 kg Shakers	30400057
45,7 × 76,2 cm Universal Platform*	Analog/Digital 23 kg Shakers	30400058
61 × 91,4 cm Universal Platform	Digital 68 kg Shakers	30400059
46 X 46 cm, S/S I-IR Universal Platform	Incubating 23 kg shakers	30400055
Two-Tier Braces (set of 4)	Analog/Digital 16 kg & 23 kg Shakers	30400051

Rubber Mats

Description	Used on Shakers	Item N°
27,9 × 33 cm Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400060
33 × 33 cm Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400061
45,7 × 45,7 cm Rubber Mat	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400062
45,7 × 61 cm Rubber Mat	Analog/Digital 16 kg Shakers, Reciprocating Shakers and Analog Digital 23kg Shakers	30400063
61 × 61 cm Rubber Mat	Digital 45 kg Shakers	30400064
61 × 91,4 cm Rubber Mat	Digital 68 kg Shakers	30400065

30400067

Culture Platforms

Ideal for slow speed applications; Petri dishes, culture flasks, and other flat bottom, low profile vessels. The two-tier braces (available for both sizes) allow stacking of platforms with a 25,4 cm clearance. The platform is constructed of type 304 stainless steel. The platform has a non-skid rubber surface.

Culture Platforms

Description	Used on Shakers	Item N°
45,7 × 45,7 cm Culture Platform*	Analog/Digital 16 kg Shakers* and Reciprocating Shakers**	30400066
45,7 × 61 cm Culture Platform*	Analog/Digital 16 kg* & 23 kg Shakers and Reciprocating Shakers**	30400067
Two-Tier Braces (set of 4)	Analog/Digital 16 kg & 23 kg Shakers	30400051

*To stack platforms select (2) stackable platforms of the same size and (1) tier brace kit (Item No. 30400051)
**61 × 46 platforms can be used on both 16 kg and 23 kg shakers but can only be stacked on 16 kg shakers

Dedicated Platforms

Pre-mounted flask clamps for maximum utilization of platform space for flasks of all one size.
The two-tier braces allow stacking of platforms with a clearance (available for select sizes).
Platform is constructed of type 304 stainless steel. Flask clamps are constructed of PVC. Ideal for
polycarbonate flasks.

Dedicated Platforms   30400081

Description	Flask Capacity	Used on Shakers	Item N°
33 × 33 cm Dedicated Platform / 125 ml Flask Clamp	16	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400075
33 × 33 cm Dedicated Platform / 250 ml Flask Clamp	12	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400076
33 × 33 cm Dedicated Platform / 500 ml Flask Clamp	8	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400077
33 × 33 cm Dedicated Platform / 1 L Flask Clamp	4	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400078
45,7 × 45,7 cm Dedicated Platform / 125 ml Flask Clamp*	27	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400079
45,7 × 45,7 cm Dedicated Platform / 250 ml Flask Clamp*	20	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400080
45,7 × 45,7 cm Dedicated Platform / 500 ml Flask Clamp*	13	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400081
45,7 × 45,7 cm Dedicated Platform / 1 L Flask Clamp	9	Analog/Digital 16 kg Shakers and Reciprocating Shakers **	30400082
Two-Tier Braces (set of 4)		Analog/Digital 16 kg Shakers	30400051

Adjustable Platforms

Adjustable clamping bars accommodate various vessel types. Constructed of stainless steel.
The base tray has a non-skid rubber surface.

Adjustable Platforms   30400068

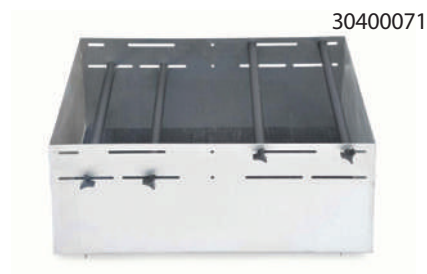| Description	Bar Size	Overall Dimensions	Used on Shakers	Item N°
2-bar Adjustable Platform	21,8 cm	21,8 × 29,7 cm	Digital 4 kg Shakers	30400121
4-bar Adjustable Platform	45,7 cm	45,7 × 45,7 cm	Analog/ Digital 16 kg shakers	30400068
4-bar Adjustable Platform	45,7 cm	45,7 × 61 cm	Analog/ Digital 23 kg shakers	30400069

Replacement Parts

Description	Used with Platforms	Item N°
21,8 cm Adjustable Bar (with Mounting Hardware)	30400121	30400122
45,7 cm Adjustable Bar (with Mounting Hardware)	30400068 & 3040069	30400073

30400071

Large Vessel Carrier Platforms

Ideal for large sample containers like carboys, jugs, and bottles. The platforms' high side walls secure samples, has a heavy-duty design and is constructed of stainless steel. The base tray has a non-skid rubber surface.

Large Vessel Carrier Platforms

Description	Bar Size	Overall Dimensions (L × W × H)	Used on Shakers	Item N°
4-bar Large Vessel Carrier Platform	45,7 cm	76,4 × 45,9 × 35,3 cm	Analog/Digital 23 kg Shakers	30400070
4-bar Large Vessel Carrier Platform	61 cm	61,9 × 61,7 × 36,0 cm	Digital 45 kg Shakers	30400071
5-bar Large Vessel Carrier Platform	61 cm	93,7 × 61,7 × 36,0 cm	Digital 68 kg Shakers	30400072

Replacement Part	Used with Carrier	Item N°
45,7 cm adjustable bar (with mounting hardware)	30400070	30400073
61 cm adjustable bar (with mounting hardware)	30400071 & 30400072	30400074

Separatory Funnel Platform

Holds 3 funnels at once on a 45,7 × 45,7 cm platform. Platform can accommodate 500 ml to 2 L separatory funnels and is constructed of stainless steel. Includes platform, clamps and hardware to secure 3 funnels.

Separatory Funnel Platform

Description	Used on Shakers	Item N°
Separatory Funnel Platform (45,7 × 45,7 cm)	Analog/Digital 16 kg Shakers and Reciprocating Shakers	30400083

Microplate Clamp

Can hold one standard microplate or deep-well plate. Constructed of type 304 stainless steel. Platform Capacities for Microplate Clamps

Microplate Clamp

Platform Capacities for Microplate Clamps

Platform Size	Microplate Clamps	Item N°
27,9 × 33 cm	4	30400052
33 × 33 cm	6	30400053
45,7 × 45,7 cm	12	30400054
45,7 × 61 cm	18	30400056
45,7 × 76,2 cm	21	30400057
61 × 61 cm	24	30400058
61 × 91,4 cm	36	30400059

Description	Used on Shakers	Item N°
Microplate Clamp	Analog/Digital 16 kg, 23 kg, 45 kg, & 68 kg Shakers	30400104

Universal Harness

Attaches to tray to secure low profile plates.

Universal Harness

Description	Used on Shakers	Item N°
Universal Harness	Digital 4 kg Open Air Orbital Shakers	30400123

Dimpled Mat

Designed to hold centrifuge tubes, vials, culture tubes, and micro-tubes securely in place. Mat can easily be removed for cleaning and transporting of tubes from bench to tray.

Dimpled Mat

Description	Used on Shakers	Item N°
Dimpled Mat, 32,4 × 25,4 cm	Digital Rocking Shaker	30400140
Dimpled Mat, 29,9 × 22,2 cm	Digital Waving Shaker	30400142
Dimpled Mat, 29,9 × 22,2 cm	Open Air 4 kg Orbital Shaker	30400124
Dimpled Mat, 35,6 × 27,9 cm	Analog Rocking & Waving Shaker	30400144

Stacking Tray

Easily attaches to the units' included tray to add a second tier for higher capacity applications. Second tier tray mounts 8,9 cm above lower tray. The tray includes hardware and a rubber mat.

Stacking Tray

Description	Used on Shakers	Item N°
Stacking Tray, 32,4 × 25,4 cm	Digital Rocking Shaker	30400137
Stacking Tray, 29,9 × 22,2 cm	Digital Waving Shaker	30400138
Stacking Tray, 35,6 × 27,9 cm	Analog Rocking Shaker	30400139

Dilution Cup Tray

Constructed of type 304 stainless steel. Holds 24 × 28 mm dilution vials.

Dilution Cup Tray

Description	Used on Unit	Item N°
Dilution Cup Tray	Digital 4 kg Open Air Orbital Shakers	30400125

Micro-Tube Rack

Optional 1,5 to 2 ml Micro-Tube Rack attaches to tray to hold up to 70 × 1,5 ml or 2 ml micro-tubes. Tray can accommodate up to 2 micro-tube racks.

Micro-Tube Rack

Description	Used on Unit	Item N°
Micro-Tube Rack	Digital Open Air and Incubating Microplate Shaker	30400114

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

## Stainless Steel Flask Clamps

Designed to hold Erlenmeyer flasks from 10 ml to 6 L. Constructed of type 302 and 304 stainless steel. Includes hardware for easy attachment to platforms. Flask clamps 50 ml and higher are supplied with a spring to hold the flask in place. The 2,8 L clamp is designed to hold a Fernbach flask. Media bottle clamps feature the same details as flask clamps.

Media Bottle Flask Clamps

Erlenmeyer Flask Clamps
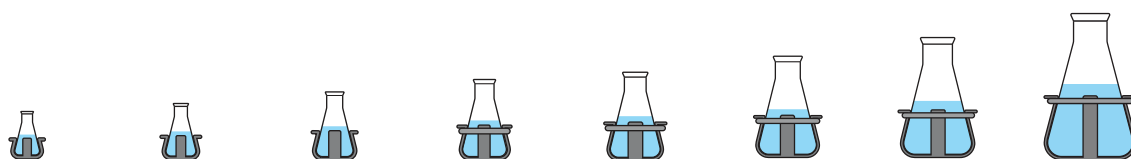
Clamp Style	10 ml Erlenmeyer Flask Clamp	25 ml Erlenmeyer Flask Clamp	50 ml Erlenmeyer Flask Clamp	125 ml Erlenmeyer Flask Clamp	250 ml Erlenmeyer Flask Clamp	500 ml Erlenmeyer Flask Clamp	1 L Erlenmeyer Flask Clamp	2 L Erlenmeyer Flask Clamp
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Item Number	30400084	30400085	30400086	30400087	30400088	30400089	30400090	30400091
Tray or Platform	Number of Flask Clamps per Tray or Platform							
29,9 × 22,2 cm								
Open Air Digital 4 kg Shakers	35	20	15	12	6	4	N/A	N/A
27,9 × 19,7 cm								
Incubating 4 kg Shakers	35	20	12	8	5	N/A	N/A	N/A
27,9 × 33 cm								
Analog/Digital 16 kg Shakers	60	25	13	10	9	7	4	N/A
Digital Reciprocating Shakers	60	25	13	10	9	7	4	N/A
33 × 33 cm								
Analog/Digital 16 kg Shakers	60	30	15	12	12	8	4	3
Digital Reciprocating Shakers	60	30	15	12	12	8	4	3
45,7 × 45, 7 cm								
Analog/Digital 16 kg Shakers	113	64	32	20	20	13	8	5
Digital Reciprocating Shakers	113	64	32	20	20	13	8	5
Incub, Incub/Ref 23kg Shakers	113	64	32	20	20	13	8	5
45,7 × 61 cm								
Analog/Digital 16 kg Shakers	158	88	44	28	28	20	12	6
Digital Reciprocating Shakers	158	88	44	28	28	20	12	6
Analog/Digital 23 kg Shakers	158	88	44	28	28	20	12	6
45,7 × 76,2 cm								
Analog/Digital 23 kg Shakers	203	112	56	36	36	26	15	8
61 × 61 cm								
Digital 45 kg Shakers	221	121	61	41	41	25	16	9
61 × 91,4 cm								
Digital 63 kg Shakers	336	160	94	61	64	40	24	14

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers.
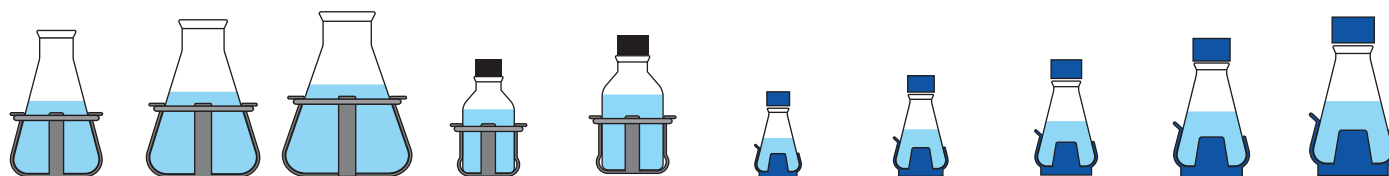
ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

PVC Flask Clamps

Constructed of one piece, molded PVC. Autoclavable. Will not scratch or mark flask like other clamps. Includes hardware for easy attachment to universal platforms. The attachment and removal of flasks is quick and easy. Ideal for polycarbonate flasks.

PVC Flask Clamps

2,8 L & 3 L Fernbach Flask Clamp	4 L Erlenmeyer Flask Clamp	5 L & 6 L Erlenmeyer Flask Clamp	500 ml Media Bottle Clamp	1 L Media Bottle Clamp	125 ml Erlenmeyer Flask Clamp	250 ml Erlenmeyer Flask Clamp	500 ml Erlenmeyer Flask Clamp	1 L Erlenmeyer Flask Clamp	2 L Erlenmeyer Flask Clamp
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	PVC	PVC	PVC	PVC	PVC
2,8L-30400092 3L-30400093	30400094	5 L-30400095 6 L-30400096	30400097	30400098	30400099	30400100	30400101	30400102	30400103
Number of Flask Clamps per Tray or Platform									
N/A	N/A	N/A	3	N/A	12	6	4	N/A	N/A
N/A	N/A	N/A	N/A	N/A	8	4	N/A	N/A	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
N/A	N/A	N/A	5	2	10	8	5	2	N/A
1	1	1	6	5	12	10	6	4	3
1	1	1	6	5	12	10	6	4	3
2	4	2	16	10	20	18	12	8	4
2	4	2	16	10	20	18	12	8	4
2	4	2	16	10	20	18	12	8	4
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	4	3	20	13	28	25	16	10	6
3	6	4	28	18	36	33	20	14	8
5	5	5	25	18	41	35	24	13	9
7	9	7	40	30	61	55	38	22	13

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

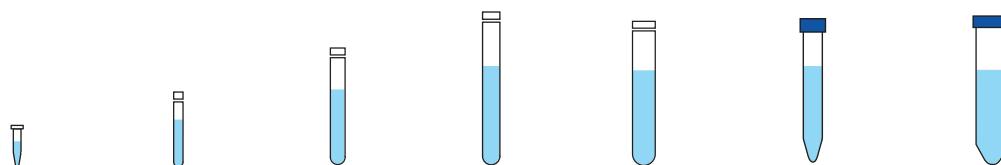## Test Tube Racks

Half Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.
Dimensions:
12,7 × 17,8 × 10,2 cm / Micro-Tube Rack: 4,3 cm H.

Test Tube Racks Half-Size, Stationary

Test Tube Style	1,5 to 2 ml Micro-Tube Rack Half Size, Stationary	10 to 13 mm Test Tube Rack Half Size, Stationary	14 to 16 mm Test Tube Rack Half Size, Stationary	18 to 20 mm Test Tube Rack Half Size, Stationary	22 to 25 mm Test Tube Rack Half Size, Stationary	15 ml Centrifuge Tube Rack Half Size, Stationary	50 ml Centrifuge Tube Rack Half Size, Stationary
Tube Capacity	70	63	48	35	24	35	12
Item Number	30400114	30400115	30400116	30400117	30400118	30400119	30400120
Tray or Platform	Number of Test Tube Racks per Tray or Platform						
29,9 × 22,2 cm							
Digital Open Air 4 kg Shakers	2	2	2	2	2	2	2
27,9 × 19,7 cm							
Incubating 4 kg Shakers	2	1	1	N/A	N/A	1	1
Digital Open Air 4 kg Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
Incubating Microplate Shakers	2	N/A	N/A	N/A	N/A	N/A	N/A
27,9 × 33 cm							
Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
33 cm × 33 cm							
Analog/Digital 16 kg Shakers	2	2	2	2	2	2	2
Digital Reciprocating Shakers	2	2	2	2	2	2	2
45,7 × 45,7 cm							
Analog/Digital 16 kg Shaker	4	4	4	4	4	4	4
Digital Reciprocating Shakers	4	4	4	4	4	4	4
Incub, Incub/Ref 23kg Shakers	4	4	4	4	4	4	4
45,7 × 61 cm							
Analog/Digital 16 kg Shakers	6	6	6	6	6	6	6
Digital Reciprocating Shakers	6	6	6	6	6	6	6
Analog/Digital 23 kg Shakers	6	6	6	6	6	6	6
45,7 × 76,2 cm							
Analog/Digital 23 kg Shakers	8	8	8	8	8	8	8
61 × 61 cm							
Digital 45 kg Shakers	8	8	8	8	8	8	8
61 × 91,4 cm							
Digital 63 kg Shakers	7	7	7	7	7	7	7

*All units require a universal platform for mounting flask clamps or test tube racks with the exception of the digital open air and incubating 4 kg shakers.

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

Test Tube Racks

Full Size, Stationary

Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.
Dimensions:
9,5 × 41,9 × 10,2 cm

Full Size, Pivoting

Has adjustable angle, custom tilt. Stainless steel holder includes removable plastic rack. Rack is easily removed to transport from work area to shaker.
Inside pivoting rack dimensions:
12,9 × 27,4 × 9,9 cm
Outside stationary rack dimensions:
12,7 × 27,6 × 12,7 cm

Test Tube Racks
Full-Size, Stationary

Test Tube Racks
Full-Size, Pivoting

10 to 14 mm Test Tube Rack	16 to 20 mm Test Tube Rack	21 to 25 mm Test Tube Rack	50 ml Centrifuge Tube Rack	13 mm Test Tube Rack	16 mm Test Tube Rack	20 mm Test Tube Rack	25 mm Tube Rack	30 mm Tube Rack
Full Size, Stationary	Full Size, Stationary	Full Size Stationary	Full Size, Stationary	Full Size, Pivoting	Full Size, Pivoting	Full Size, Pivoting	Full Size, Pivoting	Full Size, Pivoting
48	33	21	17	90	60	40	24	21
30400110	30400111	30400112	30400113	30400105	30400106	30400107	30400108	30400109
Number of Test Tube Racks per Tray or Platform								
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	1	1	1	1	1
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
5	5	5	5	3	3	3	3	3
6	6	6	6	4	4	4	4	4
7	7	7	7	4	4	4	4	4
5	5	5	5	6	6	6	6	6

MINI VORTEX MIXERS

Choose the Perfect Vortex Mixer From Four Durable Models for Everyday Mixing

VXMNDG

Application
Re-Suspending Liquids, Mixing Reagents, Buffers and Emulsions, ELISA Assay, Drug Extractions, Mixing Samples

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Operation
Detachable 3-wire cord and plug (included)

Construction
Cup head and 3-inch accessory platform for beakers, flasks, test tubes etc. (included with all models), stainless steel microtube holder for 12 tubes (pulsing models)

Design Features
Microprocessor-control to maintain set speed for consistent mixing action (digital models), 230V models have a maximum speed of 2500 rpm

Touch mode operation activates mixing when depressing the cup head or continuous mode for use with accessory attachments. Sturdy, rugged design ensures the unit stays in place while in use.

Robust digital and non-digital Vortex Mixers offer effective speed control from low RPM start-up for gentle shaking to high-speed mixing for vigorous vortexing of samples.

The Fixed Speed Vortex Mixer is an economical choice for vigorous mixing of samples at high speed. To ease repetitive sample processing, this unit provides simple, effective full-speed mixing.

