

AH diagnostics

# AN EXTRAORDINARY ADVENTURE

EQUIPMENT



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# AN EXTRAORDINARY ADVENTURE



## EQUIPMENT

• Stirring	
Stirring bars, accessories	1335 to 1339
Magnetic stirrers	1339 to 1342
Refrigerated/heated magnetic stirrers	1343 to 1345
Heating plates	1346 and 1347
Magnetic stirrers for cell culture	1347
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Orbital shakers	1364 to 1369
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Rotary shakers	1382 to 1386
• Baths	
Dry baths, heating and/or cooling blocks, accessories	1388 to 1398
Ultrasonic baths	1399 to 1401
• Scales	1401
• Glove box, weighing table	1402
• Grinders, sample preparation, Stomacher, sonicator	1403 to 1406
• Flasks heaters, burners, electric nozzles	1406 to 1411
• Microcentrifuges	1412 to 1415

# AN EXTRAORDINARY ADVENTURE



## EQUIPMENT

• Laboratory Lift	1416
• Microwave ovens, hybridisation ovens	1416 to 1418
• Cold (mini-refrigerators, mini-freezers, mini-incubators, temperature recorders)	1418 to 1420
• Magnifiers, lamps	1421 to 1425
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• Spectrophotometers, biophotometers	1445
• Sterilizers	1446
• Sieves	1447 to 1449



# MAGNETIC STIRRING BARS

## Magnetic stirring bars with Spinbar pivot ring

Coloured bars with the best efficiency for common uses.

- Ideal for containers with curved bottoms
- Made of pure PTFE, FDA approved
- The octagonal shape enhances the effect of agitation and turbulence
- The welded swivel ring forms an axis eliminating sources of friction and maximising the efficiency of the stirring



### Octagonal models with pivot ring

W x ø (mm)	White	Red	Yellow	Blue	Price
13 x 3	045902	-	-	-	N/A -
13 x 8	045907	045903	045904	045906	N/A -
13 x 10	046088	-	-	-	N/A -
16 x 8	045911	045912	045913	045914	N/A -
22 x 8	045915	045916	045917	045918	N/A -
25 x 8	045919	045920	045921	045922	N/A -
25 x 10	045908	-	-	-	N/A -
28 x 8	046091	-	-	-	N/A -
38 x 8	045923	045924	045925	045926	N/A -
38 x 10	045909	-	-	-	N/A -
41 x 8	045931	-	-	-	N/A -
51 x 8	045927	045928	045929	045930	N/A -
51 x 10	045910	-	-	-	N/A -
64 x 8	045932	-	-	-	N/A -
64 x 10	045905	-	-	-	N/A -
75 x 13	045933	045934	045935	045936	N/A -

### Cylindrical models with swivel ring (white)

W x ø (mm)	Cat. No.	Price	W x ø (mm)	Cat. No.	Price
8 x 3	046010	N/A -	35 x 6	046074	N/A -
12 x 4.5	046065	N/A -	-	-	-
12 x 6	046066	N/A -	40 x 8	046076	N/A -
13 x 8	-	-	45 x 8	046077	N/A -
15 x 4.5	046068	N/A -	50 x 8	046078	N/A -
15 x 8	046069	N/A -	-	-	-
20 x 6	046070	N/A -	60 x 10	046080	N/A -
25 x 6	046071	N/A -	-	-	-
25 x 10	046072	N/A -	70 x 10	046082	N/A -
30 x 6	046073	N/A -	75 x 13	046083	N/A -

## Spinbar Mini stirring bars

W x ø (mm)	White	Red	Yellow	Blue	Price
2 x 2	045945	045947	045946	045948	N/A -
3 x 3	045957	045958	045959	045960	N/A -
5 x 2	045949	045950	045951	045952	N/A -
6 x 3	045961	045962	045963	045964	N/A -
7 x 2	045953	045954	045955	045956	N/A -
8 x 1.5	045937	045938	045939	045940	N/A -
8 x 3	095893	-	-	-	N/A -
10 x 3	045965	045966	045967	045968	N/A -
12.7 x 3	045969	045970	045971	045972	N/A -
15 x 1.5	045941	045943	045942	045944	N/A -
20 x 3	095894	-	-	-	N/A -
30 x 3	095895	-	-	-	N/A -

- For all small containers, bowls, tubes, etc.
- Cylindrical
- PTFE coated
- Choice of colours
- Autoclavable
- Made of pure PTFE, FDA approved



## Cylindrical bars

Cat. No.	W x ø (mm)	Price	Cat. No.	W x ø (mm)	Price
046030	6 x 3	N/A -	046014	30 x 6	N/A -
046031	8 x 3	N/A -	046043	30 x 7	N/A -
046032	10 x 6	N/A -	045994	30 x 8	N/A -
046033	12 x 4.5	N/A -	046044	35 x 6	N/A -
046034	13 x 6	N/A -	046045	40 x 7	N/A -
045992	13 x 8	N/A -	045995	40 x 8	N/A -
046037	15 x 4.5	N/A -	045996	45 x 8	N/A -
046038	15 x 6	N/A -	045997	50 x 8	N/A -
046039	20 x 6	N/A -	045847	57 x 27 big	N/A -
046040	20 x 7	N/A -	045845	60 x 10	N/A -
046041	20 x 8	N/A -	045846	70 x 10	N/A -
046042	25 x 5	N/A -	045844	80 x 10	N/A -
046013	25 x 6	N/A -	045848	108 x 27 big	N/A -
045993	25 x 8	N/A -	045849	159 x 27 big	N/A -

- Perfectly cylindrical
- Smooth
- Economic
- Universal
- Made of pure PTFE, FDA approved



# MAGNETIC STIRRING BARS

## Ultra sideband magnetic stirring bars



White, cylindrical, PTFE-coated stirring bars with a flat side strip for enhanced stirring and turbulence.

### Economic model

Cat. No.	W x ø (mm)	Price
095958	12 x 3	N/A -
095959	25 x 8	N/A -
095960	40 x 8	N/A -
095961	50 x 8	N/A -

Cat. No.	W x ø (mm)	Price	Cat. No.	W x ø (mm)	Price
045973	10 x 6	N/A -	046055	35 x 7	N/A -
046046	12 x 4.5	N/A -	045839	35 x 10	N/A -
046047	13 x 8	N/A -	045978	40 x 8	N/A -
046048	15 x 4.5	N/A -	046058	50 x 7	N/A -
045974	15 x 6	N/A -	045979	50 x 8	N/A -
046012	20 x 6	N/A -	046059	50 x 10	N/A -
045975	20 x 7	N/A -	046060	60 x 7	N/A -
046050	25 x 6	N/A -	045980	60 x 10	N/A -
045976	25 x 8	N/A -	046062	65 x 13	N/A -
046052	25 x 10	N/A -	046063	70 x 10	N/A -
046053	30 x 6	N/A -	046064	75 x 13	N/A -
045977	30 x 7	N/A -	045981	80 x 7	N/A -

## Magnetic ovoid bars



For round bottom containers  
PTFE coated magnetic bars. They have a ringless pivot pin and an ovoid shape which makes them suitable for round-bottomed containers and flasks. Their hexagonal profile reinforces the turbulence.

Cat. No.	W x ø (mm)	For flasks	Price
045982	10 x 5	-	N/A -
045983	15 x 6	-	N/A -
045984	19 x 9.5	10 ml to 100 ml	N/A -
045985	25 x 12	100 ml to 200 ml	N/A -
045986	30 x 16	300 ml to 500 ml	N/A -
045987	35 x 16	300 ml to 500 ml	N/A -
046097	40 x 13	500 ml to 1000 ml	N/A -
045988	40 x 20	500 ml to 1000 ml	N/A -
045989	50 x 20	2000 ml to 3000 ml	N/A -
045990	64 x 20	3000 ml to 5000 ml	N/A -
045991	70 x 20	12 l to 22 l	N/A -

## Triangular magnetic bars



Triangular PTFE magnetic bars. Highly effective in dissolving solids and mixtures by rubbing against the base of the flask.

Cat. No.	W x ø (mm)	Price	Cat. No.	W x ø (mm)	Price
095882	12 x 6	N/A -	085887	50 x 12	N/A -
095883	20 x 8	N/A -	085888	55 x 14	N/A -
095884	25 x 8	N/A -	085889	80 x 18 big	N/A -
046087	25 x 14	N/A -	085890	110 x 36 big	N/A -
095885	35 x 9	N/A -	085891	136 x 36 big	N/A -
085886	40 x 14	N/A -			

## Economic square bars



Angular magnetic bars with high stirring power, especially at slow speeds.

- Economic
- FDA approved PTFE
- Autoclavable

Cat. No.	L x W (mm)	Price
095878	12 x 4	N/A -
095879	25 x 5.5	N/A -
095880	35 x 6	N/A -
095881	50 x 7.5	N/A -

## Asteroid magnetic bars



Ideal for large volumes, viscous liquids and containers with difficult bottoms.

- Samarium Cobalt magnets with PTFE coating
- Prismatic shape with convex faces
- FDA compliant
- Autoclavable



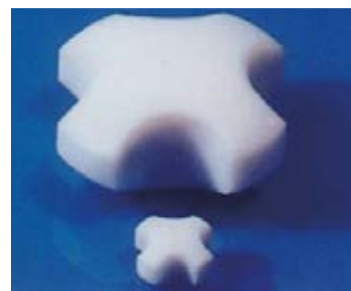
Cat. No.	Model	Dimensions ø x W (mm)	Weight (kg)	Price
699054	Asteroid 25	14 x 25	0.02	N/A -
699035	Asteroid 40	28 x 40	0.06	N/A -
699055	Asteroid 70	39 x 70	0.3	N/A -

# MAGNETIC STIRRING BARS

## Disc bars

- For use in tubes
- In pure PTFE, FDA approved
- Guaranteed inert
- Individually polished to stay clean longer

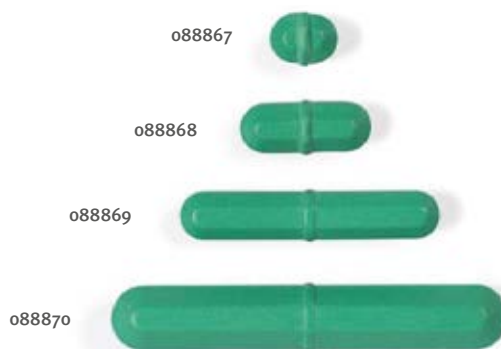
Cat. No.	H x $\phi$ (mm)	Price
098889	6 x 9	N/A -
095890	6 x 10	N/A -
098891	10 x 20	N/A -
095892	12 x 30	N/A -



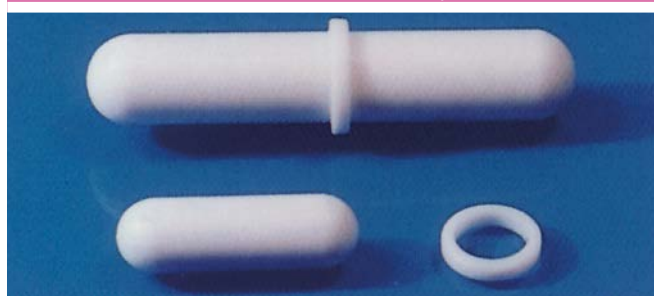
## Magnetic bars for viscous solution

- Ideal for viscous solutions
- Suitable for high speed shaking
- PTFE coated
- The octagonal shape enhances the effect of agitation and turbulence
- Pivot ring prevents friction and maximises agitation

Cat. No.	Description	Width x $\phi$ (mm)	Price
088867	Magnetic bar	13 x 9.5	N/A -
088868	Magnetic bar	25.4 x 9.5	N/A -
088869	Magnetic bar	51 x 9.5	N/A -
088870	Magnetic bar	76 x 13	N/A -



## Bars with removable pivot



- Can be used as a cylindrical or pivot bar
- In pure PTFE, FDA approved
- Guaranteed inert
- Individually polished to stay clean longer

Cat. No.	W x $\phi$ (mm)	Price	Cat. No.	W x $\phi$ (mm)	Price
095919	12 x 8	N/A -	095925	51 x 8	N/A -
-	-	-	095926	51 x 10	N/A -
095920	25 x 8	N/A -	-	-	-
095921	32 x 8	N/A -	095927	75 x 12	N/A -
095922	38 x 8	N/A -	095928	102 x 16	N/A -
095923	38 x 10	N/A -	095929	127 x 16	N/A -
095924	42 x 10	N/A -	095930	150 x 19	N/A -

## Streamlined stirring bars



- For stirring in flat bottom containers
- Stirring bars with cone-shaped body on both sides
- In pure PTFE, FDA approved
- Guaranteed inert
- Individually polished to stay clean longer

Cat. No.	W x $\phi$ (mm)	Price
095931	10 x 4	N/A -
095932	15 x 5	N/A -
095933	20 x 7	N/A -
095934	25 x 8	N/A -
095935	30 x 8	N/A -
095936	35 x 8	N/A -
095937	40 x 8	N/A -
095938	45 x 8	N/A -
095939	50 x 8	N/A -
095941	60 x 8	N/A -
095942	70 x 8	N/A -
095943	80 x 10	N/A -

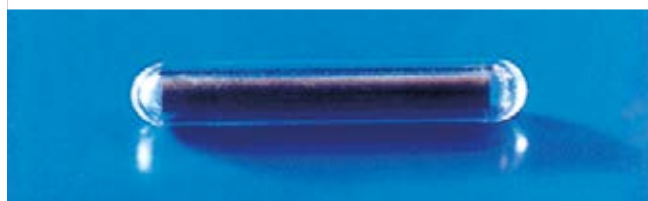
## Cross bars

- Bars creating strong turbulence
- Good stability
- All uses
- In pure PTFE, FDA approved
- Guaranteed inert
- Individually polished to stay clean longer



Cat. No.	$\phi$ x H (mm)	Price
095951	10 x 5	N/A -
095952	20 x 8	N/A -
095953	25 x 9	N/A -
095954	30 x 10	N/A -
095955	38 x 11	N/A -
095956	50 x 15	N/A -
095957	60 x 20	N/A -

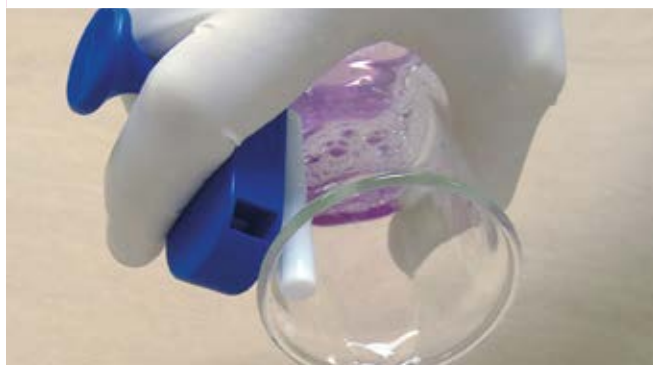
## Glass-coated stirring bars



- For preventing contact with the PTFE
- Cylindrical

Cat. No.	W x $\phi$ (mm)	Price
095910	6 x 5	N/A -
095911	12 x 5	N/A -
095912	25 x 6	N/A -
095913	45 x 8	N/A -
095914	60 x 8	N/A -

## Handle magnet



- Magnetic bar removal magnet
- Polystyrene casing
- Convenient for removing magnets (up to 80 mm long) from all types of containers without dipping in the liquid

Cat. No.	Description	Price
085111	Magnet with handle for retrieving magnetic stirring bar	N/A -

## Komet heavy duty magnetic bars



- High energy samarium cobalt (SmCo) drive magnet
- Exceptional stirring in high speed or viscous media
- Uniform PTFE coating
- Considerable improvement in stirring performance

Cat. No.	Magnetic bar model	Shape	ø x L (mm)	Price
078625	Komet 90, 1 set	Round	24 x 90	N/A -
078626	Komet 50, 1 set	Round	21 x 50	N/A -
078628	Komet 30, 5 set	Round	12 x 30	N/A -
078627	Komet 15, 5 set	Round	9 x 15	N/A -
078631	Protection ring Komet 90, 1 set	Round with protection ring	31 x 90	N/A -
078630	Protection ring Komet 50, 1 set	Round with protection ring	26 x 50	N/A -
078629	Protection ring Komet 30, 1 set	Round with protection ring	17 x 30	N/A -

## Set of assorted stirring bars



Cat. No.	Description	Features	Units/box	Price / the box
085854	Set of 12 white octagonal bars with ring	The classics: 2 bars of each of the following dimensions: W x ø (mm) = 12.7 x 8; 25 x 9.5; 38 x 9.5; 16 x 8; 51 x 9.5; 64 x 9.5	12	N/A -
085855	Set of 22 cylindrical bars with removable bar	The widest range: 2 bars of each of the following dimensions: W x ø (mm) = 12.7 x 9.5; 25 x 8; 51 x 9.5; 12.7 x 8; 19 x 8; 25 x 9.5; 38 x 8; 44 x 8; 51 x 8; and 1 bar of each of the following dimensions: 32 x 8; 32 x 9.5; 38 x 9.5; 44 x 9.5	22	N/A -
085856	Set of 24 coloured octagonal bars with ring	The extra colour: 3 bars (yellow, red, blue) of each of the following dimensions W x ø (mm) = 12.7 x 3; 16 x 8; 22 x 8; 12.7 x 8; 25 x 8; 38 x 8; 51 x 8; 76 x 12.7	24	N/A -
045843	Set of 18 smooth cylindrical bars	Two bars of each of the following dimensions W x ø (mm): 10 x 6; 15 x 6; 20 x 7; 25 x 8; 30 x 8; 40 x 8; 50 x 8; 60 x 10; 80 x 10.	18	N/A -
095962	Set of 12 ovoid bars	Two bars of each of the following dimensions W x ø (mm): 10 x 5; 15 x 6; 25 x 10; 30 x 10; 35 x 13; 50 x 17; 70 x 27.	12	N/A -
095963	Set of 18 ultra sideband bars	Two bars of each of the following dimensions W x ø (mm): 10 x 6; 15 x 6; 20 x 7; 25 x 8; 30 x 7; 40 x 8; 50 x 8; 60 x 7; 80 x 10.	18	N/A -
095964	Set of 12 coloured micro bars	3 bars (blue, red, yellow) of each of the following dimensions W x ø (mm): 8 x 1.5; 5 x 2; 7 x 2; 10 x 3.	12	N/A -
095966	Set of 14 bars	Ten octagonal bars and 4 micro bars: two of each of the following dimensions W x ø (mm): 13 x 8; 15 x 8; 25 x 10; 38 x 10; 51 x 10; 7 x 2; 10 x 3.	14	N/A -



## Set of 6 bars

- > 6 bars in each kit
- > With 2 bars of each size

Cat. No.	Description	Price
085119	Octagonal bar kit (25 x 8, 38 x 8, 51 x 8 mm)	N/A -
085120	Set of cylindrical bars with removable ring (25 x 8, 38 x 8, 51 x 8 mm)	N/A -
085121	Micro bar kit (8 x 1.5, 7 x 2, 10 x 3 mm)	N/A -
085122	Set of coloured bars yellow, red, blue (25 x 7 mm)	N/A -



## Flexible stirring bar retriever

- > Moulded
- > PTFE
- > With Alnico magnet
- > 33 cm long bar
- > Magnet diameter: 12.5 mm or 16.5 mm
- > Magnet length 53 mm
- > Four colours

ø magnet (mm)	White	Red	Blue	Yellow	Price
12.5	086657	086658	086659	086660	N/A -
16.5	086661	086662	086663	086664	N/A -



## Stirring bar retriever

Cat. No.	L x ø (mm)	Material	Price
085857	300 x 10	PP	N/A -
085894	350 x 10	PP	N/A -
095971	450 x 10	PP	N/A -
085892	150 x 10	PTFE	N/A -
085893	250 x 10	PTFE	N/A -
095969	350 x 10	PTFE	N/A -
095970	450 x 10	PTFE	N/A -

Rigid rod with magnetic end for retrieving bars from the bottom of containers.

Made of economical polypropylene (PP) or PTFE with high chemical and thermal resistance.



## Very High resistance

Cat. No.	Description	Price
085859	High-strength PTFE bar ø x W = 27 x 560 mm	N/A -

## ClearLine® mini magnetic stirrer



Capacity (l)	1.5
Speed (rpm)	100 to 1500
Plate size (cm)	8.5 x 8.5
Ext. Dimensions W x D x H (mm)	120 x 120 x 30
Weight (kg)	0.2
Permissible working temperature	45 °C
Power supply (W/V/ Hz)	2/240/50 - 60
Cat. No.	062703CL
Price	N/A -

## Magnetic induction stirrer



- > Quiet operation
- > Programmable, digital display that controls time and speed
- > Optional auto reverse rotation mode for more efficient stirring
- > Speed remains constant, even when load changes
- > Speed adjustments are made quickly (less than 10 seconds)
- > Supplied with 2 magnetic bars 35 x 12 mm and a mains plug with 4 adapters

Stirring capacity (l)	3
Speed (rpm)	10 - 2000
Material	ABS
Stirring plate diameter (mm)	160
Dimensions L x W x H (mm) / Peso (kg)	245 x 195 x 75 / 1.13
Stirring mode	30 sec to 60 min or continuous
Programming	30 sec to 60 min and 1-99 cycles
Power supply (V / A / W)	100 - 240 V / 1.5 / 18
Grey / purple	320678
Grey / blue	320679
Price	N/A -

# MAGNETIC STIRRERS

## Magnetic stirrer MMS-3000 Grant-Bio



Stirring capacity (l)	20
Speed (rpm)	0-3000
Materials / Plate diameter (mm)	Stainless steel / Ø 160
Dimensions L x W x H (mm) / Peso (kg)	165 x 200 x 65 / 1.5
Power supply (W / Hz / V)	- / - / 12
Cat. No.	144591
Price	N/A -

## Magnetic stirrer 2 litres Benchmark



- Efficient and economical
- Ceramic surface
- Capacity: 2 litres
- Speed: 60 to 1500 rpm
- Plate L x W (mm): 190 x 190
- L x W x H ext.: 200 x 230 x 115 mm
- Weight: 4 kg

Cat. No.	Description	Price
062518	Benchmark magnetic stirrer	N/A -

## Mini magnetic stirrer with electrode holder



- ABS plastic plate
- Compact and lightweight
- SpeedSafe safety system: prevents high engine acceleration when the load is abruptly removed
- Supplied with detachable electrode holder and magnetic bar
- Adjustable speed

Max. Stirring capacity (l)	1
Speed (rpm)	100 - 1000
Materials/Plate Diameter (mm)	ABS plastic/ Ø 137
Dimensions L x H (mm)	134 x 51
Weight (kg)	0.64
Operating conditions	0 to 50 °C, max 95 % humidity
Power supply	200/240 V, 50/60 Hz

Colours	Black	Arctic White	Blue	Moss green	Coal	Ivory	Orange	Lavender	Ice Blue	Green	Yellow
Cat. No.	054627	054628	054629	054630	054631	054632	054633	054634	054635	054636	054637
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

## Magnetic stirrer 20 litres



- Ceramic coating tray
- Protection class: IP 42

Model	Analogue ceramic plate
Stirring capacity (l)	20
Speed (rpm)	0-1500
Number of stirring stations	1
Materials /Plate size (mm)	Ceramic Ø 135
L x W x H (mm) / Weight (kg)	200 x 130 x 65 / 2.4
Permissible amb. T° (°C)	5 to 40
Permissible relative humidity (%)	80
Type of protection	IP 42
Power supply (W / Hz / V)	20 / 50-60 / 85 -265
Cat. No.	861007B
Price	N/A -

## Analogue magnetic stirrer 30 l Stuart



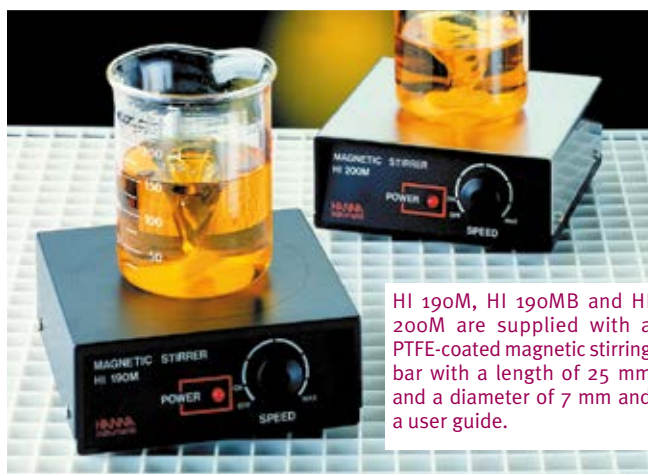
- Robust construction with stainless steel surface
- Powerful magnets for strong magnetic torque
- Supplied with a 1 x 100 mm PTFE magnetic bar

Stirring capacity (l)	30
Speed (rpm)	100 - 600
Plate material	Stainless steel
Plate size (mm)	300 x 300
Dimensions W x D x H (mm)	328 x 369 x 103
Weight (kg)	5
Power supply	230 V / 50 Hz / 50 W
Cat. No.	673423
Price	N/A -

# MAGNETIC STIRRERS

## Magnetic mini stirrer

- Compact and lightweight agitators
- Speedsafe function prevents engine acceleration when the load is abruptly removed to prevent engine damage
- Model HI 190M delivered with plastic plate
- Model HI 200M supplied with AISI 316 stainless steel plate
- HI 190MB supplied without mains plug, please order mains adapter separately
- Warranty: 3 years



HI 190M, HI 190MB and HI 200M are supplied with a PTFE-coated magnetic stirring bar with a length of 25 mm and a diameter of 7 mm and a user guide.

