

INCUBATING & INCUBATING COOLING SHAKERS SELECTOR GUIDE

	Incubating Cooling Thermal Shakers		Incubating Light Duty Orbital Shaker		
Model	ISTHBLCTS(/N)	ISTHBLHTS(/N)	ISLD04HDG	ISLDMPHDG	ISLDMPHDGL
Temperature Range	17°C below ambient to 100°C	Ambient +4°C – 100°C	Ambient +5°C – 65°C		
Speed Range	300 – 3000 rpm		100 – 1200 rpm		
Timer	1 minute to 99 hours, 59 min		1 second to 160 hours		
Motion	Orbital		Orbital		
Orbit	3 mm		3 mm		
Max Weight Capacity	1 Block		3,6 kg	4 Microplates / 2 Micro-Tube Racks	
Audible Alarm	●		●		
Load Sensor	●				
Drive System	Brushless DC Motor		Triple Eccentric Drive, Brushless DC Motor		
Set-Point Retention	● Displays Last Setting		● Displays Last Setting		
Restart / Power Out	●		●		
Ramp to Speed	●		●		
Temperature Overshoot Protection	●				
Overload Protection	●		●		
Interface	USB				
Overall Dimensions (L×W×H)	26,9×13,7×26,2 cm		43,2×27,0×27,9 cm	43,2×27,9×19,7 cm	
Included Tray (L×W)			27,9×19,7 cm	27,9×19,7 cm	
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	Incubating Cooling Light Duty Orbital Shaker	Incubating Rocking Shaker	Incubating Waving Shaker	Incubating Heavy Duty Orbital Shakers	
Model	ISICMBCDG	ISRK04HDG	ISWV02HDG	ISHD16HDG	ISHD23HDG
Temperature Range	10°C below ambient to 65°C	Ambient +5°C – 65°C	Ambient +5°C – 65°C	Ambient +5°C – 65°C;	
Speed Range	100 – 1200 rpm	1 – 50 rpm	1 – 30 rpm	15 – 500 rpm	
Timer	1 second – 160 hours	1 second – 160 hours	1 second – 160 hours	1 second – 160 hours	
Motion	Orbital	Rocking	Waving	Orbital	
Orbit	3 mm	Tilt Angle: 0 – 15° *	Tilt Angle: 0 – 20° *	19 mm	
Max Weight Capacity	2 Microplates 2 Modular Blocks	4,5 kg**	2,3 kg**	16 kg	22,7 kg
Audible Alarm	•	•		•	
Load Sensor				•	
Drive System	Triple Eccentric Drive, Brushless DC Motor	Cable, Stepper Motor		Triple Eccentric Drive, Brushless DC Motor	
Set-Point Retention	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting	• Displays Last Setting	
Restart / Power Out	•	•		•	
Ramp to Speed	•	•		•	
Temperature Overshoot Protection				•	
Overload Protection	•	•		•	
Interface				RS-232 Interface	
Overall Dimensions (L×W×H)	45,5×26,7×27,9 cm	43,2×26,7×27,9 cm	43,2×26,7×27,9 cm	64,8×40,6×35,6 cm	81,5×59,6×67,5 cm
Included Tray (L×W)		25,4 cm×19,7 cm	23,5 cm×18,4 cm	33×27,9 cm	45,7×45,7 cm
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*Maximum speed/tilt angle may vary with heavy or unbalanced loads.

**Centered on tray.

WHAT IS IN A MODEL NUMBER?

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		

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 (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	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Accuracy	Overall Dimensions (L×W×H) (cm)	Ship Weight (kg)	Item N°
ISTHBLCTSN*	3	Touch	1 Thermal block	300–3000	± 2%	17°C below Ambient – 100°C	± 0,5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C	26,9 × 13,7 × 26,2	5,4	30573842
ISTHBLHTSN*	3	Touch	1 Thermal block	300–3000	± 2%	Ambient +4°C – 100°C	± 1°C between 20°C and 45°C ± 2°C above 45°C	26,9 × 13,7 × 26,2	5,4	30573848
ISTHBLHTS**	3	Touch	1 Thermal block	300–3000	± 2%	Ambient +4°C – 100°C	± 1°C between 20°C and 45°C ± 2°C above 45°C	26,9 × 13,7 × 26,2	5,4	30392005
ISTHBLCTS**	3	Touch	1 Thermal block	300–3000	± 2%	17°C below Ambient – 100°C	± 0,5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C	26,9 × 13,7 × 26,2	5,4	30391998

* Blocks sold separately;

** 24 × 1,5 ml microtubes block (30400130), rack for 24 × 1,5 ml tube blocks (30400251) and cover for 0,5ml / 1,5ml / 2,0ml tube blocks (30400252) included.