Model	Description	Item N°
VXMNFS	Fixed Speed Vortex Mixer	30392110

Specifications	
Speed Range 230V	2800 rpm
Orbit	4,9 mm
Controls	None
Duty Rating	Intermittent duty
Dimensions (L × W × H)	21,1 × 12,2 × 16,5 cm
Ship Weight	4,5 kg

Model	Description	Item N°
VXMNDG	Digital Vortex Mixer	30392124

Specifications	
Speed Range* 230V	500 to 2800 rpm
Timer	1 second to 160 hours
Orbit	4,9 mm
Controls	Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control
Duty Rating	Intermittent duty
Dimensions (L × W × H)	21,1 × 12,2 × 16,5 cm
Ship Weight	4,5 kg

Model	Description	Item N°
VXMNAL	Analog Vortex Mixer	30392117

Specifications	
Speed Range* 230V	300 to 2800 rpm
Orbit	4,9 mm
Controls	Auto/Off/On Rocker Switch, Speed Knob: Variable 1 to 10 Dial Marks
Duty Rating	Intermittent duty
Dimensions (L × W × H)	21,1 × 12,2 × 16,5 cm
Ship Weight	4,5 kg

Model	Description	Item N°
VXMNPS	Pulsing Vortex Mixer	30392131

Specifications	
Speed Range* 230V	500 to 2800 rpm
Timer	1 second to 160 hours
Orbit	2,5 mm
Controls	Auto/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control Pulse Button
Duty Rating	Intermittent duty
Dimensions (L × W × H)	21,1 × 12,2 × 16,5 cm
Ship Weight	4,5 kg

Accessories included in price:

Description	Item N°
Cup Head	30400235
7,6 cm Head	30400236
7,6 cm Rubber Head Cover	30400237
Stainless Steel Tube Holder (only with 30392131)	30400206

* Maximum speed will vary depending on accessory used.

MINI VORTEX MIXER ACCESSORIES

Micro-Tube Holder
Mixes (48) 0,25 to 2 ml micro-tubes. Requires Insert Retainer.

Description	Item N°
Micro-Tube Holder (2 pack)	30400232
Insert Retainer	30400227

9 to 13 mm Tube Holder
Ideal for mixing 5 ml culture tubes and micro-vials. Requires Insert Retainer.

Description	Item N°
9 to 13 mm Tube Holder (2 pack)	30400229
Insert Retainer	30400227

14 to 19 mm Tube Holder
Ideal for mixing up to (8) 15 ml centrifuge tubes. Requires Insert Retainer.

Description	Item N°
14 to 19 mm Tube Holder (2 pack)	30400230
Insert Retainer	30400227

20 to 25 mm Tube Holder
Ideal for mixing up to (8) 50 ml centrifuge tubes. Requires Insert Retainer.

Description	Item N°
20 to 25 mm Tube Holder (2 pack)	30400231
Insert Retainer	30400227

Vessel Harness
Mixes Erlenmeyer flasks and media bottles. Requires Insert Retainer.

Description	Item N°
Vessel Harness (2 pack)	30400228
Insert Retainer	30400227

Cup Head
Designed for mixing 1 tube at a time. Inner diameter 2,54 cm, outer diameter 5,08 cm.

Description	Item N°
Cup Head	30400235

7,6 cm Rubber Head Cover and 7,6 cm Head

Designed for mixing irregular shaped objects.

Description	Item N°
7,6 cm Rubber Head Cover	30400237
7,6 cm Head	30400236
7,6 cm Head with Rubber Cover	30400196

Microplate Holder

Ideal for mixing 96-well plates or deep well blocks. Requires Insert Retainer.

Description	Item N°
Microplate Holder (2 pack)	30400233
Insert Retainer	30400227

Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications.
Requires Insert Retainer.

Description	Item N°
Flat Foam Insert (2 pack)	30400234
Insert Retainer	30400227

Microwell Kit with Retainer

Includes:
• 2 Microplate Holders
• 1 Insert Retainer

Description	Item N°
Microwell Kit with Retainer	30400199

Microtube Kit with /Retainer

Includes:
• 2 Micro-Tube Holders
• 1 Insert Retainer

Description	Item N°
Microtube Kit with /Retainer	30400200

Foam Insert Variety Pack

Includes:
• (1) 9 to 13 mm Tube Holder
• (1) 14 to 19 mm Tube Holder
• (1) 20 to 25 mm Tube Holder
• 1 Flat Foam Insert

Description	Item N°
Foam Insert Variety Pack	30400201

Micro-Tube and Microplate Holder Kit

Includes:
• 1 Micro-Tube Holder
• 1 Microplate Holder
• 1 Insert Retainer

Description	Item N°
Micro-Tube & Microplate Holder Kit	30400198

Tube Holder Kit

Includes:
• (1) 9 to 13 mm Tube Holder
• (1) 14 to 19 mm Tube Holder
• (1) 20 to 25 mm Tube Holder
• 1 Flat Foam Insert
• 2 Vessel Harnesses
• 1 Insert Retainer

Description	Item N°
Tube Holder Kit	30400197

Single Tube Holder

Single tube, hands free mixing. Easily attaches to the top of any Vortex Mixer with the use of a strong magnetic base. Accepts tubes from 6,4 to 11,4 cm in length.
Minimum tube diameter of 19 mm.

Description	Item N°
Single Tube Holder	30400202

Adapter for Vortex-Genie® Mixer*

Adapter plate easily adheres to the Vortex-Genie® Mixer housing so Single Tube Holder (sold separately) can be attached.

Description	Item N°
Adapter plate	30400203

* The Vortex-Genie® Mixer is a registered trademark of Scientific Industries, Inc.

SINGLE TUBE HOLDER ACCESSORIES

(Requires Single Tube Holder)

0,5 ml Micro-Tube Holder

Mixes (24) 0,5 ml micro-tubes.
For use with Single Tube Holder

Description	Item N°
Micro-Tube Holder (0,5 ml)	30400204

1,5 ml to 2,0 ml Micro-Tube Holder

Mixes (18) 1,5 to 2 ml micro-tubes.
For use with Single Tube Holder.

Description	Item N°
Microtube Holder (1,5 ml to 2,0 ml)	30400205

Ampule Tube Holder

Mixes up to 4 storage vials and test tubes.

Description	Item N°
15 to 17 mm Ampule Tube Holder	30400207
10 to 17 mm Ampule Tube Holder	30400208

Stainless Steel Microtube Holder

Mixes up to (12) 1,5 to 2 ml tubes.
Stainless steel construction.

Description	Item N°
Microtube Holder	30400206

OHAUS Vortex Mixer accessories are interchangeable with other manufacturers' models

HEAVY-DUTY VORTEX MIXERS

Increase Productivity with Continuous-Duty Vortexing of Multiple Samples

VXHDDG

Application
ELISA Assays, PCR Preparations, Digestions, Cell Disruptions

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Operation
Detachable 3-wire cord and plug (included)

Construction
Cycoloy, Touch/Standby/On rocker switch (both models)

Design Features
Universal holder, foam insert for (38) 1,5 to 2 ml microtubes, universal cover and cup head (included)

Safe to mix at high speeds - the unique locking design of the mixer accessories allows the mixer to safely operate throughout the entire speed range.

For the most demanding applications, these mixers utilize a high quality German-manufactured motor, allowing for continuous duty operation and increased load capacities up to 1,1 kg.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of difficult samples.

Model	Description	Item N°
VXHDDG	Digital Heavy Duty Vortex Mixer	30392136

Specifications	
Speed Range	
On Mode	300 to 2500 rpm
Touch Mode	300 to 3500 rpm
Timer	1 second to 160 hours
Orbit	4,9 mm
Controls	Touch/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control
Capacity	1,1 kg
Duty Rating	Continuous duty
Dimensions (L × W × H)	24,1 × 16,8 × 16 cm
Ship Weight	6,8 kg

Model	Description	Item N°
VXHDAL	Analog Heavy Duty Vortex Mixer	30392141

Specifications	
Speed Range	
On Mode	300 to 2500 rpm
Touch Mode	300 to 3500 rpm
Orbit	4,9 mm
Controls	Analog
Capacity	1,1 kg
Duty Rating	Continuous duty
Dimensions (L × W × H)	24,1 × 16,8 × 16 cm
Ship Weight	6,8 kg

Accessories included in price:

Description	Item N°
Cup Head	30400210
Universal Holder	30400226
Universal Holder Cover	30400225
Foam Insert (1,5 to 2,0 microtubes)	30400217

30400210	30400226	30400225	30400217

MICROPLATE VORTEX MIXERS

The Ideal Solution for Dependable Vortex Mixing of Microplates

Application
ELISA Assays, PCR Preparations, Digestions, Cell Disruptions

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models) and adjustment knob with dial markings for variable speed control (analog models)

Operation
Detachable 3-wire cord and plug (included)

Construction
Cycoloy

Design Features
Microplate adapter and cup head (included)

VXMPDG

Safe to mix at high speeds - the innovative locking design of the microplate accessories allows these mixers to safely operate throughout the entire speed range.

These mixers utilize a high quality German-manufactured motor allowing for reliable, continuous-duty operation at any speed.

Robust digital and non-digital models offer effective speed control from low rpm for gentle shaking to high-speed mixing for vigorous vortexing of samples.

Model	Description	Item N°
VXMPDG	Digital Microplate Vortex Mixer	30392150

Specifications	
Speed Range	
On Mode	300 to 2500 rpm
Touch Mode	300 to 3500 rpm
Timer	1 second to 160 hours
Orbit	3,5 mm
Controls	Touch/Standby/On Rocker Switch, LED Displays for Speed/Time, Up/Down Buttons for Set-Point Control
Capacity	2 microplates
Duty Rating	Continuous duty
Dimensions (L × W × H)	26,7 × 13,7 × 11,4 cm
Ship Weight	5,4 kg

Model	Description	Item N°
VXMPAL	Analog Microplate Vortex Mixer	30392155

Specifications	
Speed Range	
On Mode	300 to 2500 rpm
Touch Mode	300 to 3500 rpm
Orbit	3,5 mm
Controls	Analog
Capacity	2 microplates
Duty Rating	Continuous duty
Dimensions (L × W × H)	26,7 × 13,7 × 11,4 cm
Ship Weight	5,4 kg

Accessories included in price:

Description	Item N°
Cup Head	30400210
Microplate Holder (Single)	30400215

30400210   30400215

HEAVY-DUTY AND MICROPLATE MIXERS ACCESSORIES

Foam Insert for 0,5 ml Microtubes*
Foam insert holds (52) 0,5 ml microtubes. Requires Universal Holder.

Description	Item N°
0,5 ml microtubes	30400216
Universal Holder	30400226

30400216   30400216

Foam Insert for 1,5 to 2,0 ml Microtubes*
Foam insert holds (38) 1,5 to 2,0 ml microtubes. Requires Universal Holder.

Description	Item N°
1,5 to 2,0 ml microtubes	30400217
Universal Holder	30400226

30400217

Foam Insert for 12-13 mm Test Tubes*
Foam insert holds (34) 12-13 mm diameter test tubes. Requires Universal Holder.

Description	Item N°
12-13 mm test tubes	30400220
Universal Holder	30400226

30400220

Foam Insert for 15-18 mm Test Tubes*
Foam insert holds (20) 15-18 mm diameter test tubes. Ideal for 15 ml centrifuge tubes. Requires Universal Holder.

Description	Item N°
15-18 mm test tubes	30400221
Universal Holder	30400226

30400221

Foam Insert for 19-21 mm Test Tubes*
Foam insert holds (18) 19-21 mm diameter test tubes. Requires Universal Holder.

Description	Item N°
19-21 mm test tubes	30400222
Universal Holder	30400226

30400222

Foam Insert for 22-25 mm Test Tubes*
Foam insert holds (13) 22-25 mm diameter test tubes. Requires Universal Holder.

Description	Item N°
22-25 mm test tubes	30400223
Universal Holder	30400226

30400223

Foam Insert for 26-29 mm Test Tubes*
Foam Insert for 26-29 mm Test Tubes Foam insert holds (4) 26-29 mm diameter test tubes. Ideal for 50 ml centrifuge tubes. Requires Universal Holder.

Description	Item N°
26-29 mm test tubes	30400224
Universal Holder	30400226

30400224

Cup Head
Designed for mixing 1 tube at a time.

Description	Item N°
Cup Head	30400210

30400210

Small Vessel Holder*
Rubber holder secures 125 and 250 ml Erlenmeyer flasks. Vessel holder also includes a grip mat. Requires Universal Holder.

Description	Item N°
Small Vessel Holder	30400218
Universal Holder	30400226

30400218   30400226

Large Vessel Holder*
Rubber holder secures 500 and 1000 ml Erlenmeyer flasks. Vessel holder also includes a grip mat. Requires Universal Holder.

Description	Item N°
Large Vessel Holder	30400211
Universal Holder	30400226

30400211   30400226

Microplate Holder (Single)

Designed to hold one standard microplate.

Description	Item N°
Single Holder	30400215

30400215

Microplate Holder (Double)

Designed to hold two standard microplates.

Description	Item N°
Double Holder	30400213

30400213

Microplate Holder (Quad)*

Designed to hold four standard microplates.

Description	Item N°
Quad Holder	30400214

30400214

Stackable Microplate Holder Four*

Designed to maximize the capacity of the Heavy-Duty Vortex Mixer to eight microplates by stacking the tray on top of the four plate holder.

Description	Item N°
Stackable Holder**	30400212

** requires 30400214 Quad Holder

30400212

Flat Foam Insert*

Ideal for custom applications. Can be cut or drilled to fit your specifications.
Requires Universal Holder.

Description	Item N°
Flat Foam Insert	30400209
Universal Holder	30400226

30400209   30400226

Universal Holder & Cover*

Replacement for items supplied with Heavy-Duty Vortex Mixer. Cover allows for mixing irregularly shaped objects.

Description	Item N°
Universal Holder	30400226
Universal Holder Cover	30400225

30400226   30400225

*for use on Heavy Duty only

MULTI-TUBE VORTEX MIXERS

VXMTDG

Powerful Hands-Free Vortex Mixer for Efficient High-Throughput Mixing

Application
Suspensions, Genotyping, High Throughput DNA and RNA Testing in Clinical Labs

Display
Independent LED displays for speed/time allow the operator to view both settings simultaneously (digital models)

Operation
Detachable 3-wire cord and plug (included)

Construction
Foam rack for (50) 12 mm diameter tubes (included), interchangeable foam racks for vortexing tubes from 10 - 29 mm in diameter

Easily process up to 50 samples at one time - the Multi-Tube Vortex Mixer can be customized for your application with six different tube racks and a post- extension kit.

The Multi-Tube Vortex Mixers feature either an easy to clean one-piece stainless steel housing that is perfect for clean rooms or a painted steel version for a more economical option.

For challenging samples, enhance vortex action & create a more vigorous mix with the programmable pulse mode on the digital models. Adjust the pulse-on/pulse-off time interval to customize operation.

Model	Description	Item N°
VXMTAL	Analog Multi-Tube Vortexer	30392166
VXMTALB*	Analog Multi-Tube Vortexer (painted steel housing)	30573832

*NEW

Specifications	
Speed Range*	1200 to 2400 rpm
Timer	0 to 60 seconds
Orbit	3,6 mm
Maximum Weight Capacity	4,5 kg
Duty Rating	Continuous duty
Tray Dimensions (L × W)	18,4 × 31,1 cm
Overall Dimensions (L × W × H)	24,1 × 38,4 × 40,6 cm
Ship Weight	19,1 kg

Model	Description	Item N°
VXMTDG	Digital Multi-Tube Vortexer	30392173
VXMTDGB*	Digital Multi-Tube Vortexer (painted steel housing)	30573837

*NEW

Specifications	
Speed Range*	500 to 2500 rpm
Speed Accuracy	± 25 rpm
Timer	1 second to 160 hours
Orbit	3,6 mm
Maximum Weight Capacity	4,5 kg
Duty Rating	Continuous duty
Tray Dimensions (L × W)	18,4 × 31,1 cm
Overall Dimensions (L × W × H)	24,1 × 38,4 × 40,6 cm
Ship Weight	19,1 kg

Accessories included in price:

Description	Item N°
Foam rack for (50) 12 mm diameter tubes	30400239

MULTI-TUBE VORTEXER ACCESSORIES

Foam Test Tube Racks

Description	Tube Capacity	Colour	Dimensions (L × W × H)	Item N°
10 mm Test Tube Foam Rack	50	Gray	14 × 24,1 × 5,1 cm	30400238
12 mm Test Tube Foam Rack	50	Blue	14 × 24,1 × 5,1 cm	30400239
13 mm Test Tube Foam Rack	50	Yellow	14 × 24,1 × 5,1 cm	30400240
16 mm Test Tube Foam Rack (for 15 ml centrifuge tubes)	50	Green	14 × 24,1 × 5,1 cm	30400241
25 mm Test Tube Foam Rack	28	White	14 × 24,1 × 5,1 cm	30400243
29 mm Test Tube Foam Rack (for 50 ml centrifuge tubes)	15	Red	14 × 24,1 × 5,1 cm	30400242
Replacement Tray Pad Set (upper & lower)	N/A	Gray	17,8 × 30,5 × 2,5 cm	30400245

Post Extension Kit

Adds 15,2 cm to the post of the Multi-Tube Vortex Mixer to accommodate tubes up to 25,4 cm tall.

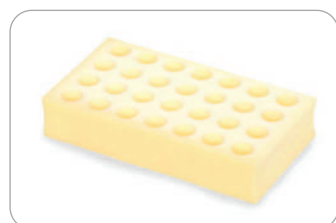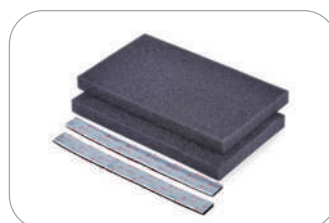| Description	Item N°
Post Extension Kit	30400244

30400238

30400239

30400240

30400241

30400243

30400242

30400245

30400244

1 BLOCK DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application

HB1DG

Application
Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display
LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation
Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction
Painted steel housing, support rod holder with locking knob

Design Features
Touchpad control and audible alarm (digital models)

Designed for reliable everyday use in the lab. Digital and non-digital Block Heaters offer exceptional temperature uniformity with outstanding temperature stability.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L × W × H)	Item N°
HB1DG	1 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	N/A	≤ 16 minutes	31,5 × 20,3 × 8,9 cm	30392061
HB1AL	1 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 1,5°C	N/A	≤ 16 minutes	31,5 × 20,3 × 8,9 cm	30392047

* Conditions permitting

2 BLOCK DRY BLOCK HEATERS

Versatile Block Heaters Designed for Everyday Use with Accessories for Every Application

HB2DG

Application
Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display
LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation
Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction
Painted steel housing, support rod holder with locking knob

Design Features
Touchpad control and audible alarm (digital models)

Three models to customize your application. All models offer exceptional temperature uniformity with outstanding temperature stability.