Model	HI 190M	HI 190MB	HI 200M
Stirring capacity (l)	1	1	1
Speed (rpm)	100-1000	100-1000	100-1000
Material	ABS plastic	ABS plastic	Stainless steel AISI 316
Dimensions L x W x H (mm)	120 x 120 x 45	120 x 120 x 45	120 x 120 x 45
Weight (kg)	0.64	0.61	0.71
Max. length of magnetic bar (mm)	25	25	25
Permissible amb. T° (°C)	0 to 50	0 to 50	0 to 50
Permissible relative humidity (%)	95	95	95
Power supply (W / Hz / V)	50-60 / 220-240	12V DC	50-60 / 220-240
Cat. No.	052049	052211	052212
Price	N/A -	N/A -	N/A -

### Accessory

Cat. No.	Description	Price
052213	12 V adapter (for HI 190MB only)	N/A -

## RT Basic and RT Touch magnetic stirrers

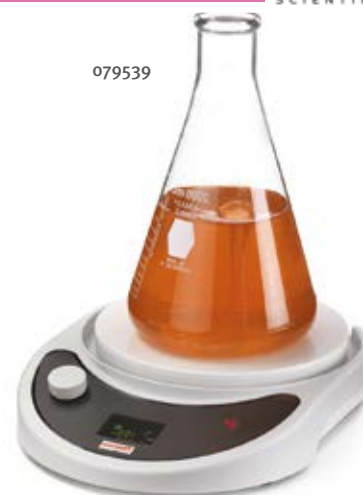
**Thermo**  
SCIENTIFIC

- Small and lightweight devices
- Strong magnetic torque
- Touch version with graduated start to avoid splashing
- Supplied with two non-slip silicone trays (one white, one black)
- Warranty: 2 years

Model	RT Basic 120	RT Basic 170	RT Basic 220	RT Touch 170	RT Touch 220
Type of control	Analog			Digital	
Stirring capacity (l)	2	4	5	4	5
Speed (rpm)	150 - 2500			30 - 2000	
Plate material	Stainless steel with anti-slip silicone coating				
Plate size (mm)	120	170	220	170	220
Dimensions L x W x H (mm)	130 x 130 x 65	185 x 185 x 65	230 x 230 x 65	210 x 280 x 72	260 x 360 x 72
Max. permissible capacity (kg)	15	20	25	20	25
Power supply (W / Hz / V)	6 / 50-60 / 100-240				
Cat. No.	079536	079537	079538	079539	079540
Price	N/A -	N/A -	N/A -	N/A -	N/A -

### Accessories

Cat. No.	Description	Price
079542	Non-slip silicone plate cover for 120 mm plate	N/A -
079543	Non-slip silicone plate cover for 170 mm plate	N/A -
079544	Non-slip silicone plate cover for 220 mm plate	N/A -
079541	Support Rod for RT Touch Hotplate stirrer	N/A -
079545	Clamp holder 12 mm for support rod	N/A -
079546	Clamp holder 12 mm for support rod	N/A -



079539



079536

## VELP magnetic stirrers



MST



Microstirrer



ESP

Model	MST	Microstirrer	ESP
Special feature	Low heat emission, cool surface even after several days of continuous use		Motorless, maintenance-free
Stirring capacity (l)	5	5	5
Maximum speed (rpm)	1100	1100	1100
Material	Technopolymers	Epoxy painted metal	Technopolymers
L x D x H (mm)	130 x 150 x 50	120 x 128 x 48	160 x 230 x 33
Weight (kg)	0.4	0.55	0.9
Power supply	100-240V, 50-60 Hz, 0.6W	100-240V, 50-60 Hz, 0.6W	100-240V, 50-60 Hz, 5W
Cat. No.	399000B	399001	399002
Price	N/A -	N/A -	N/A -

### Recommended bars

Cat. No.	Ø x W (mm)	For stirrer	Price
046039	6 x 20 mm	MST, MICROSTIRRER	N/A -
046044	6 x 35 mm	MST, MICROSTIRRER	N/A -
045995	10 x 40 mm	ESP	N/A -

## Magforce Centrifuge / Magnetic stirrer



### Supplied with:

- a rotor for magnetic stirring
- 1 rotor for 12 tubes 1.5/2 ml
- 1 rotor for 6 tubes 5 ml
- 12 adapters for 0.2 ml tubes
- 12 adapters for 0.5 ml tubes
- 2 PTFE magnetic bars 40 x 12 mm
- 2 silicone mats suitable for the magnetic stirring lid
- Power adapter

- Centrifuge and magnetic stirrer in one
- Digital display, single button programming
- Ultra quiet
- Compact

### Centrifuge function

Speed (rpm)	500-999 (increments of 1); 1000-5000 (increments of 5); 5000-12500 (increments of 25)
RCF acceleration (g)	16-9783
Capacity	Rotor 12 tubes 1.5/2ml or rotor 6 tubes 5ml
Timer	30 seconds to 30 minutes (5 second increments)

### Magnetic stirring function

Speed (rpm)	50-999 (increments of 1); 1000-2500 (increments of 5)
Timer	Stirring mode: 30 seconds to 60 minutes or continuous (5 second increments) Oscillation mode: 1 second to 60 minutes or continuous Oscillation mode: 30 seconds to 15 minutes
Capacity (l)	3
Plate Diameter (mm)	130
Weight (kg)	1.85
Operating temperature	2 to 40 °C
Power supply (Hz/V)	5-60/100 - 240
Dimensions (cm)	23.5 x 18.5 x 12
Grey / purple	<b>320681</b>
Grey / blue	<b>320682</b>
Price	N/A -

## Benchmark 2 litre Hot plate magnetic stirrer



- Ceramic surface with good chemical resistance
- Capacity: 2 litres
- Stirring speed: 60 to 1500 rpm
- Temperature: amb. + 5 to 80 °C
- Plate L x W (mm): 190 x 190
- Ext. dimension L x W x H: 200 x 230 x 115 mm
- Weight: 4 kg

Cat. No.	Description	Price
062516	Benchmark Hot plate Magnetic Stirrer	N/A -

## 2 litre Hot plate magnetic stirrer



- Ceramic-coated stainless steel plate
- Heating power: 800 W
- Supplied with a 25 cm stainless steel rod

Stirring capacity (l)	2
Speed (rpm)	60-1500
Material	Ceramic-coated stainless steel
Dimensions L x W x H (mm)	205 x 260 x 110
Max. length of the magnetic stirring bar (mm)	Ø 30
Heating temperature (°C)	60 to 420
Cat. No.	<b>079037</b>
Price	N/A -

## RT2 Basic and RT2 Advance Hot plate magnetic stirrers and RT2 hot plate

- ▶ Hot surface warning light, heating cut-off above 450 °C
- ▶ Warranty: 2 years
- ▶ Digital display
- ▶ RT2 Advance Hot plate stirrer and RT2 Hot plate: PID controller, ensuring precise temperature control
- ▶ Three temperature control modes: optimal, fast, slow

	RT2 Basic	RT2 Advance	RT2
			
Stirring capacity (l)	20		-
Speed (rpm)	50 - 2000	30 - 2000	
Temperature range	Ambient, 50 to 350 °C		
Heating control	Scale	Feedback control with PID	
Plate material	Ceramic-coated aluminium		
Plate Diameter (mm)	140		
Ext. dimensions (W x D x H) (mm)	161 x 290 x 100		
Maximum load (kg)	25		
Power supply (W/ Hz/V)	600, 230, 50/60		
Cat. No.	079575	079576	079574
Price	N/A -	N/A -	N/A -

### Accessories (\*only for RT2 Advance)

Cat. No.	Description	Price
079577	Water Bath	N/A -
079578	Transparent polycarbonate shield	N/A -
079541	Support rod diameter 12 mm, length 400 mm	N/A -

Cat. No.	Description	Price
079545	Clamp holder 12 mm for support rod	N/A -
079546	Three finger clamp 60 mm for support rod	N/A -
079579	PT100 temperature sensor, SN-8-4 connector *	N/A -
079580	Temperature sensor PT100, class A, 400 °C *	N/A -

## SUPER NUOVA + Hot plate magnetic stirrers

- ▶ Digital display of target and current temperature, speed and timer settings
- ▶ Programmable with parameter memory
- ▶ Temperature adjustable in 1 °C increments
- ▶ Indicator light when the temperature of the plate exceeds 50 °C
- ▶ StirTrac system provides high magnetic torque for increased efficiency at low speeds
- ▶ Hot plate models supplied with PT1000 temperature sensor and stand
- ▶ Warranty: 3 years

Stirring capacity (l)	4	4	6
Speed (rpm)	50 - 1500		
Temperature range	30 - 540 °C	30 - 300 °C	30 - 400 °C
Temp. accuracy	± 5 °C		
Temperature uniformity	± 2 °C		
Plate material	Ceramic	Aluminium	Ceramic
Plate dimensions W x D (mm)	184 x 184	184 x 184	260 x 260
Dimensions W x D x H (mm):	208 x 330 x 97	208 x 330 x 97	287 x 411 x 102
Weight (kg)	5	4.9	6
Power supply	220-240 V / 4.4 A		220-240 V / 4.6 A
Cat. No.	078547B	078548B	078549B
Price	N/A -	N/A -	N/A -



Hot plate  
(see page 1346-1347)

# HOT PLATE MAGNETIC STIRRERS

## Magnetic stirrers and Hot plate stirrers CIMAREC +



**Thermo**  
SCIENTIFIC

- Digital display of temperature and speed parameters
- Temperature adjustable in 1 °C increments
- Indicator light when the temperature of the plate exceeds 50 °C
- StirTrac system provides high magnetic torque for increased efficiency at low speeds
- Warranty: 3 years



Hotplate  
(see page 1346-1347)

### Magnetic stirrers

Stirring capacity (l)	1	4	6
Speed (rpm)	50 - 1500		
Plate material	Ceramic	Ceramic	Ceramic
Plate dimensions W x D (mm)	108 x 108	184 x 184	260 x 260
Dimensions W x D x H (mm):	127 x 254 x 91	208 x 330 x 97	287 x 411 x 102
Weight (kg)	3.1	4.9	6
Power supply	220-240 V / 0.1 A		
<b>Cat. No.</b>	<b>078536B</b>	<b>078537B</b>	<b>078539B</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>

### Hot plate magnetic stirrers

Stirring capacity (l)	1	4	4	6
Speed (rpm)	50 - 1500			
Temperature range	30 - 540 °C	30 - 540 °C	30 - 300 °C	30 - 400 °C
Temp. accuracy	± 5 °C			
Temperature uniformity	± 2 °C			
Plate material	Ceramic	Ceramic	Aluminium	Ceramic
Plate dimensions W x D (mm)	108 x 108	184 x 184	184 x 184	260 x 260
Dimensions W x D x H (mm):	127 x 254 x 91	208 x 330 x 97	208 x 330 x 97	287 x 411 x 102
Weight (kg)	3.2	5	4.9	6.1
Power supply	220-240 V / 1.6 A	220-240 V / 4.4 A	220-240 V / 4.6 A	
<b>Cat. No.</b>	<b>078543B</b>	<b>078544B</b>	<b>078545B</b>	<b>078546B</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>

## 20 litre Hot plate magnetic stirrer with digital display



- Digital display
- Ceramic-coated stainless steel plate

Model	HTS-2013
Stirring capacity (l)	20
Speed (rpm)	80-1500
Material/ Plate size (mm)	Ceramic-coated stainless steel 180 x 180
Dimensions L x W x H (mm) / Peso (kg)	307 x 206 x 99 / 3.3
Heating temperature ( °C)	18 to 380
Power supply (W / Hz / V)	- / 50-60 / 220
<b>Cat. No.</b>	<b>088921</b>
<b>Price</b>	<b>N/A -</b>

## 20 litres Hot plate magnetic stirrer



- Stainless steel plate with ceramic coating
- Protection class: IP 42
- Analogue or digital display
- Stirring station: 1

Display	Analog	Digital
Plate Ø	135	
Stirring capacity (l)	20	
Speed (rpm)	0-1500	100-1500
Dim. L x W x H (mm)	280 x 160 x 85	280 x 160 x 85
Heating temperature ( °C)	340	340
Permissible amb. T°	5-40 °C	5-40 °C
Permissible relative humidity	80 %	80 %
Type of protection	IP 42	IP 42
Power supply (W/ Hz/V)	530/50-60/220	550/50-60/220
Weight (kg)	2.8	2.8
<b>Cat. No.</b>	<b>861049B</b>	<b>861010B</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

## ARE and AREX Hotplate magnetic stirrers and RC VELP hotplate

Model	AER	AREX
Stirring capacity (l)	15	20
Speed (rpm)	1500	
Temperature range	Ambient at + 370 °C	
Thermoregulator port	No	Yes
Ø plate (mm)	155	
Plate materials	Aluminium	Aluminium with ceramic coating
Digital display	No	
L x D x H (mm)	165 x 280 x 115	
Weight (kg)	2.6	
Power supply	230 V, 50 - 60 Hz, 630 W	
Protection class	IP42	
<b>Cat. No.</b>	<b>399003B</b>	<b>399004B</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

\* Supplied with PT1000 sensor, not compatible with VTF thermoregulator

- Separate control panel from the plate for increased durability
- AREX model with connection for thermoregulator
- Compatible with AluBlock plates for conversion into a heating block



### VTF thermoregulator for AREX

Temperature range	-10 to 300 °C
Resolution	0.2 °C
Accuracy	± 0.5 °C
Timer	Up to 24 h 59 min
Protection class	IP 54
Dimensions (mm)	75 x 120 x 145
Weight (kg)	0.3
<b>Cat. No.</b>	<b>399024</b>
<b>Price</b>	<b>N/A -</b>

### AREX Pack

Cat. No.	Description	Price
<b>399041</b>	AREX Hotplate stirrer + VTF thermoregulator pack + stand (thermoregulator support)	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
<b>399025</b>	Probe extension cable 1 m (for VTF)	<b>N/A -</b>
<b>399026</b>	Glass probe (for VTF)	<b>N/A -</b>
<b>399590</b>	Clamping nut for temperature probe for AREX 6	<b>N/A -</b>
<b>399022</b>	AluBlock base	<b>N/A -</b>
<b>399023</b>	Cable for thermoregulator**	<b>N/A -</b>
<b>399014</b>	Support rod for thermoregulator	<b>N/A -</b>

\*\* except for VTF thermoregulator

### RC VELP hot plate

Compatible with AluBlock plates for conversion to a heating block.

Temperature range	Ambient at + 370 °C
Plate materials	Aluminium alloy with coating
Ø plate (mm)	155
Dimensions (W x D x H) (mm)	165 x 115 x 280
<b>Cat. No.</b>	<b>399038</b>
<b>Price</b>	<b>N/A -</b>

### AluBlocks

Cat. No.	Colours	Capacity tubes	Diameter (mm)	Height (mm)	Price
<b>399015</b>	Green	4	28	30	<b>N/A -</b>
<b>399016</b>	Red	4	21.60	31.70	<b>N/A -</b>
<b>399017</b>	Black	4	28	24	<b>N/A -</b>
<b>399018</b>	Orange	4	28	43	<b>N/A -</b>
<b>399020</b>	Blue	6	17.80	26	<b>N/A -</b>

## AM4 and AM4X VELP Hot plate magnetic stirrers

Stirring capacity (l)	15 (x 4)
Maximum speed (rpm)	1500
Temperature range	Ambient at 370 °C
Shaking position	4
Plate diameter (mm)	135
Weight (kg)	8.3
Dimensions L x D x H (mm)	715 x 246 x 115
<b>AM4 Cat. No.</b>	<b>399047</b>
<b>Price</b>	<b>N/A -</b>
<b>AM4X Cat. No.</b>	<b>399056</b>
<b>Price</b>	<b>N/A -</b>

- Aluminium alloy hot plate
- Model AM4X with connection for thermoregulator



# HOT PLATES

## Benchmark hot plate



- Efficient and economical
- Ceramic surface
- Temperature: amb. + 5 to 80 °C
- Plate L x W (mm): 190 x 190
- Ext. dimension L x W x H: 200 x 230 x 115 mm
- Weight: 4 kg

Cat. No.	Description	Price
062517	Benchmark hot plate	N/A -

## 37 °C CultureTemp hot plate



Improves the viability of cells outside the incubator by keeping them at 37 °C, for the efficient functioning of enzymes such as trypsin.

- Made of UV-resistant polypropylene
- Anodised aluminium hot plate
- Water resistant, washable with ethanol and isopropanol
- Device dimensions (W x L x H) mm: 254 x 249 x 57
- Plate dimensions (W x L) mm: 178 x 203
- Power supply: 220 V

Cat. No.	Description	Price
088875	37 °C CultureTemp hot plate	N/A -

## Corning® Heated plates and stirrers



- Plate in Pyroceram™
- Hot top: lights up when the temperature of the range is > 60 °C
- Temperature setting in 5 °C steps
- Possibility of temperature control by external sensor
- Warranty: 2 years

Model	PC-400D	PC-420D	PC-600D	PC-620D
Dim L x W x H (mm)	108 x 197 x 280		118 x 197 x 391	
Plate size (mm)	127 x 178		254 x 254	
Temperature range	Ambient temperature +5 °C to 550 °C			
Stirring speed (rpm)	-	60 - 1150	-	60 - 1150
Weight (kg)	2.7	3.2	4.5	5.2
Power supply	230 V/50 Hz/628 W		230 V/50 Hz/1113 W	
Max. capacity (kg)	11			
Cat. No.	679663	679665	679666	679668
Price	N/A -	N/A -	N/A -	N/A -

### Accessory

Cat. No.	Description	Price
006795PR	External temperature sensor	N/A -

## RC VELP hot plate



Compatible with AluBlock plates for conversion to a heating block.

Temperature range	Ambient at + 370 °C
Plate materials	Aluminium alloy with coating
Ø plate (mm)	155
Dimensions (W x D x H) (mm)	165 x 115 x 280
Weight (kg)	1.4
Power supply	230V, 50 - 60 Hz
Protection class	IP 42
Cat. No.	399038
Price	N/A -

### AluBlocks

Cat. No.	Colours	Diameter (mm)	Height (mm)	Price
399015	Green	28	30	N/A -
399016	Red	21.60	31.70	N/A -
399017	Black	28	24	N/A -
399018	Orange	28	43	N/A -
399020	Blue	17.80	26	N/A -

### Accessory

Cat. No.	Description	Price
399022	AluBlock base	N/A -



## CIMAREC + heating plates

- Digital temperature display
- Temperature adjustable in 1 °C increments
- Indicator light when the temperature of the plate exceeds 50 °C
- Warranty: 3 years

Temperature range	30 - 540 °C	30 - 540 °C	30 - 300 °C	30 - 400 °C
Temp. accuracy	± 5 °C			
Temperature uniformity	± 2 °C			
Plate material	Ceramic	Ceramic	Aluminium	Ceramic
Plate dimensions W x D (mm)	108 x 108	184 x 184	184 x 184	260 x 260
Dimensions W x D x H (mm):	127 x 254 x 91	208 x 330 x 97	208 x 330 x 97	287 x 411 x 102
Weight (kg)	2.5	4.3	4.2	5.4
Power supply	220-240 V / 1.6 A	220-240 V / 4.4 A		220-240 V / 4.6 A
Cat. No.	078529B	078530B	078531B	078532B
Price	N/A -	N/A -	N/A -	N/A -

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## SUPER NUOVA + hot plates

- Digital display of target and current temperature settings and timer
- Programmable with parameter memory
- Temperature adjustable in 1 °C increments
- Indicator light when the temperature of the plate exceeds 50 °C
- Supplied with PT1000 temperature sensor and stand
- Warranty: 3 years

Temperature range	30 - 450 °C	30 - 300 °C	30 - 400 °C
Temp. accuracy	± 5 °C		
Temperature uniformity	± 2 °C		
Plate material	Ceramic	Aluminium	Ceramic
Plate dimensions W x D (mm)	184 x 184	184 x 184	260 x 260
Dimensions W x D x H (mm):	208 x 330 x 97	208 x 330 x 97	287 x 411 x 102
Weight (kg)	4.3	4.2	5.4
Power supply	220-240 V / 4.4 A		220-240 V / 4.6 A
Cat. No.	078533B	078534B	078535B
Price	N/A -	N/A -	N/A -

Thermo  
SCIENTIFIC



## MultiMagStir Genie™ Multi-position stirrer

- Stirrer for 4 containers - and for cell culture
- Wide speed range, from 10 to 1200 rpm
- Stirring in intervals or reverse stirring
- Easy programming in manual or automatic mode
- Can be stored for future use
- Can be used in an environment of 0 °C to 38 °C
- All parameters, time, pause time, speed, stirring direction, speed increase are easily programmable (9 separate steps)
- Three power levels for stirring viscous liquids
- Can be used in a cold room or incubator
- 4 programming modes (manual mode allows the choice of normal or reverse agitation, and timer functions; automatic mode activates one of four user profiles stored in memory)
- Each profile allows the creation of a protocol containing up to 9 steps
- Maximum diameter of the flasks for using the stirrer with 4 flasks: 130 mm

Stirring capacity (l)	4 containers
Speed (rpm)	10-1200
Dimensions L x W x H (mm) / Peso (kg)	375 x 325 x 48 / 3.2
Permissible amb. T° (°C)	0 to 38
Cat. No.	079061
Price	N/A -



# VORTEX MIXERS

## ClearLine® Miniature vortex stirrer

- ▶ Miniature model
- ▶ Activation by pressure
- ▶ Warranty: 2 years



Speed (rpm)	2800
Amplitude (mm)	4
Operating temperature	4 to 65 °C
Dim W x L x H (mm)	94 x 99 x 66
Weight (kg)	0.4
Power supply	100 - 240 V / 50 - 60 Hz
Colour	Grey
Cat. No.	062599CL
Price	N/A -

## Mini vortex SA6

- ▶ High stability due to suction feet and internal counterbalance system
- ▶ Compact
- ▶ Adjustable speed
- ▶ Activation by pressure



Speed (rpm)	2500 to 4500
Orbital Amp. (mm)	4.5
tubes Ø (mm)	Up to 30
Dim. W x D x H (mm)	100 x 100 x 67
Weight (kg)	0.55
Power supply	100 - 240 V, 50 - 60 Hz, 15 W
Cat. No.	491342
Price	N/A -

## Vortex Lab Dancer mini-shaker



- ▶ Suitable for tubes up to 30 mm in diameter (test tubes, centrifuge tubes, microtubes, etc.)
- ▶ Compact design
- ▶ Excellent efficiency



Movement	Orbital
Orbital amplitude	4.5 mm
Stirring capacity (1 test tube)	Max 50 ml
Motor power input/output	1.2 W / 0.8 W
Fixed speed for Lab Dancer	2800 tr/min

Cat. No.	Model	Dimensions (mm)	Price
250097	Lab Dancer	100 x 700	N/A -

## Vortex 1 IKA



- ▶ Single-tube vortexer with Pulse function
- ▶ For low volume mixing
- ▶ Adjustable speed



Movement	Orbital
Orbit diameter (mm)	4.5
Maximum stirring volume (ml)	100
Power (W)	1.2/0.8
Stirring speed (rpm)	1000 to 2800
Dimensions W x D x H (mm)	95 x 110 x 70
Weight (kg)	0.55
Cat. No.	250248
Price	N/A -

## Mini vortex iSwix



- ▶ Compact
- ▶ Activation by pressure
- ▶ For tubes with diameters up to 30 mm
- ▶ Can be used in cold chamber



Model	I Swix JR. VT
Variable speed	Yes
Speed (rpm)	2500 to 4500
Orbit (mm)	4.5
Dimensions W x D x H (mm)	100 x 100 x 67
Weight (kg)	0.55
Cat. No.	111446
Price	N/A -

# VORTEX MIXERS

## Vornado Mini Vortex Mixer

- ▶ Minimum dimensions, less than 10 cm wide
- ▶ Activation by pressure
- ▶ 5 Colours available
- ▶ Warranty: 2 years



Speed (rpm)	2800
Stirring amplitude (mm)	4
Operating temperature	+4 °C to +65 °C
Dimensions (W x L x H) (mm)	94 x 99 x 66
Weight (kg)	0.4
Power supply	100 - 240 V, 50 - 60 Hz
Grey Cat. No.	062599
Blue Cat. No.	062600
Green Cat. No.	062601
Purple Cat. No.	062602
Red Cat. No.	062603
Price	N/A -

## Mini Vortex red

- ▶ Mini mixing shaker
- ▶ Compact
- ▶ Stable
- ▶ Comes standard with a red head
- ▶ Warranty: 2 years



Speed (rpm)	0-3000
Max. tube volume (ml)	50
Max. tube Ø (mm)	30
Dimensions Ø x H (mm)	95 x 85
Weight (kg)	0.55
Power (V/ Hz)	100-240 / 50-60
Colours	Red
Cat. No.	141332B
Price	N/A -

### Replacement head attachment

Cat. No.	Colours	Price
141360	Green	N/A -

## BenchMixer™ Vortexer

- ▶ Pulse and continuous button
- ▶ Variable speed from 200 to 3200 rpm

Speed	200 to 3200 rpm
Operating mode	Pulse or continuous button
Working temperature	+4 °C to +65 °C
Dimensions (mm)	130 x 160 x 170
Weight (kg)	3.8
Power supply	230 VAC 50 Hz 0.75 A
Warranty	2 years

Cat. No.	Description	Price
060900	BenchMixer Vortexer 230 V / 50 Hz	N/A -
060901	Head diameter 7 cm	N/A -
060902	Combo head for 68 microtubes* or 1 microplate	N/A -

\* 38 microtubes 1.5 ml / 2 ml and 28 microtubes 0.5 ml



## LSE Corning® Vortex

- ▶ For all types of tubes and plates (many accessories available)
- ▶ Variable speed from 0 to 2850 rpm
- ▶ Optimised to minimise vibration

Speed (rpm)	0 - 2850
Dimensions W x D x H (mm)	140 x 160 x 130
Operating mode	Continuous / Manual
Weight (kg)	2.2
Power supply	230 V, 50/60 Hz
Cat. No.	006776
Price	N/A -

### Accessories

Cat.No.	Description	Price
00480101	Head attachment for tube 24 x 1.5/2 ml, 24 x 0.5 ml and 32 x 0.2 ml	N/A -
00480102	Head attachment for 1 microplate or 64 tubes 0.2 ml or strips 8 x 0.2 ml	N/A -
00480103	Head attachment for 8 tubes 15 ml and 8 tubes 12/13 mm	N/A -
00480104	Head attachment for 6 tubes 50 ml	N/A -
00480105	Head attachment for 12 tubes 1.5/2 ml	N/A -
00480106	Head attachment for 4 tubes 15 ml	N/A -
00480107	Head attachment for 2 tubes 50 ml	N/A -



# VORTEX MIXERS

## Vortex mixer VX-200



For shaking, mixing and vortexing all types of tubes with the CombiCup™ head (non-slip TPE)

- ▶ Many accessories available
- ▶ Circular orbit for better vortexing at low speed
- ▶ Lightweight, portable
- ▶ Adjustable speed
- ▶ Optimised to minimise vibration

Speed (rpm)	0 - 2850
Operating mode	Continuous or manual
Ambient temperature range	4 °C to 65 °C
Dimensions (L x D x H)	14 x 16 x 13 cm
Weight	2.2 kg
Voltage	120 ou 230 V, 50/60 Hz

Cat. No.	Description	Price
096596	Vortex mixer VX 200 230 V	N/A -

### Accessories

Cat. No.	Description	Price
096598	Head attachment for tubes 24 x 1.5/2.0 ml, 24 x 0.5 ml, 32 x 0.2 ml	N/A -
096599	Head attachment for 1 microplate or 64 tubes 0.2 ml or bars 8 x 0.2 ml	N/A -
096600	Head attachment for 8 tubes 15 ml and 8 tubes 12/13 mm	N/A -
096601	Head attachment for 6 tubes 50 ml	N/A -
096602	Head attachment for 12 tubes 1.5/2.0 ml	N/A -
096603	Head attachment for 4 tubes 15 ml	N/A -
096604	Head attachment for 2 tubes 50 ml	N/A -



## Vortex V-3



- ▶ Very high stability due to its half-sphere shape
- ▶ Pulse or continuous operation
- ▶ Silent operation
- ▶ Head attachment for 0.5 to 50 ml tubes as accessory (to be ordered separately)

Speed	50 to 3000 rpm
Amplitude	4 mm
Dimensions	130 x 60 mm
Power adapter	220-230V/12 VDC
Weight	0.6 kg

Cat. No.	Description	Price
065524	Vortex V-3	N/A -
065527	Adapter for 9 Eppendorf-type microtubes	N/A -
065526	Head attachment for tubes 0.5 to 50 ml	N/A -

## Vortex-Mixer V-1 Plus



- ▶ For tubes and microtubes from 1.5 ml to 50 ml
- ▶ Very small footprint
- ▶ Low noise
- ▶ Variable speed agitation from 750 to 3000 rpm
- ▶ Anti-slip pads
- ▶ Low energy consumption
- ▶ Disconnectable power cable from the base of the vortex

Speed (rpm)	750 - 3000
Orbit (mm)	4
L x D x H (mm)	90 x 150 x 80
Voltage input (V)	12
Power input	CD
Amperage input (A)	0.32

Cat. No.	Description	Price
144200B	Vortex-Mixer V-1 Plus	N/A -

# VORTEX MIXERS

## VELP Vortex

Model	Classic	Wizard	TX4
Maximum speed (rpm)	3000	3000	3000
Operating mode	Continuous or manual	Continuous or infrared	Continuous or infrared
Control	Analog	Analog	Digital
Timer	-	-	999:59 min
Base diameter (mm)	4.5	4.5	4.5
Dim. L x W x H (mm)	180 x 220 x 70	180 x 220 x 70	150 x 165 x 130
Weight (kg)	2.2	2.2	2.7
Power supply (W/ Hz/V)	15 / 50-60 / 100-240	15 / 50-60 / 100-240	15 / 50-60 / 100-240
Cat. No.	399005	399006	399057
Price	N/A -	N/A -	N/A -

- ▶ Adjustable speed
- ▶ Protection class: IP 42
- ▶ WIZARD and TX4 models equipped with an infrared detector that detects the presence of the tube and is automatically activated



### Accessories

Cat. No.	Description	Price
399007	Stand for 19 Eppendorf tubes 1.5 ml	N/A -
399008	Customisable stand	N/A -
399009	Stand for 5 test tubes Ø 16 mm	N/A -
399010	Stand for microtiter plate	N/A -
399011	Elastic supporting plate Ø 50 mm	N/A -
399012	Rubber supporting plate Ø 94 mm	N/A -
399013	Supporting plate for 4 tubes Ø 29 mm	N/A -