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	12,8×8,6×0,25 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

* Supplied with clear rack and cover

Racks and Covers

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

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



30400136



30400250



30400134



30400135

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	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Uniformity	Tray Dimensions (cm)	Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISLD04HDG	3	Digital	3,6 kg	100 – 1200	± 2%	Ambient +5°C – 65°C	± 0,5°C at 37°C	27,9×19,7	Overall: 43,2×27,0×27,9 Inner: 28,7×21,1×14,5	11,1	30391919
ISLDMPHDG	3	Digital	4 Microplates or 2 Micro-tube Racks	100 – 1200	± 2%	Ambient +5°C – 65°C	± 0,5°C at 37°C	27,9×19,7	Overall: 43,2×27,9×19,7	8,9	30391933
ISLDMPHDGL	3	Digital	4 Microplates or 2 Micro-tube Racks	100 – 1200	± 2%	Ambient +5°C – 65°C	± 0,5°C at 37°C	27,9×19,7	Overall: 43,2×27,9×19,7	8,9	30391926



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 Cylcoloy

Design Features

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



ISHD16HDG



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 units are large enough to hold 2 x 6 l Erlenmeyer flasks with optional clamps and platform.

Model	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Uniformity	Tray Dimensions (cm)	Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISHD16HDG	19	Digital	16 kg (75 rpm), 2,3 kg (500 rpm)	15–500	Above 100 rpm ± 1%, Below 100 rpm ± 1 rpm	Ambient +5°C–65°C	± 0,5°C at 37°C	33,0×27,9	Overall: 64,8×40,6×35,6 Inner: 34,0×24,1×30,5	35,9	30573770
ISHD23HDG	25	Digital	22,7kg (125 rpm), 4,53kg (500 rpm)	15–500	Above 100 rpm ± 1%, Below 100 rpm ± 1 rpm	Ambient +5°C–65°C	± 0,5°C at 37°C	45,7×45,7	Overall: 81,5×59,6×67,5 Inner: 52,3×43,2×62,9	101,6	30573775

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	Orbit (mm)	Control	Maximum Weight Capacity	Speed Range (rpm)	Speed Accuracy	Temp. Range	Temp. Uniformity	Overall Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISICMBCDG	3	Digital	2 Microplates or 2 Modular Blocks	Microplates: 100 – 1200 Modular Blocks: 100 – 600	± 2%	10°C below Ambient – 65°C	± 0,5°C at 37°C	45,5×26,7×27,9	13,4	30391940

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	30400156
12/13 mm	5	13,8 mm	48,4 mm	
25 mm	3	26,2 mm	48,4 mm	
Centrifuge Tube Combination				
1,5 ml	4	11,1 mm	39,1 mm	30400193
15 ml	3	17,1 mm	44,5 mm	
50 ml	2	29,0 mm	47,6 mm	
Micro-Tube Combination				
0,5 ml	6	7,9 mm	27,6 mm	30400194
1,5 ml	10	11,1 mm	39,1 mm	
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

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



ISWW02HDG



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	Motion	Control	Maximum Weight Capacity (kg)**	Speed Range (rpm)*	Speed Accuracy (rpm)	Temp. Range	Temp. Uniformity	Dimensions (L×W×H) (cm)	Net Weight (kg)	Item N°
ISRK04HDG	Rocking, 0–15°	Digital	4,5	1–50	±1	Ambient +5°C–65°C	± 0,5°C at 37°C	Overall: 43,2×26,7×27,9 Inner: 27,3×9,7×19,7	5,7 kg	30391975
ISWW02HDG	Waving, 0–20°	Digital	2,3	1–30	±1	Ambient +5°C–65°C	± 0,5°C at 37°C	Overall: 43,2×26,7×27,9 Inner: 27,3×8,6×19,7	5,7 kg	30391982

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

** Centered on tray

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

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°
30×22 cm Universal Platform	Endeavor™ 5000 Light Duty Shakers	30770938
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
46×46 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
29×22 cm Rubber Mat	Endeavor™ 5000 Light Duty Shakers	30770935

Sticky Mat

Description	Used on Shakers	Item N°
22×18 cm Sticky Mat	Endeavor™ 5000 Light Duty Shakers	30770939

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.