Avoid contamination to ensure repeatable, reliable results. The Heatblock with Heated Lid features a second heater in the lid to minimize condensation to maintain your sample integrity.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L × W × H)	Item N°
HB2DG	2 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	± 0,1°C	≤ 16 minutes	39,1 × 20,3 × 8,9 cm	30392082
HB2DGHL	2 block	Digital	Ambient +5°C to 100°C	230 volt units: ± 0,1°C	230 volt units: ± 0,2°C	± 0,1°C	≤ 30 minutes	39,1 × 20,3 × 17,8 cm	30392103
HB2AL	2 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 2,0°C	± 0,1°C	≤ 16 minutes	39,1 × 20,3 × 8,9 cm	30392054

* Conditions permitting

4 BLOCK DRY BLOCK HEATERS

Versatile and Dependable Block Heaters Deliver Precise, Reliable Results

HB4DG

Application
Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display
LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation
Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction
Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Design Features
Touchpad control and audible alarm (digital models)

Designed for flexibility with your applications. The four-block capacity allows you to process multiple samples simultaneously with one device.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L × W × H)	Item N°
HB4DG	4 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	± 0,2°C	≤ 23 minutes	42,9 × 20,3 × 8,9 cm	30392089
HB4AL	4 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 2,5°C	± 0,2°C	≤ 23 minutes	42,9 × 20,3 × 8,9 cm	30392068

* Conditions permitting

6 BLOCK DRY BLOCK HEATERS

Process More Samples with Large Capacity Block Heaters that Deliver Precise, Reliable Results

HB6DG

Application
Incubation & Activation of Cultures, Enzyme Reactions, Immunoassays, Melting/Boiling Points, Isothermal Incubations, Nucleic Acid Denaturation

Display
LED display (digital models) and dual-adjustment knobs with dial markings (analog models)

Operation
Detachable 3-wire cord and plug (included), analog models require an external thermometer or temperature device for temperature setpoint

Construction
Painted steel housing, support rod holder with locking knob

Design Features
Touchpad control and audible alarm (digital models)

Unique design for high throughput applications. The six-block capacity allows you the most flexibility to process multiple samples simultaneously with one device.

Ensure temperature accuracy. Digital models include a unique single point calibration feature to match the block heater's display to a known external temperature standard for 3 temperature setpoints.

Digital models feature easy to use touchpad controls with independent displays for temperature and time. Robust non-digital models are controlled with dual temperature adjustment knobs.

Model	Size	Control	Temperature Range	Uniformity Within the Block @ 37°C	Temperature Stability @ 37°C	Uniformity Across Similar Blocks @ 37°C	Heat-Up Time to 100°C*	Dimensions (L × W × H)	Item N°
HB6DG	6 block	Digital	Ambient +5°C to 120°C	230 volt units: ± 0,2°C	230 volt units: ± 0,2°C	± 0,3°C	≤ 30 minutes	53,1 × 20,3 × 8,9 cm	30392096
HB6AL	6 block	Analog	Low Range: Ambient +5°C to 100°C High Range: 75°C to 150°C	230 volt units: ± 0,2°C	230 volt units: ± 2,5°C	± 0,3°C	≤ 30 minutes	53,1 × 20,3 × 8,9 cm	30392075

* Conditions permitting

MODULAR BLOCKS*
& ACCESSORIES

Modular blocks are constructed from a solid anodized aluminium block*. The close contact of tubes-to-block walls allow for maximum heat retention. Each block has a thermometer well for measuring block temperature.

Caution! To avoid possible electrical hazard, do not fill well or block with water or other fluids. Units are designed as a dry bath/incubator.

Single block dimensions (L × W × H): 9,5 × 7,6 × 5,1 cm

Double block dimensions (L × W × H): 15,2 × 9,5 × 5,7 cm

| 30400157 | 30400159 | 30400162 |

Microcentrifuge Tube Blocks
Single block

Brand/Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
0,5 ml Tube	30	7,9 mm	27,6 mm	30400157
1,5 ml Tube	20	11,1 mm	39,1 mm	30400159
1,5 ml Eppendorf™ Tube	20	11,5 mm	36,9 mm	30400162
2 ml Eppendorf™ Tube	20	11,5 mm	38,1 mm	30400191
2 ml Corning™ Tube	20	10,9 mm	38,1 mm	30400192

30400164

Titer Plate Block
Double block
Fits 2/4/6 block Dry Block Heaters. Ideal for 96-well or 384-well titer plates.
Recessed well for better stability, flat surface good for flat and round bottom plates.

Sample Type	Well Depth	Item N°
Titer Plate	13,5 mm	30400164

| 30400172 | 30400168 |

Conical-Bottom Centrifuge Tube Blocks

Single/Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
15 ml Tube	12	17,1 mm	44,5 mm	30400172
50 ml Tube	5	29,0 mm	47,6 mm	30400168

| 30400158 | 30400151 | 30400152 |

Standard Test Tube Blocks

Single/Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
6 mm Tube	30	8,3 mm	48,4 mm	30400158
10 mm Tube	24	10,7 mm	48,4 mm	30400151
12/13 mm Tube	20	13,9 mm	48,4 mm	30400152
12/13 mm Tube	16	13,9 mm	48,4 mm	30400165
15/16 mm Tube	12	17,5 mm	48,4 mm	30400153
17/18 mm Tube	12	19,1 mm	48,4 mm	30400195
20 mm Tube	8	21,0 mm	48,4 mm	30400154
25 mm Tube	6	26,2 mm	48,4 mm	30400155
35 mm Tube	4	35,0 mm	47,6 mm	30400167

* Block colour subject to change.

Combination Blocks

Single block

These blocks have been designed for variable sized samples.

30400156   30400193   30400194

Sample Type		No. of Wells	Well Dia.	Well Depth	Item N°
Test Tube Combination	6 mm	6	8,3 mm	48,4 mm	
	12/13 mm	5	13,8 mm	48,4 mm	30400156
	25 mm	3	26,2 mm	48,4 mm	
Centrifuge Tube Combination	1,5 ml	4	11,1 mm	39,1 mm	
	15 ml	3	17,1 mm	44,5 mm	30400193
	50 ml	2	29,0 mm	47,6 mm	
Micro-Tube Combination	0,5 ml	6	7,9 mm	27,6 mm	
	1,5 ml	10	11,1 mm	39,1 mm	30400194
	2 ml	5	11,5 mm	38,1 mm	

Vial Blocks

Single block

Designed for sample/serum and scintillation vials.

30400182   30400183   30400190

Sample Type	No. of Wells	Well Dia.	Well Depth	Item N°
12 mm Vial	20	12,7 mm	30 mm	30400182
15 mm Vial	20	15,8 mm	35 mm	30400183
16 mm Vial	15	16,4 mm	45 mm	30400190
17 mm Vial	12	17,8 mm	45 mm	30400184
19 mm Vial	12	19,7 mm	45 mm	30400185
21 mm Vial	9	21,7 mm	45 mm	30400186
23 mm Vial	8	23,8 mm	45 mm	30400187
25 mm Vial	8	25,8 mm	45 mm	30400188
28 mm Vial	6	28,8 mm	45 mm	30400189

PCR—Plate, Tube, Strip Blocks

Single and double block

Tapered tube wells for 0,2 ml tubes. Spaced for easy access and removal.

30400171   30400169   30400170

Sample Type	Block Size	No. of Wells	Well Dia.	Well Depth	Item N°
96-well PCR Plate	Double	96	6,4 mm	15,5 mm	30400171
10 × 8 Tube Strips	Single	80	6,4 mm	15,5 mm	30400169
Individual Tubes	Single	64	6,4 mm	20,2 mm	30400170

Cuvette Block

Single block

Two parallel slots fit 6 cuvettes in each slot, side-by-side

30400161

Sample Type	No. of Wells	Well Depth	Item N°
(12) 12,5 mm Cuvettes	2	25,4 mm	30400161

Solid Blocks

Single and double block

For use as a low-temperature hotplate, slide drying, or for custom drilling to make a custom block.

30400160   30400166

Block Size	Dimensions (L × W × H)	Item N°
Single	9,5 × 7,6 × 5,1 cm	30400160
Double	15,2 × 9,5 × 5,7 cm	30400166

Stainless Steel Sand Baths

Ideal for irregular vessels. Stainless steel construction for superior corrosion resistance. Designed to hold sand, stainless steel shot or non-volatile fluids.

For Unit	Dimensions (L × W × H)	Item N°
1 Block Dry Block Heater	9,5 × 7,6 × 6,4 cm	30400173
2 Block Dry Block Heater	9,5 × 14,9 × 6,4 cm	30400174
4 Block Dry Block Heater	14,7 × 19,1 × 6,4 cm	30400175
6 Block Dry Block Heater	14,7 × 28,7 × 6,4 cm	30400176

Accessories		Item N°
Sand, 0,45 kg		30400177
Stainless Steel Shot, 0,45 kg		30400178

Low Temperature Covers

Plexiglass cover reduces air flow for additional temperature stability in low-temperature applications. Two sides are open 6,4 mm.

Block Size	Dimensions (L × W × H)	Item N°
2 Block Cover	16,5 × 16,5 × 4,1 cm	30400179
4 Block Cover	21,6 × 21,6 × 4,1 cm	30400180
6 Block Cover	31,8 × 21,6 × 4,1 cm	30400181

External Temperature Probe Kit

Enables the unit to read actual block or sample temperature and display that temperature on the control panel. The optional External Temperature Probe Kit includes a stainless steel RTD PT100 probe, 45,7 cm stainless steel support rod, thermometer/temperature probe extension clamp and hook connector. The PT100 RTD probe is designed to fit perfectly in to the thermometer well of each modular block.

Description	Item N°
Optional External Temperature Probe Kit	30400246

GUARDIAN 7000

*Dependable Hotplate Stirrers with Superior Safety Features
and Intelligent Performance*

e-G71HS10C

Application
Temperature Sensitive Chemistry & Biology, Heat Fixation, Solution pH Optimization, Solution Sterilization, Endothermic Reactions, Denaturing of Organic Material, Sample & Solution Preparation

Display
Backlit LCD Display for temperature, speed and time, green indicator lights when unit is heating and stirring, two prominent hot top indicator lights

Operation
Timer, Stirring from 60 to 1600 rpm, Temperature range of ambient +5°C to 500°C (ceramic top) or 380°C (aluminium top), power cord (included), 20.3 cm stainless steel RTD temperature probe, 3.8 cm PTFE coated stir bar, in-use cover

Construction
Probe connection, SmartHousing™ stays cool to the touch and is chemical resistant, IP21 Ingress Protection, hardened glass front panel, control knobs, On/Off switch for heater disconnect, built-in support rod holder, easy to clean ceramic or aluminium tops

Communication
USB port provides flexibility for programming of repeat applications and enhancing safety with SmartLink™ technology; the long range user detection function operated with the Ohaus Bluetooth dongle accessory (sold separately)

Design Features
Hot top indicator lights, audible alarm, SmartHeat™ temperature limiting function, SafetyHeat™ shuts off heater in the event of malfunction, temperature calibration feature for 5 probe & 5 plate setpoints, temperature priority function, SmartRate™ functions

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Protect your lab with SmartPresence™ and SmartLink™ technologies. These exclusive features automatically shut off the heater if no one is detected after a user set "time out" period has passed.

Safely control maximum temperature! The SmartHeat™ feature allows you to set the maximum temperature of the hotplate stirrer preventing overheating of sensitive samples keeping the user & sample safe.

Safeguard operators! The SmartHousing™ remains cool to the touch at all temperature settings. The large hot top light can be seen across the lab and illuminates when the heater is above 40°C.

Model	Description	Item N°
e-G71HS07C	Guardian 7000 Hotplate-stirrer 17,8x17,8 cm Ceramic	30500603

Specifications	
Temperature Range	Ambient + 5°C – 500°C
Speed Range	60 to 1600 rpm
Timer	1 minute – 99 hours, 59 minutes
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 x 17,8 cm
Temperature Probe	Pt1000 (30500590 included in price)
Temperature Calibration	Temperature Calibration 5 Plate/5 Probe

Model	Description	Item N°
e-G71HSRDM	Guardian 7000 Hotplate-stirrer Round 13,5 cm Aluminum	30500623

Specifications	
Temperature Range	Ambient + 5°C – 380°C
Speed Range	60 to 1600 rpm
Timer	1 minute – 99 hours, 59 minutes
Capacity	20 L
Top Plate Material	Aluminium
Top Plate Dimensions	round 13,5 cm
Temperature Probe	Pt1000 (30500590 included in price)
Temperature Calibration	Temperature Calibration 5 Plate/5 Probe

Model	Description	Item N°
e-G71HS10C	Guardian 7000 Hotplate-stirrer 25,4x25,4 cm Ceramic	30500613

Specifications	
Temperature Range	Ambient + 5°C – 500°C
Speed Range	60 to 1600 rpm
Timer	1 minute – 99 hours, 59 minutes
Capacity	18 L
Top Plate Material	Ceramic
Top Plate Dimensions	25,4 x 25,4 cm
Temperature Probe	Pt1000 (30500590 included in price)
Temperature Calibration	Temperature Calibration 5 Plate/5 Probe

Accessories

Material description	e-G71HS07C	e-G71HS10C	e-G71HSRDM	Item N°
Base Plate, 135 mm			•	30500570
Handles, for Base Plate			•	30500571
Sectional Block, 12 mm Vials			•	30500572
Sectional Block, 15 mm vials			•	30500573
Sectional Block, 17 mm Vials			•	30500574
Sectional Block, 21 mm Vials			•	30500575
Sectional Block, 28 mm Vials			•	30500576
Sectional Block, 12 mm Test Tubes			•	30500577
Sectional Block, 16 mm Test Tubes			•	30500578
Sectional Block, 20 mm Test Tubes			•	30500579
Sectional Block, 25 mm Test Tubes			•	30500580
Uni Block, 12 mm Vials			•	30500581
Uni Block, 15 mm vials			•	30500582
Uni Block, 17 mm Vials			•	30500583
Uni Block, 21 mm Vials			•	30500584
Uni Block, 28 mm Vials			•	30500585
Uni Block, 12 mm Test Tubes			•	30500586
Uni Block, 16 mm Test Tubes			•	30500587
Uni Block, 20 mm Test Tubes			•	30500588
Uni Block, 25 mm Test Tubes			•	30500589
Temperature Probe 20 cm S/S	•	•	•	30500590
Temperature Probe 20 cm PTFE	•	•	•	30500591
Temperature Probe 25 cm S/S	•	•	•	30500592
Temperature Probe 25 cm PTFE	•	•	•	30500593
In Use Cover Guardian 7x7	•			30500594
In Use Cover Guardian 10x10		•		30500595
In Use Cover Guardian Round			•	30500596
Vessel Clamp	•	•	•	30500597
Stir Bar Retriever	•	•	•	30500598
Clamp, Specialty, Nester, CLS-NESTXS	•	•	•	30392318
Clamp, Specialty, Column, CLS-COLMNSL	•	•	•	30392316
Clamp, Specialty, Column, CLS-COLMNSM	•	•	•	30392315
Clamp, Specialty, Column, CLS-COLMNSS	•	•	•	30392314
Clamp, Specialty, Column, CLS-COLMNSX	•	•	•	30392317
Ultra Flex Support Kit	•	•	•	30400145
Support Rod And Clamp Kit	•	•	•	30400146
Spinbar 2.5 cm PTFE	•	•	•	30400147
Spinbar 3.8 cm PTFE	•	•	•	30400148
Spinbar 7 cm PTFE	•	•	•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•	•	•	30400150
Wireless Dongle MTICWD-200*	•	•	•	30412537

*Wireless Dongle accessory required to enable SmartLink™ feature.

GUARDIAN 5000

Reliable Hotplate Stirrers with Exceptional Safety Features for Everyday Use

Application

Water/Oil Bath Preparation, Sample and Solution Preparation, Dissolving Buffers and Reagents, Preparing Media, Concentrating Samples, Boiling Water

Display

Backlit LCD Display for temperature and speed, green indicator lights when unit is heating and stirring, prominent hot top indicator light, probe in use icon, Single Point Calibration icon

Operation

Stirring from 60 to 1600 rpm, Temperature range of ambient +5°C to 500°C (ceramic top) or 380°C (aluminium top), power cord (included), stirring models include a 3.8 cm PTFE coated stir bar

Construction

Probe connection, SmartHousing™ stays cool to the touch and is chemical resistant, IP21 Ingress Protection, polycarbonate front panel, control knobs, On/Off switch for heater disconnect, built-in support rod holder, easy to clean ceramic or aluminium tops

Design Features

Hot top indicator light, audible alarm, SafetyHeat™ protection shuts off the heater in the event of a malfunction, temperature calibration feature for 3 probe and 3 plate setpoints

Safeguard operators! The SmartHousing™ remains cool to the touch at all temperature settings. The large hot top light can be seen across the lab and illuminates when the heater is above 40°C.

All sizes feature the exclusive SafetyHeat™; an industry leading internal protection system that assures safety in heating applications with dual monitoring of system health to protect the lab.

The unique SmartHousing™ stays cool to the touch and is chemical resistant. The easy to clean innovative design channels spills away from internal components and the chemical resistant control panel.

Model	Description	Item N°
e-G51HS07C	Guardian 5000 Hotplate-stirrer 17,8×17,8 cm Ceramic	30500523

Specifications	
Temperature Range	Ambient + 5°C – 500°C
Speed Range	60 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 × 17,8 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 3 Plate/3 Probe

Model	Description	Item N°
e-G51ST07C	Guardian 5000 Stirrer 17,8×17,8 cm Ceramic	30500543

Specifications	
Speed Range	60 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 × 17,8 cm
Temperature Probe	Available as an Accessory

Model	Description	Item N°
e-G51HSRDM	Guardian 5000 Hotplate-stirrer Round 13,5 cm Aluminum	30500563

Specifications	
Temperature Range	Ambient + 5°C – 380°C
Speed Range	60 to 1600 rpm
Capacity	20 L
Top Plate Material	Aluminium
Top Plate Dimensions	round 13,5 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 3 Plate/3 Probe

Model	Description	Item N°
e-G51HP07C	Guardian 5000 Hotplate 17,8×17,8 cm Ceramic	30500533

Specifications	
Temperature Range	Ambient + 5℃ – 500℃
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 × 17,8 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 3 Plate/3 Probe

Model	Description	Item N°
e-G51HS10C	Guardian 5000 Hotplate-stirrer 25,4×25,4 cm Ceramic	30500553

Specifications	
Temperature Range	Ambient + 5℃ – 500℃
Speed Range	60 to 1600 rpm
Capacity	18 L
Top Plate Material	Ceramic
Top Plate Dimensions	25,4 × 25,4 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 3 Plate/3 Probe

Accessories

Material description	e-G51ST07C	e-G51HP07C	e-G51HS07C	e-G51HS10C	e-G51HSRDM	Item N°
Base Plate, 135 mm					•	30500570
Handles, for Base Plate					•	30500571
Sectional Block, 12 mm Vials					•	30500572
Sectional Block, 15 mm vials					•	30500573
Sectional Block, 17 mm Vials					•	30500574
Sectional Block, 21 mm Vials					•	30500575
Sectional Block, 28 mm Vials					•	30500576
Sectional Block, 12 mm Test Tubes					•	30500577
Sectional Block, 16 mm Test Tubes					•	30500578
Sectional Block, 20 mm Test Tubes					•	30500579
Sectional Block, 25 mm Test Tubes					•	30500580
Uni Block, 12 mm Vials					•	30500581
Uni Block, 15 mm vials					•	30500582
Uni Block, 17 mm Vials					•	30500583
Uni Block, 21 mm Vials					•	30500584
Uni Block, 28 mm Vials					•	30500585
Uni Block, 12 mm Test Tubes					•	30500586
Uni Block, 16 mm Test Tubes					•	30500587
Uni Block, 20 mm Test Tubes					•	30500588
Uni Block, 25 mm Test Tubes					•	30500589
Temperature Probe 20 cm S/S		•	•	•	•	30500590
Temperature Probe 20 cm PTFE		•	•	•	•	30500591
Temperature Probe 25 cm S/S		•	•	•	•	30500592
Temperature Probe 25 cm PTFE		•	•	•	•	30500593
In Use Cover Guardian 7x7	•	•	•			30500594
In Use Cover Guardian 10x10				•		30500595
In Use Cover Guardian Round					•	30500596
Vessel Clamp	•	•	•	•	•	30500597
Stir Bar Retriever	•		•	•	•	30500598
Clamp, Specialty, Nester, CLS-NESTXS	•	•	•	•	•	30392318
Clamp, Specialty, Column, CLS-COLMNSL	•	•	•	•	•	30392316
Clamp, Specialty, Column, CLS-COLMNSM	•	•	•	•	•	30392315
Clamp, Specialty, Column, CLS-COLMNSS	•	•	•	•	•	30392314
Clamp, Specialty, Column, CLS-COLMNSX	•	•	•	•	•	30392317
Ultra Flex Support Kit	•	•	•	•	•	30400145
Support Rod And Clamp Kit	•	•	•	•	•	30400146
Spinbar 2.5 cm PTFE	•		•	•	•	30400147
Spinbar 3.8 cm PTFE	•		•	•	•	30400148
Spinbar 7 cm PTFE	•		•	•	•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•		•	•	•	30400150

GUARDIAN 3000

Affordable Digital Hotplate Stirrers Designed for Safety, Powerful Stirring and Fast Heating

Application
Boiling Liquids, Water/Oil Bath Preparation, Sample and Solution Preparation,Dissolving Buffers and Reagents, Preparing Media, Concentrating Samples

Display
Backlit LCD Display for temperature and speed, green indicator lights when unit is heating and stirring, prominent hot top indicator light, probe in use icon, Single Point Calibration icon

Operation
Stirring from 80 to 1600 rpm, temperature range of ambient +5℃ to 500℃ (ceramic top) or 380℃ (ceramic coated stainless steel top), power cord (included), stirring models include one PTFE coated stir bar

Construction
Durable metal housing, PET front panel, control knobs, ON/OFF switch for heater disconnect, built-in support rod holder, easy to clean ceramic or ceramic coated stainless steel tops

Design Features
Hot top indicator light to protect user, green indicator lights illuminate when unit is heating and stirring, temperature probe connector for use with optional temperature probe

Industry leading safety at affordable prices. Guardian 3000 units offer safety, controlled heating and powerful stirring for general laboratory use - all at a competitive price point.