## Multi Vortex-Genie and Vortex-Genie Max high capacity vortex mixers

- ▶ Painted zinc housing
- ▶ Anti-slip pads
- ▶ Programmable

Model	Multi Vortex-Genie	Vortex-Genie Max
Speed (rpm)	200 - 950	500 - 1950
Pulse mode	No	Yes - 1 seconde to 99 minutes
Programmable	Speed and time	Speed, time, pulse function, acceleration/deceleration rate
Capacity	24 tubes up to Ø 29 mm 4 bottles or flasks 500 ml 6 bottles or flasks 250 ml 4 microplates	24 tubes up to Ø 29 mm (optional) 6 bottles or flasks 250 ml 4 microplates (optional)
Dim. Plate W x D x H (mm)	240 x 280	
Dim. Total W x D x H (mm)	310 x 270 x 195	
Weight (kg)	11.3	10.4
Power supply	230 V; 50 Hz	
Warranty	2 years	
Cat. No.	079075	079144
Price	N/A -	N/A -

079075



079144



### Accessories for Vortex-Genie Max

Cat. No.	Description	Price
079145	Rack for 10 tubes up to Ø 29 mm	N/A -
079146	Set of 2 racks for 10 tubes up to Ø 29 mm	N/A -
079147	Microplate foam insert for 2 plates	N/A -
079148	MicroPlate foam insert for 2 plates (set of 2)	N/A -

## Digital vortex mixer

thermo scientific

Speed (rpm)	200 to 3000
Accuracy	± 10 %
Maximum permissible load (kg)	0.5
Dimensions L x W x H (mm)	205 x 151 x 131
Weight (kg)	6.1
Cat. No.	229203
Price	N/A -

- ▶ Timer: continuous or up to 99 min
- ▶ One-click mode change
- ▶ Wide range of accessories
- ▶ Warranty: 2 years



### Accessories

Cat. No.	Description	Maximum operating speed	Price
229223	Universal rubber platform	3000 rpm	N/A -
229224	Flat bottom vessel platform	3000 rpm	N/A -
229225	Microplate tray	1200 rpm	N/A -
229226	19 x 10 mm diameter tube holder	2000 rpm	N/A -
229227	13 x 12 mm diameter tube holder	1800 rpm	N/A -
229228	12 x 15 mm diameter tube holder	1000 rpm	N/A -
229229	7 x 20 mm diameter tube holder	1000 rpm	N/A -
229230	4 x 26 mm diameter tube holder	900 rpm	N/A -

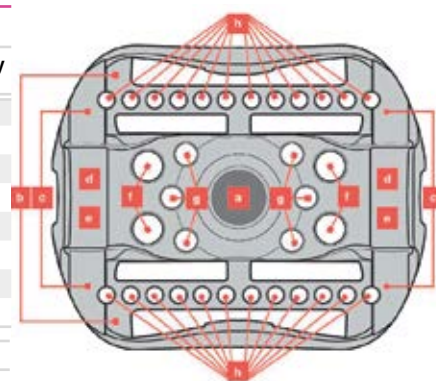
## Versatile Vortex Shaker Vortexer



### Tube slots

Tube	Capacity
a Central slot for manual vortex	1
b Plate (to be used with holding ropes)	1
c 50 ml conical tubes (horizontal mounting)	2
d 15 ml conical tubes (horizontal mounting)	2
e 5 ml microtubes (horizontal mounting)	2
f 1.5/2 ml Microtubes	4
g Microtubes 0.5 ml	6
h PCR 0.2 ml Microtubes (or strips)	24

Speed (rpm)	1000, 2000 or 3000
Stirring amplitude (mm)	3-7
Dimensions W x D x H (mm)	171 x 190 x 197
Weight (kg)	3.93
Cat. No.	320155
Price	N/A -



- **ABS body with anti-vibration feet**
- **Continuous or pressure agitation**
- **Can be used with multiple tube sizes simultaneously without the need for accessories (see diagram above)**
- **Warranty: 2 years**

## LMS Vortex



- **Variable speed vortexer**
- **ON / OFF Button**

Cat. No.	Description	Price
079030	LMS Vortex	N/A -

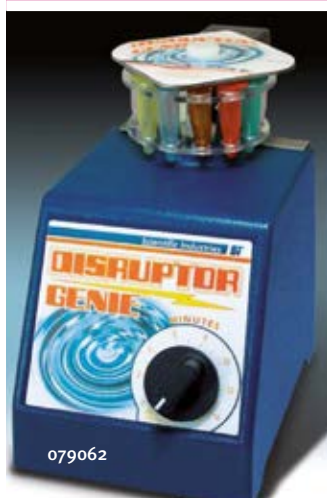
- **Continuous operation**
- **Operation by pressure on the stirring head**

Speed (rpm)	0 - 3000
Material	Painted aluminium and ABS
Head	Rubber
Dimensions (mm)	130 x 155 x 155
Weight	4 kg
Voltage (V)	AC 220V, 50 Hz

### Accessories

Cat. No.	Description	Price
088933	Foam microplate rack	N/A -
088934	Flasks holder	N/A -

## Disruptor Genie shaker



The Genie Disruptor shaker, is particularly suitable for breaking up and homogenising difficult cells, bacteria, animal or plant tissue, resuspending pellets and any application requiring extreme agitation. Complete with TurboMix holder for 12 x 1.5 ml or 2 ml tubes with screw cap.

- **Its holder accepts 12 x 1.5 ml or 2 ml microtubes with screw cap**
- **Works in cold rooms and incubators**
- **Timer 15 minutes**
- **Standard or digital model**



Cat. No.	Description	Price
079062	Genie Disruptor Standard complete for 1.5 and 2 ml microtubes	N/A -
079123	Genie Disruptor Digital complete for 1.5 and 2 ml microtubes	N/A -

### Beads for Disruptor

Cat. No.	Description	Price the bottle of 375 g
079052	0.1 mm beads for bacteria	N/A -
079053	0.5 mm beads for fungi and yeast	N/A -

### Optional TurboMix holder

Cat. No.	Description	Price
079129	TurboMix holder for 12 microtubes 1.5/2 ml	N/A -

### Optional universal rack

Made of plastic. Fits into the TurboMix holder.

Cat. No.	Description	Price
079134	Universal microtube rack	N/A -



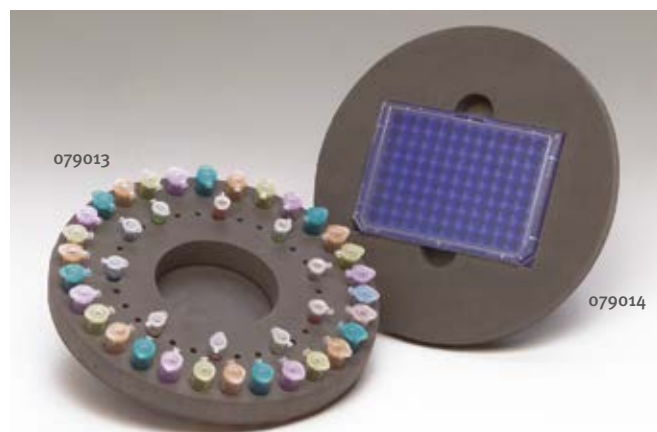
## Genie 1 and Genie 2 Vortex shakers



### Robust and universal

Vibration shaker with a wide range of media combinations to suit the container being shaken.

Model	Vortex Genie 1	Vortex Genie 2	Vortex Genie 2T	Vortex Genie 2 digital
Features	High constant speed Powerful vortex Occasional or brief agitation	High variable speed Can be used in a cold room or incubator	High variable speed Can be used in a cold room or incubator Automatic shutdown at the end of the programmed time	Digital version Accepts all accessories of the classic Vortex genie 2
Supplied with	1 pop-off head for one tube	1 pop-off head for one tube + one holder $\varnothing$ 7.5 cm	1 pop-off head for one tube + one holder $\varnothing$ 7.5 cm	1 pop-off head for one tube + one holder $\varnothing$ 7.5 cm
Speed (rpm)	2700	600 - 2700	600 - 2700	500 - 2850
Timer - Touch-On mode - Hands-free mode	-	Touch-on / Hands-free	Touch-on (1-60 sec) / Hands-free (1-60 min or continuous)	Touch-on (1-99 sec) / Hands-free (1-99 min or continuous)
Weight (kg)	4	4	4	4
Dimensions (L x W x H) (mm)	165 x 122 x 165	165 x 122 x 165	165 x 122 x 165	165 x 122 x 165
Warranty	2 years	2 years	2 years	2 years
Cat. No.	079007	079008	079009	079070
Price	N/A -	N/A -	N/A -	N/A -



### Accessories

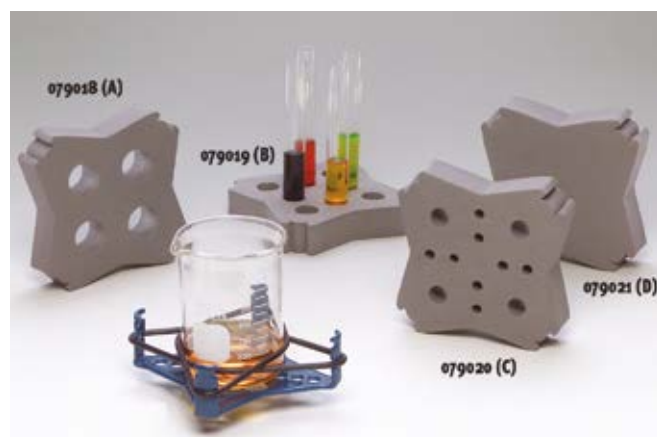
- Foam racks usable up to 1800 rpm or power 7
- For occasional shaking (hand-held tube or flask; these accessories are supplied with the Genie 2).

Cat. No.	Description	Price
079010	Holder for 1 tube	N/A -
079011	Holder $\varnothing$ 7.5 cm for flasks, beakers or several tubes, with anti-slip rubber coating	N/A -

- For continuous shaking  
Two basic holders are available:  
1) a  $\varnothing$  15 cm holder on which round foam racks are fixed.

Cat. No.	Description	Price
079012	Holder $\varnothing$ 15 cm only	N/A -
079013	Foam holder for 30 microtubes 1.5/2.0 ml and 30 microtubes 0.2/0.5 ml	N/A -
079014	Foam holder for 1 microtiter plate (2 units)	N/A -
079127	Foam holder for 1 Deepwell plate	N/A -
079015	Complete set including holder $\varnothing$ 15 cm, 1 rack 60 microtubes, 1 holder for microtiter plate	N/A -

- 2) a platform to be completed with a fastening elastic band or foam racks of various types of tubes (solid racks can be drilled as required for use).



Cat. No.	Description	Price
079016B	Recessed polypropylene platform only	N/A -
079017	Elastic bands (2 units)	N/A -
079018	A: Foam inserts for 4 tubes $\varnothing$ 29 to 37 mm (2 units)	N/A -
079019	B: Foam inserts for 4 tubes $\varnothing$ 20 to 29 mm and 4 tubes $\varnothing$ 14 to 20 mm (2 units)	N/A -
079020	C: Foam inserts for 4 tubes $\varnothing$ 13 to 15 mm and 8 tubes $\varnothing$ 8 to 12 mm (2 units)	N/A -
079021	D: Solid Foam inserts (2 units)	N/A -
079022	Kit comprising platform + A, B, C and D	N/A -

## Racks for Vortex Genie 1 and Genie 2 shakers



### Horizontal and vertical tube holders

Cat. No.	Description	Price
079097	Horizontal holder for 6 tubes 50 ml	N/A -
079098	Horizontal holder for 12 tubes 15 ml	N/A -
079099	Horizontal holder for 24 microtubes	N/A -
079100	Vertical holder for 6 tubes 50 ml	N/A -
079101	Vertical holder for 12 tubes 15 ml	N/A -
079102	Vertical holder for 24 microtubes	N/A -
079104	Vertical holder for 6 x 50 ml tubes, 6 x 15 ml tubes and 12 microtubes	N/A -
079120	Vertical high speed holder for 3 tubes 50 ml	N/A -
079121	Vertical high speed holder for 6 tubes 15 ml	N/A -
079122	Vertical high speed holder for 9 tubes 1.5 ml	N/A -

### Other holders

Cat. No.	Description	Price
079134	Universal microtube holder	N/A -
079058	Attachment for 2 short ampules and 2 tubes 15 ml ø 17 mm	N/A -
079059	Attachment for 2 long ampules and 2 tubes 15 ml ø 17 mm	N/A -

## Vortex Genie Pulse



- ▶ Powerful vortex
- ▶ Quick key or interval mixing
- ▶ Programmable
- ▶ Speed and time display
- ▶ Also works in continuous mode

Speed (rpm)	500 - 2850
Weight (kg)	4
L x D x H (mm)	165 x 122 x 165
Modes	Pulse or continuous button
Pulse button	0.1 second to 99 minutes

Cat. No.	Description	Price
079115	Vortex Genie Pulse	N/A -



## Mortexer™ Multi-tube head vortex mixer

A vortex mixer with a multi-tasking head.

- Supplied with a head for simultaneous shaking of 8 microtubes of 1.5 ml/2 ml in a ring and a tube for any volume up to 50 ml
- Pulse or continuous button

Speed	200 to 3400 rpm
Working temperature	+ 4 to 65 °C
Dimensions (mm)	130 x 160 x 170
Weight (kg)	3.8
Power supply	230 V, 50 Hz
Warranty	2 years
<b>Cat. No.</b>	<b>060990</b>
<b>Price</b>	<b>N/A -</b>



060993



060901



060994



060902



060995



### Accessories

Cat. No.	Description	Price
060901	Universal foam head, diam.: 7.6 cm	N/A -
060902	Combo head for 38 microtubes 1.5/2ml and 28 microtubes 0.5 ml, or 1 microplate	N/A -
060993	Head for 12 microtubes 1.5/2 ml	N/A -
060994	Head for 4 conical tubes 15 ml	N/A -
060995	Head for 2 conical tubes 50 ml	N/A -

## Combi-Spin and Multi-Spin vortex centrifuges

Supplied with a rotor for 12 x 1.5/2 ml tubes, and a rotor for 12 x 0.5 ml tubes and 12 x 0.2 ml tubes.

### ➤ Combi-Spin

- Vortex usable during centrifugation, thanks to the agitation head coming out of the lid



### ➤ Multi-Spin

- For simultaneous stirring of multiple tubes
- Alternating stirring and centrifuging phases, up to 999 cycles

Model	Combi-Spin	Multi-Spin
Speed (rpm)	2800	1000 à 6000
Acceleration RCF (g)	700	2350
Centrifuge timer	-	1 sec to 30 min
Vortex timer	-	1 to 20 sec
Display	-	Digital
Contrôle	Boutons rotatifs	Touch
Pulse button	Yes	-
Working temperature	4 to 40 °C	
Dimensions (W x D x h) (mm)	193 x 235 x 125	
Weight(kg)	1.7	2.5
<b>Cat. No. (with rotor)</b>	<b>144218B</b>	<b>144782B</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

### Rotors

Cat. No.	Description	Price
144220B	Rotor for 8 tubes 1.5 ml or 8 tubes 0.5 ml	N/A -
144221B	Rotor for 6 tubes 1.5 ml, 6 tubes 0.5 ml or 6 tubes 0.2 ml	N/A -
144222B	Rotor for 2 x 0.2 ml tube strips	N/A -
144819	Rotor for 32 x 0.2 ml tubes or 4 strips	N/A -



Combi-Spin



Multi-Spin

## Benchmixer™ XL Vortexer



- ▶ **Orbital vortex agitation**
- ▶ **300 x 178 mm platform for a wide variety of tubes**
- ▶ **Speed up to 2500 rpm**
- ▶ **Pulsing program for interval mixing (up to 100 hours)**
- ▶ **Supplied with a rack for 50 tubes of 12 mm diameter (Cat. No. 062522)**

Can be completed with a horizontal rack for 50 ml tubes, ideal for pesticide residue testing (QuEChERS method) - sold separately: Cat. No. 062528)

Speed (rpm)	500 to 2500
Max. capacity	15 x 50 ml or 50 x 15 ml
Orbit (mm)	3.6
Timer	up to 100 hours
Dimensions (mm)	385 x 235 x 420
Weight (kg)	13
Power supply	230 V / 50-60 Hz
<b>Cat. No.</b>	<b>062519</b>
<b>Price</b>	<b>N/A -</b>

### Racks

Cat. No.	Capacity	Price
062520	96 tubes of 0.5 ml or 8 mm diameter	N/A -
062521	50 tubes of 1.5/2 ml or 10 mm diameter	N/A -
062522	50 tubes of 12 mm diameter	N/A -
062523	50 tubes of 13 mm diameter	N/A -
062524	50 tubes of 15 ml or 16.5 mm diameter	N/A -
062525	15 tubes of 50 ml or 29 mm diameter	N/A -

Cat. No.	Capacity	Price
062526	15 tubes of 25 mm diameter	N/A -
062527	3 microplates	N/A -
062804	7 x 50 ml tubes horizontal	N/A -

## Shaker for microtubes



Shaker for 60 microtubes 1.5 ml or 2 ml (or 0.5 ml or 0.2 ml with adapters).

- ▶ **Variable speed: 100 - 1400 rpm**
- ▶ **Timer: 99.5 minutes with continuous function**
- ▶ **Orbital movement: 3 mm amplitude**
- ▶ **L x W x H (mm): 170 x 280 x 150**

Cat. No.	Description	Price
096503	Shakers for 60 microtubes	N/A -
096532	Adapter for microtubes 0.5 ml (6 units)	N/A -
096534	Adapter for 0.2 ml microtubes (6 units)	N/A -

## MPS-1 Grant-Bio high-speed orbital/vortex shaker



Compact shaker for tubes, microtubes and plates.

- ▶ **Suitable for use with 0.2 ml to 50 ml high speed tubes**
- ▶ **Can be used in cold rooms and incubators**
- ▶ **Silent operation**
- ▶ **Adjustable speed or 4 presets**

Speed (rpm)	300 - 3200
Increment (rpm)	100
Stirring amplitude (mm)	3
Acceleration time (s)	5
Timer with alarm	1 to 60 min / continuous
Operating temperature	+ 4 to 40 °C
Dimensions W x D x H (mm)	225 x 215 x 150
Weight (kg)	5.1
Maximum noise level	50 dB
Power supply	12V / 1.25A / 5W
<b>Cat. No.</b>	<b>144813</b>
<b>Price</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
144815	Adapter for 24 microtubes 1.5/2.0 ml	N/A -
144816	Adapter for 32 microtubes 0.5 ml	N/A -
144817	Adapter for 24 tubes 0.5 ml and 48 tubes 0.2 ml (or 6 x 8-tube strip)	N/A -
144818	Adapter for 96 microtubes 0.2 ml or 12 x 8-tube strip or a half-skirted or unskirted 96-well PCR plate	N/A -
144814	Complete package with MPS-1 agitator and 4 adapters	N/A -

## ViTL Co-Mix Combined vortex and plate mixer

Multi-function mixer with vortex module.

- Intuitive touch-screen interface
- Pre-programmed with 9 mixing programs. 100 user-defined programs can be added to suit your needs
- Guaranteed repeatability of results
- No risk of splashing or contamination
- Takes 96 and 384-well skirted microplates, microtitre plates, as well as Deepwell plates
- Adapters provided for 96-well semi-skirted and unskirted PCR plates, for 0.5 and 1.5 ml tubes, and for 2 ml tubes
- Vortex module operates in continuous or press mode

Speed (rpm) (mixer)	200 - 3000
Speed (rpm) (vortex)	700 - 3500
Timer (mixer)	5 sec to 28 days
Timer (vortex)	2 sec to 99 sec
Dimensions (W x L x H) (mm)	188 x 347 x 176
Power consumption	100 W max
Weight (kg)	6.6
<b>Cat. No.</b>	<b>444004</b>
<b>Price</b>	<b>N/A -</b>



### Additional accessories

Cat. No.	Description	Price
444005	Adapter for 96-well PCR plate	N/A -
444006	Adapter for 0.5 ml tubes	N/A -
444007	Adapter for 1.5 and 2 ml tubes	N/A -

## Digital heating shaking drybath

- Digital display
- PID control ensures precise temperature control
- 10 program memory, up to 10 steps per program

- 2 types of timer mode: immediate start or start when target temperature is reached
- Easily interchangeable blocks to be ordered separately
- Warranty: 2 years

Temperature range	Ambient at 100 °C
Variation at 80 °C	0.5 °C
Rotation speed (rpm)	150 - 1500
Orbit size (mm)	2
Dim. int. (L x W x H)(mm)	99 x 77.5 x 36
Dim. ext. (L x W x H)(mm)	276 x 334 x 170
Weight (kg)	8.3
Power (V/ Hz)	230 / 50-60
<b>Cat. No.</b>	<b>079573</b>
<b>Price</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
079520	Block for 96 microtubes 0.2 ml	N/A -
079521	Block for 48 microtubes 0.5 ml	N/A -
079522	Block for 24 microtubes 1.5 ml	N/A -
079701	Block for 24 tubes Ø 12 mm	N/A -
079702	Block for 24 tubes Ø 13 mm	N/A -
079700	Block for 15 centrifuge tubes 15 ml	N/A -
079523	Block for 6 centrifuge tubes 50 ml	N/A -



## INCU-MIXER 2 or 4 plates

- Optimized for incubated mixing of 2 or 4 microtitre and deepwell plates (For plates up to 40 mm high)
- Can also be used as a vortexer alone or as an incubator without vortexing
- With heated lid
- Digital display of temperature, speed and time
- Adapter available for 0.5 to 2 ml microtubes

Model	Incu-Mixer MP2	Incu-Mixer MP4
Temperature range	Ambient + 5 °C to 70 °C	
Accuracy	+/- 0.2 °C	
Uniformity	+/- 0.5 °C	
Mixing speed in rpm	100-1200	100-1500
Orbit Ø	2 mm	
Dimensions (cm)	27.9 x 26.9 x 13.9	32 x 35 x 18.5
Voltage	100-240 V	230 V, 50-60 Hz
<b>Cat. No.</b>	<b>062572</b>	<b>062570</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

### Accessory for Incu-Mixer MP4

Cat. No.	Description	Price
062571	Adapter for 1.5/2 and 0.5 ml microtubes*	N/A -



\* For MP4 model only

## Bioshake IQ Heating Shaker



- Thermoshaker for multiple applications.  
For microplates, microtubes, glass tubes (see accessories).
- ▶ For stirring and mixing up to 3000 rpm
  - ▶ Fast, high-precision heating of the room temperature to 99 °C
  - ▶ Reproducible results, because of defined parameters
  - ▶ Stirring control, anti-splash technology
  - ▶ Two programming keys
  - ▶ Compact, light and quiet
  - ▶ Particularly convenient for shaking in 384-well plates
  - ▶ Continuous mode
  - ▶ Audible alarm

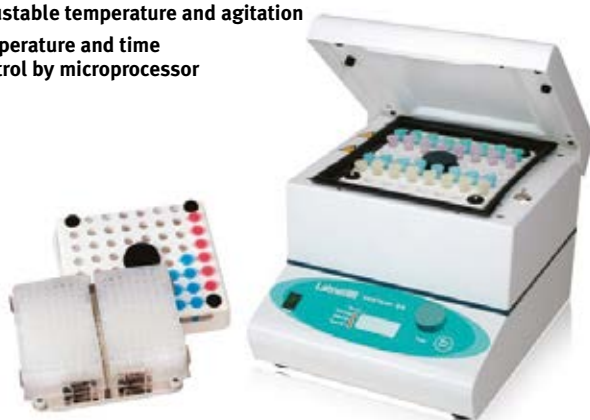
### Adapters

Cat. No.	Adapter for	Price
181001	Flat bottom microplate	N/A -
181002	Universal microplate for round bottom microplates	N/A -
181003	96-well PCR microplate	N/A -
181004	384-well PCR microplate	N/A -
181005	Tubes 24 x 2 ml or 15 x 0.5 ml	N/A -
181006	Tubes 24 x 1.5 ml or 15 x 0.5 ml	N/A -
181007	Tubes 40 x 0.5 ml or 28 x 0.2 ml	N/A -
181008	Tubes 96 x 0.2 ml	N/A -
181009	Glass tubes 30 x 2 ml	N/A -
181010	Tubes 20 x 4 ml	N/A -

T° Range / Setting / increment	Ambient to 99 °C / From 0 °C to 99 °C / 0.1 °C
T° accuracy	± 0.5 °C to 45 °C / ± 0.7 °C to 75 °C / ± 1 °C to 95 °C
T° rise	7 °C / min (10 min. from ambient to 95 °C)
Shaking	From 200 to 3 000 rpm (microplates) / from 200 to 1 800 rpm (tubes, glass tubes), in increments of 50 rpm
Stirring orbit	2 mm
Timer	1 min - 99 h / automatic stop
Material	Anodised aluminium
Operating temperature	+5 °C to 45 °C (max. 80% relative humidity)
Dimensions (L x W x H)	142 x 170 x 80 mm
Weight	2.7 kg
<b>Cat. No.</b>	<b>181000</b>
<b>Price</b>	<b>N/A -</b>

## VORTEMP 56 Shaking Incubator

- ▶ For microtubes
- ▶ For simultaneous shaking and heating of small samples
- ▶ Delivered with interchangeable platform
- ▶ Adjustable temperature and agitation
- ▶ Temperature and time control by microprocessor



Model	VORTEMP 56
Gamme de température	Ambient +5 °C to 99 °C
Accuracy	+/- 0.5 °C
Speed	100 - 1500 rpm
Orbit movement	Circular 3 mm
Timer	1 to 999 minutes or continuo
Capacity	56 microtubes 1.5 or 2 ml 4 microplates, 2 deepwells
Ext. dimension (L x D x H)	230 x 310 x 230 mm
<b>Cat. No.</b>	<b>096510</b>
<b>Price</b>	<b>N/A -</b>

### Accessories for VORTEMP 56

Cat. No.	Description	Price
096532	Individual adaptor for 0.5 ml microtubes (6 units)	N/A -
096534	Individual adaptor for 0.2 ml microtubes (6 units)	N/A -

## Grant-Bio PHMT thermoshaker for microtubes



T° range ( °C)	amb. +5 to 100
Stability ( °C)	+/- 0.1
Uniformity ( °C)	+/- 0.2
Speed (rpm)	250 to 1400
Speed resolution	10 rpm
Orbit (mm)	2
Timer	1 min to 96 h
Timer resolution	1 mn
Ambient t° rise to 37°	5 min
Ambient t° range ( °C)	4 to 40
L x D x H ext. (mm)	205 x 230 x 130
Voltage input (V)	12

- Three instruments in one:
- A thermoshaker;
  - A benchtop incubator;
  - A microtube shaker in cold temperatures

- For simultaneous shaking and heating of 2 ml, 1.5 ml or 0.5 ml microtubes:
- for 24 x 2 ml microtubes;
  - for 24 x 1.5 ml microtubes;
  - For 20 x 0.5 ml microtubes and 12 x 1.5 / 2 ml microtubes;
  - or for 1 x 96-well plate / 0.2 ml tubes.
- Shaker supplied with or without block.  
The Cat. No. 144223 is to be completed with a block.

### Accessories

Cat. No.	Description	Price
144228	Block for 20 microtubes 0.5 ml or 12 microtubes 1.5 / 2 ml	N/A -
144769	Block for 24 microtubes 2 ml	N/A -
144601C	Block for 24 microtubes 1.5 ml	N/A -
144846	Block for 96-well plate	N/A -

Cat. No.	Description	Price
144223	Thermoshaker without block	N/A -
144599	Thermoshaker with block for 20 x 0.5 tubes and 12 x 1.5 ml tubes	N/A -
144919	Thermoshaker with block for 24 x 2 ml microtubes	N/A -
144600C	Thermoshaker with block for 24 x 1.5 ml microtubes	N/A -
144845	Thermoshaker with block for 96-well plate	N/A -

## Grant-Bio PHMP Thermoshaker for Microplates

Three devices in one:

- A thermoshaker;
- A compact benchtop incubator without shaking;
- A microplate shaker in cold or ambient temperatures.