30400081

Dedicated Platforms

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.



30400068

Adjustable Platforms

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

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.



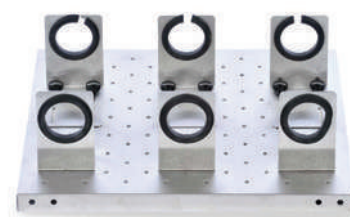
30400071

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
Universal Harness e-E51LD	Endeavor™ 5000 Light Duty Shakers	30770940

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

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

Deep Plate Kit

Optional for e-E51LDMP03 model only to secure 4 Deep Well plates



Deep Plate Kit

Description	Used on Unit	Item N°
Deep Plate Kit, set of 4	Endeavor™ 5000 Microplate Open Air Shaker	30772773

ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

Stainless Steel Flask Clamps

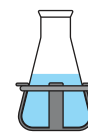
Designed to hold Erlenmeyer flasks from 10 ml to 6 l. Constructed of type 302 and 304 stainless steel. Includes hardware for easy attachment to platforms. Flask clamps 50 ml and higher are supplied with a spring to hold the flask in place. The 2,8 l clamp is designed to hold a Fernbach flask. Media bottle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

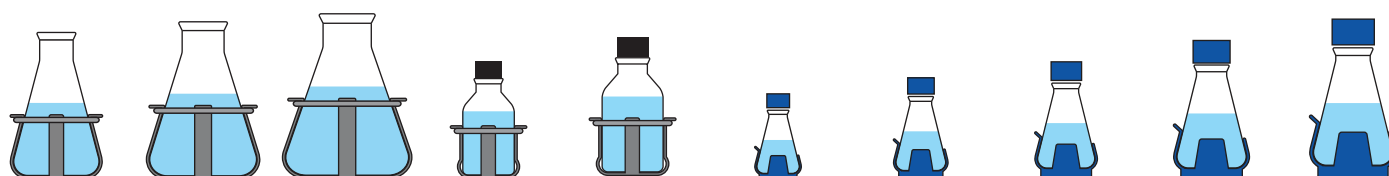
ACCESSORIES FOR OPEN AIR AND INCUBATING SHAKERS

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

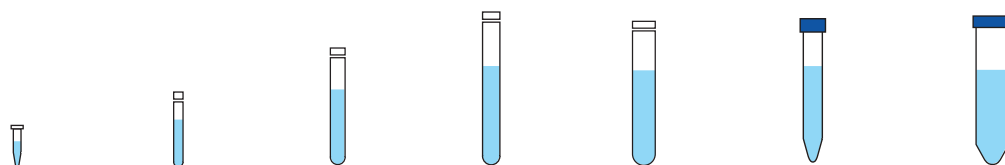
Racks constructed of PVC coated steel. Includes hardware for easy attachment to platforms.

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 N°	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:

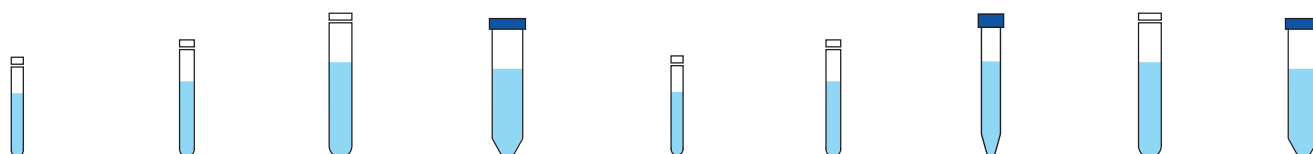
12,7×27,6×12,7 cm



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	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
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