SafetyHeat™ protects the lab. An industry-leading early detection system uses two independent safety controls to monitor the electronics and stop heating before an overtemperature condition occurs.

Designed to last - the rugged metal housing has a spill-resistant design for long life in the lab under harsh conditions. The smooth, chemical-resistant ceramic top makes for easy clean ups.

Model	Description	Item N°
e-G31HS04C	Guardian 3000 Hotplate-stirrer 10,2×10,2 cm Ceramic	30680280

Specifications	
Temperature Range	Ambient + 5℃ – 500℃
Speed Range	80 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	10,2 × 10,2 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 1 Plate/1 Probe

Model	Description	Item N°
e-G31HS07C	Guardian 3000 Hotplate-stirrer 17,8×17,8 cm Ceramic	30680279

Specifications	
Temperature Range	Ambient + 5℃ – 500℃
Speed Range	80 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 × 17,8 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 1 Plate/1 Probe

Model	Description	Item N°
e-G31HSRDS	Guardian 3000 Hotplate-stirrer Round 13,5 cm Ceramic Coated Stainless Steel	30680278

Specifications

Temperature Range	Ambient + 5°C – 380°C
Speed Range	80 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic Coated Stainless Steel
Top Plate Dimensions	round 13,5 cm
Temperature Probe	Available as an Accessory
Temperature Calibration	Temperature Calibration 1 Plate/1 Probe

Accessories

Material description	e-G31HS04C	e-G31HS07C	e-G31HSRDS	Item N°
Base Plate 135 mm			•	30500570
Handles for Base Plate			•	30500571
Sectional Block 12 mm Vials			•	30500572
Sectional Block 15 mm vials			•	30500573
Sectional Block 17 mm Vials			•	30500574
Sectional Block 21 mm Vials			•	30500575
Sectional Block 28 mm Vials			•	30500576
Sectional Block 12 mm Test Tubes			•	30500577
Sectional Block 16 mm Test Tubes			•	30500578
Sectional Block 20 mm Test Tubes			•	30500579
Sectional Block 25 mm Test Tubes			•	30500580
Uni Block 12 mm Vials			•	30500581
Uni Block 15 mm vials			•	30500582
Uni Block 17 mm Vials			•	30500583
Uni Block 21 mm Vials			•	30500584
Uni Block 28 mm Vials			•	30500585
Uni Block 12 mm Test Tubes			•	30500586
Uni Block 16 mm Test Tubes			•	30500587
Uni Block 20 mm Test Tubes			•	30500588
Uni Block 25 mm Test Tubes			•	30500589
Clamp, Specialty, Rod, CLS-RODS**			•	30392233
Temperature Probe 20 cm S/S	•	•	•	30500590
Temperature Probe 20 cm PTFE	•	•	•	30500591
Temperature Probe 25 cm S/S	•	•	•	30500592
Temperature Probe 25 cm PTFE	•	•	•	30500593
Vessel Clamp	•	•	•	30500597
Stir Bar Retriever	•	•	•	30500598
Clamp, Specialty, Column, CLS-COLMNSS	•	•	•	30392314
Clamp, Specialty, Column, CLS-COLMNSM	•	•	•	30392315
Clamp, Specialty, Column, CLS-COLMNSL	•	•	•	30392316
Clamp, Specialty, Column, CLS-COLMNSX	•	•	•	30392317
Clamp, Specialty, Nester, CLS-NESTXS	•	•	•	30392318
Spinbar 2.5 cm PTFE	•	•	•	30400147
Spinbar 3.8 cm PTFE	•	•	•	30400148
Spinbar 7 cm PTFE	•	•	•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•	•	•	30400150
Spinbar 3.8 cm with Pivot Ring PTFE*	•	•	•	30726783
Holder Kit Thermometer e-G31	•	•	•	30692826

* pack of 5 spinbars
** 30392233 is for use with the 30500570 Base Plate only

GUARDIAN 2000

Rugged and Reliable Analog Hotplates and Stirrers for General Purpose Heating and Stirring

Application
Boiling Liquids, Basic Sample and Solution Preparation, Dissolving Buffers and Reagents, Preparing Media, Concentrating Samples

Display
Prominent hot top indicator light, green indicator lights when unit is heating and stirring

Operation
Simple knob control, stirring up to 1600 rpm, temperature up to 500°C (ceramic top) or 380°C (ceramic coated stainless steel top), power cord (included), stirring models include PTFE coated stir bar

Construction
Durable metal housing, PET front panel, control knobs, ON/OFF switch for heater disconnect, built in support rod holder, easy to clean resin, ceramic or ceramic coated stainless steel tops

Design Features
Hot top indicator light to protect user, green indicator lights illuminate when unit is heating and stirring

Powerful stirring and fast heating at an economical price. Safely heat up to 500°C and stir up to 15L with easy to use knob control for simple and reliable everyday heating and stirring in the lab.

Designed to last - the rugged metal housing has a spill resistant design for long life in the lab under harsh conditions. The smooth, chemical-resistant ceramic top plate is perfect for easy clean up.

Safety is of utmost importance - the prominent hot top indicator light illuminates when the heater is above 40°C, keeping the end user safe during all heating applications.

Model	Description	Item N°
e-G21HS04C	Guardian 2000 Hotplate-stirrer 10,2x10,2 cm Ceramic	30680271

Specifications	
Temperature Range	70°C – 500°C
Speed Range	200 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	10,2 × 10,2 cm

Model	Description	Item N°
e-G21ST04R	Guardian 2000 Stirrer 10,2x10,2 cm Resin	30680277

Specifications	
Speed Range	200 to 1600 rpm
Capacity	15 L
Top Plate Material	Resin
Top Plate Dimensions	10,2 × 10,2 cm

Model	Description	Item N°
e-G21HP04C	Guardian 2000 Hotplate 10,2x10,2 cm Ceramic	30680274

Specifications	
Temperature Range	70°C – 500°C
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	10,2 × 10,2 cm

Model	Description	Item N°
e-G21HS07C	Guardian 2000 Hotplate-stirrer 17,8x17,8 cm Ceramic	30680270

Specifications	
Temperature Range	70°C – 500°C
Speed Range	200 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 x 17,8 cm

Model	Description	Item N°
e-G21ST07R	Guardian 2000 Stirrer 17,8x17,8 cm Resin	30680276

Specifications	
Speed Range	200 to 1600 rpm
Capacity	15 L
Top Plate Material	Resin
Top Plate Dimensions	17,8 x 17,8 cm

Model	Description	Item N°
e-G21HP07C	Guardian 2000 Hotplate 17,8x17,8 cm Ceramic	30680273

Specifications	
Temperature Range	70°C – 500°C
Capacity	15 L
Top Plate Material	Ceramic
Top Plate Dimensions	17,8 x 17,8 cm

Model	Description	Item N°
e-G21HSRDS	Guardian 2000 Hotplate-stirrer Round 13,5 cm Ceramic Coated Stainless Steel	30680269

Specifications	
Temperature Range	50°C – 380°C
Speed Range	200 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic Coated Stainless Steel
Top Plate Dimensions	13,5 cm diameter

Model	Description	Item N°
e-G21STRDS	Guardian 2000 Stirrer Round 13,5 cm Ceramic Coated Stainless Steel	30680275

Specifications	
Speed Range	200 to 1600 rpm
Capacity	15 L
Top Plate Material	Ceramic Coated Stainless Steel
Top Plate Dimensions	13,5 cm diameter

Model	Description	Item N°
e-G21HPRDS	Guardian 2000 Hotplate Round 13,5 cm Ceramic Coated Stainless Steel	30680272

Specifications	
Temperature Range	50°C – 380°C
Capacity	15 L
Top Plate Material	Ceramic Coated Stainless Steel
Top Plate Dimensions	13,5 cm diameter

Accessories

Material description	e-G21ST04R	e-G21HP04C	e-G21HS04C	e-G21ST07R	e-G21HP07C	e-G21HS07C	e-G21STRDS	e-G21HPRDS	e-G21HSRDS	Item N°
Vessel Clamp	•	•	•	•	•	•	•	•	•	30500597
Stir Bar Retriever	•		•	•		•	•		•	30500598
Spinbar 2.5 cm PTFE	•		•	•		•	•		•	30400147
Spinbar 3.8 cm PTFE	•		•	•		•	•		•	30400148
Spinbar 7 cm PTFE	•		•	•		•	•		•	30400149
Spinbar 10 cm with Pivot Ring PTFE	•		•	•		•	•		•	30400150
Holder Kit Thermometer e-G31		•	•		•	•		•	•	30692826
Spinbar with a Pivot 3.8 cm PTFE *	•		•	•		•	•		•	30726783

* pack of 5 spinbars

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ACHIEVER 5000

Reliable Overhead Stirrers with Excellent Performance for Everyday Use

Application
Stirring, dissolving, dispersion, emulsification and homogenization in the food and beverage, cosmetic, paint/coatings, pharmaceutical, chemical, glue/adhesive, plastics/polymer and cement/construction industries. Used for pilot scale in manufacturing.

Display
Bright LED digital display for speed, real time torque tendency LED indicator bar, and integrated timer

Operation
Stirring from 6 rpm to 2000 rpm with speed accuracy of 1 rpm and maximum torque from 20 Ncm to 200 Ncm depending on model, stable torque at any speed, and volume capacity ranging from 25l to 100l

Construction
Sealed aluminum housing with IP54 ingress protection rating, Keyless Chuck for simple, one-hand operation, brushless motor for quiet operation, and main power switch

Design Features
Compact design for easy handling, simple knob control, lock button to prevent unintentional setting changes, full protection for overload, overtemperature and overcurrent conditions

Powerful mixing and constant speed is assured with the brushless motor and torque compensation technology - delivering accurate, controlled stirring of viscous liquids with quiet operation.

Simplify set up with the Keyless Chuck - no tools required. Change shafts quickly and easily with one handed operation. This unique design will save time and effort for everyone in the lab.

Designed for safety. The lock button prevents accidental speed changes and the motor's overload sensing technology simply shuts off stirring before an overload condition occurs to protect the sample.

Model	Stirring Speed Range	Stirring Volume (H$_2$O)	Maximum Viscosity (cP or mPa's)	Maximum Torque (Ncm)	Item N°
e-A51ST020	30-2000 rpm	up to 25 l	10 000	20	30586763
e-A51ST040	30-2000 rpm	up to 25 l	25 000	40	30586764
e-A51ST060	30-2000 rpm	up to 40 l	50 000	60	30586765
e-A51ST100	30-1300 rpm	up to 100 l	70 000	100	30586766
e-A51ST200	6-400 rpm (I), 30-2000 rpm (II)	up to 100 l	100 000	200	30586767

| Accessories	Item N°
Support Stand Universal-H	30586771
Support Stand Telescopic-H	30586772
Clamp Double	30586773
Clamp Ribbon	30586774
Stirrer Shaft 40x0,7 cm, Anchor Blade	30586775
Stirrer Shaft 40x0,7 cm, Fixed Blade	30586776
Stirrer Shaft 40x0,7 cm, Floating Blade	30586777
Stirrer Shaft 40x0,7cm, Folding Blade	30586778
Stirrer Shaft 51x0,7cm, Paddle 6 Holes	30586779
Stirrer Shaft 40x0.7 cm, Propeller	30586780
Stirrer Shaft 45x0.7 cm, Turbine	30586781
Stirrer Shaft 45x0.7 cm, Turbo Propeller	30586782
Chuck Cover e-A51	30586842

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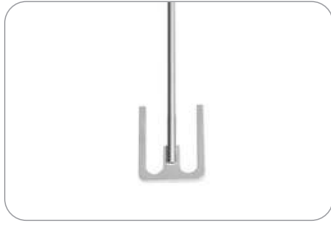
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Bead mill homogenizers

Provides Simple and Powerful Solutions for Rapid High Throughput Grinding

Application
DNA, RNA and Protein Analysis (from mammalian tissue, plant, soil, seed, fungi, bacteria, virus and other cells), Cell Lysing, PCR, Gene Expression

Display
Easy-to-read LED display allows the operator to view speed and time settings

Operation
Five pre-set program buttons and touchpad controls for speed and time

Construction
Polyurethane Elastomer top housing, Cycoloy bottom housing, and Lexan lid

Design Features
Microprocessor-controlled unit includes sample clamp and hex key

For high performance grinding, the HT Lysing Homogenizer is one of the most flexible models on the market. The built-in adjustable holder allows for easy processing of samples – no accessories needed.

This versatile Homogenizer allows high throughput grinding, and is ideal for processing multiple tubes, microplates, deep-well plates, or any sample container that fits in the 10,2x12,7x6,4 cm holder.

Take the guesswork out of sample preparation. Five preset programs optimized for speed and time to process the most common samples, including bacteria, fungi, plant, and animal tissue easily.

Model	Type	Speed Range	Motion	Timer	Maxamim Capacity	Dimensions (L × W × H)	Item N°
HOHTDG	HT (High Throughput) Lysing	300 to 1600 rpm (1 rpm increments)	Reciprocal, vertical, 31 mm	1 second to 10 minutes (1 second increments)	300 g	44,6 × 28,6 × 51,8 cm	30391396

Accessories

Material description	Item N°
Lysing skirted tube for bacteria, 2 ml, white cap, DNase/RNase free, 100 µm Zirconium Beads, 100/box	30391402
Lysing skirted tube for yeast, 2 ml, yellow cap, DNase/RNase free, 400 µm Zirconium Beads, 100/box	30391404
Lysing skirted tube for fungi, 2 ml, blue cap, DNase/RNase free, 800 µm Zirconium Beads, 100/box	30391405
Lysing skirted tube for soft sample, 2 ml, orange cap, DNase/RNase free, 1,4 mm Zirconium Beads, 100/box	30391406
Lysing skirted tube for plant, 2 ml, green cap, DNase/RNase free, 3 mm Zirconium Beads, 100/box	30391408
Lysing skirted tube for animal tissue, 2 ml, red cap, DNase/RNase free, 3 mm Stainless Steel Grinding Balls, 100/box	30391409
Lysing skirted tube for environmental sample, 2 ml, brown cap, DNase/RNase free, 100 µm/800 µm/3 mm Zirconium Beads, 100/box	30391410
Tube Rack, 25 × 2 ml Tubes, 2 per pack	30391431
Sample Tube Kit, 14 Tubes; 2 each of White, Yellow, Blue, Orange, Green, Red, and Brown	30391433

30391402
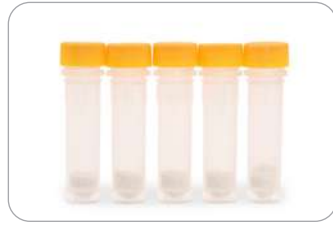
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FRONTIER 5000 SERIES
MULTI PRO

Powerful and Versatile Universal Centrifuges for Virtually Every Lab Application

Application
Centrifugal Separation, General Sample Preparation, Cell Pelleting, Protein Separation, Nucleic Acid Separation, Cell Concentrating, Chemical Separation, Diagnostics, Environmental Sample Preparation, Blood Sample Processing

Display
Backlit Liquid Crystal Display (LCD)

Operation
AC Power (included)

Construction
Corrosion-resistant stainless steel chamber with Polycarbonate/ABS plastic lid

Design Features
Ten acceleration & deceleration rates, selection of running time from 10s to 99h 59min or continuous, quick spin, CFC-free refrigeration system, sample temp. indication (refrigerated models), lid-locking system, over-speed protection, dual imbalance sensing

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer

FA – Conical bottom/Falcon

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt

Our multi-purpose centrifuges offer a high-speed centrifugation platform which can be customized to fit workflow needs using a wide variety of rotors and accessories.	The intuitive design of the centrifuges & accessories enable easy access to parameter settings, and quick rotation between applications.	The performance of these centrifuges is propelled by German engineering, and high-quality components for reliable use.