- For 96 or 384 well microplates
- With heated lid for optimised heating
- Speed: 250 to 1200 rpm / 2 mm orbit
- Adjustable temperature up to 60 °C
- Soft start of shaking
- Timer from 1 min. to 96 h with buzzer and automatic switch-off
- For 2 or 4 microplates
- Low energy consumption
- Can be used in a cold room or incubator

T <sup>o</sup> range (°C)	amb +5 to 60
Stability (°C)	+/- 0.1
Uniformity (°C)	+/- 0.2
Speed (rpm)	250 to 1200
Speed resolution	10 rpm
Orbit (mm)	2
Timer	1 min to 96 h
Timer resolution	1 mn
Ambient t <sup>o</sup> (°C)	4 to 40
Voltage input (V)	12
Power input	CD
Amperage input (A)	0.5

- Applications: molecular biology: for microbial culture and DNA analysis, cytochemistry (for in situ reactions), molecular chemistry (for matrix analysis), immunochemistry, molecular diagnostics, Elisa tests



Cat. No.	Microplate capacity	Dimensions (mm)	Price
144211	2	265 x 250 x 125	N/A -
144532	4	380 x 390 x 140	N/A -

## Multi-therm shaker with heating and cooling for microplates

- 2 models: Heat/Cool or Heat only
- Temperature control from 0 to 100 °C
- Supplied without block, interchangeable blocks for tubes from 0.2 to 50 ml
- Modest footprint
- Applications: reverse transcription, gentle thawing of biological samples, DNA or protein denaturation, lipid extractions, yeast or bacterial cultures, enzymatic digestions

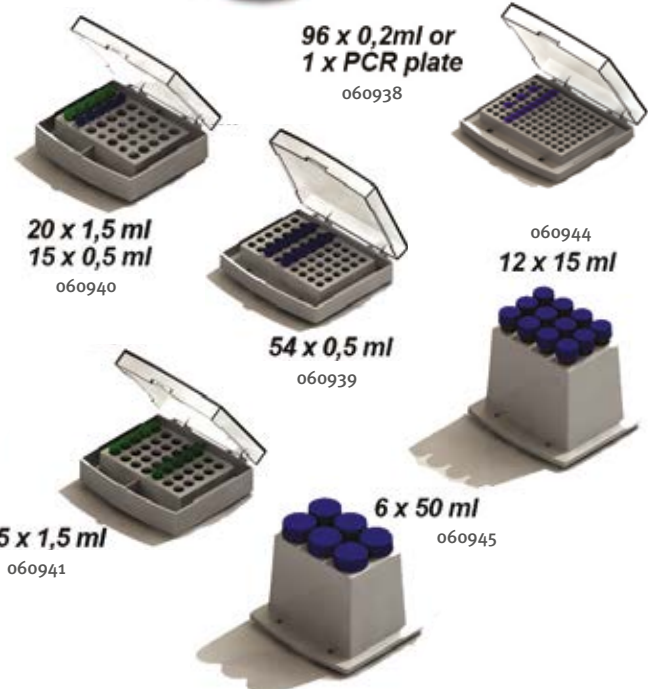


Temp. Range (Cat. No. 060936)	Ambient -20 °C to 100 °C
Temp. Range (Cat. No. 060937)	Ambient + 5 °C to 100 °C
Temperature Increment	5 °C / minute
Temperature decrease	2.5 °C/minute (Cat. No.060936 only)
Temp. Accuracy	+/- 1.0 °C
Shaking speed	200 to 1500 rpm
Orbit movement	Horizontal Circular 2 mm
Dimensions / Weight	210 x 290 x 210 mm / 8 kg
Power supply	230 V, 50-60 Hz

Cat. No.	Description	Price
060936	Multi-therm shaker with heating + cooling for microplates	N/A -
060937	Multi-therm shaker with heating for microplates	N/A -

### Blocks

Cat. No.	Capacity	Price
060938	96 tubes 0.2 ml or one PCR plate	N/A -
060939	54 tubes 0.5 ml	N/A -
060940	15 tubes 0.5 ml and 20 tubes 1.5 ml	N/A -
060941	35 tubes 1.5 ml	N/A -
060942	35 tubes 2.0 ml	N/A -
060943	24 tubes 12 mm (200 to 1200 rpm / ambient - 10 ° to 100 °C)	N/A -
060944	12 tubes 15 ml (200 to 750 rpm / ambient - 10 ° to 100 °C)	N/A -
060945	6 tubes 50 ml (200 to 750 rpm / ambient - 10 ° to 100 °C)	1099.36 -
062538	1 microplate	N/A -
062539	1 Deepwell plate	N/A -
062540	24 tubes 2 ml HPLC flask type 12 x 32 mm	N/A -
062541	Liquids or beads (block size 101 x 66 x 25 mm)	N/A -



## ThermoMixer: mixing and temperature control



Ideal for efficient and reliable mixing, heating and cooling established routine applications on tubes and plates.

- ▶ High-performance agitation with zDMix-Control technology, perfectly flat and splash-free
- ▶ Precise and even temperature control, optimised with the ThermoTop to prevent condensation
- ▶ Quick access keys for the most common temperatures or main programmes
- ▶ 2 year warranty
- ▶ ThermoMixer F 0.5, F 1.5, F 2.0 and FP
- ▶ Temperature and speed settings
- ▶ Pre-equipped with a fixed SmartBlock
- ▶ ThermoMixer C and ThermoStat C
- ▶ Temperature, speed and time settings
- ▶ Programming of up to 4 steps
- ▶ Timer from 15s to 99:30h or continuous operation
- ▶ To be completed with a SmartBlock

Model	ThermoMixer C	ThermoMixer F 0.5	ThermoMixer F 1.5	ThermoMixer F 2.0	ThermoMixer FP	Thermostat C
Capacity	According to SmartBlock	24 x 0.5 ml microtubes	24 x 1.5 ml microtubes	24 x 2.0 ml microtubes	1 microplate or 1 Deepwell plate	According to SmartBlock
Shaking speed (rpm)	300 - 3000	300 - 2000	300 - 1500	300 - 1500	300 - 2000	-
Orbit diameter (mm)	3 mm					-
Temperature range	TA* -15 to 100 °C	TA* +4 to 100 °C				TA* -30 to 100 °C
Max heating speed	7 °C/min	15 °C/min	11 °C/min	13 °C/min	18 °C/min	5.5 °C/min
Max cooling speed	2.5 °C / min	-	-	-	-	5 °C/min
Available functions	Short Mix					Time/temp mode Pause function
Dimensions (W x D x H) (mm)	206 x 304 x 136	206 x 304 x 163	206 x 304 x 170	206 x 304 x 170	206 x 304 x 164	206 x 304 x 131
Cat. No.	035963	933118	035965	933119	035966	035964
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

\* RT: ambient temperature

### SmartBlocks



- ▶ Integrated temperature sensor for temperature control
- ▶ QuickRelease system for quick and easy assembly/disassembly

Cat. No.	Capacity	Price
035967	24 x 0.5 ml microtubes **	N/A -
035968	24 x 1.5 ml microtubes **	N/A -
035969	24 x 2 ml microtubes **	N/A -
035970	8 x 5 ml microtubes	N/A -
035971	8 x 15 ml conical bottom tubes	N/A -
035972	4 x 50 ml conical bottom tubes	N/A -
035973	24 tubes Ø 12 mm	N/A -
035975	1 microplate or Deepwell plate, with lid	N/A -
035976	1 x 96-well PCR plate, with lid **	N/A -
035977	1 x 384-well PCR plate, with lid **	N/A -
933820	1 x 96-well Deepwell 500 µl, with lid	N/A -
933819	1 x 96-well Deepwell 1000 µl, with lid	N/A -

\*\* ThermoTop compatible

### ThermoTop



- ▶ Heated cover prevents condensation on the tube wall
- ▶ Plug-in installation with automatic recognition by the device
- ▶ Optimises temperature uniformity
- ▶ Limits evaporation of samples

Cat. No.	Description	Price
035979	ThermoTop heated lid	N/A -
035978	Insulated lid	N/A -

### SmartExtender



- ▶ Non-stirring add-on module for incubation of 12 x 1.5ml tubes
- ▶ Independent temperature control
- ▶ Quick and easy assembly without tools

Cat. No.	Description	Price
532200008	SmartExtender Module 1.5ml	N/A -

## Eppendorf MixMate mixer

- For samples from 5 µl to 2 ml in PCR tubes, microtubes and SBS plates
- High-speed mixer from 300 to 3000 rpm
- Integrated ergonomic vortex function (3500 rpm)
- 2DMix-Control technology (planar mixing orbit without vertical movement), without lid wetting and cross-contamination
- Buttons for pre-defined standard mixing parameters, depending on format
- Compact and very quiet
- Delivered alone, 5 optional racks: for 96 PCR microtubes, for 24 x 0.5 ml microtubes, for 24 x 1.5/2 ml microtubes, for 8 x 5/15 ml tubes or for 4 x 25/50 ml tubes
- Warranty: 2 years



eppendorf

Cat. No.	Description	Price
999576	MixMate Mixer without rack	N/A -

### Accessories

Cat. No.	Description	Price
033959	Rack 96 for 96 PCR tubes 0.2 ml, PCR strips or 96-well PCR plates, semi-skirted or non-skirted	N/A -
033960	Rack for 24 x 0.5 ml microtubes	N/A -
033961	Rack for 24 x 1.5 ml or 2 ml microtubes	N/A -
999577	Rack for 8 x 5 or 15 ml conical tubes	N/A -
999578	Rack for 4 x 25 or 50 ml conical tubes	N/A -
033962	Vortex mat	N/A -

## Accutherm Microtube Shaking Incubator, heating/cooling

Temperature adjustable range	0 °C to +105 °C
Temperature range	Ambient - 14 °C to +100 °C
Accuracy (°C)	± 0.5
Uniformity (°C)	± 0.5
Heating rate	6.5 °C/ min
Cooling rate	1.5 °C/ min
Timer	1 min to 99 h 59 min
Shaking speed (rpm)	300 - 1500
Orbit (mm)	3
Dimensions L x W x H (mm)	330 x 166 x 240
Weight (kg)	8.5
<b>Cat. No.</b>	<b>096683</b>
<b>Price</b>	<b>N/A -</b>

Combination of a heating/cooling block and a shaker for a wide range of applications.

- Compact
- Temperature adjustable range from 0 to 105 °C
- Easy to use
- Blocks to be ordered separately



### Blocks

Cat. No.	Description	Price
096684	Block for 40 x 1.5 ml tubes	N/A -
096685	Block for 54 x 0.5 ml tubes	N/A -
096686	Block for 96 x 0.2 ml tubes	N/A -
096687	Block for 24 tubes diameter 15 mm	N/A -
096688	Water bath block	N/A -
096689	Block for 26 x 0.5 ml tubes and 24 x 1.5 ml tubes	N/A -
096690	Block for 40 x 2 ml tubes	N/A -
096691	Block for 96-well ELISA plate	N/A -

## Grant-Bio PMS-1000i Microplate Orbital Shaker



Speed (rpm)	150 to 1200
Orbit (mm)	2
Dimensions (mm)	205 x 220
Total height (mm)	90
T°range (°C)	4 to 40
Plates capacity	2
Timer	1 min to 24 h

Regulated shaking of 2 or 4 microplates.

With adjustable shaking speed from 150 to 1200 rpm, the device is suitable for:

- for gentle agitation and prevents the liquid from being ejected from the plate;
- for more vigorous stirring, for effective aeration of the small surface area of each well.

► **Horizontal shaking**

► **Variable speed from 150 to 1200 rpm, 2 mm orbit (150 to 800 rpm with the 4 microplate tray)**

► **Integrated timer with automatic shut-off**

► **Low energy consumption**

► **Can be used in a cold room or incubator**

► **Applications: immunoassays, HTS, staining tests, DNA binding to magnetic silica beads**

Cat. No.	Description	Price
144206B	PMS-1000i Microplate Shaker	N/A -

### Accessory

Cat. No.	Description	Price
144207	4-microplate Tray	N/A -

## Thermocell heating and cooling shaker

- **Stirring speed: 300 to 1500 rpm**
- **Timer**
- **Supplied without block (to be ordered separately)**
- **Shgaking range: 3 mm**
- **Peltier effect**
- **Silent operation**



Operating temperature (°C)	0 - 105
Control temperature	Amb. T° -14 °C to 100 °C
Timer	1 min. to 99 h 59 min
Temperature rise	≤ 12 min (from 20 °C to 100 °C)
Cooling rate	≤ 8 min (T° amb. to T° amb-10 °); 15 min (100 °C to T° amb-10 °C)
Dimensions L x W x H (mm) / Weight (kg)	328 x 166 x 249 / 8.5
Power supply	220 V - 50-60 Hz - 150 W
<b>Cat. No.</b>	<b>865025</b>
<b>Price</b>	<b>N/A -</b>

### Blocks

Cat. No.	Description	Price
865002	Block for 40 x 1.5 ml microtubes	N/A -
865011	Block for 54 x 0.5 ml microtubes	N/A -
865012	Block for 96 x 0.2 ml microtubes	N/A -
865013	Block for 24 tubes ø 15 mm	N/A -
865015	Block for 40 x 2 ml microtubes	N/A -
865016	Block for 96-well microplates	N/A -
865017	Block for 26 x 0.5 ml microtubes and 24 x 1.5 ml microtubes	N/A -



# SHAKERS FOR MICROPLATES

## Orbital Microplates Shakers

Shakers for 4 microplates.

- Stainless steel tray with retaining springs
- Variable speed: 100 - 1400 rpm
- Timer: up to 99.5 minutes or continuous function
- Orbital shaker: 3 mm amplitude
- L x W x H (mm): 170 x 280 x 150



Cat. No.	Description	Price
096502	Shaker for 4 microplates	N/A -

## Genie™ Orbital Microplate Mixer

- For strong and uniform mixing of the contents of 96 or 384 well microplates at 750 to 3200 RPM
- Low 1 mm orbit for intense shaking
- Operates with 1-60 min timer or continuously
- Accepts most standard SBS microplates, including 384-well plates
- Can be used for 1, 4 or 8 plates
- Can be used in a cold room or incubator
- For the digital model programmable with pulse times from 0.1 sec. to 99 min.



Model	Genie™ Microplate Digital	Genie™ Digital Multi-microplate
Display	Digital	Digital
Speed	500 - 3000 RPM	500 - 3000 RPM
Timer	0 - 99 minutes or continuously	0 - 99 minutes or continuously
Vortex Orbit	1 mm diameter	1 mm diameter
Maximum capacity	1 SBS microplate	4 microplates or 8 with optional tray
Dimensions (D x W x H)	150 x 180 x 165 mm	335 x 240 x 165 mm
Weight	2.75 kg	3.7 kg
<b>Cat. No.</b>	<b>079128</b>	<b>079117</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
079069	Tray for Vortex Mixer Genie™ Multi-microplate	N/A -
079118	Kit for PCR plates	N/A -

## Microplates Vortex Mixer

- Compact vortex mixer
- Speed control or continuous mode

Power supply/ power	85~265 VAC / 50/60 Hz / 20 W
Speed	From 0 - 1500 rpm
Amplitude	4.5 mm
Maximum load	7.5 kg
Dimensions (W x D x H) / Weight	150 x 260 x 80 mm / 3 kg

Cat. No.	Description	Price
86103B	Vortex mixer for one microplate	N/A -



## TiMix Microplate Shakers large capacity



497005 with:  
497006 y 497007

For shaking of various types of SBS format plates.  
Wide choice of fixing systems for microplates of large capacity.

- **Model with digital and programmable display or Model with button controller**
- **Programmable model: 10 programmes**
- **To be equipped with a microplate tray**

Stirring	Orbital
Speed	10-400 rpm
Amplitude	3 mm
Timer	0 - 120 min.
Maximum capacity(kg)	5
Device dimension L x D x H (mm)	510 x 490 x 150

### Accessories

Cat.No.	Description	Price
497006	Standard tray for 8 microplates	N/A -
497007	Additional tray for 8 microplates*	N/A -
497008	Tray with clamps for 8 stacked microplates	N/A -
497009	Tray with clamps for 24 stacked microplates	N/A -
497010	Tray with metal clamps for 48 stacked microplates	N/A -

\* To be stacked on top of the standard tray

Cat. No.	Description	Price
497004	TiMix 5 Microplate Shaker, button controller	N/A -
497005	TiMix 5 Microplate Shaker, controller with digital programmable display	N/A -

## Orbital Genie Shaker



- 3 models
- With adherent tray;
- with individual clamps for flasks and bottles;
- universal bar for flasks, Erlenmeyer flasks, beakers.

- **Speed: 10 - 300 rpm with reversible speed**
- **Orbit: 35 mm**
- **Timer: 1 min to 99 hours with alarm or continuous**
- **Selection of the speed increase: 10 to 100 rpm/sec**
- **Maximum load: 12 kg**
- **Platform dimensions: 46 x 46 cm**
- **External dimensions 590 x 500 mm / Weight: 21 kg**

Cat. No.	Description	Price
079084	Orbital Genie Shaker with Adhering plate	N/A -
079085	Orbital Genie Shaker with universal bars	N/A -
079086	Orbital Genie Shaker with clamps for flasks	N/A -

### Accessories

Cat. No.	Description	Price
079093	Double-sided adhesive - roll 25,4 mm x 1,5 m	N/A -
079094	Adheringmat 46 x 46 cm	N/A -
079095	Universal Clamp	N/A -

### Clamps

Cat. No.	Description	Price
079087	Clamps for 100 ml flask	N/A -
079088	Clamps for 125/125 ml flask	N/A -
079089	Clamps for 250 ml flask	N/A -
079090	Clamps for 500 ml flask	N/A -
079091	Clamps for 1000 ml flask	N/A -
079092	Clamps for 2000 ml flask	N/A -

# ORBITAL SHAKERS

## Mini-100 Orbital shaker

- ▶ Non-slip platform (maximum 2)
- ▶ Variable speed
- ▶ Stacking racks available as an option



Speed (rpm)	20 - 100
Amplitude (mm)	19
Platform dimensions (mm)	290 x 290
Maximum platform load (kg)	3
Dimensions (mm)	350 x 350
Weight (kg)	3.5
Cat. No.	079149
Price	N/A -



079149



079164  
x2

### Accessory

Cat. No.	Description	Price
079164	Stackable stand	N/A -

## Mini-300 Orbital shaker

Available with 3 different models of platforms:

- universal platform with ratcheting clamps
- platform to be equipped with clamps
- platform with adhering mat



### ▶ Variable speed

Speed (rpm)	30 - 300		
Amplitude (mm)	19		
Platform dimensions (mm)	305 x 305		
Maximum platform load (kg)	3		
Dimensions (mm)	350 x 350		
Weight (kg)	10.25		
Platform model	Universal holder	Platform for clamps	Adhering tray
Cat. No.	079151	079152	079153
Price	N/A -	N/A -	N/A -



079151

### Accessories

CatNo.	Description	Price
079178	Stacking tray	N/A -
079160	Universal ratcheting clamp	N/A -
079161	Adhering Mat	N/A -

### Clamps

Cat. No.	Capacity	Maximum number of clamps	Price
079087	100 ml	16	N/A -
079088	125/150 ml	16	N/A -
079089	250 ml	16	N/A -
079090	500 ml	9	N/A -
079091	1000 ml	5	N/A -
079092	2000 ml	3	N/A -

## Anti-slip mats



Pre-cut Mat

Mat on a roll



- ▶ Ideal for holding flasks on the bench or for orbital shakers
- ▶ Withstands down to 45 °C
- ▶ Antimicrobials
- ▶ Latex-free

## Universal anti-slip mat for stainless steel trays

- ▶ Alternative to using clamps on plate agitators
- ▶ To be placed on a stainless steel or anodised aluminium surface
- ▶ Maintains 4 litre Erlenmeyer flasks filled with 2 litres of medium and at a speed not exceeding 250 rpm
- ▶ Easily cleaned with alcohol
- ▶ Dimensions: 23 x 23 cm



047959

Cat. No.	Description	Price
047959	Non-slip mat for stainless steel shaker tray 23 x 23 cm	N/A -

### Pre-cut Mat

Dimensions	Blue	Red	Yellow	Price
Ø 14 cm	178008	178009	178010	N/A -
Ø 19 cm	178011	178012	178013	N/A -
25 x 18 cm	178014	178015	178016	N/A -
38 x 45 cm	178017	178018	178019	N/A -

### Mat on a roll

Dimensions	Blue	Red	Yellow	Price
20 cm x 1 m	178020	178021	178022	N/A -
40 cm x 1 m	178023	178024	178025	N/A -

# ORBITAL SHAKERS

## Orbital shaker



- Reversible orbital shaking
- Delivered with painted steel platform + 1 anti-slip mat
- Possibility to adapt a second platform
- With timer
- Orbit: 20 mm
- Timer from 0 to 999 minutes in 1 minute increments.
- Operation from ambient temperature to + 40 °C
- Voltage to be selected: 110 or 220 volts
- Blocks to be ordered separately

<b>Model</b>	<b>MS-NOR-30</b>
Speed (rpm)	0 - 200
Capacity (kg)	10
Dimensions (mm)/ Weight (kg)	300 x 310 x 130 / 7
Platform dimensions-shape (cm)	30 x 30
<b>Cat. No.</b>	<b>022057B</b>
<b>Price</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
<b>022239</b>	Stacking platform 30 x 30 cm with feet and smooth carpet	<b>N/A -</b>
<b>022240</b>	Dimpled mat 30 x 30 cm	<b>N/A -</b>

## Orbit LS low speed orbital shaker



For dyeing and removing dye from gels. Supplied with a 30 x 30 cm platform covered with an anti-slip mat. Can be used in a cold room or incubator.

- Speed 3-60 rpm / increment: 10 mn
- Maximum load: 5 kg

- 20 to 120 min timer or continuous
- 19 mm circular orbit movement
- Temperature range: +4 °C to 70 °C
- Ext. dim. (W x D x H): E / weight: 6.6 kg
- Voltage 230V 50/60 Hz

Cat. No.	Description	Price
<b>096535B</b>	Orbit LS low speed orbital shaker	<b>N/A -</b>

## Digital Orbital Shaker



- Compact orbital shaker, for a maximum weight of 7.5 kg
- LCD display
- Digital speed and timer control
- Integrated timer or continuous operation
- PC control via RS232 interface
- Supplied with a bare tray to be completed with the holders

Power supply	85~265 VAC
Frequency - Power	50/60 Hz - 25 W
Speed -Amplitude	From 0 - 500 rpm - 10 mm
Programmable time	1 - 1199 min
Maximum load	7.5 kg
Dimensions (W x D x H) / Weight	430 x 360 x 106 mm / 8.8 kg

Cat. No.	Description	Price
<b>861019B</b>	Orbita shaker SK-0330-PRO	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
<b>861022</b>	Lengthways 4 roller attachment for Erlenmeyer and bottles	<b>N/A -</b>
<b>861024</b>	Non-slip shaker base for cell culture	<b>N/A -</b>
<b>861023</b>	Clip fastening holder	<b>N/A -</b>
<b>861110</b>	Fastening clamp for 25 ml flask	<b>N/A -</b>
<b>861111</b>	Fastening clamp for 50 ml flask	<b>N/A -</b>
<b>861063</b>	Fastening clamp for 100 ml flask	<b>N/A -</b>
<b>861064</b>	Fastening clamp for 200/250 ml flask	<b>N/A -</b>
<b>861065</b>	Fastening clamp for 500 ml flask	<b>N/A -</b>

## LSE Orbital Shaker



- 3 easily interchangeable platforms (available separately)
- Programmable or continuous
- Resistant to chemicals
- Easy to clean
- Suitable for use in cold rooms and incubators
- Delivered without platform

Speed (rpm)	100 to 1200
Orbit (mm)	3
Timer	30 sec to 99 min or continuous
Operating conditions	4 °C to 65 °C, 85% relative humidity
Max. load (kg)	2
Weight (kg)	7.3
Dimensions W x L x D (mm)	262 x 337 x 130
Warranty	5 years
<b>Cat. No.</b>	<b>006710</b>
<b>Price</b>	<b>N/A -</b>

### Platforms

Cat. No.	Description	Price
<b>0048010</b>	Platform for 4 microplates	<b>N/A -</b>
<b>0048011</b>	Platform with anti-slip mat	<b>N/A -</b>
<b>0048012</b>	Roller platform for bottle or rack	<b>N/A -</b>

## Grant-Bio PSU-10i Platform Orbital Shaker

For many laboratory applications: shaking all shapes of flasks (round, standard, Erlenmeyer, beakers, Petri dishes...).

- **Soft start of shaking**
- **Variable speed from 50 to 450 rpm**
- **10 mm orbit**
- **Integrated timer from 1 min to 96 hours with automatic shut-off**
- **For loads up to 3 kg**
- **Low energy consumption**
- **Suitable for use in cold rooms or incubators**



T° range (°C)	Amb. + 5 to 40
Timer increment	5 sec.
L x D x H (mm)	220 x 205 x 90
Voltage input (V)	12
Amperage input (A)	1

Cat. No.	Description	Price
144210B	PSU-10i* orbital shaker	N/A -

\* To be completed with a platform

### Platforms

Cat. No.	Description	L x W (mm)	Price
144214	Universal platform with fitting bars	270 x 195	N/A -
144215B	BIO-PP4 Platform with non-slip mat	230 x 230	N/A -
144216	Platform with clamps for 12 x 100 ml flasks or 150 ml beakers	250 x 190	N/A -
144217	Platform with clamps for 6 x 250 ml flasks or 400 ml beakers	250 x 190	N/A -
144741	Platform for 88 tubes max. diameter 30 mm	275 x 205	N/A -



## KM2 Orbital shaker with battery

- **Battery powered shaker**
- **40 hours run time, 10 hours charging time**
- **Supplied with an adhering platform**
- **Charger included**

Orbit (mm)	20
Speed (rpm)	5 to 220
Platform dimensions (mm)	200 x 295
Maximum load (kg):	2
Operating conditions	4 to 45 °C, 95% humidity
Battery	12 V/7 Ah
Ext. dimensions W x L x H (mm)	250 x 415 x 145
Charger power supply	100 - 240 V, 50/60 Hz
Weight (kg)	10.5
<b>Cat. No.</b>	<b>497031</b>
<b>Price</b>	<b>N/A -</b>



## ClearLine® orbital shakers

- With classic platform or "Magic Clamp" magnetic platform (to be used with the classic platform, sold separately)
- Full range of orbital shakers: 4 models



**ClearLine®**



060956CL



060965CL



060976CL



060954CL

Model	Mini orbital shaker	Orbital shaker	MP orbital shaker for microplates	Blotter orbital shaker
Max. shaking speed (rpm)	300	300	1500	70
Min. shaking speed (rpm)	50	30	200	3
Amplitude (mm)	19	19	3	19
Ext. dimension (cm)	28 x 27 x 13	28 x 33 x 7.5	28 x 27 x 12	35 x 30 x 15
Weight (kg)	5.5	11.5	5.5	5.5
Power supply	230 V, 50 - 60 Hz	230 V, 50 - 60 Hz	240 V, 50 - 60 Hz	230 V, 50 - 60 Hz
Erlenmeyer capacity: 125 / 250 / 500 ml	12 / 8 / 6	24 / 14 / 9	-	24 / 14 / 9 *
Erlenmeyer capacity: 1 / 2 l	4 / -	5 / 2	-	5 / 3 *
Number of microplates	-	4	4	-
"Magic Clamp" compatible	Yes	Yes	No	No
Supplied with	Classic shape-Tray + anti-slip mat 24 x 20 cm	Classic shape-Tray + anti-slip mat 33 x 30 cm	Plate-for 4 microplates	Classic-tray + Anti-slip mat 35 x 30 cm
Display	Digital	Touchscreen	Digital	Analog
Cat. No.	<b>060956CL</b>	<b>062819CL</b>	<b>060976CL</b>	<b>060954CL</b>
Price	N/A -	N/A -	N/A -	N/A -

### Accessories for Mini orbital shaker

Cat. No.	Description	Price
<b>060964B</b>	Platform with adjustable bars	N/A -
<b>060957</b>	Magnetic Magic Clamp universal platform for flasks and tube racks 24 x 29.5 cm	N/A -

### Accessories for orbital shaker

Cat. No.	Description	Price
<b>060968</b>	Platform for Erlenmeyer flask 5 x 500 ml	N/A -
<b>060969</b>	Platform for Erlenmeyer flask 8 x 250 ml	N/A -
<b>060970</b>	Platform for Erlenmeyer flask 12 x 125 ml	N/A -
<b>060971</b>	Platform for 4 standard microplates	N/A -
<b>060972</b>	Universal spring platform	N/A -
<b>060966</b>	Universal Magic rack 35 x 30 cm for flasks and tube racks	N/A -

### Accessories for Blotter orbital shaker

Cat. No.	Description	Price
<b>060955</b>	Stacking Platform (with 4 feet, height 7 cm)	N/A -
<b>060930</b>	Platform extension kit (added height 3.2 cm)	N/A -

### Magic Clamp accessories \*

Cat. No.	Description	Price
<b>060962</b>	Magnetic clamp for Erlenmeyer 50 ml	N/A -
<b>060961</b>	Magnetic clamp for Erlenmeyer 125 ml	N/A -
<b>060960</b>	Magnetic clamp for Erlenmeyer 250 ml	N/A -
<b>060959</b>	Magnetic clamp for Erlenmeyer 500 ml	N/A -
<b>062647</b>	Adjustable clamp for Erlenmeyer 125, 250, 500 ml	N/A -
<b>060958</b>	Magnetic clamp for 1 l Erlenmeyer	N/A -
<b>060967</b>	Magnetic clamp for 2 l Erlenmeyer **	N/A -
<b>060963</b>	Clamp rack for 30 x 15 ml and 20 x 50 ml tubes	N/A -

\* Magic Clamp accessories can only be used with MagicClamp platforms, on compatible devices.

\*\* Not compatible with the orbital Mini shaker (Cat.No. 060956CL)

## Solaris SK2000 and SK4000 orbital shakers with intuitive touch screen

- Touch screen with clear display of speed and time
- Programmable protocols
- Alarm and operation history
- USB and Ethernet connection for data retrieval, program transfer, event history
- Triple Eccentric Heavy Duty Drive System
- Easy to remove platforms with rounded edges for easy cleaning
- Small footprint on the bench
- 2 Models Available: Solaris SK2000 or Solaris SK4000
- To be equipped with a universal platform and tube clamps or racks



Model	SK2000	SK4000
Orbital shaking	Yes	Yes
Shaking speed (rpm)	15 - 525	
Operating time	99 h 59 min (in 1 min increments) or continuous mode	
Max. load with platform and samples	25	43
Noise level at maximum speed dB (A)	62	
Interfaces	2 x USB-A 2.0, 1 x RJ45	
Dimensions L x W x D (mm)	47 x 37 x 15	65 x 58 x 18
Weight (kg)	20.9	75.1
Power supply	100–240 V, 50 / 60 Hz	
Cat. No.	229112	229113
Price	N/A -	N/A -

### Accessories for the solaris SK4000 orbital shaker

Cat. No.	Description	Price
229121	Universal platform 18 x 30	N/A -
229122	Universal stacking platform 18 x 30	N/A -
229123	Assembly kit for stacking platform 18 x 30	N/A -
229124	Universal platform 36 x 24	N/A -

### Accessories for the solaris SK2000 orbital shaker

Cat. No.	Description	Price
229114	Universal platform 12 x 14	N/A -
229115	Universal stacking platform 12 x 14	N/A -
229116	Assembly kit for stacking platform 12 x 14	N/A -
229117	Universal platform 18 x 18	N/A -
229118	Universal stacking platform 18 x 18	N/A -
229119	Assembly kit for stackable platform 18 x 18	N/A -
229120	Universal platform 18 x 24	N/A -

## High capacity orbital shaker

- Designed for continuous use and heavy loads
- Delivered without platform

Speed (rpm)	20 - 300
Timer	30 sec to 99 min or continuous
Orbit (mm)	19
Maximum load (kg)	10
Operating temperature	4 °C to 65 °C
Dimensions W x D x H (mm)	389 x 427 x 158
Weight (kg)	21
Cat. No.	096783
Price	N/A -



### Platforms

Cat. No.	Description	Price
096833	Platform with anti-slip mat	N/A -
096834	Universal platform with bar	N/A -
096835	Platform for flask clamp	N/A -

### Clamps

Cat. No.	Description	Price
096546	Clamp for Erlenmeyer flask 1000 ml	N/A -
096545	Clamp for Erlenmeyer flask 500 ml	N/A -
096832	Clamp for Erlenmeyer flask 2000 ml	N/A -
096543	Clamp for Erlenmeyer flask 125 ml	N/A -
096544	Clamp for Erlenmeyer flask 205 ml	N/A -

## Grant-Bio PSU-20i multi-functional orbital and vibratory shaker



- ▶ 3 modes: orbital, reciprocal orbital and vibrating
- ▶ Interchangeable and multi-level platforms
- ▶ Reciprocal orbital movement from 0 to 360° (30° increments)
- ▶ Vibration: 0 to 5° with 0 to 5 second pulses

Speed	20 - 250 rpm
Amplitude	20 mm
Programmable time	1 min. to 96 h
Maximum load	8 kg
Dimensions (W x D x H)	410 x 410 x 130 mm
Weight	14 kg
Power supply	12 V DC

Cat. No.	Description	Price
144580	Orbital shaker PSU-20i	N/A -

## MAJOR Linear Shaker



- ▶ Possibility to adapt a second platform
- ▶ Microprocessor control
- ▶ Delivered with a 30 x 30 cm platform
- ▶ Timer from 0 to 9999 minutes in 1 minute increments
- ▶ Coal-free motor
- ▶ Operating temperature: ambient to +40 °C
- ▶ Painted aluminium platform / painted steel housing

Speed (rpm)	5 - 100
Capacity (kg)	15
Amplitude (mm)	20
Platform dimensions (cm)	30 x 30
Dimensions (mm) / Weight (kg)	260 x 310 x 130 / 7

Cat. No.	022062B
Price	N/A -

### Accessories

Cat. No.	Description	Price
022239	Stacking platform 30 x 30 cm with feet and smooth mat	N/A -
022240	Pin mat 30 x 30 cm	N/A -

## Pro 30 Reciprocal Shaker



- ▶ Vigorous shaker
- ▶ Small footprint, suitable for use in cold rooms or incubators
- ▶ 4 types of platforms available
- ▶ 30 x 30 cm platform with anti-slip mat to be ordered separately

Speed	6 - 150 rpm
Timer	20 to 20 min or continuous
Increment	10 mn
Movement	linear 30 mm amplitude
Maximum load	5 kg
Temperature range	+4 °C to 70 °C
Ext. dimension (W x D x H)	25.5 x 32 x 16 cm

Cat. No.	096537
Price	N/A -

### Accessories

Cat. No.	Description	Price
096539	Flat platform, anti-slip mat	N/A -
096540	Double flat platform, anti-slip mat	N/A -
096541	Universal spring tray	N/A -
096542	Platform for flasks without clamps	N/A -

### Clamps

Cat. No.	Flasks clamps	Price
096543	125 ml (max load 16)	N/A -
096544	250 ml (max load 9)	N/A -
096545	500 ml (max load 5)	N/A -
096546	1 litre (max load 4)	N/A -





## Digital linear shaker



- Compact Reciprocal shaker, for a maximum weight of 7.5 kg
- LDC display, digital speed and timer control
- Wide range of combinations allowing the use of different types of glassware
- Integrated timer or continuous operation
- PC control via RS232 interface
- Supplied with a bare tray to be completed with the holders

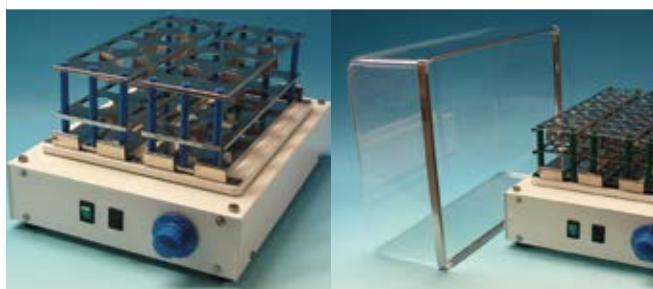
Power supply	85~265 VAC
Frequency - Power	50/60 Hz - 25 W
Speed -Amplitude	100-350 rpm / 10 mm
Programmable time	1 min - 19 h 59 min
Maximum load	7.5 kg
Dimensions (W x D x H) / Weight	420 x 370 x 100 mm / 13 kg

Cat. No.	Description	Price
861020B	Reciprocal Shaker SK-L330-PRO	N/A -

### Accessories

Cat. No.	Description	Price
861022	Lengthways 4 roller attachment for Erlenmeyer and bottles	N/A -
861024	Non-slip shaker base for cell culture	N/A -
861023	Clip fastening holder	N/A -
861110	Fastening clamp for 25 ml flask	N/A -
861111	Fastening clamp for 50 ml flask	N/A -
861063	Fastening clamp for 100 ml flask	N/A -
861064	Fastening clamp for 200/250 ml flask	N/A -
861065	Fastening clamp for 500 ml flask	N/A -

## Kahn Reciprocal Shaker



Works on timer or continuously.

Model	15 min.	60 min.
Speed (rpm) (for 1.2 kg load)	280	
Amplitude (mm)	25	
Timer (min)	15	60
Dimensions W x D x H (mm)	240 x 380 x 155	
Weight (kg)	5	
Cat. No.	024016	024017
Price	N/A -	N/A -

### Packs

Composition	Kahn shaker 15 min + lid + 3 racks of 30 tubes Ø 13.5 mm	Kahn shaker 60 min + 2 racks of 8 tubes Ø 33 mm	Kahn shaker 60 min + lid + 3 racks of 30 tubes Ø 13.5 mm
Cat. No.	024013	024014	024015
Price	N/A -	N/A -	N/A -

### Accessory

Cat. No.	Description	Price
024018	Metacrylate safety lid	N/A -

### Stainless steel tube racks

Cat. No.	Tube holding	Number of tubes	Tube Ø (mm)	Price
024004	Vertical	30	13.5	N/A -
024005	Vertical	60	13.5	N/A -
024006	Vertical	24	16.5	N/A -
024007	Vertical	8	33	N/A -
024008	Vertical	8	35.5	N/A -
024009	Tilted	30	13.5	N/A -
024010	Tilted	60	13.5	N/A -
024011	Tilted	24	16.5	N/A -
024012	Tilted	8	33	N/A -

## Everlast rocker shaker

- **Rocker with adjustable tilt angle, variable speed**
- **Optional additional tray with 4 wells, distance between the trays 8.5 cm**
- **Warranty: 5 years**

Speed (rpm)	3 to 80
Tilt angle	0 to 20 °
Tray Dimensions (cm)	40.5 x 30
External dimensions (cm)	40.5 x 33 x 15.25
Operating environment (C°)	From 0 to 65
Max. load (kg)	7
Weight (kg)	9
Power supply	50-60 Hz

Cat. No.	Description	Price
060996	Everlast Rocker 247 with anti-slip rubber mat	N/A -
060997	Extra tray	N/A -



Everlast Rocker 247

Everlast Rocker 247 with additional tray



## MAJOR rocker shaker

- **Microprocessor control**
- **delivered with a platform**
- **Timer from 0 to 9999 minutes in 1 minute increments**
- **Coal-free motor**
- **Operating temperature: ambient to +40 °C**
- **Painted aluminium platform / painted steel housing**
- **Possibility to adapt a second platform**
- **Power supply: 220 volts**

Model	MS-NRK-30
Speed (rpm)	5 - 100
Capacity (kg)	15
Stirring angle (°)	12
Dimensions (mm) / Weight (kg)	300 x 310 x 130 / 7
Platform dimensions (cm)	30 x 30
Cat. No.	022061B
Price	N/A -



### Accessories

Cat. No.	Description	Price
022239	Stacking platform 30 x 30 cm with feet and smooth mat	N/A -
022240	Pin mat 30 x 30 cm	N/A -

## ProBlot Rocker 25 shaker

- **Platform rocker shaker**
- **4 models with single or double platform**
- **Adjustable speed**
- **Fixed angle of 7°**
- **Suitable for use in cold rooms or incubators**
- **2 tray sizes: 26 x 20 cm or 30 x 30 cm**

Model	ProBlot Rocker 25 and 25D	ProBlot Rocker 25XL and 25XLD
Platform L x W (cm)	26 x 20	30 x 30
Speed	5 to 120 tilts/min	5 to 120 tilts/min
Mouvement	Rocking	Rocking
Rotation axis	Fixed 7°	Fixed 7°
Temperature range	+ 4 °C to 70 °C	+ 4 °C to 70 °C
Ext. dim. (W x D x H)	29 x 32 x 14.5 cm	32.5 x 36 x 14.5 cm
Weight	5.3 kg	5.3 kg
Power supply	230 V 50/60 Hz	230 V 50/60 Hz

Cat. No.	Description	Price
096567	ProBlot 25 single platform 26 x 20 cm	N/A -
096568B	ProBlot 25D double platform 26 x 20 cm	N/A -
096571	ProBlot 25XL single platform 30 x 30 cm	N/A -
096572	ProBlot 25XLD double platform 30 x 30 cm	N/A -



### Accessories

Cat. No.	Description	Pack unit	Price
096564	Pin mat 30 x 30 cm for holding tubes	1	N/A -
096565	HOLDINGband	4	N/A -

## Rocker II shaker



- ▶ Working temperature 4 °C to 40 °C
- ▶ Low voltage transformer
- ▶ For tubes, vials, microplates
- ▶ Supplied with a non-slip mat
- ▶ Adjustment of stirring angle and speed
- ▶ Thin connection cable designed to pass through incubator joints
- ▶ Warranty: 2 years

Tilt angle / Speed adjustable	0° to 20° / 3 to 25 rpm
Dim. without platform L x W x H (mm)	191 x 178 x 127
Dim. with platform L x W x H (mm)	305 x 305 x 178
Net weight (kg) / Shipping weight (kg)	3.90 / 5.90
Height (mm) / Weight (kg) of tray	63 / 0.70
Power supply	12V DC, 0.5 A via 115/230 V AC
Recommended max. weight (kg)	2.70
<b>Cat. No. complete shaker with tray</b>	<b>215018</b>
<b>Price</b>	<b>N/A -</b>

## Rocker shakers 35 EZ



- ▶ Manually adjustable tilt angle
- ▶ Adjustable timer and speed
- ▶ Supplied with anti-slip mat
- ▶ Available in single or double tray versions

Tray	Single	Double
Speed (rpm)	10 to 120	
Timer	10 to 120 minutes or continuous	
Maximum load (kg)	5	
Tilt	Adjustable to ± 20°	
Operating temperature	-10 °C to 70 °C	
Power supply	230 V	
Dimensions W x D x H (cm)	36 x 36 x 17	36 x 36 x 26
Weight (kg)	6.57	7.8
<b>Cat. No.</b>	<b>096785</b>	<b>096786</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

## BenchBlotter™ Rocker shaker



- ▶ Optimises blot washing, gel staining and destaining
- ▶ Gentle shaking
- ▶ Shaking 10 rpm, angle ± 8°
- ▶ Compact, can be used in incubator or cold room
- ▶ Optional: an additional stackable platform with an anti-slip mat or mat with grooves

Tilt angle	±8°
Platform size (mm)	300 x 300
Working Area	Anti-slip mats
Load capacity	3.2 kg
Working temperature	+4 °C to +65 °C
Dimensions (mm)	340 x 300 x 120
Weight (kg)	3
Warranty	2 years
Power supply	230 VAC 50 Hz 0.2 A

Cat. No.	Description	Price
<b>060903</b>	Rocker BenchBlotter™ + 1 platform with anti-slip mat	<b>N/A -</b>

### Options

Cat. No.	Description	Price
<b>060904</b>	Stacking platform 300 x 300 mm anti-slip mat	<b>N/A -</b>
<b>060905</b>	Stacking platform 300 x 300 mm grooved mat	<b>N/A -</b>
<b>060906</b>	Anti-slip mat 300 x 300 mm	<b>N/A -</b>
<b>060907</b>	Pin mat 300 x 300 mm	<b>N/A -</b>

## Movil-Tub Rocking shaker



- ▶ Shaker with tilting tray and removable silicone plate with anti-slip grooves
- ▶ Especially recommended for haematology, chemistry and microbiology
- ▶ Tube Capacity: 15 (from ø x W to 20 x 100 mm)
- ▶ H x L x D: 100 x 370 x 120 mm / Weight: 2 kg
- ▶ Speed: 15 rpm / tilt angle: 48°
- ▶ Consumption: 4 W

Cat. No.	Description	Price
<b>068564</b>	Tilting Mixer Shaker Movil-Tub	<b>N/A -</b>

## LSE Rocker Shakers

- 2 models: single or double platform
- Adjustable speed
- Fixed angle at 7°
- Can be used in a cold room or incubator.

Model	Simple platform	Dual platform
Speed (rpm)	2 - 60	
Timer	0 to 2 h or continuous	
Stirring angle	7°	
Maximum load (kg)	5	
Working temperature	4 - 70 °C	
Platform dimensions L x W (mm)	30 x 30	
Ext. dim. L x D x H (mm)	325 x 360 x 145	
Weight (kg)	5.3	5.8
Cat. No.	006704	006706
Price	N/A -	N/A -



## Stuart SSM3/SSM4 Rocker or 3D mini Shaker

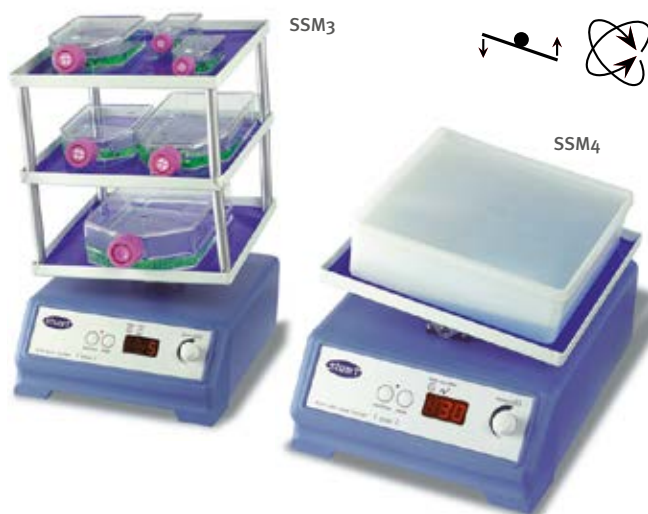
For gentle shaking. Choice of two models:

- model SSM3: 3D shaking for all biotechnology applications (DNA extraction, cell washing etc.); easily adjustable shaking angle for optimised shaking;
- model SSM4: rocking type motion for shaking culture flasks or Petri dishes..

The two models are equipped with an anti-slip mat, speed regulator and digital timer. Optional system with three shelves to increase the shaking capacity

- Very small footprint
- Digital timer and stirring speed
- Optional shelves to increase capacity

Model	SSM3	SSM4
Shaking type	3D	Rocker
Tray Dimensions (L x W)	235 x 235 mm	235 x 235 mm
Speed	5 to 70 rpm	5 to 70 rpm
Shaking angle	3 to 12°	7°
Ajustable angle	Yes, by hand	No
Maximum load	3 kg	3 kg
Ext. dimension (L x W x H) mm	240 x 300 x 165	240 x 300 x 150
Cat. No.	090786	090788
Price	N/A -	N/A -



### Accessory

Cat. No.	Description	Price
090787	Shelf system (2 trays for 8 feet)	N/A -

## Stuart SSL3 and SSL4 3D shakers or rockers

For a gentle stirring.

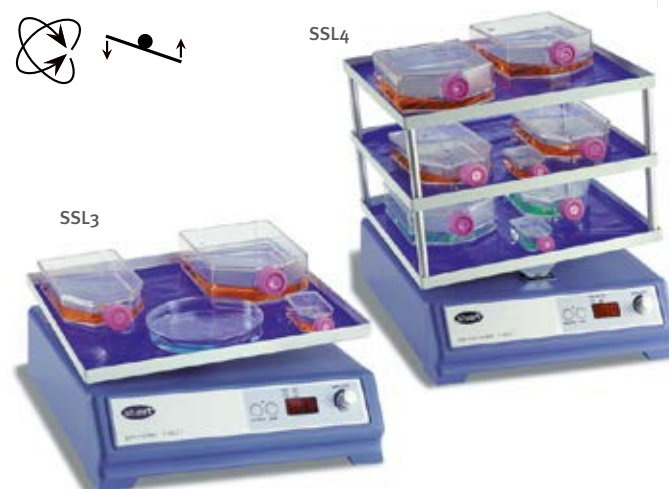
Choice of two models:

- model SSL3: 3D shaking for all biotechnology applications (DNA extraction, cell washing etc.); easily adjustable shaking angle for optimised shaking;
- model SSL4: rocking type motion for shaking culture flasks or Petri dishes..

The two models are equipped with an anti-slip mat, speed regulator and digital timer.

- Large tray ideal for all types of shaking
- Digital timer and stirring speed
- Optional shelves to increase capacity

Model	SSL3	SSL4
Shaking type	3D	Rocker
Tray Dimensions (L x W)	355 x 355 mm	335 x 355 mm
Shaking speed	5 to 70 rpm	5 to 70 rpm
Shaking angle	3 to 12°	7°
Ajustable angle	Yes, by hand	No
Maximum load	10 kg	10 kg
Ext. dimension (L x W x H) mm	360 x 420 x 170	360 x 420 x 160
Cat. No.	090775	090774
Price	N/A -	N/A -



### Accessory

Cat. No.	Description	Price
090776	Shelf system (2 trays for 8 feet)	N/A -

## Roller shaker for tubes and bottles



- Adjustable speed, digital display
- Continuous operation or timer up to 999 min
- Corrosion and wear resistant construction
- Stacking bar kit, to stack two rollers
- Optional remote control for easy incubator operation
- Warranty: 2 years

Shaking speed (rpm)	1 - 80
Maximum bottle diameter (mm)	120
Number of rollers	6 supplied - up to 11
Rollers dimensions (Ø x W)(mm)	28 x 259
Maximum load (kg):	6.5
Dimensions (W x L x H) (mm)	378 x 360 x 72
Weight (kg)	6.5
<b>Cat. No.</b>	<b>079581</b>
<b>Price</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Units/box	Price/box
079586	Additional rollers	2	N/A -
079582	Rings for 50 ml tubes	20	N/A -
079583	Rings for 15 ml tubes	20	N/A -
079584	Stacking bar kit	4	N/A -
079585	Remote control	1	N/A -

## Movil-Rod Roller and tilt mixer



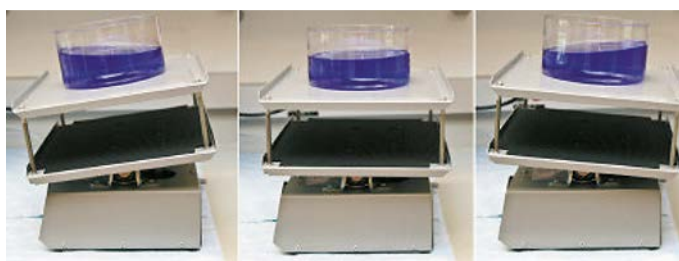
- 7-roller shaker
- Double rotation and rocking movement
- Very good homogenisation by sinusoidal probe
- For tubes up to 35 mm in diameter
- H x L x D: 98 x 349 x 265 mm
- Speed: 10 to 80 rpm
- Roller length: 24 cm
- Consumption: 12 W
- Weight: 3.6 kg



Cat. No.	Description	Price
068625	MOVIL-ROD Roller and tilt mixer	N/A -

## RockerTape Shaker Adhesive

- For use with rockers, shakers, incubators
- Do not exceed 300 rpm shaking
- RockerTape roll: 38 mm x 6 m, 1 roll
- RockerTape sheets: 30 x 30 cm, 3 sheets/package



Cat. No.	Description	Price
053454	RockerTape sheets	N/A -

## TubeRoller shakers

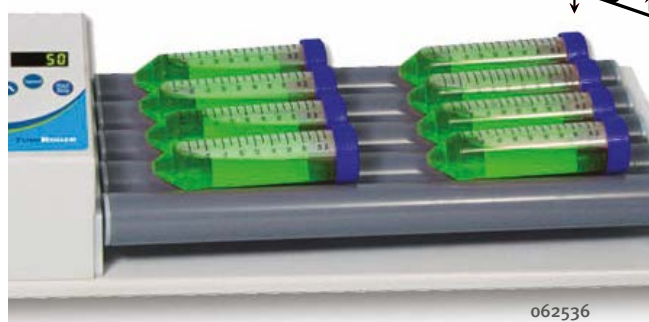
Tube shakers with simultaneous movement: rotation of the rollers and tilting of the platform.

- Tilting movement with wave effect, +/- 5° inclination with each rotation of the rollers

- Fixed roller speed of 38 rpm
- For tubes and bottles between 8 and 200 mm in diameter



Model	5 roll	10 roll
Rotation speed	38 rpm, fixed, +/- 10 %	
Movement	Simultaneous Roll & Tilt, +/- 5°	
Power supply	230 V , 50-60 Hz	
External dimensions (mm)	450 x 180 x 90	450 x 360 x 90
Weight (kg)	5	10
No. of tubes 12 x 75 mm	12	26
No. of tubes 16 x 100 mm	8	18
No. of tubes 16 x 125 mm	8	18
No. of tubes 15 ml	8	18
No. of tubes 50 ml	8	18
Cat. No.	062535	062536
Price	N/A -	N/A -



062536

## 2D and 3D variable speed rocker shakers

- Stainless steel tray
- Adjustment of stirring angle and speed
- Suitable for use in cold rooms or incubators
- Warranty: 2 years

Model	Model 2D	Model 3D
Operating temperature	+ 4 °C to 65 °C	+ 4 °C to + 65 °C
Speed	2 to 30 rpm	2 to 30 rpm
Tilt angle	Variable +/- 0 ° to +/- 30°	Variable +/- 0 ° to +/- 30°
Maximum load (kg)	2.3	2.3
L x W (mm) tray	350 x 300	300 x 300
Weight (kg)	3	3
Power supply	230 V AC, 50 Hz, 0.2 A	
Supplied with	Classic Platform + anti-slip mat	Classic Platform + anti-slip mat and pin mat
Cat. No.	060927	060928
Price	N/A -	N/A -



060928

## 3D Benchwaver shaker



- ▶ Undulating, 3-dimensional motion
- ▶ Adjustable speed and tilt angle
- ▶ Supplied with a non-slip mat
- ▶ Can be completed with a second stacking tray and a dimpled tube mat (optional)

Load capacity (kg)	9
Speed (rpm)	5 to 105
Tilt angle	0 to 10°
Tray dimensions (mm)	343 x 330
Operating environment (°C)	+2 to +60 °C
Power supply	240 V, 50-60 Hz, 50 W
Dimensions W x D x H (mm)	330 x 343 x 247.5
Weight (kg)	5.5
<b>Cat. No.</b>	<b>062648</b>
<b>Price</b>	<b>N/A -</b>



With additional stackable tray



Dimpled mat for tubes

### Accessories

Cat. No.	Description	Price
062691	Additional stackable tray	N/A -
062692	Dimpled mat for tubes	N/A -

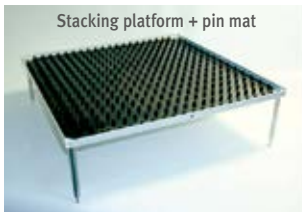
## BlotBoy™ Lab Bench Rockers



- ▶ Optimised speed and tilt angle for blotting, washing and staining
- ▶ Additional stacking platform, sold separately
- ▶ Can be used in incubators or cold rooms
- ▶ Warranty: 2 years
- ▶ Comes with classic platform and non-slip mat



Model	Mini BlotBoy™	BlotBoy™
Speed / Stirring angle	10 rpm / ± 8°	10 rpm / ± 8°
External dimensions (mm)	270 x 190 x 200	300 x 300 x 210
Tray dimensions (mm)	270 x 190	300 x 300
Load capacity (kg)	1.6	1.6
Working temperature	+ 4 °C to 65 °C	+ 4 °C to 65 °C
Power supply	230V, 50 Hz, 0.2A	230V, 50 Hz, 0.2A
<b>Cat. No.</b>	<b>060908</b>	<b>060914</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>



Stacking platform + pin mat



Stackable platform + non-slip mat

### Accessories

	Cat. No.	Price	Cat. No.	Price
Stackable platform + non-slip mat	060910	N/A -	060904	N/A -
Stacking platform + pin mat	060911	N/A -	060905	N/A -
Non-slip mat	060912	N/A -	060906	N/A -
Pin mat	060913	N/A -	060907	N/A -



## Grant-Bio PMR-30 platform rocker shaker

- Compact shaker
- Balance movement with fixed angle of 7°
- Variable speed from 5 to 30 rpm
- Integrated timer
- Low energy consumption

- Can be used in cold rooms or incubators
- Applications: gel staining and destaining, antibody staining, washes, hybridisations, immuno precipitations, Southern blots, Western blots, in situ.