Model	Material Description	Item N°
FC5916	Multi Pro Centrifuge FC5916, max RPM 16000, max RCF 24325 x g	30553036
FC5916R	Multi Pro Centrifuge FC5916R, max RPM 16000, max RCF 26331 x g, refrigerated	30553101
FC5816	Multi Pro Centrifuge FC5816, max RPM 15000, max RCF 21379 x g	30314816
FC5816R	Multi Pro Centrifuge FC5816R, max RPM 16000, max RCF 24325 x g, refrigerated	30314818
FC5718	Multi Pro Centrifuge FC5718, max RPM 18000, max RCF 23542 x g	30314812
FC5718R	Multi Pro Centrifuge FC5718R, max RPM 18000, max RCF 23542 x g, refrigerated	30314814
FC5714	Multi Pro Centrifuge FC5714, max RPM 14000, max RCF 18624 x g	30314810

Accessories

Material description	Item N°
Rotor, Swing Out, 4x750ml, ID, Sealable (FC5916 and FC5916R only)	**30553085**
Bucket, MTP, 2/pk, V1	30553104
Bucket, MTP, 2/pk, V2	30553119
Bucket, 1x750ml D99mm FB, 2/pk, V1	30602502
Rack, 1x500ml D96mm FA, 2/pk	30553124
Rack, 1x250ml D62mm FB, 2/pk, V1	30553125
Rack, 1x175/225ml D61mm FA, 2/pk	30553126
Rack, 3x100ml D41mm RB, 2/pk	30553127
Rack, 5x50ml D29mm FA, 2/pk	30553128
Rack, 5x50ml D29mm FAw/R, 2/pk	30553129
Rack, 7x50ml D29mm FA, 2/pk	30553130
Rack, 7x50ml D29mm RB, 2/pk	30553131
Rack, 8x30ml D26mm RB, 2/pk	30553132
Rack, 14x15ml D17mm FA, 2/pk	30553133
Rack, 17x15ml D17mm FA, 2/pk	30553134
Rack, 18x15ml D17mm RB, 2/pk	30553135
Rack, 21x10ml D16mm RB, 2/pk	30553136
Rack, 32x7ml D13mm RB, 2/pk	30553138
Rack, 27x1.8/7ml D13mm Vac/Sar, 2/pk	30553139
Rack, 18x4/10ml D16mm Vac/Sar, 2/pk	30553140
Rack, 38x1.1/1.4ml D8mm Sar, 2/pk	30559377
Holder, Removing aid for Bucket 30553104, SS, 2/pk	30553105
Lid Assembly for bucket 30553104 PC, 2/pk	30553117
O-Ring for bucket 30553104 SIL, 2/pk	30553118
Lid Assembly for bucket 30602502 PC, 2/pk	30553122
O-Ring for bucket 30602502 NBR, 10/pk	30553123
Rotor, Angle, 4x500ml, ID (FC5916 and FC5916R only)	**30553086**
Adapter, 1x250ml D60.5mm FA, 2/pk	30559416
Adapter, 1x175/225 ml D61.5mm FA, 2/pk	30559417
Adapter, 1x50ml D29.5mm FA, 2/pk	30559419
Adapter, 3x50ml D29mm RB, 2/pk	30559420
Adapter, 4x30ml D25.5mm RB, 2/pk	30559421
Adapter, 6x15ml D17mm FA, 2/pk	30559422
Adapter, 1x250ml D61.5mm FB, 2/pk	30564850
Rotor, Swing out, 4x250ml, ID (FC5816 and FC5816R only)	**30314820**
Rack, 8x4-10ml D16mm Vac, 2/pk	30304367
Adapter, 9x1.5/2.0ml D11mm, 2/pk	30304368
Screw Cap, Rack of 250ml Rotor, 2/pk	30314901
O-ring, Rack of 250ml Rotor, 10/pk	30314902
Rack, 1x250ml D62mm FB, 2/pk	30314903
Rack, 1x100ml D41mm RB, 2/pk	30314904
Rack, 3x50ml D29mm RB, 2/pk	30314905
Rack, 3x50ml D29mm FA, 2/pk	30314906
Rack, 1x50ml D34mm RB, 2/pk, v3	30314907
Rack, 2x50ml D29mm Rim, 2/pk	30314908
Rack, 1x50ml D29mm Rim, 2/pk, v3	30314909
Rack, 5x25ml D24.5mm RB, 2/pk	30314910
Rack, 3x25ml D24.5mm Rim, 2/pk	30314911
Rack, 9x15ml D17mm RB, 2/pk	30314912
Rack, 7x15ml D17mm FA, 2/pk	30314913
Rack, 7x15ml D17mm Rim, 2/pk	30314914
Rack, 8x10ml D16mm RB, 2/pk	30314915
Rack, 14x5-7ml D13mm RB, 2/pk	30314916
Rack, 10x1.6-7ml D13mm Vac, 2/pk	30314917
Rotor, Swing out, 16x50ml, ID (FC5816 and FC5816R only)	**30314828**
Rack, 4x50ml D29mm FA, 2/pk	30304375
Rack, 10x15ml D17mm FA, 2/pk	30314583
Rack, 14x5-7ml D13mm Vac/Sar, 2/pk	30314584
Rack, 12x4-10ml D16mm Vac/Sar, 2/pk	30314585
Rotor, Swing out, 4x100ml, ID (FC5714, FC5718, and FC5718R only)	**30314822**
Rack, 1x100ml D46mm RB, 2/pk	30314842
Rack, 1x85ml D38mm RB, 2/pk	30314843
Rack, 1x50ml D34mm RB, 2/pk	30314844
Rack, 1x50ml D29mm RB, 2/pk	30314845
Rack, 1x50ml D29mm FA, 2/pk	30314846
Rack, 1x50ml D29mm Rim, 2/pk	30314847
Rack, 1x30ml D25mm Rim, 2/pk	30314848
Rack, 1x25ml D25mm RB, 2/pk	30314849
Rack, 2x15ml D17mm FA, 2/pk	30314850
Rack, 1x15ml D17mm Rim, 2/pk	30314851
Rack, 7x15ml D17mm RB, 2/pk	30314852

Material description	Item N°
Rack, 9x5-7ml D13mm RB, 2/pk	30314853
Rack, 10x1.5ml D11mm, 2/pk	30314854
Rack, 9x4.5ml D12mm FB, 2/pk	30314855
Rack, 7x5-7ml D13mm RB, 2/pk	30314856
Rack, 7x5-7ml D13mm Vac, 2/pk	30314857
Rack, 5x4-10ml D16mm Sar, 2/pk	30314858
Rotor, Swing out, 4x100ml, ID, Sealable (FC5714, FC5718, and FC5718R only)	**30314823**
Bucket, 100ml w/o Cap, 2/pk	30314860
Bucket, 100ml w/ Cap, Sealable, 2/pk	30314861
Screw Cap, 100ml Bucket, Sealable, 2/pk	30314862
O-ring, 100ml Bucket, Sealable, 10/pk	30314863
Rack, 1x100ml D40mm RB, 2/pk	30314864
Rack, 1x85ml D38mm RB, 2/pk, v2	30314865
Rack, 1x50ml D34mm RB, 2/pk, v2	30314866
Rack, 1x50ml D29mm RB, 2/pk, v2	30314867
Rack, 1x50ml D29mm FA, 2/pk, v	30314868
Rack, 1x50ml D29mm Rim, 2/pk, v2	30314869
Rack, 1x30ml D25mm Rim, 2/pk, v2	30314870
Rack, 1x25ml D25mm RB, 2/pk, v2	30314871
Rack, 1x15ml D17mm FA, 2/pk	30314872
Rack, 2x15ml D17mm FA, 2/pk, v2	30314873
Rack, 2x15ml D17mm Rim, 2/pk	30314874
Rack, 4x15ml D17mm RB, 2/pk	30314875
Rack, 7x5-7ml D13mm RB, 2/pk, v2	30314876
Rack, 5x1.5ml D11mm, 2/pk	30314877
Rack, 3x10ml D17mm Sar, 2/pk	30314878
Rack, 4x5-7ml D13mm RB, 2/pk	30314879
Rack, 4x10ml D17mm Vac, 2/pk	30314880
Bucket, 2x50ml D29mm FA, w/ Rack, 2/pk	30314881
Bucket, 3x15ml D17mm FA, w/ Rack, 2/pk	30314882
Rotor, Swing out, 2x3MTP, w/ bucket, ID	**30314824**
Bucket, 3xMTP, 2/pk	30314890
Adapter, 48x1.5/2.0ml D11mm, 2/pk	30314891
Rotor, Angle, 6x250ml FB, ID (FC5816, FC5816R, FC5916 and FC5916R only)	**30314821**
Adapter, 15x1.5/2.0ml D11mm MTB, 2/pk	30559412
Adapter, 1x175/225ml D61mm FA, 2/pk	30559414
Adapter, 8x1.5ml D11mm, 2/pk	30304369
Adapter, 5x10ml D16mm RB, 2/pk	30304370
Adapter, 4x15ml D17mm FA, 2/pk	30304371
Adapter, 2x30ml D26mm RB, 2/pk	30304372
Adapter, 1x50ml D29mm RB, 2/pk	30304373
Adapter, 1x50ml D30mm FA, 2/pk	30304374
Rotor, Angle, 6x85ml RB, ID (FC5718, FC5718R, FC5816, FC5816R, FC5916 and FC5916R only)	**30314826**
Adapter, 1x15ml D17mm RB, 2/pk	30314893
Adapter, 1x30ml D25mm RB, 2/pk	30314894
Adapter, 1x50ml D29mm RB, 2/pk, v2	30314895
Adapter, 1x50ml D29mm FA, 2/pk	30314896
Adapter, 1x15ml D17mm FA, 2/pk	30314897
Adapter, 2x15ml D17mm RB, 2/pk	30314898
Adapter, 1x16ml D18mm RB, 2/pk	30314899
Rotor, Angle, 10x50ml FA, ID (FC5718, FC5718R, FC5816, FC5816R, FC5916 and FC5916R only)	**30314829**
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Adapter, 1x7ml D13.5mm RB, 2/pk	30130889
Adapter, 1x5ml D13.5mm, 2/pk	30130890
Adapter, 1x15ml D17mm RB, 2/pk, V2	30472300
Adapter, 1x15ml D17mm FA, 2/pk, V2	30472307
Rotor, Angle, 4x85ml RB, ID, Hi(FC5718, FC5718R, FC5816, FC5816R, FC5916 and FC5916R only)	**30314827**
Adapter, 1x15ml D17mm RB, 2/pk	30314893
Adapter, 1x30ml D25mm RB, 2/pk	30314894
Adapter, 1x50ml D29mm RB, 2/pk, v2	30314895
Adapter, 1x50ml D29mm FA, 2/pk	30314896
Adapter, 1x15ml D17mm FA, 2/pk	30314897
Adapter, 2x15ml D17mm RB, 2/pk	30314898
Adapter, 1x16ml D18mm RB, 2/pk	30314899
Rotor, Angle, 6x50ml RB, ID, Hi (FC5718, FC5718R, FC5816, FC5816R, FC5916 and FC5916R only)	**30314831**
Adapter, 1x30ml D26mm, 2/pk	30130891
Adapter, 1x16ml D18mm, 2/pk	30130892
Adapter, 1x15ml D17mm, 2/pk	30130893
Adapter, 1x15ml D17,5mm FA, 2/pk	30314892
Rotor, Angle, 20x10ml RB, ID, Hi (FC5718, FC5718R, FC5816, FC5816R, FC5916 and FC5916R only)	**30314833**
Rotor, Angle, 44x1.5/2.0ml, ID V2 (FC5718, FC5718R, FC5816, FC5816R, FC5916 and FC5916R only)	**30372718**

Material description	Item N°
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 30x1.5/2.0ml, ID, Sealable (FC5714, FC5718, FC5718R, FC5916 and FC5916R only)	**30314836**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 30x15ml RB/FA, ID (FC5714, FC5718, FC5718R, FC5816 and FC5816R only)	**30314832**
Adapter, 1x9-10ml D16mm Vac/Sar, 2/pk	30211180
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Adapter, 1x7ml D13.5mm RB, 2/pk	30130889
Adapter, 1x5ml D13.5mm, 2/pk	30130890
Rotor, Angle, 24x1.5/2.0ml, ID, BIOSEALS	**30642361**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 6x85ml RB, ID, Hi (FC5718 and FC5718R only)	**30314825**
Adapter, 1x15ml D17mm RB, 2/pk	30314893
Adapter, 1x30ml D25mm RB, 2/pk	30314894
Adapter, 1x50ml D29mm RB, 2/pk, v2	30314895
Adapter, 1x50ml D29mm FA, 2/pk	30314896
Adapter, 1x15ml D17mm FA, 2/pk	30314897
Adapter, 2x15ml D17mm RB, 2/pk	30314898
Adapter, 1x16ml D18mm RB, 2/pk	30314899
Rotor, Angle, 6x50ml RB/FA, ID (FC5714, FC5718, and FC5718R only)	**30314830**
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Adapter, 1x7ml D13,5mm RB, 2/pk	30130889
Adapter, 1x5ml D13,5mm, 2/pk	30130890
Adapter, 1x30ml D26mm, 2/pk	30130891
Adapter, 1x16ml D18mm, 2/pk	30130892
Adapter, 1x15ml D17mm, 2/pk	30130893
Adapter, 1x15ml D17mm RB/FA, 2/pk, v2	30130894
Rotor, Angle, 12x15ml RB/FA, ID (FC5714, FC5718, and FC5718R only)	**30314834**
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Adapter, 1x7ml D13.5mm RB, 2/pk	30130889
Adapter, 1x5ml D13.5mm, 2/pk	30130890
Rotor, Angle, 12x1.5/2.0ml, ID (FC5718 and FC5718R only)	**30314839**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Adapter, 1x1.5ml for over16000xg, 6/pk	30314900
Rotor, Angle, 4x8-w PCR Strip, ID (FC5718, FC5718R, FC5916 and FC5916R only)	**30314841**
Vaseline for Rotors	30314586

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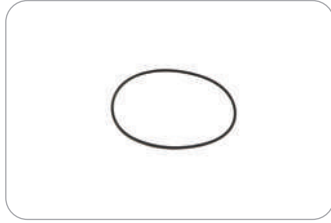

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FRONTIER 5000 SERIES MICRO

Dependable Benchtop Micro Centrifuges Ideal for High-Speed Lab Applications

Application
Centrifugation

Display
LCD backlight, two lines

Operation
AC Power (included)

Construction
Brushless quiet motor, small footprint

Design Features
High sample throughput, multi-safety control, personal program fountion

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer

FA – Conical bottom/Falcon

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt

Frontier Micro centrifuges offer a 1,5/2ml microtube rotor with a biocontainment option. Additional rotor options support 5ml microtubes, spin columns, PCR stripes, and hematocrit capillary tubes.	Designed for ease of operation, Frontier Micro centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.	Enclosing all their functionalities within a small footprint, Frontier Micro centrifuges save valuable space on the lab bench.

Model	Material Description	Item N°
FC5515	Micro Centrifuge FC5515, max RPM 15200, max RCF 21953 x g	30130866
FC5515R	Micro Centrifuge FC5515R, max RPM 15200, max RCF 21953 × g, refrigerated	30130868
FC5513	Micro Centrifuge FC5513, max RPM 13500, max RCF 17317 x g	30393187
FC5513-K	Kit Micro Centrifuge FC5513, max RPM 13500, max RCF 17317 x g, w/angle rotor 24x1.5/2.0ml	30370691

Accessories

Material description	Item N°
Rotor, Angle, 24x1.5/2.0ml, BIOSEALS, V2 (only FC5515 and FC5515R)	**30642371**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 30x1.5/2.0ml, Sealable (only FC5515 and FC5515R)	**30130872**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 44x1.5/2.0ml V2 (only FC5515 and FC5515R)	**30372717**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 12x5ml, Sealable (only FC5515 and FC5515R)	**30130873**
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Adapter, 1x1ml D12.6mm Cryo, 6/pk	30130887
Adapter, 1x1.8ml D12.6mm Cryo, 6/pk	30130888
Rotor, Angle, 4x8-Place PCR Stripes (only FC5515 and FC5515R)	**30130874**
Rotor, Hematocrit, 24xCapillaries (only FC5515)	**30130881**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 24x1.5/2.0 ml, BIOSEALS, V2 (only FC5513 and FC5513-K)	**30472302**
Adapter, 1x0.2/0.4ml D6mm, 6/pk	30130884
Adapter, 1x0.5ml D8mm, 6/pk	30130885
Rotor, Angle, 24 × 2.0 ml Spin Column	**30210898**
Rotor, Hematocrit, 24xCapillaries, V2 (only FC5513 and FC5513-K)	**30472304**
Vaseline for Rotors	30314586

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FRONTIER 5000 SERIES MULTI

Reliable and Compact Multi-Function Centrifuge For Standard Life Science Separation Applications

Application
Centrifugation

Display
LCD backlight, two lines

Operation
AC Power (included)

Construction
Brushless quiet motor, small footprint

Design Features
Easy installation design

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer

FA – Conical bottom/Falcon

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt

Designed for ease of operation, Frontier™ Multi Centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves.

Frontier™ Multi Centrifuges can accommodate standard 50ml and 15ml tubes, including common blood tubes. When used with accessories, rotors can be adapted for sizes as small as 1.5ml.

Enclosing all its functionalities within a small footprint, Frontier™ Multi Centrifuges save valuable space on the lab bench.

Model	Material Description	Item N°
FC5706	Multi Centrifuge FC5706, max RPM 6000, max RCF 4427 x g	30130875
FC5706-K	Kit Multi Centrifuge FC5706, max RPM 6000, max RCF 4427 x g, w/ angle rotor 12x15ml	30332131
FC5707-K	Kit Multi Centrifuge FC5707, max RPM 6800, max RCF 4445 x g, w/angle rotor 8x15ml	30393189

Accessories

Material Description	Item N°
Rotor, Swing Out, 6x5ml RB (only FC5706 and FC5706-K)	**30130880**
Buckets for swing out rotor, 2/pk	30130895
Rotor, Angle,12x15ml RB/FA (only FC5706 and FC5706-K)	**30130877**
Adapter, 1x9-10ml D16mm Vac/Sar, 2/pk	30211180
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Adapter, 1x7ml D13.5mm, 2/pk	30130889
Adapter, 1x5ml D13.5mm, 2/pk	30130890
Rotor, Angle, 6x50ml RB/FA (only FC5706 and FC5706-K)	**30130878**
Adapter, 1x30ml D26mm, 2/pk	30130891
Adapter, 1x16ml D18mm, 2/pk	30130892
Adapter, 1x15ml D17mm RB/FA, 2/pk	30130894
Adapter, 1x15ml D17mm RB, 2/pk	30130893
Rotor, Angle, 8x15ml RB or 4x15ml FA (only FC5707-K)	**30472305**
Adapter, 1x7ml D13.5mm RB, 2/pk	30130889
Adapter, 1x5ml D13.5mm RB, 2/pk	30130890
Adapter, 1x1.5/2.0ml D11mm, 6/pk	30130886
Vaseline for Rotors	30314586

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Frontier 5000 Series Mini

Powerful and Convenient Mini Centrifuge for Simple and Quick Life Science Separation Applications!

Application
Centrifugation

Operation
AC adapter (included)

Construction
Brushless quiet motor, auto shut-off safety switches

Design Features
One-touch operation

Shortcut list:

ID – auto rotor identification

Hi – version with higher speed

Vac – Vacutainer

FA – Conical bottom/Falcon

FB – Flat bottom

RB – Round bottom

Rim – Skirted conical bottom

Sar – Sarstedt

With a low voltage power input, quiet brushless motor and a rubber base that absorbs vibrations, Frontier 5306 minimizes operational noise and reduces disruptions in the laboratory.

Frontier 5306 is designed with operator safety in mind, and includes a rotor imbalance sensor and two safety switches which immediately stop the rotors should the lid open during use.

Frontier 5306 takes simple one-step operation to a new level. Simply place your sample in the centrifuge, close the lid, and it will begin to rotate without the press of a button.

Model	Material Description	Item N°
FC5306	Mini Centrifuge FC5306 with two rotors and two adapters included, max RPM 6000, max RCF 2000 x g	30134156

Accessories

Material Description	Item N°
Rotor, Angle, 0.2ml PCR 8x4	**30129560**
Rotor, Angle, 8x1.5/2.0ml	**30129559**
Adapter, 1x0.2ml D6mm, 8/pk	30129561
Adapter, 1x0.5ml D8mm, 8/pk	30129562

30129560   30129559   30129561   30129559
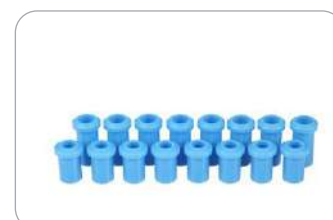
MULTI-PURPOSE CLAMPS

A LabJaws Clamp for Every Application - Choose From Over 85 Options to Hold Everything In Your Lab
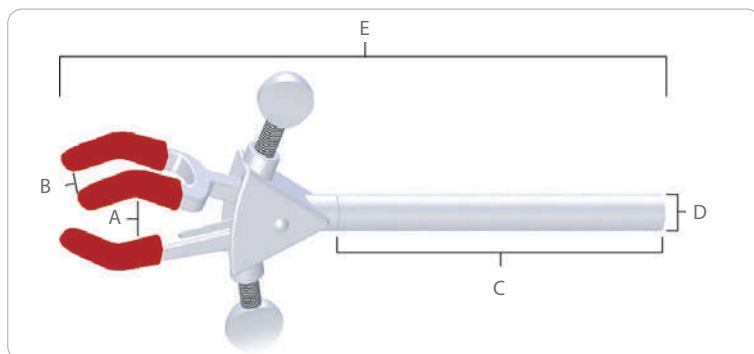
Single Adjust Clamps

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Dual Adjust Clamps

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Corrosion-resistant stainless steel clamps provide excellent chemical resistance, durability, and can be autoclaved. Nickel-plated zinc clamps offer high-tensile strength at an economical price.

Prevent accidents in the lab - versatile multi-purpose LabJaws clamps securely hold glassware and irregularly-shaped objects. Select from a variety of grip sizes, prong styles, and adjustment types.

Choose from a variety of specialized LabJaws clamps with adjustable features to provide an exact fit for labware such as thermometers, thermocouples, columns, funnels, and round bottom flasks.

Ground Glass Joint Reference Chart

Clamp	Joint Size
Small Dual Adjust	10/30, 12/30, 14/20, 19/22, 24/40, 29/42, 34/45
Medium Dual Adjust	14/40, 19/38
Large Dual Adjust	45/50

3-Prong Single Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-ULTRA3SZS	Small	0 to 23 mm	6 mm	102 mm	8 mm	162 mm	30392254
CLM-ULTRA3SZM	Medium	0 to 50 mm	19 mm	127 mm	11 mm	229 mm	30392252
CLM-ULTRA3SZL	Large	0 to 72 mm	29 mm	127 mm	11 mm	260 mm	30392250

3-Prong Dual Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-ULTRA3DZS	Small	0 to 32 mm	6 mm	102 mm	8 mm	152 mm	30392253
CLM-ULTRA3DZM	Medium	0 to 70 mm	19 mm	127 mm	11 mm	222 mm	30392251
CLM-ULTRA3DZL	Large	0 to 103 mm	29 mm	127 mm	11 mm	260 mm	30392249

MULTI-PURPOSE CLAMPS

Multi-Purpose Clamps

• **Stainless steel, electro-polished finish**
• **Large dual adjustment range**
• **Available in three sizes; small, medium, and large**

These durable, multi-purpose clamps are made entirely of stainless steel with an electro-polished finish and offer excellent chemical resistance and overall strength. The versatile 3-prong design secures various lab apparatus such as jointed glassware, columns, flasks, and tubes. Dual prong adjustments offer a wide range of motion. Long stainless steel extension arm offers easy positioning and depth adjustment. Autoclavable. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

See the Connectors & Holders section of this catalog, pages 89-91.
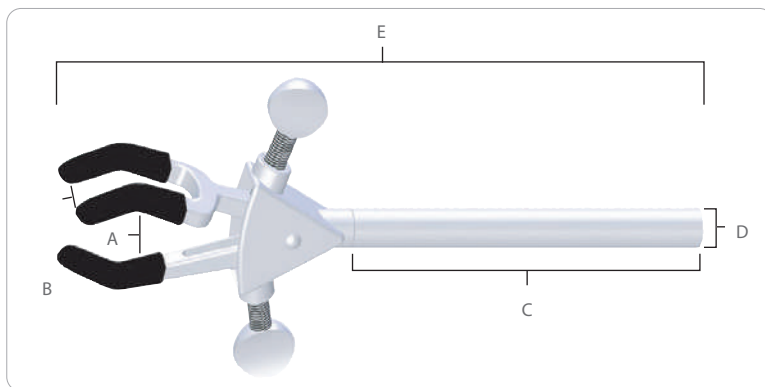
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3-Prong Stainless Steel Dual Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI3DSS	Small	0 to 48 mm	13 mm	102 mm	10 mm	172 mm	30392354
CLM-MULTI3DSM	Medium	0 to 69 mm	19 mm	127 mm	13 mm	229 mm	30392353
CLM-MULTI3DSL	Large	0 to 102 mm	29 mm	127 mm	13 mm	273 mmm	30392352

MULTI-PURPOSE CLAMPS

3-Prong Multi-Purpose Clamps
- **Large grip adjustment range**
- **3-prong construction**
- **Single or dual adjust**
- **Nickel-plated zinc**

Designed to securely hold every type of laboratory glassware and apparatus. Long, seamless nickle-plated brass tubing attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.
NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.
See the Connectors & Holders section of this catalog, pages 89-91.

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3-Prong Dual Adjust Clamps
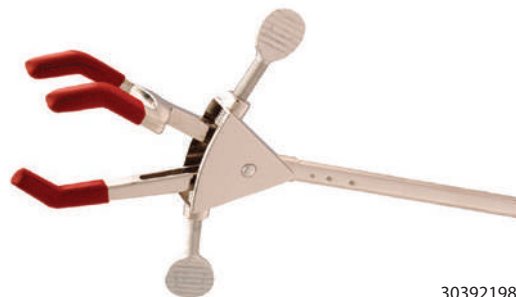
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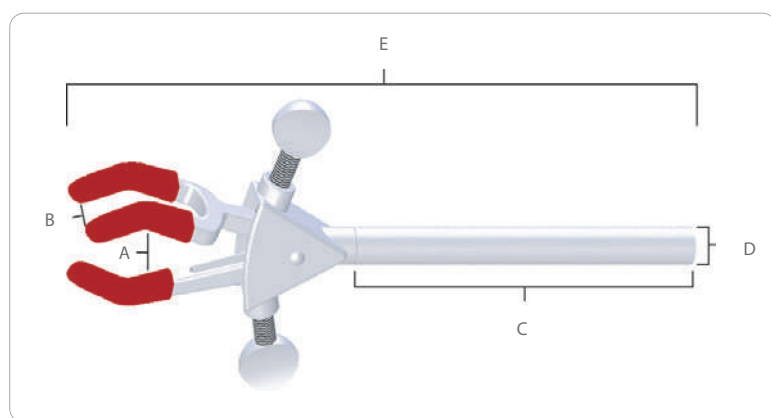
3-Prong Single Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI3SZS	Small	0 to 39 mm	11 mm	102 mm	8 mm	160 mm	30392205
CLM-MULTI3SZM	Medium	0 to 71 mm	19 mm	127 mm	11 mm	218 mm	30392203
CLM-MULTI3SZL	Large	0 to 108 mm	29 mm	127 mm	11 mm	248 mm	30392200

3-Prong Dual Adjust Clamps

Model	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI3DZS	Small	0 to 46 mm	11 mm	102 mm	8 mm	168 mm	30392204
CLM-MULTI3DZM	Medium	0 to 69 mm	19 mm	127 mm	11 mm	229 mm	30392201
CLM-MLTEX3DZM	Medium (extended)	0 to 69 mm	19 mm	305 mm	13 mm	406 mm	30392202
CLM-MULTI3DZL	Large	0 to 105 mm	29 mm	127 mm	11 mm	273 mm	30392198
CLM-MLTEX3DZL	Large (extended)	0 to 105 mm	29 mm	305 mm	13 mm	451 mm	30392199

MULTI-PURPOSE CLAMPS

2-Prong Multi-Purpose Clamps

- **Stainless steel electro-polished finish or nickel-plated zinc**
- **Large grip adjustment range**
- **2-prong construction**
- **Single or dual adjust**

Designed to securely hold laboratory glassware and apparatus. Extension arm attaches clamp head securely and offers easy positioning in the deepest fume hoods. Clamps are constructed with round extension arms, which allow the clamps to be rotated 360°. Extension arms also allow placement of apparatus at various distances from lab-frames without compromising the integrity of your experiment. Stainless steel clamps are electro-polished and made entirely of stainless steel. They offer exceptional chemical resistance and are autoclavable. Nickel-plated zinc offers a clamp with a high tensile strength at an economical price. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.

See the Connectors & Holders section of this catalog, pages 89-91.

2-Prong Single Adjust Clamps
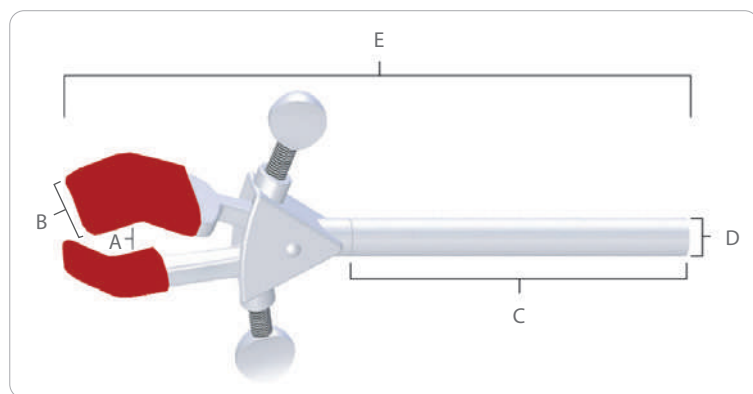
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2-Prong Dual Adjust Clamps

2-Prong Single Adjust Clamps

Model	Material	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI2SZM	Nickel-plated zinc	Medium	0 to 78 mm	23 mm	127 mm	11 mm	216 mm	30392208
CLM-MULTI2SZL	Nickel-plated zinc	Large	0 to 92 mm	23 mm	127 mm	11 mm	229 mm	30392206

2-Prong Dual Adjust Clamps

Model	Material	Size	(A) Min. to Max Grip Size	(B) Prong Width	(C) Arm Length	(D) Arm Dia.	(E) Overall Length	Item N°
CLM-MULTI2DSM	Stainless steel	Medium	0 to 75 mm	23 mm	127 mm	11 mm	229 mm	30392220
CLM-MULTI2DZM	Nickle-plated zinc	Medium	0 to 75 mm	23 mm	127 mm)	11 mm	229 mm	30392209
CLM-MULTI2DSL	Stainless steel	Large	0 to 95 mm	23 mm	127 mm	11 mm	248 mm	30392223
CLM-MULTI2DZL	Nickle-plated zinc	Large	0 to 95 mm	23 mm	127 mm	11 mm	248 mm	30392207

MULTI-PURPOSE CLAMPS

Swivel Clamps

Used to hold apparatus near the lab-frame. Unlike extension clamps, the swivel clamps have an integral holder for attaching to a lab-frame or other apparatus. Built-in holder grips rods up to 19 mm in diameter and is adjustable for forward or reverse-facing adjustment screws. Shaft wing-nut allows the holding angle of the swivel clamp to adjust through 360° of rotation and can be locked in place once desired position is achieved. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

30392225

Model	Material	Description	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLM-SWIVL2SSM	Stainless steel	2-Prong Single Adjust	Medium	0 to 76 mm	23 mm	163 mm	30392226
CLM-SWIVL2SZM	Nickel-plated zinc	2-Prong Single Adjust	Medium	0 to 76 mm	23 mm	163 mm	30392215
CLM-SWIVL2SZL	Nickel-plated zinc	2-Prong Single Adjust	Large	0 to 95 mm	23 mm	180 mm	30392216
CLM-SWIVL3DSM	Stainless steel	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	178 mm	30392225
CLM-SWIVL3DZM	Nickel-plated zinc	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	178 mm	30392214

30392229

Fixed-Position Clamps

Used to hold apparatus near the lab-frame where no adjustment is required after set-up. Built-in holder grips rods up to 19 mm in diameter Fixed-Position Clamps have an integral holder for attachment to the lab-frame or other apparatus. Available in 2-prong or 3-prong. Stainless steel electro-polished finish or nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Model	Material	Description	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLM-FIXED2SSM	Stainless steel	2-Prong Single Adjust	Medium	0 to 77 mm	23 mm	133 mm	30392230
CLM-FIXED2SZM	Nickel-plated zinc	2-Prong Single Adjust	Medium	0 to 77 mm	23 mm	133 mm	30392218
CLM-FIXED3DSM	Stainless steel	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	146 mm	30392229
CLM-FIXED3DZM	Nickel-plated zinc	3-Prong Dual Adjust	Medium	0 to 69 mm	20 mm	146 mm	30392217

SPECIALTY CLAMPS

Thermometer Swivel Clamp

Holds glass tubes and thermometers 114 mm from support rod. Clamp features safety adjust spring plate jaws that adjust to any angle with locking wing-nut. Built-in holder grips rods up to 19 mm in diameter. Lightweight, rust, and corrosion-resistant. Nickel-plated construction.

Model	Min. to Max. Grip Size	Overall Length	Item N°
CLS-THMSWZ	6 to 8 mm	159 mm	30392238

Thermometer / Thermocouple Extension Clamp

Lightweight clamp holds glass tubing, thermometers or thermocouples up to 178 mm from support rod. Tightening wing-nut applies tension to the nickel-plated jaws.
NOTE: An additional holder must be purchased in order to attach clamps to frames or other apparatus.
See the Connectors & Holders section of this catalog, pages 89-91.

Model	Min. to Max. Grip Size	Ext Arm Length	Arm Dia.	Overall Length	Item N°
CLS-THMEXZ	6 to 12 mm	127 mm	11 mm	210 mm	30392239

Wall Clamp

Ideal for securing fermentation tubes, burets or other small objects to walls where no frames are available. Integral self-tapping screw secures clamp to wall. Nickel-plated construction.

| Model	Min. to Max. Grip Size	Overall Length	Item N°
CLS-WALLCZ	5 to 10 mm	80 mm	30392244

Water Bath Clamps

Holds a variety of apparatus, including glass tubes and thermometers onto glass water bath walls. Built-in holder grips walls of varying thickness, up to 9 mm. Knurled thumbscrew tightens jaws to hold objects firmly. Nickel-plated zinc construction. Large water bath clamp is supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Model	Size	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLS-WBATHZS	Small	5 to 10 mm	N/A	89 mm	30392240
CLS-WBATHZL	Large	0 to 46 mm	11 mm	117 mm	30392241

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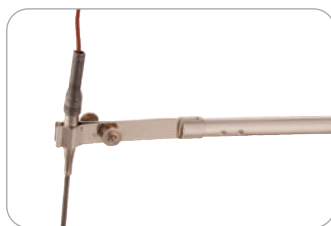
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SPECIALTY CLAMPS

For the items listed below an additional holder must be purchased in order to attach clamps to frames or other apparatus. See the Connectors & Holders section of this catalog, pages 89-91.

Chain Clamps

Holds large round or irregular shaped objects firmly, yet gently, to lab-frames and rods. Quick and secure slip-on chain connection with large, easy-to-turn adjusting knob. Extension arm allows user to vary distance from the frame. Available as stainless steel clamp, constructed entirely of stainless steel with electro-polished finish or nickel-plated zinc clamp with strong, chromed-brass chain.

Stainless Steel

Model	Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-CHAINSL	Large-5	35 to 280 mm	127 mm	13 mm	206 mm	30392224

Nickel-Plated Zinc

Model	Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-CHAINZM	Small	35 to 170 mm	127 mm	13 mm	188 mm	30392235
CLS-CHAINZL	Large-5	35 to 280 mm	127 mm	13 mm	206 mm	30392259
CLS-CHNEXZL	Large-12	35 to 280 mm	305 mm	13 mm	384 mm	30392260

Column Clamps

These sturdy, easily adjusted, multi-purpose clamps are ideal for holding large cylindrical glassware and similar objects. A large, flat thumbscrew/worm-drive permits maximum tightening or removal in minimum time. Clamp is constructed of corrosion-resistant stainless steel. Ideal for chromatography columns.

Model	Size	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-COLMNSS	Small	65 to 89 mm	211 mm	11 mm	282 mm	30392314
CLS-COLMNSM	Medium	91 to 114 mm	211 mm	11 mm	315 mm	30392315
CLS-COLMNSL	Large	64 to 140 mm	211 mm	11 mm	338 mm	30392316
CLS-COLMNSX	X-Large	92 to 165 mm	211 mm	11 mm	368 mm	30392317

Nester Extension Clamps

Securely holds large or small glass distillation columns and odd-shaped glassware. Constructed of stainless steel with strong, chromed-brass band and chain.

Model	Min. to Max. Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-NESTXS	50 to 102 mm	152 mm	10 mm	262 mm	30392318

PVC Coated Open Extension Rings

Ideal for supporting funnels, round bottom flasks, reaction vessels, and other apparatus that require lower support. Opening in PVC coated aluminium ring allows for easy removal of sample container. PVC coating protects glassware. Long extension arm permits depth adjustment of the open ring from the lab-frame or ring stand.

Model	Ring Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-OPENRPS	76 mm	254 mm	9 mm	328 mm	30392346
CLS-OPENRPM	102 mm	305 mm	9 mm	404 mm	30392347
CLS-OPENRPL	127 mm	305 mm	11 mm	427 mm	30392348

Open Rings

Lightweight rings mount funnels, boiling flasks, and other irregular shaped objects to lab-frames. Open ring section allows items to pass in and out of support area easily, reducing risk of breakage. Aluminium construction.

Model	Ring Dia.	Ext. Arm Length	Arm Dia.	Overall Length	Item N°
CLS-OPENRAS	76 mm	58 mm	9 mm	132 mm	30392343
CLS-OPENRAM	102 mm	58 mm	9 mm	158 mm	30392344
CLS-OPENRAL	127 mm	61 mm	11 mm	183 mm	30392345

30392224

30392316

30392318

30392347

SPECIALTY CLAMPS

Buret Holders

Stainless steel electro-polished finish or nickel-plated zinc construction. Double Buret Clamp holds any size buret from micro to 100 ml capacity. Simply compress the scissor-like mechanism, insert buret and gently release to grip. Numbers and graduation on buret remain easy to read. For height adjustments, recompress mechanism and slide buret up or down and gently release. Clamp unit with built-in reinforced hook connector attaches to optional standard support rod. Adjusting nut faces forward for easy use. Stainless steel or aluminium support rod attaches to optional porcelain base.

Support Rod (Dia. × L): 13 × 578 mm

Porcelain Base (L × W × H): 178 × 330 × 25 mm

Stainless Steel

Model	Description	Item N°
CLS-BTDBLS	Double Buret Clamp (only)	30392227
CLS-RODS	Support Rod (only)	30392233
CLS-STRODS	Support Stand with Rod	30392232
CLS-BTSETS	Double Buret Clamp & Support Stand with Rod (complete)	30392231

Nickel-Plated Zinc

Model	Description	Item N°
CLS-BTDBLZ	Double Buret Clamp (only)	30392234
CLS-STRODA	Support Stand with Rod	30392312
CLS-BTSETA	Double Buret Clamp & Support Stand with Rod (complete)	30392313

Kettle Clamps

Holds flask and cover together firmly. Three insulated spring-activated clamping arms. Stainless steel springs. For use on reaction kettles.

| Model	Flask Size	Inside Dia.	Item N°
CLS-KTLCLS	500 ml, 1000 ml	125 mm	30392365
CLS-KTLCLM	2000 ml, 3000 ml, 4000 ml	142 mm	30392366

Electrode Support Clamp

Permits suspension of electrodes over beaker for potentiometric titrations. Holds any electrode clamp at desired level. Built-in nickel-plated zinc holder grips rods up to 19 mm in diameter.

Model	Overall Length	Item N°
CLS-ELECTZ	178 mm	30392242

Suspension Clamp

Holds thermometers, potash bulbs or drying tubes 114 mm from support rod. Machine tapered, nickel-plated brass hook won't bend, rust, or corrode. Built-in holder grips rods up to 19 mm in diameter.

| Model	Overall Length	Item N°
CLS-SUSPNB	137 mm	30392243
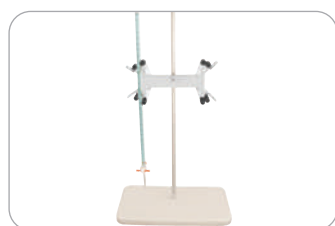
30392238   30392365   30392242 Electrode holder not included   30392243

SPECIALTY CLAMPS

Ultra Flex Support Systems have unique flexible arms that are extremely versatile and can be placed in virtually any position or angle. Ultra Flex comes in three different systems; base plate, lab-frame connector, and bench clamp. Each system includes a 2-Prong Clamp Head, 3-Prong Clamp Head, Spring Clamp Head, nickel-plated flex arm in 305 mm or 457 mm length, and utility wrench. 2-prong and 3-prong clamp heads also supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

2-Prong Clamp Head	3-Prong Clamp Head	Spring Clamp Head
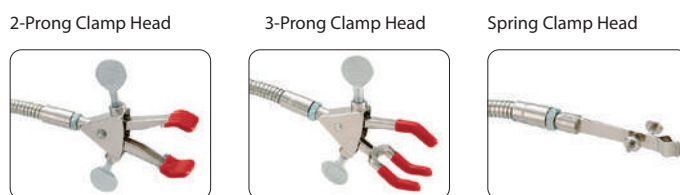
Arm Length	Ultra Flex 12	305 mm
	Ultra Flex 18	457 mm
Arm Diameter		13 mm
Max. Grip Size	2-Prong Clamp Head	75 mm
	3-Prong Clamp Head	69 mm
	Spring Clamp Head	13 mm

Ultra Flex Support System with Base Plate

OHAUS Ultra Flex Support System with Base Plate is constructed of all metal and designed with a stable, painted steel base plate with chemical resistant black finish that fits easily on bench tops or in fume hoods. Base plate measures 127 × 127 × 12,7 mm.