Cat. No.	Description	Price
144201	PMR-30 Platform Rocker Shaker	N/A -

Speed (rpm)	5 to 30
Tilt angle	7°
Operating T° (°C)	4 to 45
Max. load (kg)	1
Timer	1 min to 24 h
Timer increment	10 sec
L x D usable area (mm)	215 x 215
L x D tray (mm)	238 x 238
L x D motor case (mm)	220 x 205
Total height (mm)	110
Voltage input (V)	12
Current input	CD
Amperage input (A)	0.5



144203

### Accessory

Cat. No.	Description	Price
144203	Pin mat	N/A -

## Grant-Bio PS-3D platform shaker

- Compact shaker
- 3D movement with a fixed angle of 7°
- Variable speed from 5 to 60 rpm
- Low energy consumption
- Suitable for use in cold rooms or incubators
- Applications: gel staining and destaining, antibody staining, washes, hybridisations, immuno precipitations, Southern blots, Western blots, in situ.

Speed (rpm)	5 to 60
Tilt angle	7°
Operating T° (°C)	4 to 45
Max. load (kg)	1
L x D tray (mm)	215 x 215
L x D motor case (mm)	85 x 150
Total height (mm)	100
Voltage input (V)	12
Current input	CD
Amperage input (A)	0.5



Cat. No.	Description	Price
144204	PS-3D Platform Shaker	N/A -

### Accessory

Cat. No.	Description	Price
144203	Pin mat	N/A -

## Grant-Bio PS-M3D multi-functional shaker

Multi-functional 3D shaker:

- 3D rotation with a variable speed from 1 to 100 rpm;
- Reciprocal 3D shaker, with partial or total rotation of the plate from 1° to 360°
- shaker - vibrator, angle from 1 to 6°, with pulses from 1 to 5 seconds.

All these modes can be used in continuous mode or managed by the timer. Possibility to generate programs combining different stirring modes sequentially.

- Very compact
- Variable speed from 1 to 100 rpm
- Low energy consumption
- Can be used in a cold room or incubator

### ► Applications

- Gel staining and destaining
- Antibody staining
- Washes
- Hybrids
- Immunoprecipitation
- Southern Blots
- Western Blots
- In situ fixings

Tilt angle	7°
∅ orbit (mm)	22
<b>Orbital mode</b>	
Speed (rpm)	1 to 100
Timer (sec)	1 to 250
<b>Reciprocal mode</b>	
Shaking angle	1 to 360°
Timer (sec)	0 to 250
<b>Vibration mode</b>	
Shaking angle	1 to 6°
Timer (sec)	1 to 5
Number of cycles	1 to 125
Operating T° (°C)	4 to 45
Max. load (kg)	1
L x D usable area (mm)	215 x 215
L x D tray (mm)	238 x 238
L x D motor case (mm)	225 x 170
Total height (mm)	125



Cat. No.	Description	Price
144205	PS-M3D Multi-Function Rotator	N/A -

### Accessory

Cat. No.	Description	Price
144203	Pin mat	N/A -

## Minimixer™ and Biomixer™ 3D Shakers



- ▶ Pin mat ideal for centrifuge tubes or haemolysis tubes
- ▶ For use in incubators and cold rooms
- ▶ Supplied complete with platform and pin mat
- ▶ Additional platform available (sold separately)
- ▶ 2 year warranty

Model	MiniMixer™		BioMixer™	
Speed / Tilt angle	20 rpm / ± 20 °		20 rpm / ± 20 °	
Dimensions (mm) L x W x H	270 x 190 x 200		300 x 300 x 210	
Tray (mm) L x W	270 x 190		300 x 300	
Load capacity (kg)	2		2	
Operating temperature	+4 °C to 65 °C		+4 °C to 65 °C	
	Cat. No.	Price	Cat. No.	Price
Shaker with classic platform + pin mat	060909	N/A -	060915	N/A -
Stacking platform + anti-slip mat	060910	N/A -	060904	N/A -
Stacking platform + pin mat	060911	N/A -	060905	N/A -
Anti-slip mat	060912	N/A -	060906	N/A -
Pin mat	060913	N/A -	060907	N/A -

thermo scientific

## Digital rockers, 3D or orbital shakers

- ▶ Digital display of parameters
- ▶ Feedback control with PID
- ▶ Continuous or timer operation
- ▶ For use in incubators (without CO<sub>2</sub>), chambers and refrigerators
- ▶ Warranty: 2 years



Model	Rocker	3D	Orbital	Orbital for microplates
Rotation speed (rpm)	1 to 70	5 to 120	50 to 500	150 to 1200
Accuracy (rpm)	± 2 rpm	± 2 rpm	± 2 %	± 2 rpm
Timer	Continuous or up to 99h 59min			
Tilt angle	1° to 15°	1° to 12°	-	-
Orbit diameter (mm)	-	-	10	2.5
Maximum load (kg):	4.5	9.8	4.5	4
Dimensions (W x L x H) (mm)	390 x 292 x 206	383 x 295 x 224	383 x 284 x 130	383 x 260 x 145
Tray dimensions (W x L) (mm)	322 x 282	316 x 276	310 x 284	275 x 235
Weight (kg)	13.5	13.5	14.4	12.8
Composition	Platform, anti-slip pin mat and 6 fastening strips included		Universal platform included	Platform for 4 microplates included
Cat. No.	229199	229200	229202	229201
Price	N/A -	N/A -	N/A -	N/A -

### Accessories for shakers

Cat. No.	Description	Rocker	3D	Orbital	Orbital for microplates	Price
229216	Platform with anti-slip mat			*		N/A -
229219	Platform for 6 microplates				*	N/A -
229208	Universal platform			*		N/A -
229204	Anti-slip mat 322 x 282 mm	*	*			N/A -
229205	Anti-slip pin mat 322 x 282 mm	*	*			N/A -
229206	Elastic band (6 units)	*	*			N/A -
229215	Adhesive Mat 14 x 14 cm			*		N/A -
229207	Universal attachment			*		N/A -
229209	Clamp for 50 ml flask			*		N/A -
229210	Clamp for 100/125 ml flask			*		N/A -
229211	Clamp for 250 ml flask			*		N/A -
229212	Clamp for 500 ml flask			*		N/A -
229213	Clamp for 1 l flask			*		N/A -
229214	Clamp for 2 l vial			*		N/A -
229220	Holder for 50 tubes 1.5 ml			*	*	N/A -
229221	Holder for 40 tubes 15 ml			*	*	N/A -
229222	Holder for 21 tubes 50 ml			*	*	N/A -

## GyroMini Twister 3D mini-shaker

- > 3D shaker
- > Fixed angle
- > Can be used in cold chamber
- > Ideal for staining gels, washing blotting membranes, sample homogenisation



Speed	24 rpm
Movement	3D
Rotation axis	Fixed 20°
Temperature range	+ 4 °C to + 40 °C
Ext. dimension (W x D x H)	24.1 x 17.15 x 15.24 cm
Cat. No.	096566
Price	N/A -

## Gyro Twister 3D Shaker

- > 3D shaker
- > 2 models: fixed angle or adjustable angle
- > Can be used in cold chamber
- > Supplied with a non-slip platform
- > Ideal for staining gels, washing blotting membranes, sample homogenisation

Rotation axis	<b>Ajustable +/- 10°</b>
Speed	3-60 rpm
Timer	20 to 20 min or continuous
Movement	3D
Temperature range	+ 4 °C to 70 °C
Ext. dim. (W x D x H)	33 x 35.2 x 21 cm
Cat. No.	096560
Price	N/A -



### Accessories

Cat. No.	Description	Pack unit	Price
096561	Stacking platform 30 x 30 cm with hardware	1	N/A -
096562	Platform 40 x 40 cm with anti-slip mat	1	N/A -
096563	Platform 50 x 50 cm with anti-slip mat	1	N/A -
096564	Pin mat 30 x 30 cm for holding tubes	1	N/A -
096565	Elastic Lashing	4	N/A -

## Enduro™ 3D Mini-Mix™ Shaker

Speed	18 rpm
Maximum load	0.8 kg
Ambient t° range	4 to 65 °C
L x D x H (mm)	203 x 178 x 105
Power, W	120 V – 60 Hz
Cat. No.	096615
Price	N/A -

- > For blotting and staining gels
- > Fixed and optimised stirring speed and angle
- > 3D movement
- > To be completed by blot boxes with the dimensions of the classic gels:
  - 3 - 5 ml for mini blot box 9.1 x 6.6 cm
  - 6 - 10 ml for blot box 11.7 x 8.9 cm



### Blot boxes

Cat. No.	Description	Price 10 units
096616	Mini blot box - 9.1 x 6.6 cm	N/A -
096618	Blot box - 11.7 x 8.9 cm	N/A -

# ROTARY SHAKERS

## ClearLine® rotary shaker



- Adjustable stirring speed and angle
- Sequential, reversible rotation (rotation up to 360 °C and then reversal)
- Can be used in incubators
- Warranty: 2 years
- Clips with anti-slip coating

- 3 carousels included:
- 48 x 1.5 ml (for tubes Ø 10 - 14 mm)
  - 20 x 15 ml (for tubes Ø 15 - 20 mm)
  - 12 x 50 ml (for tubes Ø 25 - 30 mm)

**ClearLine®**

Speed	1 - 40 rpm
Tilt	variable 0 - 90°
Capacity	12 x 50 ml, 20 x 15 ml, 48 x 2 ml
Timer	Continuous / 1 seconde to 9 heures
Operating temperature	+ 4 °C - + 60 °C
Dimensions (mm)	21 x 27 x 32
Weight (kg)	3.2
Power supply	100V - 240V; 50 - 60 Hz; 25W
Cat. No.	062646CL
Price	N/A -

## MX-RD-E Vertical Carousel Rotator



- Compact
- Can be used in incubators
- Tube adapters included

Capacity	60 microtubes 1.5 ml 16 centrifuge tubes 15 ml 8 centrifuge tubes 50 ml
Tilt angle	90 °
Shaking speed (rpm)	0 - 80
Operating temperature	5 to 40 °C
Operating RH %	Up to 80
Dimensions W x D x H (mm)	300 x 220 x 310
Weight (kg)	2
Power supply	100-240 V, 50/60 Hz, 20 W
Protection class	IP 21
Cat. No.	861069
Price	N/A -

## Tube Rotator with Carousel



- With microprocessor control
- Digital display
- Adjustable speed
- 5 optional carousels
- Timer and countdown timer
- 2 year warranty
- Supplied with carousel for 14 tubes from 27 to 34 mm



Speed	4 - 80 rpm
Carousel angle	90 - 180 °
Timer	Up to 99 hours and 59 minutes and automatic switch-off
Power supply	19.4 V DC, 474A via adapter 100-240 volts AC

Cat. No.	Description	Price
215130	Drum shaker + carousel for 14 tubes 50 ml	N/A -

### Carousels

Cat. No.	Description	Price
215131	Carousel for 46 tubes 9 - 11 mm	N/A -
215132	Carousel for 28 tubes 14-18 mm	N/A -
215133	Carousel for 14 tubes 27 - 34 mm	N/A -
215134*	Carousel for 63 culture tubes 18.5 mm	N/A -
215135*	Carousel for 63 culture tubes 14 mm	N/A -

\* For tubes in horizontal position

## Revolver Rotator



With standard holder for 36 microtubes



With holder for 50 ml tubes

- 360° revolution
- Adjustable angle from 0 - 90°
- Interchangeable tube holders
- Suitable for use in cold rooms and incubators



Capacity	36 x 1.5/2 ml tubes or 6 x 50 ml tubes
Speed	20 rpm
Ambient temperature range	+ 4 °C - 65 °C
Maximum load	0.8 kg
Dimensions (LxDxH)	23.9 x 12.7 x 15.24 cm
Weight	2 kg
Power	230 V 50/60 Hz

Cat. No.	Description	Price
096619	Shaker with holder for 36 x 1.5 or 2 ml microtubes	N/A -
096620	Holder for 10 x 15 ml tubes and 16 x 5-7 ml tubes	N/A -
096621	Holder for 6 x 50 ml tubes	N/A -

## Intelli-Mixer RM-2 blotter and vortex mixer

- 3 models: S (225 mm rod), M (250 mm rod), L (330 mm rod)
- For 0.5 to 50 ml tubes
- Rotation speed: 1 to 99 rpm
- 2 vortex intensities
- 2 free programmes
- Flash memory for storing personal data
- Numerous tube holders

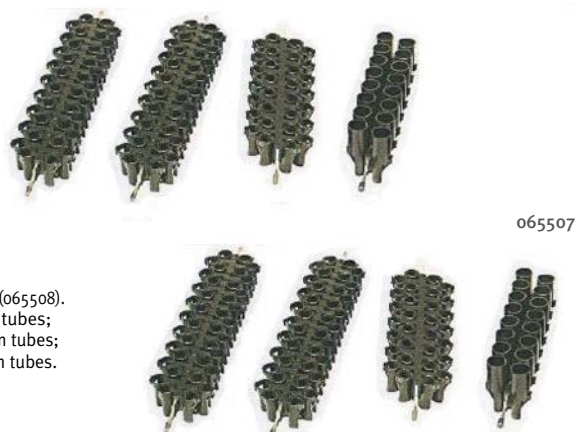


Cat. No.	Description	Price
065500	Intelli-Mixer RM-2 L	N/A -
065509	Intelli-Mixer RM-2 M	N/A -
065510	Intelli-Mixer RM-2 S	N/A -

### Rods-racks

For	RM-2 S			RM-2 M			RM-2 L		
Tube Ø (mm)	Tubes No.	Cat. No.	Price	Tubes No.	Cat. No.	Price	Tubes No.	Cat. No.	Price
8 - 11	28	065515S	N/A -	32	065515M	N/A -	44	065504	N/A -
13	24	065514S	N/A -	28	065514M	N/A -	40	065503	N/A -
16	14	065513S	N/A -	16	065513M	N/A -	20	065502B	N/A -
30	8	065512S	N/A -	10	065512M	N/A -	14	065501	N/A -
30***	6	065518-S	N/A -	6	065518-M	N/A -	12	065507	N/A -
Combined**	-	065517-S	N/A -	-	065517-M	N/A -	-	065506	N/A -
Platform rocking	-	065519-S*	N/A -	-	065519-M*	N/A -	-	065508*	N/A -

065512M



\* Rocking platform dimensions: 175.5 x 170 mm (065519S); 203.5 x 170 mm (065519M) and 79.5 x 170 mm (065508).  
 \*\* 065506: mixed rack for 16 x 8-11 mm tubes, 12 x 13 mm tubes, 4 x 16 mm tubes, 2 x 30 mm tubes;  
 Cat. No. 065517S: mixed rack for 8 x 8-10 mm tubes, 4 x 13 mm tubes, 4 x 16 mm tubes, 2 x 30 mm tubes;  
 Cat. No. 065517M mixed rack for 8 x 8-10 mm tubes, 8 x 13 mm tubes, 4 x 16 mm tubes, 2 x 30 mm tubes.  
 \*\*\* Rack with tubes in horizontal position.

## ClearLine® programmable rotary shakers

- Advanced programming, with a wide choice of rotation modes
- 360° rotation, complete or interrupted by pauses and mixing intervals
- Suitable for use in cold rooms and incubators
- Optional platform for rocker function

Model	Rotary shakers	Mini Rotary shaker
Speed (rpm)	1 - 80	
Stirring angle	Up to 360°	
Accessories included	5 racks for 6 tubes 1.5 ml 8 racks for 1 tube 15 ml 2 racks for 1 tube 50 ml	2 racks for 6 tubes 1.5 ml 2 racks for 1 tube 15 ml 2 racks for 1 tube 50 ml
Timer	1 s to 99 h 59 min or continuous	
Operating temperature	+ 2 °C to + 70 °C	
Dim. (W x D x H) (mm)	410 x 137 x 199	290 x 137 x 199
Weight (kg)	2.27	1.8
Power supply	100 - 240 V, 50 - 60 Hz, 3 A	
Cat. No.	062649CL	062650CL
Price	N/A -	N/A -

### Adapters

Cat. No.	For tubes (ml)	For Ø tube (mm)	Tubes/Adapters	Max number of adapters		Shaking type	Units/cardboard box	Price / cardboard box
				Rotary shaker	Mini Rotary Shaker			
062651	1.5	10-13	6	16	10	Double position	2	N/A -
062652	15	16-17	1	22	10	Vertical	2	N/A -
062653	50	28-30	1	12	6	Vertical	2	N/A -
062654	15	16-17	6	2	1	Horizontal	1	N/A -
062655	50	28-30	6	2	1	Horizontal	1	N/A -

### Accessories

Cat. No.	Description	Price
062656	Rocking platform size 152 x 254 mm	N/A -
062657	Rocking platform size 152 x 127 mm	N/A -



## MiniLabroller Rotary shaker



Depending on the accessories, the MiniLabroller may contain:

- 36 x 1.5 or 2 ml microtubes;
- 10 x 15 ml tubes  $\varnothing$  15-17 mm;
- 12 x  $\varnothing$  12 - 13 mm tubes;
- 6 x 50 ml tubes.

Supplied with holder for 36 microtubes 096577 and power adapter.

- > Simple and versatile
- > Operates in vertical, horizontal or 45° position, depending on the placement of the rack and its holders
- > Low bench space requirement
- > Can be used in cold storage at 4 °C or in incubators up to 40 °C

Speed	20 rpm
Maximum load	0.8 kg
Temperature range	+4 °C to 40 °C
Ext. Dim. (W x D x H)	21.3 x 10.2 x 12.6 cm
Weight	1.8 kg
Voltage	230 V - 50 / 60 Hz

Cat. No.	Description	Price
096576	MiniLabroller with rack for 36 x 1.5 - 2 ml microtubes	N/A -
096577	Rack for 36 x 1.5 ml microtubes	N/A -
096578	Rack for 10 x 15 ml tubes and 12 x 5 ml tubes	N/A -
096579	Rack for 6 x 50 ml tubes	N/A -

## Tube Revolver Rotary shaker



- > Interchangeable drums for different tube sizes
- > Small dimensions
- > Adjustable drum angle from 0 to 90°
- > Ready to operate, maintenance-free motor
- > More efficient agitation with the "oscillation" mode (oscillation every 40° in the rotation cycle)
- > Warranty: 2 years

Rotation speed (rpm)	10-40
Operating temperature	4 °C - 60 °C
Dimensions L x W x H (mm)	225 x 154 x 195
Weight (kg)	1.2
Power (W / V / Hz)	6 / 100-240 / 60
Drums included	2 drums 10/15 ml 2 drums 5/7 ml 2 drums 1.5/2 ml 1 drum 50 ml
Cat. No.	079547
Price	N/A -

### Drums

Cat. No.	For tubes (ml)	Max. number of tubes	Units/box	Price/box
079548	10/15	7	2	N/A -
079549	5/7	7	2	N/A -
079550	1.5/2	15	2	N/A -
079551	0.5/0.8	21	2	N/A -
079552	50	6	1	N/A -

## Rotary shakers for tubes



- > 360° revolution, adjustable angle 0 - 90°
- > Speed: 18 rpm
- > For tubes from 0.5 to 50 ml, interchangeable tube racks
- > Rotation direction can be changed with a simple gesture
- > Warranty: 2 years
- > Supplied with 2 racks of each size

Cat. No.	Description	Price
141270B	Rotary shaker 18 rpm	N/A -
141381B	Digital variable speed rotary shaker	N/A -

### Racks

Cat. No.	Tube vol. (ml)	Number of tubes per rack	Total shaker capacity	Units/box	Price/box
141266B	0.5 - 1	21	84	2	N/A -
141267B	1.5 - 2	15	60	2	N/A -
141268B	5 - 7	7	28	2	N/A -
141269B	10 - 15	7	7	2	N/A -
141271B	50	6	6	1	N/A -

### Accessories for RotoFlex™ Plus

Cat. No.	Description	Units/box	Price
841401	Magnetic platform for Western blot	1	N/A -
841402	Metal strip for magnetic platform 10 x 1.7 cm	4	N/A -

## Roto-Shake Genie Universal Rotary Shaker and Orbital Rocker

Shaker with rotational or rocker platform. Consisting of a variable speed motor and a multi-functional platform (L x W: 30 x 24 cm):

- the platform, which can be used on 2 sides, is magnetic: it can be easily removed and allows any metal support to be freely attached
- an optional tray turns it into a 3D orbital shaker.

- **Variable speed**  
(rocker: 10 to 70 cycles per minute; rotation: 5 to 35 rpm)
- **Orbital angle: +/- 10 °**
- **Operating temperature: 0 °C to 38 °C**
- **Rotary agitation of hybridisation bags magnetically fixed with metal bars**
- **Orbital shaker(rocker) for flat bottles and trays**
- **Rotary shaker for tubes that can be placed in horizontal, vertical or oblique position**
- **L x W x H of the whole: 50 x 26 x 25 cm**

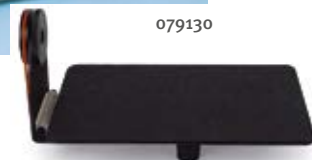
Roto-Shake - supplied complete with:

- the motor; the double-sided platform;
- 1 clip plates for 12 tubes ø 10 - 13 mm;
- 1 clip plates for 6 tubes ø 15 - 17 mm;
- 1 clip plates for 3 tubes ø 28 - 30 mm;
- 4 stainless steel bars for fixing 2 bags of 15 x 15 cm;
- 1 anti-slip tray to be magnetically fixed to the platform.



### Horizontal attachment

- **Horizontal attachment for western blots and for holding cells in suspension**



Cat. No.	Description	Price
079130	Horizontal attachment for Roto-Shake Genie	N/A -

Cat. No.	Description	Price
079001	Complete Roto-Shake	N/A -

### Accessories for Roto-Shake

Cat. No.	Description	Pack unit.	Price
079125	3D orbital shaker tray	1	N/A -
079027	Clip for hybridization tube	2	N/A -
079028	Universal clip	2	N/A -
079029	Magnetic strip	1	N/A -
079050	Clip for 100 ml flask	1	N/A -
079002	Tray with 12 clamps for tubes ø 10 - 13 mm	6	N/A -
079003	Tray with 6 clamps for tubes ø 15 - 17 mm	6	N/A -
079004	Tray with 3 clamps for tubes ø 28 - 30 mm	6	N/A -
079005	Stainless steel strips	16	N/A -
079006	Set of 2 trays and 24 strips in stainless steel	-	N/A -



## Grant-Bio PTR-35 and PTR-60 360° Vertical rotary shakers

360° vertical rotation, reciprocation and vibration and pause functions. Stirring speed of 10 to 100 rpm or 10 to 60 rpm.

Can be used as a continuous function or managed by the timer. Each mode links to another, making the device flexible to all modes combined.

The PTR-35 comes with a platform for 26 x 1.5 to 15 ml tubes (ø 15 mm max), the PTR-60 comes with a platform for 48 microtubes.

Model	PTR-35	PTR-60
Microtube capacity	26	48
Timer	1 min to 24 h	1 min to 24 h

### 360° vertical mode

	PTR-35	PTR-60
Speed (rpm)	10 à 100	10 à 60
Automatic timer (sec)	1 to 250	1 to 250

### Reciprocal mode

	PTR-35	PTR-60
Stirring angle (°)	1 to 90	15 to 90
Automatic timer (sec)	1 to 250	1 to 250

### Vibration mode

	PTR-35	PTR-60
Stirring angle (°)	1 to 5	1 to 5
Automatic timer (sec)	1 to 5	1 to 5
Pause (sec)	1 to 5	1 to 5

	PTR-35	PTR-60
Operating T°(°C)	4 to 40	4 to 40
Maximum load (kg)	1	1.5

	PTR-35	PTR-60
Ext. Dim. L x D x H (mm)	365 x 195 x 155	420 x 230 x 230
Voltage input (V)	12	220-240

	PTR-35	PTR-60
Power input	CD	AC (50 - 60 Hz)
Amperage input (A)	0.5	0.3

Cat. No.	144208B	144209
Price	N/A -	N/A -



### Platforms

Cat. No.	Capacity	For model	Price
144225	8 tubes 30 mm and 22 tubes 15 mm (for PTR-60)	PTR-60	N/A -
144226	14 tubes 30 mm (for PTR-60)	PTR-60	N/A -
144606	26 tubes 2 - 15 ml (tubes up to ø 15 mm)	PTR-35	N/A -
144607	5 tubes 50 ml (tubes ø 30 mm) and 12 tubes 2 - 15 ml	PTR-35	N/A -
144608	10 tubes 50 ml (ø 30 mm)	PTR-35	N/A -
144609	10 tubes 50 ml (tubes ø 30 mm) with clips	PTR-35	N/A -
144610	22 tubes 2 - 15 ml (tubes ø 15 mm) with clips	PTR-35	N/A -
144847	1 x 96-well plate	PTR-35	N/A -

# ROTARY SHAKERS

## Reax 2 Mixer Shaker



- ▶ Rotator mixer for Erlenmeyer flasks, tube racks, round flasks, graduated cylinders
- ▶ Speed from 20 to 100 rpm
- ▶ Dimensions: 510 x 180 x 235 mm
- ▶ Max. load: 1 kg
- ▶ Supplied complete with its universal rack consisting of 2 adjustable height trays to block the containers



Cat. No.	Description	Price
498608	Reax 2 complete Mixing shaker	N/A -

### Accessory

Cat. No.	Description	Price
498609	Rack 20 tubes 10-18 mm	N/A -

## BenchMixer XLQ Rotary Shaker



- ▶ Orbital/vortex rotary shaker
- ▶ Programmable stirring time and intensity
- ▶ Suitable for QuEChERS sample preparation protocols
- ▶ Supplied with racks for 7 x 50 ml tubes, 50 x 15 ml tubes and 50 x 1.5 or 2 ml tubes
- ▶ Programmable and reproducible sample shaking
- ▶ Pulse mode
- ▶ Creation of a vortex in the vertically arranged tubes

Rotation orbit (mm)	3.6
Shaking speed (rpm)	500 to 2500
Stirring time	From 1 min. to 100 hours / Pulse mode
Dimension L x W x H (cm)	38.5 x 23.5 x 42
Weight (kg)	13
Power supply	240 V, 50-60 Hz
<b>Cat. No.</b>	<b>062775</b>
<b>Price</b>	<b>N/A -</b>

## Genie Rotator Shaker



- ▶ 90° plate shaker
- ▶ Standard model delivered with standard elastic platform (079112), magnetic model delivered with magnetised platform (079113)
- ▶ Suitable for use in cold rooms or incubators
- ▶ Warranty: 2 years

Speed (rpm)	5 - 35
Dimensions L x D x H (mm)	400 x 175 x 400
Platform dimensions (mm)	
- Standard	260 x 260
- Magnetic	290 x 315
Weight (kg)	5.2
Operating conditions	0° - 38 °C and 95% max. humidity

Cat. No.	Description	Price
079110	Rotator Genie standard 230 V (European plug)	N/A -
079111	Rotator Genie magnetic 230 V (European plug)	N/A -

### Accessories

Cat. No.	Description	Pack unit.	Price
079112	Standard platform with elastics	1	N/A -
079113	Magnetic platform	1	N/A -
079077*	Tray with 12 clamps for tubes ø 10 - 13 mm	1	N/A -
079078*	Tray with 6 clamps for tubes ø 15 - 17 mm	1	N/A -
079079*	Tray with 3 clamps for tubes ø 28 - 30 mm	1	N/A -
079002*	Tray with 12 clamps for tubes ø 10 - 13 mm	6	N/A -
079003*	Tray with 6 clamps for tubes ø 15 - 17 mm	6	N/A -
079004*	Tray with 3 clamps for tubes ø 28 - 30 mm	6	N/A -
079005*	Stainless steel strips	16	N/A -
079027*	Clip for hybridization tube	2	N/A -
079028*	Universal clip	2	N/A -
079029*	Magnetic box for 100 microtubes	1	N/A -
079050*	Clip for 100 ml flask	1	N/A -



\* Cat. No. to match with magnetic platform 079113





## Grant-Bio BTD Digital Dry Block Heater for Microtubes



- Digital display
- With circular fixed block
- For 49 samples:
  - 24 x 1.5/2 ml microtubes,
  - 15 x 0.5 ml microtubes,
  - 10 x 0.2 ml microtubes
- Timer programmable from 1 minute to 96 hours
- Fast heat-up from 25 °C to 37 °C in 4 minutes and from 25 °C to 100 °C in 15 minutes
- Safety: IEC61010 compliant

Temperature range (°C)	Ambient +5 °C to 100 °C
Temperature selection (°C)	+25 °C to +100 °C
Stability à 37 °C (°C) / Uniformity (°C)	+/- 0.1 / +/- 0.1
Voltage (V)	220 - 240 V
Dimensions L x D x H (mm)	210 x 230 x 110
Block: ø x depth (mm)	130 x 45
Power (W)	200
Overheating protection	Fuse
<b>Cat. No.</b>	<b>144327</b>
<b>Price</b>	<b>N/A -</b>

## Grant-Bio QBD Digital Dry Block Heater



- Temperature range ambient +5°C to 130°C, 4-digit display of block temperature
- With rapid heat-up time
- Sold without block: to be completed with one, two or four interchangeable blocks (see page 1389)
- Safety: protection against overheating
- Timer 1 to 999 minutes and delayed start up to 72 hours
- Optional covering lid
- 2 calibration points
- Warranty: 3 years

Model	QBD1	QBD2	QBD4
Block capacity	1	2	4
Temperature range (°C)	Amb. +5 °C to 130 °C	Amb. +5 °C to 130 °C	Amb. +5 °C to 130 °C
Temperature selection (°C)	15 °C to 130 °C	15 °C to 130 °C	15 °C to 130 °C
Stability at 37 °C (°C)	+/- 0.1	+/- 0.1	+/- 0.1
Uniformity in the block (°C)	+/- 0.1	+/- 0.1	+/- 0.1
Inter-block uniformity (°C)	+/- 0.2	+/- 0.2	+/- 0.2
Temp. rise from 25 °C to 100 °C	20 minutes	20 minutes	20 minutes
Display resolution (°C)	0.1	0.1	0.1
Dimensions L x D x H (mm)	200 x 230 x 100	200 x 280 x 100	200 x 380 x 100
Power QBD1 / 2 / 4 (W)	150	300	600
<b>Cat. No.</b>	<b>144331</b>	<b>144332</b>	<b>144333</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>

## Grant-Bio QBH2 Digital Dry Block Heater for molecular biology



- Designed specifically for molecular biology applications
- Compact design, takes up little bench space
- Operates from 5 °C above ambient temperature to 200 °C
- Timer 1 to 999 minutes and delayed start up to 72 hours
- 2 calibration points
- Warranty: 3 years

- Sold without blocks: to be completed with interchangeable blocks (see page 1389):
  - 144315 for 0.2 ml, strips or microplates;
  - 144316 0.5 ml microtubes;
  - 144317 1.5 ml microtubes.