Model	Description	Item N°
CLS-FLEXSM	Ultra Flex 12 with Base Plate	30400011
CLS-FLEXSL	Ultra Flex 18 with Base Plate	30400014

Ultra Flex Support System with Lab-Frame Connector

Ultra Flex Support System with Lab-Frame Connector securely attaches to support stands, lab-frames, or any support rod up to 19 mm in diameter. Ideal for use in fume hoods. Lab-frame connector is made of cast alloy.

Model	Description	Item N°
CLS-FLEXLM	Ultra Flex 12 with Lab-Frame Connector	30400013
CLS-FLEXLL	Ultra Flex 18 with Lab-Frame Connector	30400016

Ultra Flex Support System with Bench Clamp

Ultra Flex Support System with Bench Clamp easily attaches to the side of your lab bench or counter top, which helps utilize more space in your lab. Bench clamp is constructed of aluminium.

Model	Description	Item N°
CLS-FLEXBM	Ultra Flex 12 with Bench Clamp	30400012
CLS-FLEXBL	Ultra Flex 18 with Bench Clamp	30400015

30400014   30400013   30400015

SPECIALTY CLAMPS

Bench Clamp

Aluminium bracket with arm fastens quickly and firmly to any convenient shelf. Accepts 13 mm rods vertically and horizontally, to which ordinary rings and clamps attach, leaving bench surface clear for apparatus.

Model	Clamp Opening	Depth of Grip	Overall Length	Item N°
CLC-SHGRPA	43 mm	51 mm	197 mm	30392311

Double Jaw Utility Clamp

Swivels 360° and locks securely in desired position. These 2-prong clamps have a medium and a large clamp on each end. Nickel-plated zinc construction. Supplied with non-slip vinyl sleeves and, for temperatures above 100°C, fiberglass covers.

Model	Description	Min. to Max. Grip Size	Prong Width	Overall Length	Item N°
CLS-DBJAWZ	Medium 2-Prong	0 to 76 mm	23 mm	222 mm	30392236

Accessories

Description	Item N°
Medium 2 Prong Sleeves, Vinyl	30400253
Medium 2 Prong Sleeves, Fiberglass	30400254
Large 2 Prong Sleeves, Vinyl	30400255
Large 2 Prong Sleeves, Fiberglass	30400256
Small 3 Prong Sleeves, Vinyl	30400257
Small 3 Prong Sleeves, Fiberglass	30400258
Medium 3 Prong Sleeves, Vinyl	30400259
Medium 3 Prong Sleeves, Fiberglass	30400260
Large 3 Prong Sleeves, Vinyl	30400261
Large 3 Prong Sleeves, Fiberglass	30400262
Small 3 Prong Sleeves, Vinyl Black	30400263
Medium 3 Prong Sleeves, Vinyl Black	30400264
Large 3 Prong Sleeves, Vinyl Black	30400265

30392311

30392236

CONNECTORS & HOLDERS

Regular Holder

Stainless steel electro-polished finish or nickel-plated zinc construction. Ideal for holding clamps to lab-frames. Use wherever clamping at 90° is required.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-REGLRS	Stainless steel	0 to 18 mm	30392219
CLC-REGLRZ	Nickel-plated zinc	0 to 18 mm	30392197

Jumbo Holder

Stainless steel electro-polished finish or aluminium construction. Ideal for holding clamps to lab-frames or ring stands.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-JUMBOS	Stainless steel	0 to 21 mm	30392357
CLC-JUMBOA	Aluminium	0 to 21 mm	30392196

Heavy-Duty Holder

For mounting stirrers and other apparatus. Holder is constructed of strong aluminium alloy; fitted with oversized knobs for very secure positioning. Rods supported on 102 mm long surface to avoid vibration and wobble.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-ULTRAA	Aluminium	6 to 24 mm	30400045

Swivel Holder

Two rod holders with center swivel capacity allow tilting of clamps at any angle in parallel planes. Outside adjustment screw allows close proximity between items being held. Stainless steel electro-polished or nickel-plated zinc construction.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-SWIVLS	Stainless steel	0 to 19 mm	30392228
CLC-SWIVLZ	Nickel-plated zinc	0 to 19 mm	30392213

All-Position Clamp Holder

Surpasses standard holding capabilities. The all-position clamp holder permits adjustment at any angle in any plane. Holders are set at 90° to each other, connected by a 90° connector, allowing 360° rotation. Nickel-plated zinc construction.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-ALLPSZ	Nickel-plated zinc	0 to 19 mm	30392248

Clamp Holder

Clamp is ideal for gripping 2 rods at 90°. Oversized thumbscrews make securing rods fast and easy.

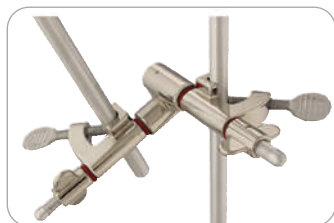| Model	Material	Min. to Max. Grip Size	Overall Length	Item N°
CLC-CLMPHA	Aluminium	0 to 17 mm	70 mm	30392195

30392219   30392357   30400045   30392228

30392248   30392195

CONNECTORS & HOLDERS

Hook Connector

Stainless steel electro-polished finish or nickel-plated zinc construction. Simple, versatile, and easy-to-use. Hook connectors allow one-handed assembly of two components with one adjustment screw.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-HOOKCS	Stainless steel	0 to 13 mm	30392358
CLC-HOOKCZ	Nickel-plated zinc	0 to 13 mm	30392258

End-to-End Connector

Extend the length of lab-frame rods. Strong aluminium alloy connector permits end-to-end joining of rods. Precision boring of connector ensures perfect alignment of rods. Corrosion resistant. Comes with two set screws.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-EN2ENA	Aluminium	0 to 13 mm	30392264

Rod End Connector

Holds rods firmly at 90°. Use when semi-permanent installations are required. Comes with two set screws and is precision bored for close fit. Stainless steel electro-polished finish or nickel-plated zinc construction.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-RDENDS	Stainless steel	0 to 13 mm	30392222
CLC-RDENDZ	Nickel-plated zinc	0 to 13 mm	30392256

S-Connector

Stainless steel electro-polished finish or nickel-plated zinc construction. Clamp is ideal for constructing lab-frames or other supports requiring the connection of two perpendicular rods. Clamp connects two 13 mm rods at a 90° angle and features separate adjustment screws for each rod location.

Model	Material	Min. to Max. Grip Size	Item N°
CLC-SCONNS	Stainless steel	0 to 13 mm	30392355
CLC-SCONNZ	Nickel-plated zinc	0 to 13 mm	30392257

Frame Connector (Pack of 12)

Improved contour delivers simplicity and strength. Angled adjustment screws allow easy set-up and prevents misalignment. Smooth, rounded surfaces are easy-to-clean. Small size maximizes lab-frame space. Bright dipped aluminium finish sealed with silicon for maximum protection against corrosion.
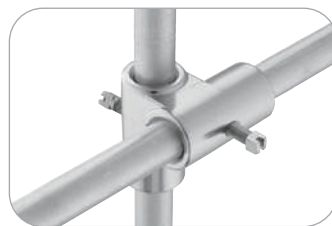
Model	Material	Min. to Max. Grip Size	Item N°
CLC-LTTCEA	Aluminium	0 to 13 mm	30392255

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30392264

30392222

30392355

30392255

CONNECTORS & HOLDERS

Universal Stirrer Mounting Bracket
Use to mount stirrers and other devices to lab-frames. Aluminium mounting bracket with attachment screws.

Model	Max. Weight Mounted	Min. to Max. Grip Size	Item N°
CLC-UNSMBA	2,27 kg	0 to 20 mm	30392265

Multi-Rod Connector
Maximum adjustment capability within one connector. Two adjustment rods fit into the oval hole in the connector, preventing turning when tightened. Side and front 13 mm holes allow creation of a variety of configurations. Nickel-plated zinc construction.

Model	Min. to Max. Rod Size	Item N°
CLC-MTRODZ	0 to 13 mm	30392262

Wrench
Special adjusting wrench is for use with lab-frame items with set screws.

Model	Length	Item N°
CLC-WRNCH	79 mm	30392270

Channel Connector
Special connector fastens lab-frame rod to steel 41 mm channels. Loosen the connector and slide up or down for easy adjustment of rod position.

Model	Dimensions	Item N°
CLC-CHANLZ	33 × 40 mm	30392261

Horizontal Mounting Bars with Coupler
Threaded end for direct installation into channels. Comes with spring coupler for use in steel 41 mm channels. Locking nut included. Use with steel channel frames.

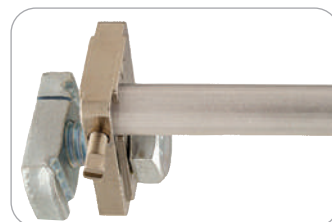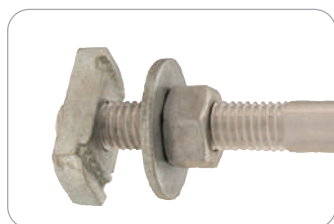| Model	Bar Length	Item N°
CLC-HTZMBA05	51 mm	30392266
CLC-HTZMBA10	102 mm	30392267
CLC-HTZMBA15	152 mm	30392268
CLC-HTZMBA20	203 mm	30392269

30392265

30392262

30392270

30392261

30392268

RODS, FRAMES, & SUPPORTS

A LabJaws Clamp for Every Application - Choose From Over 85 Options to Hold Everything In Your Lab

Corrosion-resistant lab-frames, rods, and connectors are available in premium stainless steel offering high chemical-resistance and durability. Aluminium offers reliable strength at a lighter weight.

Simplify lab set up - 13 lab-frame kit options are available with four designed to fit in fume hoods. Build your own support system choosing from a wide selection of rods, bases, and connectors.

Lab-lifts are convenient adjustable lifting platforms. Exceptional strength and durability for holding small lab equipment such as glassware, hot plates, and water baths at different heights.

Lab Frame Foot

Stainless steel electro-polished finish or nickel-plated zinc construction. Strong, durable lab-frame foot is designed for mounting lab-frames permanently to bench tops, fume hoods, walls, and floors. Spilled fluids roll right off the smooth body contour, minimizing contamination and easing clean-ups. Features a set screw and includes three 19 mm mounting screws.

30392356

Model	Material	Min. to Max. Grip Size	Dimensions (Dia. × H)	Item N°
CLR-LFOOTS	Stainless steel	0 to 13 mm	58 × 32 mm	30392356
CLR-LFOOTZ	Nickel-plated zinc	0 to 13 mm	58 × 32 mm	30392263

Frame Rods

Everything you need to customize a lab-frame to your laboratory space. Quality construction throughout. Frame rods are available in many lengths and materials.

Aluminium

Center-less ground for a precise fit. These hard aluminium rods provide a smooth fit with lab-frames.

Corrosion resistant with chamfered ends for easy location.

Stainless Steel

Heavy-duty, top-of-the-line rods provide maximum strength and durability.

Constructed of 303 stainless steel.

Aluminium

Stainless steel

Model	Material	Rod Diameter	Rod Length	Item N°
CLR-RODA004	Aluminium	13 mm	41 mm	30392271
CLR-RODA005	Aluminium	13 mm	51 mm	30392272
CLR-RODA015	Aluminium	13 mm	152 mm	30392273
CLR-RODA030	Aluminium	13 mm	305 mm	30392274
CLR-RODA046	Aluminium	13 mm	457 mm	30392275
CLR-RODA061	Aluminium	13 mm	610 mm	30392276
CLR-RODA091	Aluminium	13 mm	914 mm	30392277
CLR-RODA122	Aluminium	13 mm	1219 mm	30392278
CLR-RODA152	Aluminium	13 mm	1524 mm	30392279
CLR-RODA183	Aluminium	13 mm	1829 mm	30392280
CLR-RODA244	Aluminium	13 mm	2438 mm	30392281
CLR-RODS004	Stainless Steel	13 mm	41 mm	30392293
CLR-RODS005	Stainless Steel	13 mm	51 mm	30392294
CLR-RODS015	Stainless Steel	13 mm	152 mm	30392295
CLR-RODS030	Stainless Steel	13 mm	305 mm	30392296
CLR-RODS046	Stainless Steel	13 mm	457 mm	30392297
CLR-RODS061	Stainless Steel	13 mm	610 mm	30392298
CLR-RODS091	Stainless Steel	13 mm	914 mm	30392299
CLR-RODS122	Stainless Steel	13 mm	1219 mm	30392300
CLR-RODS152	Stainless Steel	13 mm	1524 mm	30392301
CLR-RODS183	Stainless Steel	13 mm	1829 mm	30392302
CLR-RODS244	Stainless Steel	13 mm	2438 mm	30392303

RODS, FRAMES, & SUPPORTS

LabJaws offers the widest choice of standard lab frames available, plus the accessories to custom-fit any laboratory with the right frame for the job. Standard Lab-Frame sets are available in five sizes. Options of traditional center-less ground aluminium, non-corroding fiberglass, or tough stainless steel rods are available. Nickel-plated zinc connectors and lab-frame feet are standard with all kits.

Small Lab-Frame

Vertical mounting, great for glassware set-ups in small laboratories or where space is limited. Frame measures 610 × 610 mm. Base is 457 mm wide for stability. Base may be permanently mounted to bench top with screws (included).

Components:
- (8) 51 mm Rods
- (2) 457 mm Rods
- (8) 610 mm Rods
- (18) S-Connectors
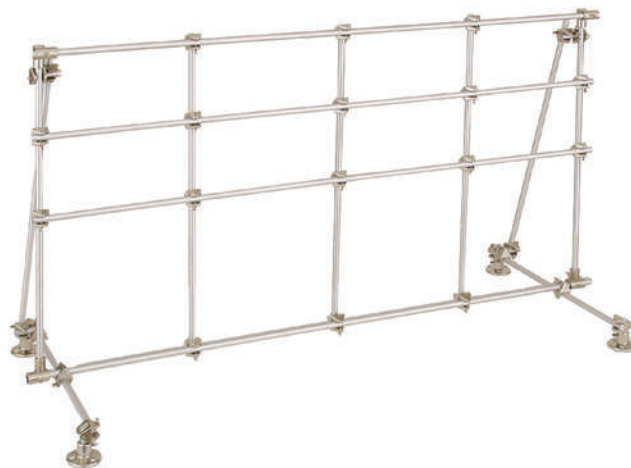- (4) Rod End Connectors
- (4) Lab-Frame Feet

Model	Material	Frame Dimensions	Base Dimensions	Item N°
CLR-FRAMEAS	Aluminium	61 × 61 cm	457 mm wide	30392304
CLR-FRAMESS	Stainless Steel	61 × 61 cm	457 mm wide	30392323

Medium Lab-Frame

Horizontal or vertical mounting, convenient for distillation or general set-up. Frame measures 610 × 1219 mm. Base is 457 mm wide for stability.

Components:
- (8) 51 mm Rods
- (2) 457 mm Rods
- (7) 610 mm Rods
- (4) 1219 mm Rods
- (35) S-Connectors
- (4) Rod End Connectors
- (4) Lab-Frame Feet

Model	Material	Frame Dimensions	Base Dimensions	Item N°
CLR-FRAMEAM	Aluminium	610 × 1219 mm	457 mm wide	30392305
CLR-FRAMESM	Stainless Steel	610 × 1219 mm	457 mm wide	30392324

RODS, FRAMES, & SUPPORTS

Large Lab-Frame

This 1219 × 1219 mm frame is ideal for complex glassware set-ups. Base is 457 mm wide for stability.

Components:

- (10) 51 mm Rods
- (3) 457 mm Rods
- (2) 914 mm Rods
- (10) 1219 mm Rods
- (38) S-Connectors
- (4) Rod End Connectors
- (6) Lab-Frame Feet

Model	Material	Frame Dimensions	Base Dimensions	Item N°
CLR-FRAMEAL	Aluminium	1219 × 1219 mm	457 mm wide	30392306
CLR-FRAMESL	Stainless Steel	1219 × 1219 mm	457 mm wide	30392325

Extra-Large Lab-Frame

Versatile, adaptable Extra-Large Lab-Frame measures 1219 × 1829 mm and may be used either horizontally or vertically.

Components:

- (6) 51 mm rods
- (6) 305 mm rods
- (2) 610 mm rods
- (7) 1219 mm rods
- (5) 1829 mm rods
- (45) S-Connectors
- (4) Rod End Connectors
- (8) Lab-Frame Feet

Model	Material	Frame Dimensions	Item N°
CLR-FRAMEAX	Aluminium	1219 × 1829 mm	30392307
CLR-FRAMESX	Stainless Steel	1219 × 1829 mm	30392326

RODS, FRAMES, & SUPPORTS

Heavy-Duty Lab-Frame

Floor mounted, free-standing unit is specifically designed for heavy-duty work such as pilot plant set-ups. Outside frame is constructed of a strong, but lightweight steel channel. Interior lattice uses a horizontal channel connector; one end accommodates the rod, the other end fits into the channel and locks tightly with a bolt. Loosen the bolt, and the connector slides easily along the channel track for simple lattice adjustment. Entire apparatus is supported on sturdy, counter-weighted cast iron feet, which may be bolted to the floor for added stability required in top-heavy installations.
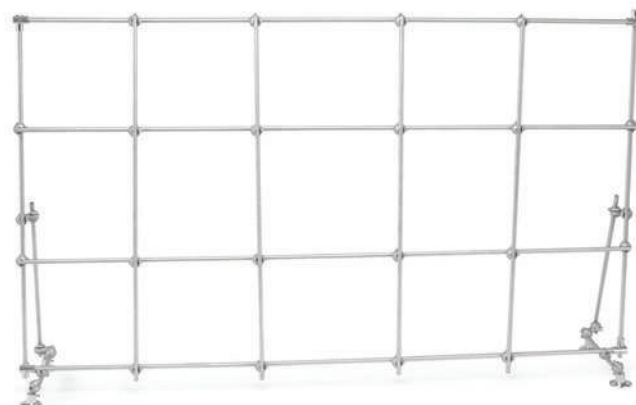
Components:

- (5) 1219 mm rods
- (3) 1829 mm rods
- (15) S-Connectors
- (16) Channel Connectors
- (24) Clamping Nuts
- (2) 551 mm Cast Iron Feet
- (1) Frame Kit
- (1) Wrench

Model	Material	Frame Dimensions	Overall Dimensions	Item N°
CLR-FRAMEAH	Aluminium	1219 × 1829 mm	1905 × 1829 mm	30392309
CLR-FRAMESH	Stainless Steel	1219 × 1829 mm	1905 × 1829 mm	30392328

Fume Hood Kits

Choose from four kits specifically designed to fit within laboratory fume hoods. All components are constructed of stainless steel with the exception of the Frame Connectors which are made of aluminium with a silicon finish.

Model	1,22 m Fume Hood Kit Components:	1,52 m Fume Hood Kit Components:	1,83 m Fume Hood Kit Components:	2,44 m Fume Hood Kit Components:
	- (8) 51 mm rods	- (8) 51 mm rods	- (8) 51 mm rods	- (10) 51 mm rods
	- (2) 305 mm rods	- (2) 305 mm rods	- (2) 305 mm rods	- (3) 305 mm rods
	- (2) 457 mm rods	- (2) 457 mm rods	- (2) 457 mm rods	- (2) 457 mm rods
	- (4) 914 mm rods	- (5) 914 mm rods	- (6) 914 mm rods	- (8) 914 mm rods
	- (4) 965 mm rods	- (4) 1270 mm rods	- (4) 1575 mm rods	- (4) 2184 mm rods
	- (30) Frame Connectors	- (34) Frame Connectors	- (38) Frame Connectors	- (45) Frame Connectors
	- (4) Rod End Connectors	- (4) Rod End Connectors	- (4) Rod End Connectors	- (4) Rod End Connectors
	- (4) Lab-Frame Feet	- (4) Lab-Frame Feet	- (4) Lab-Frame Feet	- (6) Lab-Frame Feet
	Frame: 914 × 965 mm	Frame: 914 × 1270 mm	Frame: 914 × 1575 mm	Frame: 914 × 2184 mm
	Base: 305 mm wide	Base: 305 mm wide	Base: 305 mm wide	Base: 305 mm wide
Item N°	30392329	30392330	30392331	30392332

Rods, frames, & supports

Support Stands

Support Stands are made entirely of 303 stainless steel. They have a durable base that can accommodate vessels up to 457 mm in diameter within the "U". The base area is 451 mm across × 267 mm deep overall. The stainless steel support rod is 16 mm in diameter and is screwed to the support base. Two additional threaded holes in the base legs accommodate rods, enabling the stand to support two mixers. The "U" shape of the base should be turned from the mixing apparatus when the two outside rods are in use. This balances the weight, preventing the base from tipping.

Model	Description	Item N°
CLR-STRODS058	Support Stand with 584 mm Rod	30400030
CLR-STRODS071	Support Stand with 711 mm Rod	30400031
CLR-STRODS091	Support Stand with 914 mm Rod	30400032
CLR-STRODS102	Support Stand with 1016 mm Rod	30400033
CLR-STRODS122	Support Stand with 1219 mm Rod	30400034
CLR-STRODS152	Support Stand with 1524 mm Rod	30400035

Support Stand Stabilizer Knobs

Support Stand Stabilizer Knobs can be added to the two additional threaded holes in the base legs to secure the stand to a bench top.

Model	Description	Item N°
CLR-SKNOB	Support Stand Stabilizer Knobs (2 per pack)	30400044

Heavy-Duty Support Stands

Heavy-Duty Support Stands have a four point cast iron base with stainless steel support rod. They are designed to accommodate vessels up to 30.5 cm in diameter to sit close to the support rod. They have rubber cushions on each of the four corners. The base area is 41,9 cm across × 30,5 cm deep overall. They are ideal for Heavy-Duty Mixers, page 43.

Model	Description	Item N°
CLR-STRODC046	Heavy-Duty Support Stand with 457 mm Rod	30392334
CLR-STRODC058	Heavy-Duty Support Stand with 584 mm Rod	30392335
CLR-STRODC071	Heavy-Duty Support Stand with 711 mm Rod	30392336
CLR-STRODC091	Heavy-Duty Support Stand with 914 mm Rod	30392337
CLR-STRODC102	Heavy-Duty Support Stand with 1016 mm Rod	30392338
CLR-STRODC122	Heavy-Duty Support Stand with 1219 mm Rod	30392339
CLR-STRODC152	Heavy-Duty Support Stand with 1524 mm Rod	30392340

Replacement Support Rods

Model	Description	Diameter	Item N°
CLR-SPRODS046	457 mm Stainless Steel Rod	16 mm	30400036
CLR-SPRODS058	584 mm Stainless Steel Rod	16 mm	30400037
CLR-SPRODS071	711 mm Stainless Steel Rod	16 mm	30400038
CLR-SPRODS091	914 mm Stainless Steel Rod	16 mm	30400039
CLR-SPRODS102	1016 mm Stainless Steel Rod	16 mm	30400040
CLR-SPRODS122	1219 mm Stainless Steel Rod	16 mm	30400041

Support Stand   Support Stand Stabilizer Knobs   Heavy-Duty Support Stand   Replacement Support Rods

RODS, FRAMES, & SUPPORTS

Cast Iron Support Stands

Cast iron support stand bases are constructed with black enamel finish for chemical resistance and durability. All bases feature a built-in support rod holder with locking knob that accepts a 13 mm diameter support rod. U-shaped base features three built-in support rod holders and accommodates vessels up to 127 mm in diameter.

Note: Support rods are not included.

Rectangular Base Support Stand, Cast Iron

Model	Description	Dimensions	Item N°
CLR-RBASECS	Rectangular Base (only)	102 × 152 mm	30392359
CLR-RBASECM	Rectangular Base (only)	127 × 203 mm	30392360
CLR-RBASECL	Rectangular Base (only)	152 × 229 mm	30392361
CLR-RBASECX	Rectangular Base (only)	203 × 254 mm	30392362

Tripod Base Support Stand, Cast Iron

Model	Description	Overall Footprint Diameter	Item N°
CLR-TBASEC	Tripod Base (only)	375 mm	30392363

U-Shaped Base Support Stand, Cast Iron

Model	Description	Dimensions	Item N°
CLR-UBASEC	U-Shaped Base (only)	178 × 178 mm	30392364

Aluminium Support Rods

Model	Description	Diameter	Item N°
CLR-RODA030	305 mm Aluminium Rod	13 mm	30392274
CLR-RODA046	457 mm Aluminium Rod	13 mm	30392275
CLR-RODA061	610 mm Aluminium Rod	13 mm	30392276
CLR-RODA091	914 mm Aluminium Rod	13 mm	30392277

Stainless Steel Support Rods

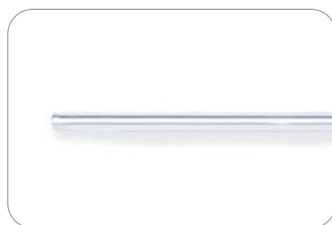| Model	Description	Diameter	Item N°
CLR-RODS030	305 mm Stainless Steel Rod	13 mm	30392296
CLR-RODS046	457 mm Stainless Steel Rod	13 mm	30392297
CLR-RODS061	610 mm Stainless Steel Rod	13 mm	30392298
CLR-RODS091	914 mm Stainless Steel Rod	13 mm	30392299

Rectangular Base Support Stand

Tripod Base Support Stand

U-Shaped Base Support Stand

Aluminium Support Rods

Stainless Steel Support Rods

RODS, FRAMES, & SUPPORTS

Round Support Plate

Aluminium plate supports beakers, mantles and petri dishes. Fits standard lab-frames using connectors or holders, shown on pages 103-105.

Model	Description	Distance from Rod	Item N°
CLR-PLATEAR	152 mm	66 mm	30392342

Support Plates

Designed to hold hotplates, stirrers, hotplate-stirrers, and other apparatus to lab-frames or ring stands. Aluminium construction offers strength and durability. Support plates include a non-skid rubber mat and a built-in holder that grips rods up to 19 mm in diameter.

Model	Size	Plate Dimensions	Distance from Rod	Item N°
CLR-PLATEAS	Small	241 × 165 mm	48 mm	30392349
CLR-PLATEAL	Medium	324 × 229 mm	48 mm	30392350
CLR-PLATEAX	Large	400 × 305 mm	48 mm	30392351

OHAUS Aluminium Lab-Lifts

- **Exceptional stability and durability**
- **Aluminium construction**
- **Three convenient sizes**

Aluminium Lab-Lifts provide stable height adjustment for various items in the lab such as flasks, baths, and small equipment. Top and bottom decks are constructed of anodized aluminium. Internal supports and drive screws are constructed of stainless steel. Oversized sure-grip adjustment knobs provide smooth and accurate height adjustment. Lab-Lifts accept optional Support Rod Kit which mounts to the upper deck.

Model	Deck Size	Min. to Max. Height	Max. Load*	Item N°
CLR-LBLFTA010	102 × 102 mm	64 to 127 mm	29,94 kg	30400007
CLR-LBLFTA015	152 × 152 mm	76 to 248 mm	59,87 kg	30400008
CLR-LBLFTA020	203 × 203 mm	76 to 248 mm	79,83 kg	30400009
CLR-LBLFTA025	254 × 254 mm	89 to 330 mm	84,37 kg	30400010

*NOTE: Maximum load rating represents static weight only. Static weight is the amount a unit can hold, not lift.

OPTIONAL ACCESSORIES

432 mm Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 432 mm threaded vertical support rod to the upper deck of a 152 × 152 mm, 203 × 203 mm, 254 × 254 mm, 305 × 305 mm or 406 × 406 mm Lab-Lift by screwing the rod into the pre-drilled hole.

432 mm Support Rod Kit includes:

- 25 - 432 mm Stainless Steel Rod
- 1 - Jam Nut
- 1 - Flat Washer

Model	Description	Rod Diameter	Item N°
	432 mm Support Rod Kit	13 mm	30400050

Round Support Plate

Support Plates

RODS, FRAMES, & SUPPORTS

OHAUS Heavy-Duty Lab-Lifts

- Stainless steel construction
- Seven convenient sizes to choose from
- Autoclavable and chemical resistant

These Heavy-Duty, Stainless Steel Lab-Lifts are ultra-stable lifting platforms with exceptional strength and durability. Constructed of stainless steel, Lab-Lifts are designed for use in extreme environments and high load applications. Equipped with oversized, sure-grip adjustment knobs that provide extra leverage for easy height adjustments. Durable construction allows lifts to be autoclaved or chemically cleaned. Ideal for use in fume hoods or bench tops and holds a variety of items such as glassware, hotplates, baths, and magnetic stirrers.

Model	Deck Size	Min. to Max. Height	Max. Load*	Item N°
CLR-LBLFTS008	76 × 76 mm	64 to 127 mm	45,36 kg	30400000
CLR-LBLFTS010	102 × 102 mm	64 to 127 mm	45,36 kg	30400001
CLR-LBLFTS015	152 × 152 mm	76 to 248 mm	60,33 kg	30400002
CLR-LBLFTS020	203 × 203 mm	76 to 248 mm	102,97 kg	30400003
CLR-LBLFTS025	254 × 254 mm	89 to 330 mm	112,04 kg	30400004
CLR-LBLFTS030	305 × 305 mm	102 to 495 mm	45,36 kg	30400005
CLR-LBLFTS041	406 × 406 mm	102 to 495 mm	45,36 kg	30400006

*NOTE: Maximum load rating represents static weight only. Static weight is the amount a unit can hold, not lift.

OPTIONAL ACCESSORIES

432 mm Support Rod Kit

Ideal for creating an adjustable support stand for mounting various items such as thermometer clamps, temperature probes, flask and column clamps. This kit allows you to mount a 432 mm threaded vertical support rod to the upper deck of a 152 × 152 mm, 203 × 203 mm, 254 × 254 mm, 305 × 305 mm or 406 × 406 mm Lab-Lift by screwing the rod into the pre-drilled hole.

432 mm Support Rod Kit includes:

- 25 - 432 mm Stainless Steel Rod
- 1 - Jam Nut
- 1 - Flat Washer

Model	Description	Rod Diameter	Item N°
	432 mm Support Rod Kit	13 mm	30400050

Ratchet Tool

Designed to add extra leverage to your 305 × 305 mm or 406 × 406 mm Lab-Lift. This recommended Ratchet Tool easily attaches to the actuating rod to allow easy, accurate adjustments.

Model	Description	Item N°
	Ratchet Tool	30400049

Ratchet Tool

RODS, FRAMES, & SUPPORTS

Cylinder Bench Clamps

Rugged cast aluminium clamps safely secure gas cylinders to benches, tables or other flat surfaces up to 64 mm thick. The 25 mm wide, 1372 mm long nylon strap features a nickel-plated, non-slip spring catch and buckle for easy adjustment around cylinders from 102 to 356 mm in diameter. Models 711 and 716 available with or without a "Secure Cylinder" safety message strap.

Model 711 Bench Clamp

This bench clamp has a large tightening handle for mounting to any flat surface up to 64 mm thick. A nylon pad prevents damage to the bench or table surface. Two tapered mounting screw holes are provided for permanent attachment to bench-top.

Model	Description	Dimensions L × W × H (closed)	Cylinder Diameter	Item N°
CLR-711	Model 711 Bench Clamp with Strap	83 × 133 × 165 mm	102 to 356 mm	30400020
CLR-711M	Model 711 Bench Clamp with Safety Message Strap	83 × 133 × 165 mm	102 to 356 mm	30400021

Model 716 Bench Clamp

This bench clamp is similar to Model 711, but includes a sturdy safety chain for extra security. Chain measures 1245 mm.

Model	Description	Dimensions L × W × H (closed)	Cylinder Diameter	Item N°
CLR-716	Model 716 Bench Clamp with Strap & Chain	83 × 133 × 165 mm	102 to 356 mm	30400026
CLR-716M	Model 716 Bench Clamp with Safety Message Strap & Chain	83 × 133 × 165 mm	102 to 356 mm	30400027

Model 712 Heavy-Duty Bench Clamp

This bench clamp has two screw clamps to tighten for extra firm mounting to any flat surface up to 45 mm thick with a 32 mm overhang. Especially convenient for temporary storage situations. Rugged cast aluminium bench clamp features a 25 mm wide, 1372 mm long nylon strap with nickel-plated, non-slip spring catch buckle to hold cylinders from 102 to 356 mm in diameter. This clamp is not available with a safety message strap.

Model	Description	Dimensions L × W × H (closed)	Cylinder Diameter	Item N°
CLR-712	Model 712 Heavy-Duty Bench Clamp with Strap	83 × 152 × 114 mm	102 to 356 mm	30400022

Model 711 Bench Clamp

Model 716 Bench Clamp

Model 712 Heavy-Duty Bench Clamp

RODS, FRAMES, & SUPPORTS

Model 715 Wall Bracket

Cylinder wall-mount brackets are constructed of cast aluminium and contoured to allow cylinders to fit firmly along the support edge. Recessed screw holes at each side of the bracket allow for easy wall mounting. Features a 25 mm wide, 1372 mm long nylon strap with nickel-plated, non-slip spring catch and buckle for fast, easy adjustment. Available with or without a "Secure Cylinder" safety message strap. For cylinders from 102 to 356 mm in diameter.

Model	Description	Dimensions L × W × H	Cylinder Diameter	Item N°
CLR-715	Model 715 Wall Bracket with Strap	48 × 206 × 118 mm	102 to 356 mm	30400024
CLR-715M	Model 715 Wall Bracket with Safety Message Strap	48 × 206 × 118 mm	102 to 356 mm	30400025

Model 717 Wall Bracket

This wall bracket is similar to Model 715, but includes a sturdy safety chain for extra security. Chain measures 1245 mm.

Model	Description	Dimensions L × W × H	Cylinder Diameter	Item N°
CLR-717	Model 717 Wall Bracket with Strap & Chain	48 × 206 × 118 mm	102 to 356 mm	30400028
CLR-717M	Model 717 Wall Bracket with Safety Message Strap & Chain	48 × 206 × 118 mm	102 to 356 mm	30400029

Model 715 Wall Bracket

Model 717 Wall Bracket

RODS, FRAMES, & SUPPORTS

Model 703 Stand

This cast aluminium stand hinges open and has 4 thumbscrews to tightly grip cylinders from 203 to 229 mm in diameter.

Model	Description	Cylinder Diameter	Dimensions (Dia. × H)	Item N°
CLR-703	Model 703 Stand	203 to 229 mm	464 × 152 mm	30400018

Model 704 Adjustable Stand

Heavy-duty, cast aluminium stand with adjustable "L" brackets hold cylinders from 152 to 235 mm in diameter. Hinges open for installation without lifting the cylinder or disturbing connections. Prevents accidental tipping. Hinges open for easy, no-lifting installation.

Model	Description	Dimensions (Dia. × H)	Cylinder Diameter	Item N°
CLR-704	Model 704 Adjustable Stand	470 × 191 mm	152 to 235 mm	30400019

Model 713 Portable Stand

This cast iron portable cylinder stand offers a sturdy cylinder stand and a convenient cylinder dolly all-in-one. This cylinder stand is designed in two interlocking halves and can be installed without lifting the tank. Built-in rubber wheels for easy mobility. Three thumbscrews tightly grip cylinder.

Model	Description	Dimensions (Dia. × H)	Cylinder Diameter	Item N°
CLR-713	Model 713 Portable Stand	394 × 76 mm	178 to 235 mm	30400023

Model 703 Stand   Model 704 Adjustable Stand   Model 713 Portable StandClamp

FLOW CONTROL CLAMPS

LabJaws flow control devices offer selection and quality. They are finely machined to deliver accurate regulation or interruption of fluid flow. Every flow control device resists corrosion and rust. Hosecocks offer easy one-hand operation. Convex bearing surfaces and rounded edges protect tubing. Pinchcocks are designed to quickly start and stop flow and provide complete closure without damaging tubing. Operated with a simple squeeze. Nickel-plated construction (unless otherwise noted).

Regular Hosecock
Adjustment screw with oversized head for accurate regulation. Built-in side lugs for foot mounting. Tubing retainer screw.

Stainless Steel

Model	Min. to Max. Grip	Dimensions (W × H - open)	Item N°
CLF-HKRGS	0 to 17 mm	37 × 62 mm	30392221

Nickel-Plated Zinc

Model	Min. to Max. Grip	Dimensions (W × H - open)	Item N°
CLF-HKRGZ	0 to 17 mm	37 × 62 mm	30392210

MISC. NON-ELECTRICAL PRODUCTS

Inoculating Turntables
OHAUS hand-operated inoculating turntables produce almost concentric circles of bacterial colonies that are evenly distributed across petri dishes. Cast iron turntables are coated with gray baked acrylic enamel.
The 76 mm high, small turntable accommodates 100 mm petri dishes. It has a tripod base to bring work approximately to eye level. It has a center disk covered with non-skid rubber lining.
The large turntable accommodates 100 mm or 150 mm petri dishes. It has a height of only 32 mm ideal for steadying a forearm on the work surface while plating. The large turntable contains two circular sections. The top section has a raised gripper lip as well as a recessed center disk covered with non-skid rubber lining.

| Model	Description	Dimensions (Dia. × H)	Item N°
CLN-INOTTS	Small Turntable	114 × 77 mm	30400046
CLN-INOTTL	Large Turntable	150 × 32 mm	30400047

Slide Staining Rack
Constructed of stainless steel, the OHAUS Slide Staining Rack will resist corrosion under normal use. Adjustable to fit trays or sinks up to 533 mm inside.

Model	Description	Dimensions (L × W)	Item N°
CLN-STNRK	Slide Staining Rack	603 × 89 mm	30400048

Airejector
Rapid air removal evacuates 1 liter of air to 711 mm of vacuum in 30 seconds. Works with compressed air sources to 60 psi. Nickel-plated construction.

Model	Description	Length	Item N°
CLN-AIREJ	Airejector	140 mm	30392367
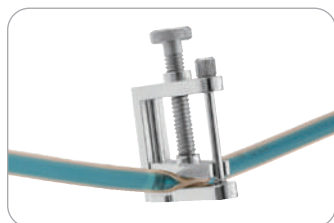
30392221   Inoculating Turntables   Slide Staining Rack   Airejector

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www.ohaus.com

Distributed by: Greyhound Chromatography and Allied Chemicals
6 Kelvin Park
Birkenhead
Merseyside
CH41 1LT
United Kingdom

Tel: +44 (0) 151 649 4000
Fax: +44 (0) 151 649 4001
Email: info@greyhoundchrom.com
Website: www.greyhoundchrom.com

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