Model	QBH2
Temperature range (°C)	Ambient +5 °C to 200 °C
Working selection (°C)	15 °C to 200 °C
Stability at 37 °C (°C)	+/- 0.1
Uniformity in the block (°C)	+/- 0.1
Inter-block uniformity (°C)	+/- 0.2
Temperature rise from ambient to maximum	15 minutes
Display resolution (°C)	0.1
Dimensions L x D x H (mm)	200 x 280 x 100
Power (W)	300
<b>Cat. No.</b>	<b>144334</b>
<b>Price</b>	<b>N/A -</b>

## Polycarbonate safety covers

Cover 144337 on heating block 144333



- Excellent transparency: very good visibility
- Protection against accidents (splashes, hot blocks)
- Suitable for QBD and QBH2 models

Cat. No.	Description	Price
144335	Cover for QBD1	N/A -
144336	Cover for QBD2 and QBH2	N/A -
144337	Cover for QBD4	N/A -

### External temperature sensor

Temperature control of the block or sample.  
Stainless steel rod size 3 x 30 mm. 35 cm of cable.

Cat. No.	Description	Price
144338	External temperature sensor	N/A -

## Interchangeable blocks for QBD and QBH2

- The shape of the wells allows easy access to extraction tools or thermometers
- 63 mm depth: ensures excellent temperature accuracy
- Dimensions: 140 x 50 x 63 mm

Cat. No.	Block for	Capacity tubes	Price
144307	Solid block	-	N/A -
144308	Tubes ø 10 mm	24	N/A -
144309	Tubes ø 12 mm	24	N/A -
144310	Tubes ø 13 mm	12	N/A -
144311	Tubes ø 16 mm max and tubes 15 ml	12	N/A -
144312	Tubes ø 18 mm	12	N/A -
144313	Tubes ø 24 mm and universal flasks	5	N/A -
144314	Tubes ø 29 mm and 50 ml	4	N/A -
144315	0.2 ml microtubes, individual or in strips	56	N/A -
144316	0.5 ml microtubes	24	N/A -
144317	1.5 ml microtubes	24	N/A -
144318	2 ml microtubes	24	N/A -
144812	5 ml microtubes	12	N/A -



## Microtiter blocks for QBD2 and QBH2

Designed specifically for molecular biology applications.

Two models:

- for 0.2 ml microtubes or strips - 96-well configuration (uniformity between wells:  $\pm 0.3$  °C);
- for flat, round or conical bottom microtiter plates - also for culture plates (uniformity between wells:  $\pm 0.5$  °C).

- Microtiter microplate block: with double layer cover
- Extraction tool supplied with the blocks
- ø x D of wells for microtubes: 6.2 x 14 mm
- Microtube block dimensions: 140 x 100 x 40 mm
- Microplate block dimensions: 140 x 100 x 50 mm

Cat. No.	Description	Price
144340	Block for 0.2 ml microtubes (96-well configuration)	N/A -
144339	Block for 96-well microtiter plates	N/A -



## MyBlock Mini Digital Dry Bath

- Compact (fits in the hand) and portable (with 12 volt adapter)
- Transparent lid
- Temperature uniformity
- Model with heated lid (060998): better temperature control, temperature rise to 37 °C in 2 minutes
- To be completed with a block - interchangeable blocks for tubes from 0.2 to 50 ml
- Available with cooling function down to 0 °C (062640)

Temperature range	Amb. +5 °C to 80 °C	Amb. +5 °C to 100 °C	Amb. -25 °C to 100 °C
Programmable minimum temperature	20 °C		0 °C
Temperature accuracy	$\pm 0.5$ °C	$\pm 0.3$ °C	$\pm 0.5$ °C
Temperature increments / uniformity	0.1 °C / $\pm 0.2$ °C		
Dimensions (L x D x H) (mm)	100 x 150 x 110	105 x 150 x 115	110 x 162 x 140
Weight (kg)	1		
Power supply	100 - 240V / 50 - 60 Hz / 50W		
Cat. No.	060946B	060998	062640
Price	N/A -	N/A -	N/A -

### Blocks

Cat. No.	Description	Price
060947	40 x 0.2 ml block or 5 PCR strips	N/A -
060948	24 x 0.5 ml block	N/A -
062573	15 x 1.5 ml block	N/A -
060949	15 x 1.5 ml block *	N/A -
060950	15 x 1.5 ml block or 2 ml (conical bottom) *	N/A -
060951	4 x 15 ml block (can only be used without cover) *	N/A -
060952	2 x 50 ml block (can only be used without cover) *	N/A -
062644	15 x 2 ml block (chromatography vials or cryotubes) *	N/A -
062643	Block 15 x tubes ø 12/13 mm or vacutainers (can only be used without cover) *	N/A -
062645	Block for 8 cuvettes (can only be used without cover) *	N/A -

\* not compatible with block with heated lid ref. 060998



### Accessory

Cat. No.	Description	Price
060953	12-volt adapter	N/A -

## MyBlock and IsoBlock Heated Dry Baths



MyBlock Mono



myBlock i (single chamber drybath)

- ▶ Digital temperature control
- ▶ Hinged lid
- ▶ Suitable for Quick-Flip universal blocks
- ▶ MyBlock: optional temperature sensor
- ▶ IsoBlock: two isolated compartments, allowing independent control of temperature and incubation time

Model	Myblock Mono	Myblock Duo	IsoBlock
Temperature range	Ambient + 5 °C to 105 °C		
Temperature accuracy	± 0.1 %		
Increments / Uniformity	0.1 °C / ± 0.2%		
Timer	1 min to 99 h 59 min		
Dimensions W x L x H (mm)	180 x 250 x 130	160 x 365 x 130	160 x 365 x 130
Weight (kg)	4.5	4	4.5
Power supply	230 V, 50-60 Hz		
Cat. No. without block	062576	062577	062580
Price	N/A -	N/A -	N/A -
Cat. No. with Quick-Flip block	062578	062579	-
Price	N/A -	N/A -	-

### Accessories

Cat. No.	Description	Price
060919	Solid block for slides	N/A -
060920	Block for 24 x 1.5 ml microtubes (shaped)	N/A -
060921	Block for 24 x 1.5 ml or 2 ml microtubes	N/A -
060922	Block for 24 microtubes 0.5 ml	N/A -
060923	Block for 12 x 15 ml tubes	N/A -
062561	Block for 5 x 50 ml tubes	N/A -
060924	Block for 20 tubes ø 10 mm or 2 ml tubes	N/A -
060925	Block for 20 tubes ø 13 mm	N/A -
060926	Block for 12 tubes ø 15 mm or 16 mm	N/A -
060931	Block for 48 x 0.2 ml tubes or 6 x 8-tube PCR strips	N/A -
060933	Block for 96-well PCR plates 0.2 ml for 1 block	N/A -
060934	Block for 96-well PCR plates 0.2 ml for 2 and 4 blocks	N/A -
060935	Block for microtiter plate for 2 or 4 blocks	N/A -
062582	Quick-Flip Universal Block: Side A: for 24 x 1.5/2ml tubes and 14 x 0.5ml tubes Side B: for 6 PCR strips, 48 x 0.2ml tubes, or one PCR plate (with two Quick-Flip blocks)*	N/A -
062581	External temperature sensor for MyBlock	N/A -



With open lid



IsoBlock shown with lid open

\* Adaptable to PCR plates only on MyBlock Duo

## Digital Dry Baths



- ▶ 3 models: 1 block, 2 blocks and 4 blocks
- ▶ Blocks size: 76 x 95 x 50 mm
- ▶ Temperature range:
  - 1 and 2 block models: ambient +5 °C to 150 °C
  - 4 block model: ambient +5 °C to 130 °C
- ▶ Easy to use
- ▶ Block removal tool
- ▶ Temperature and time selection by turning the knob
- ▶ PID microprocessor control
- ▶ 4-digit LCD display
- ▶ Accuracy: resolution 0.1 °C, accuracy ± 0.2 °C, block uniformity ± 0.2 °C
- ▶ Delivered without block
- ▶ Warranty: 2 years

### Blocks

Cat. No.	Description	Price
060919	Solid block for slides	N/A -
060920	Block for 24 x 1.5 ml microtubes (shaped)	N/A -
060921	Block for 24 x 1.5 ml or 2 ml microtubes	N/A -
060922	Block for 24 x 0.5 ml microtubes	N/A -
060923	Block for 12 x 15 ml tubes	N/A -
062561	Block for 5 x 50 ml tubes	N/A -
060924	Block for 20 tubes ø 10 mm or 2 ml tubes	N/A -
060925	Block for 20 tubes ø 13 mm	N/A -
060926	Block for 12 tubes ø 15 mm or 16 mm	N/A -
060931	Block for 48 x 0.2 ml tubes or 6 x 8-tube PCR strips	N/A -
060933	Block for 96-well PCR plates 0.2 ml for 1 block	N/A -
060934	Block for 96-well PCR plates 0.2 ml for 2 and 4 blocks	N/A -
060935	Block for microtiter plate for 2 or 4 blocks	N/A -

Model	1 block	2 blocks	4 blocks
Dimensions (mm)	200 x 230 x 80	220 x 270 x 80	220 x 360 x 80
Weight (kg)	2.3	2.8	3.9
Power	200 W	400 W	600 W
Cat. No.	060916	060917	060918
Price	N/A -	N/A -	N/A -

## Compact Dry Baths

- Integrated temperature probe
- High heating speed
- Numerous block combinations
- Delivered without block

Model	Compact S	Compact D
Number of blocks	1	2
Temperature range	Ambient + 2 °C to 100 °C	
Temperature accuracy at 37 °C	± 0.5 °C	
Temperature uniformity at 37 °C	± 0.5 °C	
Heating time from 30 °C to 130 °C	16 min	20 min
Dimensions W x D x H (mm)	185 x 185 x 25	200 x 200 x 25
Weight (kg)	1	1.5
Power supply	12 V; 5 A	12 V; 7 A
Cat. No.	079643	079644
Price	N/A -	N/A -
Cat. No. heat insulator	079652	079653
Price	N/A -	N/A -
Cat. No. plastic cover	079654	079655
Price	N/A -	N/A -



079643



079644 + 079653

Blocks for compact dry baths



### Blocks

Cat. No.	Compatibility	Max. No. of tubes	Block size on total surface	Dimensions W x D x H (mm)	Price
079645	0.2 ml microtube	24	1/4	54 x 36 x 15	N/A -
079646	0.5 ml microtube	12	1/4	54 x 36 x 30	N/A -
079647	1.5 ml microtube	6	1/4	54 x 36 x 30	N/A -
079648	2.0 ml microtube	6	1/4	54 x 36 x 30	N/A -
079649	15 ml centrifuge tubes	6	1/2 (length)	108 x 36 x 72	N/A -
079650	50 ml centrifuge tubes	3	1/2 (length)	108 x 36 x 72	N/A -
079651	96-well plate	96-well	1/1	108 x 36 x 18	N/A -

## Digital Heating Blocks

- Stainless steel chamber
- Dual digital display
- Microprocessor control
- USB interface
- Lid included
- Models D1301 to D1304: supplied without block (to be ordered separately)
- Mini model: supplied with a holder for 12 x 1.5 ml tubes and a transfer rack
- Warranty: 3 years (except Mini: 1 year)



Mini Block

Model	D1301	D1302	D1304	Mini
Number of blocks	1	2	4	1 holder 12 x 1.5 ml
Dim. L x W x H (mm)	210 x 290 x 120		210 x 390 x 120	140 x 120 x 60
Temperature	Amb. +5 °C to 150 °C			Amb. +5 °C to 100 °C
Resolution	0.1 °C			
Temperature accuracy	± 0.3 °C			± 0.2 °C
Temperature uniformity	± 0.2 °C			± 0.2 °C
Timer	1 min to 99 h 59 min or continuous, 1 min increment			0 to 19:59 min or continuous
Weight (kg)	3.2		4.4	1.3
Power supply	230V 50/60 Hz			
Cat. No.	096796	096797	096798	096623
Price	N/A -	N/A -	N/A -	N/A -



### Anodised aluminium blocks for baths D1301, D1302 and D1304

- Block dimensions L x W (mm): 90 x 76 (simple) / 90 x 153 (dual)

Cat. No.	Compatibility	Max. number of tubes	Price
096779	Solid	-	N/A -
096592	0.2 ml tubes or strips	48 or 6 strips	N/A -
096799	Tubes Ø 6 mm	35	N/A -
096612	0.5 ml tubes	24	N/A -
096584	1.5 ml tubes	24	N/A -
096593	2 ml tubes	20	N/A -
096800	Tubes Ø 10 mm	20	N/A -
096776	Tubes Ø 12 mm	20	N/A -
096609	Tubes Ø 13 mm	12	N/A -
096801	Tubes Ø 15/16 mm	12	N/A -
096777	Tubes Ø 17 mm	12	N/A -
096594	15 ml centrifuge tubes	12	N/A -
096802	Tubes Ø 20 mm	6	N/A -
096791	Tubes Ø 25 mm	6	N/A -
096595	50 ml centrifuge tubes	5	N/A -
096804	96-well PCR plate, skirted or unskirted*	-	N/A -
096805	96-well plate (dual block**)	-	N/A -
096806	96-well skirted or unskirted PCR plate (dual block**)	-	N/A -
096807	384-well plate (dual block**)	-	N/A -

\*For D1301 bath only / \*\*For D1302 bath only

## MD mini Heating Block



- **Minimum size**
- **For use with PCR strips**
- **Versatile thanks to its various adaptable heating blocks**
- **Can be used as a water or bead bath up to 100 °C**

Block material	Shaped aluminium + polytetrafluoroethylene
Display	LED
Temperature increment	0.1 °C
Temperature uniformity at 37 °C	± 0.20 °C
Temperature accuracy at 37 °C	± 0.25 °C
Approximate preheating time	15 min
Lid preheating	Yes
Max. sample holding time	9999 mn
Special use	Water bath or bead bath
Power supply (V)	100-240
Power consumption (W)	50
Weight (kg)	0.6
Dimensions (mm)	153 x 125 x 97
<b>Cat. No. without stand</b>	<b>022145</b>
<b>Price</b>	<b>N/A -</b>

### Holders for tubes

Cat. No.	Number of wells	Tube volume (ml)	tube Ø (mm)	tube H (mm)	Price
022146	32	0.2	6.35	19	N/A -
022147	12	1.5	10.8	28.5	N/A -
022148	6	15	17.3	70	N/A -
022149	2	50	29.2	72	N/A -
022150	12	0.5	8	25	N/A -
022151	12	2	11	30	N/A -
022152	12	1.5	10.9	30	N/A -

### Accessories

Cat. No.	Description	Price
022153	Handle for PCR block with retention handle	N/A -
022154	Lid, dimensions (mm): 58.5 x 83 x 31.5	N/A -

## GENIUS dry heat baths



022031



022032

- **Compact**
- **Two models for one or two aluminium blocks**
- **The watertightness of the inner tank makes these heating blocks suitable for use as a mini water bath**
- **Microprocessor control**
- **Temperature range: ambient +5 °C to 150 °C**
- **Increment: 0.1 °C**
- **With temperature calibration**
- **Sealed aluminium inner tank**
- **Aluminium blocks**
- **Heated blocks and block racks must be ordered separately**

Cat. No.	Description	Price
022031	Genius single block dry bath	N/A -
022032	Genius dual block dry bath	N/A -
022051	Thermocouple	N/A -
022052	RS 232 cable	N/A -

### Blocks - dimensions: 79 x 104 x 50 mm.

Cat. No.	Description	Price
022035	Block for flat bottom microplate	N/A -
022036	Block for microplate or 96-well PCR plate	N/A -
022037	Block for flat bottom microplate for dual block	N/A -
022038	Block for microplate or 96-well PCR plate for dual block	N/A -
022039	Block for 64 x 0.2 ml tubes or 8 x 8 strips	N/A -
022041	Block for 20 x 0.5 ml tubes	N/A -
022042	Block for 20 x 1.5 or 2 ml tubes	N/A -
022043	Reversible block for 20 x 1.5 and 2 ml tubes or 30 x 0.5 ml tubes	N/A -
022044	Combined block: 12 x 1.5 or 2 ml tubes, 12 x 0.5 ml tubes	N/A -
022045	Block for 20 x 13 mm tubes	N/A -
022046	Block for 12 x 17 mm tubes for centrifuge tubes 15 ml	N/A -
022047	Block for 12 x 20 mm tubes	N/A -
022048	Block for 6 x 25 mm tubes	N/A -
022049	Block for 4 x 50 ml tubes, centrifuge tubes	N/A -

Temperature uniformity at 37 °C	+/- 0.2 °C
Temperature accuracy at 37 °C	+/- 0.2 °C
Timer	0 to 999 minutes
Operating temperature	Ambient temperature at + 40 °C
Output	RS 232
Voltage	110 V or 220 V
Dimensions	200 x 290 x 80 mm (W x L x H)
Weight	2.6 kg for single block model / 2.8 kg for dual block

## Elite Dry Bath Incubator

Model	EL-01	EL-02
Block capacity	1	2
Temperature	Amb. + 5 °C to 150 °C	Amb. + 5 °C to 150 °C
Increment	0.1 °C	0.1 °C
Temp. uniformity at 37 °C	+/- 0.2 °C	
Temp. accuracy at 37 °C	+/- 0.2 °C	
Timer	99:59 min	99:59 min
Operating temperature	Ambient temp. at + 40 °C	
Output	RS 232	
Voltage	220 V	
Power (W)	125	200
Dimensions (W x L x H) (mm)	152 x 150 x 135	152 x 230 x 135
Weight (kg)	2.1	2.8
Cat. No.	022103	022104
Price	N/A -	N/A -



### Three functions

1. Dry bath
2. Thermostatically controlled water bath
3. Dry bead bath with special blocks

**Blocks** - dimensions: 79 x 104 x 50 mm.

Cat. No.	Description	Price
022035	Block for flat bottom microplate	N/A -
022036	Block for microplate or 96-well PCR plate	N/A -
022037	Block for flat bottom microplate for dual block	N/A -
022038	Block for microplate or 96-well PCR plate for dual block	N/A -
022039	Block for 64 x 0.2 ml tubes or 8 x 8 strips	N/A -
022041	Block for 20 x 0.5 ml tubes	N/A -
022042	Block for 20 x 1.5 or 2.0 ml tubes	N/A -
022043	Reversible block for 20 x 1.5 and 2.0 ml tubes or 30 x 0.5 ml tubes	N/A -
022044	Combined block: 12 x 1.5 or 2.0 ml tubes, 12 x 0.5 ml tubes	N/A -
022045	Block for 20 x 13 mm tubes	N/A -
022046	Block for 12 x 17 mm tubes for centrifuge tubes 15 ml	N/A -
022047	Block for 12 x 20 mm tubes	N/A -
022048	Block for 6 x 25 mm tubes	N/A -
022049	Block for 4 x 50 ml tubes, centrifuge tubes	N/A -

Dry bath accepting 1 or 2 blocks for tubes or microplates. By removing the block, the appliance can be used as a water bath heater, thanks to its stainless steel inner tank.

- Version 1 or 2 blocks
- Can be used as a water bath
- Microprocessor control
- Aluminium blocks



**Blocs spéciaux** - Dry bath bead blocks. Supplied without beads, suitable for Elite, Genius and Ultimate models.

Cat. No.	L x W x H (mm)	For models	Adaptable to	Price
022142	104 x 79 x 76	Single block	022031, 022033, 022103	N/A -
022143	158 x 104 x 76	Dual block	022032, 022034, 022104	N/A -

## LSE Heating Blocks

- USB port
- Two digital screens
- Supplied with lid
- Blocks to be ordered separately (systems sold without blocks)



Number of blocks	1	2	4
Temp. Range	Ambient + 5 °C to 150 °C		
Temp. accuracy	± 0.3 °C		
Temperature uniformity	± 0.2° C		
Resolution	0.1 °C		
Dim. (W x D x H) (mm)	210 x 290 x 120	210 x 290 x 120	210 x 390 x 120
Weight (kg)	3.2	3.2	4.4
Cat. No.	006876-SB	006886-DB	006896-FB
Price	N/A -	N/A -	N/A -

### Blocks

Cat. No.	Compatibility	Max. number of tubes	Price
00480116	0.2 ml PCR tubes	48	N/A -
00480118	0.5 ml microtube	24	N/A -
00480119	1.5 ml microtube	24	N/A -
00480117	2 ml microtube	20	N/A -
00480124	15 ml tubes	12	N/A -
00480129	50 ml tubes	5	N/A -

## Digital Dry Bath HB120-S



- Digital interface with rotary knob
- Continuous or timer operation up to 99 h 59 min
- Integrated overheating protection
- Supplied with lid

Temperature range	Ambient at +120 °C
Temperature stability	± 0.5 °C
Temperature uniformity	± 0.5 °C
Heating rate	5.5 °C/min
Block material	Aluminium
Dimensions W x D x H (mm)	175 x 290 x 85
Weight (kg)	3
Cat. No.	861161
Price	N/A -

### Blocks

Compatibility	No. of wells	Low blocks	Price	Standard blocks	Price
0.2 ml microtube	54	861171	N/A -	861162	N/A -
0.5 ml microtube	40	861172	N/A -	861163	N/A -
1.5 ml microtube	40	861173	N/A -	861164	N/A -
2.0 ml microtube	40	861174	N/A -	861165	N/A -
Test tubes Ø 13 mm	45	-	-	861166	N/A -
5 or 15 ml centrifuge tubes	28	-	-	861167	N/A -
50 ml centrifuge tubes	8	-	-	861168	N/A -
96 or 384 well microplates	1	861175	N/A -	861169	N/A -
0.2 ml	18	861176	N/A -	861170	N/A -
0.5 ml	18				
1.5/2.0 ml	18				
96-well PCR plates or tubes or strips	1	861177	N/A -	-	-

## LabArmor Bead Heating Baths



- Stainless steel waterless bead bath, (no contamination)
- Temperature range: ambient + 5 °C to 80 °C
- Temperature uniformity at 37 °C: ± 0.5 °C / to 65 °C: ± 1 °C
- Fast heat-up, even and constant temperature
- No evaporation due to water heating
- Suitable for different sizes of tubes, petri dishes and plates
- 3 capacities: 6, 14 and 20 l
- Power 500 W 50/60 Hz, 230 V
- Lid included, no block needed, no racks needed

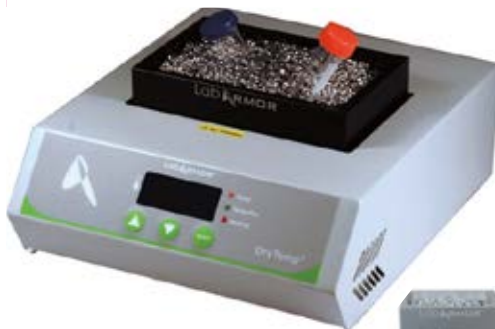
Model	M706	M714	M720
Capacity (l)	6	14	20
Bead capacity (l)	5	12	15
Int. dim. L x D x H (cm)	30.5 x 15.5 x 15.2	30.5 x 30.7 x 15.2	30.5 x 43.4 x 15.2
Ext. dim. L x D x H (cm)	40.4 x 31.2 x 21.6	40.4 x 47 x 21.6	40.4 x 59.3 x 21.6
Weight (kg)	13.6	29	38.5
Cat. No. with beads	582004	582006	582008
Price block + beads	N/A -	N/A -	N/A -
Block Cat. No.	582005	582007	582009
Price block	N/A -	N/A -	N/A -

### Beads



Cat. No.	Bead bottle volume (l)	Price
582000	0.75	N/A -
582001	2	N/A -
582002	4	N/A -
582003	8	N/A -

## DryTemp Bead Heating Baths



- Temperature range: amb. +5 °C to 150 °C
- Microprocessor controlled
- H x L x W (mm): 81 x 221 x 262
- Timer function
- Power supply: 230 V, 50/60 Hz
- Single or dual coloured blocks

Cat. No.	Description	Price
582010	Digital bead heating bath	N/A -

### Blocks - supplied with beads

- Temperature range: - 80 to + 180 °C
- Temperature uniformity: ± 1 °C (to 95 °C)

Model	Single block	Dual block
Bead capacity (l)	0.25	0.50
H x L x W (mm)	95 x 76 x 76	95 x 152 x 76
Weight (kg)	0.95	1.9
Black	582011	582016
Blue	582012	582017
Golden	582013	582018
Red	582014	582019
Silver	582015	582020
Price	N/A -	N/A -





## ThermoCell Dry Heating and Cooling Bath

Model	Heating	Heating and cooling
Temperature range	Amb. T° +5 °C to 100 °C	Amb. T° - 10 °C to 105 °C
Timer	1 min. to 99 h 59 min.	
Temperature rise	12 min.	≤ 35 min. (from 20 °C to 100 °C)
Cooling speed	-	≤ 25 min. (from 20 °C to 0 °C)
Weight (kg)	2.8	3.3
Dimensions (L x W x H)	300 x 200 x 150 mm	
Power	220V - 50 Hz - 120 W	
Cat. No.	<b>865072</b>	<b>865001</b>
Price	N/A -	N/A -

- Programmable, up to 5 temperature steps
- Peltier effect, wide temperature range
- Available in heating and cooling versions
- Special block to convert the heating block into a water bath



### Blocks

Cat. No.	Description	Price
<b>865002</b>	Block for 40 x 1.5 ml microtubes	N/A -
<b>865011</b>	Block for 54 x 0.5 ml microtubes	N/A -
<b>865012</b>	Block for 96 x 0.2 ml microtubes	N/A -
<b>865013</b>	Block for 24 tubes ø 15 mm	N/A -
<b>865014</b>	Water bath block 115 x 73 x 38 mm	N/A -
<b>865015</b>	Block for 40 x 0.2 ml microtubes	N/A -
<b>865016</b>	Block for 96-well microplates	N/A -
<b>865017</b>	Block for 26 x 0.5 ml microtubes and 24 x 1.5 ml microtubes	N/A -

## Grant-Bio PCH series heating/cooling blocks

Three models:

- PCH-1: for 12 x 1.5 ml microtubes and 20 x 0.5 ml microtubes
- PCH-2: for 20 x 1.5 ml microtubes
- PCH-3: for 20 x 2 ml microtubes

Model	PCH-1	PCH-2	PCH-3
Temperature range (°C)	-10 to 100		
Stability (°C)	+/- 0.1		
Uniformity (°C)	+/- 0.1		
Display resolution T° (°C)	0.1		
Rise in temperature rate			
25 to 37 (°C/min)	3		
25 to 100 (°C/min)	16		
Cooling rate			
100 °C to -10 °C (°C/min)	28		
25 °C to -10 °C (°C/min)	21		
Microtube capacity	12 x 1.5 ml and 20 x 0.5 ml	20 x 1.5 ml	20 x 2 ml
Timer	1 min to 96h / non stop		
L x D x H ext. (mm)	260 x 240 x 165		
Power supply	220 - 240 V / AC (50 - 60 Hz) / 0.5 A		
Cat. No.	<b>144212</b>	<b>144213</b>	<b>144848</b>
Price	N/A -	N/A -	N/A -

- Peltier effect
- Simultaneous display of the desired and actual temperature
- For applications requiring heating or cooling of microtubes between -10 °C and +100 °C



- Applications: preparation of DNA in denaturing electrophoresis, storage of frozen restriction enzymes, ligation reactions, enzymatic digestions, solubilisation of proteins prior to PAGE, incubation of microtubes for hybridisation, cooling of blood tubes prior to coagulation tests, enzymatic reactions and deactivations

## Mini-cooler 200 Dry cooling and heating baths

- Water bath or bead bath
- Peltier effect
- Small size to suit limited space
- Pre-configured temperatures for quick launch
- PTFE coating
- Alarm, timer, and temperature calibration
- Model 203 with programmable temperature for cooling/heating protocols
- Numerous aluminium alloy blocks, interchangeable with the MD mini thermoblock
- USB and Bluetooth ports for data storage, transfer and editing

Model	201	203
Temperature range	Ambient -30 °C (min. -10 °C)	Ambient -30 °C (min. -10 °C) to +100 °C
Uniformity at 37 °C	0.2 °C	
Accuracy at 37 °C	0.25 °C	
Display resolution	0.1 °C	
Temperature rise speed	-	Max. 6 °C / min
Cooling rate	Max. 5.5 °C / min	Max. 5.5 °C / min
Dimensions L x W x H (mm)	41 x 71 x 32	41 x 71 x 75
Electrical power (W)	40	60
Cat. No.	<b>022254</b>	<b>022255</b>
Price	N/A -	N/A -



### Tube blocks

Cat. No.	Capacity	Price
<b>022146</b>	32 x 0.2 ml PCR tubes	N/A -
<b>022147</b>	12 x 1.5 ml tubes	N/A -
<b>022148</b>	6 x 15 ml tubes	N/A -
<b>022149</b>	2 x 50 ml tubes	N/A -
<b>022150</b>	12 x 0.5 ml tubes	N/A -
<b>022151</b>	12 x 2 ml tubes	N/A -
<b>022152</b>	12 x 1.5 ml tubes (deep)	N/A -

## BLOCK ICE Mini Benchtop Refrigerator



- Perfect for incubating all types of samples
- Integrated timer (positive or negative) for 9-day programming
- Timer only starts when a stable temperature setpoint is reached
- Temperature display in °C or F°
- Alarm indicating when the desired temperature is reached and when the time has elapsed
- Insertion of 2 aluminium blocks (to be ordered separately)
- Supplied with cover, without block

Model	BLOCK ICE mini benchtop refrigerator
Temperature	0 to 40 °C
Temperature accuracy	± 1 °C
Max. temp. variation between 2 blocks	± 0.2 °C
Cooling	Peltier Effect
Cooling time at 4 °C (min)	30
Temperature display	Orange LED display – 5 digits
Power supply	90 to 60 V / 50-60 Hz
Dimensions L x W x H (mm)	190 x 240 x 225
Net weight unit (kg)	3
Cat. No.	090886
Price	N/A -

### Block racks for mini refrigerator BLOCK ICE

Blocks identical to the aluminium blocks used for Techne dry baths. Equipped with a hole for the insertion of a block removal rod (except for microplate blocks).

Cat. No.	Description	Number of holes	Dim. (mm) of the block	Price
090887	Solid block	-	95 x 76 x 51	N/A -
090888	Block for tube ø 6 mm	30	95 x 76 x 51	N/A -
090889	Block for tube ø 10 mm	20	95 x 76 x 51	N/A -
090890	Block for tube ø 12 mm	20	95 x 76 x 51	N/A -
090891	Block for tube ø 13 mm	20	95 x 76 x 51	N/A -
090892	Block for tube ø 15 mm	12	95 x 76 x 51	N/A -
090893	Block for tube ø 16 mm	12	95 x 76 x 51	N/A -
090894	Block for tube ø 19 mm	8	95 x 76 x 51	N/A -
090895	Block for tube ø 25 mm	6	95 x 76 x 51	N/A -
090896	Block for cuvettes ø 10 mm	2 rows of 7 maximum cuvettes	95 x 76 x 51	N/A -
090897	Solid block for thermometer	1	95 x 225 x 51	N/A -
090898	Solid block for thermometer	1	95 x 76 x 51	N/A -
090899	Block for tube ø 7 and 9 mm	20 and 10	95 x 76 x 51	N/A -
091107	Block for tube ø 24 mm	6	95 x 76 x 51	N/A -
091108	Block for tube ø 26 mm	6	95 x 76 x 51	N/A -
091109	Block for 1.5 ml microtubes	20	95 x 76 x 51	N/A -
091110	Block for 0.5 ml microtubes	30	95 x 76 x 51	N/A -
091111	Plastic 1/2 block adapter	-	95 x 37 x 51	N/A -
091112	Block* for microplates Hi-Temp	96-well round bottom	95 x 151 x 61	N/A -
091113	Block* for microplates	96-well round bottom	95 x 151 x 61	N/A -
091114	Block* for microplates	96-well flat bottom	95 x 151 x 61	N/A -
091115	Block* for 2 ml microtubes	20	95 x 76 x 51	N/A -
091116	Block* for 0.2 ml microtubes	72	95 x 76 x 51	N/A -
091117	Block for 0.2 ml microtubes	96	95 x 151 x 61	N/A -
091118	Block for microplates Porvair 1 ml	96-well	95 x 151 x 48	N/A -
091119	Block for gelimeter beaker	1	95 x 76 x 51	N/A -

\* Block taking 2 slots.

## NO ICE Mini Benchtop Refrigerator



- Ideal for keeping, preparing and storing all types of samples cold for long periods
- With ceramic beads for constant maintenance of the desired temperature
- For all sizes and shapes of tubes
- Chemically resistant beads, autoclavable up to 134 °C
- Ideal for keeping reagents at 4 °C throughout the working day
- Temperature display in °C or F

Model	Mini-refrigerator with NO ICE tank and beads
Temperature	0 to 40 °C
Temperature accuracy	± 1 °C
Cooling	Peltier Effect
Temperature display	Orange LED display - 5 digits
Power supply	90 to 60 V / 50-60 Hz
Dimensions L x W x H (mm)	190 x 240 x 225
Unit net weight + tank + beads (kg)	4.5
Cat. No.	090883
Price	N/A -

### Accessories

Cat. No.	Description	Price
090884	Spare tank for NOICE	N/A -
090885	Ceramic beads	N/A -

## Heating and/or Cooling Dry Baths

- Numerous blocks, modular
- Blocks to be ordered separately
- Optional external battery



Type	Heating	Heating/ cooling	Programmable heat./cool.
Operating temperature		8 °C to 30 °C	
Temperature range	Amb. + 2 °C to 100 °C	0 °C to 100 °C	0 °C to 100 °C
Temperature accuracy		± 0.2 °C	
Temperature uniformity		± 0.2 °C	
Heating rate from 16 °C to 60 °C	8 °C/min		9 °C/min
Cooling rate from 25 °C to 4 °C / from 60 °C to 16 °C	-		3 °C/min
Timer			1 min to 23 h 59 min 3 adjustable segments
Total capacity in 1/4 blocks		4	
Power supply		12 V, 5 A	
Dimensions (W x L x H) (mm)		185 x 185 x 90	
Weight (kg)	1		1.2
<b>Cat. No.</b>	<b>154300</b>	<b>154304</b>	<b>154306</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>

### Blocks

Cat. No.	For	Capacity In tubes	Block size on total surface	Price
154311	0.2 ml microtube	24	1/4	N/A -
154312	0.5 ml microtube	12	1/4	N/A -
154313	1.5 ml microtube	6	1/4	N/A -
154314	2.0 ml microtube	6	1/4	N/A -
154331	Tubes Ø 12.5 mm	6	1/4	N/A -
154332	Tubes Ø 15 mm	6	1/4	N/A -
154315*	15 ml tubes	6	1/2 (length)	N/A -
154316*	50 ml tubes	3	1/2 (length)	N/A -
154333*	10 ml tubes (Ø12.7mm)	12	1/2 (length)	N/A -
154317*	0.2 ml microtube or PCR plates	96	1/1	N/A -
154334*	Tubes Ø 15 mm	20	1/1	N/A -
154336*	Solid block	-	1/1	N/A -



### Accessories

Cat. No.	Description	Price
154325	Adapter 12V 7A	N/A -
154326	Adapter 12V 5A	N/A -
154327	External battery 12V 7A	N/A -

## Heating/ Cooling dry baths three independent blocks

Temperature range	Ambient +5 °C to +99.9 °C*
Temperature rise (25 to 99.9 °C)	20 minutes maximum
Accuracy	± 0.5 °C
Accuracy at 37 °C	± 0.2 °C
Display accuracy	0.1 °C
Timer	1 to 999 hours or 1 to 999 minutes or 1 to 999 seconds
Number of blocks	3
Power supply	DC 12 V, 120 W
Dimensions (mm)	360 x 180 x 150
Weight (kg)	3
<b>MiniT-H3 Dry bath for 3 heating blocks</b>	<b>531511</b>
<b>Price</b>	<b>N/A -</b>
<b>MiniT-H2C Dry bath for 2 heating blocks and 1 heating/cooling block</b>	<b>531510</b>
<b>Price</b>	<b>N/A -</b>

\* Except for the cooling block of the MiniT-H2C:  
0 °C to 99.9 °C, temperature drop from 25 °C to 0 °C in max. 25 minutes

### MiniT-H2C and MiniT-H3 dry bath blocks

Cat. No.	Blocks for	Number of tubes	Price
531512	0.2 ml tubes	40	N/A -
531513	0.5 ml tubes	24	N/A -
531514	1.5 ml tubes	15	N/A -
531515	2 ml tubes	15	N/A -
531516	Cuves 12.5 x 12.5 mm	8	N/A -
531517	15 ml tubes	4	N/A -
531518	50 ml tubes	2	N/A -



- The three baths are independently controlled
- Available as a three block heater (MiniT-H3) or as a version with one heating and cooling block and two heating blocks (MiniT-H2C)
- Independent temperature control of the three blocks
- To be completed with a block
- Many aluminium blocks available depending on the use
- Automatic shut-off and buzzer at the end of the programme

## Baheer boiling bath



For adjustable temperatures from 30 °C to 100 °C. Stability  $\pm 3$  °C.

- Fast kettle type (6 to 7 minutes)
- Stainless steel bowl and heating element
- Epoxy coated base
- Thermostat regulator with synchronised switch with signal lamp

Capacity (litres)	1
Useful / external dimensions (ø x H)	14 x 11 cm / 15 x 19 cm
Consumption (W)	640
Weight (kg)	1
Cat. No.	068571
Price	N/A -

### Stainless steel accessories

Cat. No.	Description	Price
068572	Rack for 24 haemolysis tubes, up to ø 13 mm	N/A -
068573	Rack for 24 haemolysis tubes, up to ø 18 mm	N/A -
068574	Lid with Bakelite handle	N/A -
068575	Resistance cover plate	N/A -

### Transparent methacrylate tanks



- Can withstand temperatures up to 60 °C
- Used with thermostats fixed with clips or clamps

Cat. No.	Capacity (l)	H x W x D (cm)	Wall thickness (mm)	Price
068577	8	15 x 18 x 31	6	N/A -
068578	9.5	14.5 x 16.5 x 39	6	N/A -
068579	13	15 x 23 x 40	8	N/A -
068580	30	20 x 30 x 50	8	N/A -

### Stainless steel tanks



Metal tanks for thermostat. Double wall. Stainless steel AISI 304 exterior and AISI 310 interior.

Cat. No.	Vol. (l)	Handles + tap	Int. H x W x D (cm)	Ext. H x W x D (cm)	Weight (kg)	Price
068524	9	No	15 x 29 x 22	20 x 34 x 28	3.5	N/A -
068525	12	No	15 x 30 x 31	20 x 37 x 35	4.3	N/A -
068526	20	Yes	15 x 48 x 30	20 x 55 x 35	6.6	N/A -
068527	27	Yes	20 x 48 x 30	25 x 55 x 35	7.6	N/A -
068528	45	Yes	15 x 62 x 50	23 x 70 x 56	11	N/A -

## Ballast ring



To prevent breakage and spillage  
The ballast rings, covered with chemically resistant vinyl, hold the glassware in the water baths, preventing breakage and spillage. Closed ring (red) or open ring (blue).

### Accessory

Cat. No.	Description	Price
085865	Storage rack for rings (Height: 220 mm)	N/A -

Weight (g)	Out. ø (mm)	Inner ø (mm)	Ideal for	Closed red		Open blue	
				Cat. No.	Price	Cat. No.	Price
165	51	19	Test tubes 5-10 ml	085860	N/A -	-	-
237	76	43	Flasks 125-500 ml	085861	N/A -	037626	N/A -
454	89	51	Flasks 250-1000 ml	085862	N/A -	037627	N/A -
681	102	56	Flasks 500-2000 ml	085863	N/A -	037628	N/A -
908	114	71	Flasks 1000-4000 ml	085864	N/A -	037629	N/A -

## Ballast thread



Flexible and adaptable  
Ballast thread coated in flexible vinyl. It can be easily twisted to adopt the desired positions.

Cat. No.	Description	ø (mm)	Price
085866	Ballast wire 114 g	6.4	N/A -
085867	Ballast wire 176 g	8	N/A -

## Insulating beads for water baths

- Made of polypropylene
- Barrier between liquid and air
- Serves as a mobile lid for water baths
- Diameter 20 mm

Cat. No.	Description	Units/box	Price/box
144342	Insulating beads for water bath	300	N/A -
067886	Insulating beads for water bath	1000	N/A -



## Réa-Stabil Disinfectant for water baths

Concentrated bactericidal disinfectant for water baths and thermostatic baths. The results are even better with distilled or demineralised water.

- Efficiency: 2 to 3 months
- Water colouring: blue
- Very economical: 1 ml per litre (10 ml for a 10 litre bath)
- Biodegradable, non-toxic
- Components: biguamides surfactants and dye



Cat. No.	Description	Price
074022	Rea-Stabil 200 ml flask	N/A -

## Cleaning solution

- For ultrasonic baths
- Biodegradable
- Phosphate-free

Cat. No.	Description	Price
910587	Cleaning solution, 1 l	N/A -



## Heating ultrasonic baths



- Frequency: 40 kHz
- Allows cleaning on 3 levels
- Body and lid in corrosion-resistant ABS, stainless steel tank
- Timer: 1 to 99 min.

Model	UC-02	UCP-20
Bath capacity (l)	2	20
Temperature	Amb. to 50 °C	Amb. to 70 °C
Internal dim. L x D x H (mm)	142 x 132 x 104	500 x 290 x 160
External dim. L x D x H (mm)	290 x 210 x 200	721 x 451 x 297
Net weight (kg)	2	17
Cat. No.	446700	446784
Price	N/A -	N/A -

## Branson Ultrasonic bath 200 0.5 l



- Compact, simple and economical for small objects

Cat. No.	Volume (l)	Int. dim. (mm)	Ext. dim. (mm)	Price
910586	0.5	170 x 90 x 50	225 x 115 x 122	N/A -

## Accessories

Cat. No.	Description	Price
910570	Plastic lid	N/A -
910572	Plastic bin	N/A -
910571	Wire basket, 155 x 86 x 45 mm	N/A -

## Ultrasonic bath 1.4 litre

- Capacity 1.4 l
- Stainless steel tank
- Frequency: 42 kHz
- 5-cycle timer with digital display
- Power supply: 230 V
- Weight: 1.8 kg
- Dimensions:
  - internal: 160 x 128 x 46 mm
  - external: 230 x 180 x 160 mm

Cat. No.	Description	Price
053275	Ultrasonic cleaner	N/A -



## Grant Ultrasonic baths



- XUBA and XUB ultrasonic baths offer speed, safety and cost effectiveness for a wide range of scientific applications
- Recommended for applications such as: degassing, ultrasonic chemistry or fluid dissolution
- Efficient and rapid cleaning of laboratory instruments, ensuring complete removal of contaminants

### 5 digital models XUB series and two analogue models XUBA series

#### ➤ Model XUB

For an even distribution of waves throughout the tank, as well as a reduction of dead spots and standing waves.  
For precise control of time, temperature, degassing mode, and liquid level.

Delivered with:

- a lid;
- an SD card for recording and analysing the results;
- a stainless steel basket;
- a drain valve;
- a 1 litre bottle of cleaning solution.

#### ➤ Model XUBA

For use in environments where only small instruments need to be processed, without complex controls required.

Delivered with:

- a lid;
- a stainless steel basket;
- a 1 litre bottle of cleaning solution.

Model	XUB 5	XUB 10	XUB 12	XUB 18	XUB 25	XUBA 1	XUBA 3
<b>Features</b>							
Ext. bath L x D x H (mm)	340 x 255 x 265	545 x 245 x 265	345 x 355 x 365	375 x 410 x 365	550 x 410 x 365	180 x 160 x 190	270 x 170 x 210
Int. Tank L x D x H (mm)	300 x 150 x 150	505 x 140 x 150	300 x 240 x 200	330 x 300 x 200	505 x 300 x 200	150 x 140 x 100	240 x 140 x 100
Int. basket L x D x H (mm)	265 x 115 x 110	465 x 100 x 110	260 x 200 x 160	295 x 260 x 160	465 x 260 x 160	120 x 96 x 55	200 x 108 x 55
Working volume (litres)	4.5	9.5	12.5	17.5	25	1.5	2.5
Max. volume (litres)	5	10.5	14	18.5	28	1.75	2.75
Power (W)	100	200	200	300	400	35	35
Frequency (kHz)	32 -38	32 -38	32 -38	32 -38	32 -38	44	44
Heating temperature (°C)	Amb. +5 to 70	Amb. +5 to 70	Amb. +5 to 70	Amb. +5 to 70	Amb. +5 to 70	Amb. +5 to 70	Amb. +5 to 70
Timer (min)	0 -99	0 -99	0 -99	0 -99	0 -99	0 -15	0 -15
Valve outlet (inch)	3/8"	1/2"	1/2"	1/2"	1/2"	-	-
Voltage	220 -240	220 -240	220 -240	220 -240	220 -240	220 -240	220 -240
Cat. No.	144630	144631	144632	144611	144612	144628	144629
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

### Options

Replacement lid	144615	144616	144617	144618	144619	144613	144614
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -
Stainless steel replacement basket	144622	144623	144624	144625	144626	144620	144621
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

### Accessory

Cat. No.	Description	Price
144627	Cleaning solution - 1 litre	N/A -

## WUC Ultrasonic baths

- Analogue or digital controller
- Stainless steel tank
- Drain valve 1/2" NPT on 10 and 22 l models
- Ultrasound 40 kHz



Model	WUC-Ao1H	WUC-Ao2H	WUC-Ao3H	WUC-Ao6H	WUC-A1oH	WUC-A22H	WUC-Do3H	WUC-Do6H	WUC-D1oH	WUC-D22H
Capacity (l)	1.2 l	1.8 l	3.3 l	6 l	10 l	22 l	3.3 l	6 l	10 l	22 l
Temperature range	Ambient or +65 °C (fixed)			Ambient to +85 °C			Ambient to +80 °C			
Heating power	86 W	86 W	172 W	172 W	258 W	275 W	172 W	172 W	258 W	344 W
Ultrasonic frequency	40 kHz									
Max. ultrasonic power	Up to 30 minutes						Up to 60 minutes			
Timer	5 l/min	5 l/min	5 l/min	5 l/min	5 l/min	5 l/min	5 l/min	5 l/min	5 l/min	5 l/min
Int. Dim. W x D x H (mm)	150 x 135 x 60	150 x 135 x 100	240 x 140 x 100	290 x 150 x 150	290 x 240 x 150	500 x 300 x 150	240 x 140 x 100	290 x 150 x 150	290 x 240 x 150	500 x 300 x 150
Ext. Dim. W x D x H (mm)	200 x 200 x 190	200 x 200 x 240	320 x 200 x 290	370 x 220 x 350	434 x 320 x 360	640 x 380 x 370	320 x 200 x 290	360 x 220 x 350	440 x 320 x 360	640 x 380 x 370
Cat. No.	046768	046769	046770	046771	046772	046773	046774	046775	046776	046777
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

### Accessories

Cat. No.	-	046778	046779	046780	046781	046782	046779*	046780*	046781*	046782*
stainless steel basket	-									
Basket Dim. W x D x H (mm)	-	120 x 105 x 65	215 x 115 x 65	247 x 123 x 96	262 x 206 x 93	452 x 263 x 93	215 x 115 x 65	247 x 123 x 96	262 x 206 x 93	452 x 263 x 93
Price	-	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

\* Basket included with digital models.

## Accuris Mini portable scales

- Automatic switch-off after one minute of inactivity
- Supplied with a protective cover for transport
- Battery operated (2 x AAA batteries)

Capacity (g)	100	500
Display	LCD display	
Accuracy (g)	0.01	0.1
Repeatability (g)	0.01	0.1
linearity (g)	± 0.01	± 0.1
Calibration	External	
Tray dimensions W x D (mm)	53 x 57	
Total dimensions W x D x H (mm)	66 x 99 x 19	
Weight (kg)	0.2	
Power supply	2 AAA batteries	
Cat. No.	062610	062609
Price	N/A -	N/A -



## Weighing table



Weighing table designed to absorb shocks and oscillations that could distort measurement results.

- Polished granite plate (34 kg) as an integrated work surface, supported on absorbent rubber elements
- Work table with aluminium profile frame and height adjustable legs
- Dimensions
  - L x D x H table: 770 x 650 x 815 mm
  - L x D x H tray: 400 x 450 x 70 mm

Cat. No.	Description	Price
0151006B	Weighing table	N/A -

## Mini glove box



- Acrylic chamber (PMMA)
- Temperature resistant from -20 °C to +70 °C
- Rubber feet
- Side openings for gloves
- Lightweight, easily transportable

Ext. Dimensions W x H x D (mm)	300 x 400 x 400
Int. Dimensions W x H x D (mm)	290 x 390 x 390
Volume (l)	34
Weight (kg)	5.7
Max. load (kg)	10
Opening for gloves (mm)	190
<b>Cat. No.</b>	<b>499108</b>
<b>Price</b>	<b>N/A -</b>

## Glove boxes



- For safe and contamination-free sample handling
- Panels made of clear acrylic (PMMA); light and rigid aluminium frame (total weight 14 kg); base panel made of PE
- Temperature resistant from -20 °C to +70 °C
- Hermetic
- Gas filling connector with self-closing valve
- Ext. dim. / int. W x H x D: 890 x 700 x 600 mm / 850 x 500 x 540 mm
- Max. load approx. 40 kg
- Supplied with quick connection, olive and size 9 gloves
- **Optional: 2-door airlock for sample introduction**
- Capable of holding a 1000 ml bottle
- Safety system to prevent simultaneous opening of both doors
- Ext. dim. / int W x H x D: 320 x 330 x 260 mm / 220 x 275 x 320 mm

### Gloves for glove box

- Ambidextrous gloves
- Suitable for 190 mm diameter opening
- Length 750 mm
- Made of natural rubber, antistatic
- Tear, puncture and abrasion resistant



Size	7	8	9	Price the pair
Cat. No.	490943	490944	490945	N/A -

Cat. No.	Description	Price
490942	Glove boxes	N/A -
490941	Glove box + airlock	N/A -

## Gas regulator for glove box



- Regulates the gas inlet to the glove box to reduce gas consumption
- Supplied with sensor, tubing to connect the flow meter to the measuring instrument and power cable
- Power supply: 230 V / 50 Hz

Humidity range	0 - 50 % rF / rH
Temperature range	-20 °C to 60 °C
Display range	0.1 - 99 %, -30 °C to 70 °C
Precision sensor	0.1 rF/rH, 0.1 °C
Gas flow meter (l/min)	2-10
Sensor length (m)	1.2
Weight (kg)	1.8
<b>Cat. No.</b>	<b>499109</b>
<b>Price</b>	<b>N/A -</b>



## KINEMATICA Laboratory Mixers

Model	MB 550 Mixer	MB 800 Mixer
Working volume	125, 250, 500, 1000 ml	2000 or 4000 ml
Rotation speed range	1 up to 15 000 min <sup>-1</sup>	1 up to 17 000 min <sup>-1</sup>
Power (W)	550	800
Noise level	Approx. 72 dB(A) at 15 000 min <sup>-1</sup>	Approx. 79 dB(A) at 17 000 min <sup>-1</sup>
Supply voltage	230 V ± 10 %, 50 Hz / 60 Hz	230 V ± 10 %, 50 Hz / 60 Hz
Weight (kg)	4.4	5.3
Cat. No.	497600	497601
Price	N/A -	N/A -

### Bowls and lids for MB 550 mixer

Cat. No.	Description	Price
497602	125 ml borosilicate glass grinding bowl with cutter head*	N/A -
497603	250 ml borosilicate glass grinding bowl with cutter head*	N/A -
497604	500 ml borosilicate glass grinding bowl with cutter head*	N/A -
497605	1000 ml borosilicate glass grinding bowl with cutter head*	N/A -
497608	Safety lid for 125 ml bowl	N/A -
497609	Safety lid for 250 ml bowl	N/A -
497610	Safety lid for 500 ml bowl	N/A -
497611	Safety lid for 1000 ml bowl	N/A -

\* Must be completed with a safety lid.

### Bowls and lids for MB 800 mixer

Cat. No.	Description	Price
497606	2000 ml stainless steel grinding bowl with cutter head	N/A -
497607	4000 ml stainless steel grinding bowl with cutter head	N/A -

- Mixer crusher with blades for mixing, dispersing, homogenizing and emulsifying
- Robust, reliable and easy to use
- 2 versions available: MB550 up to 1000 ml and MB800 up to 4000 ml
- Capacity: bowls from 125 ml to 4000 ml (to choose from)
- On/Off switch
- Speed control: rotary control and smooth adjustment
- Variable speed: from 1 to 17000 rpm depending on model
- Ergonomic: easy bowl change, easy cleaning at the laboratory washer
- Different borosilicate glass bowls for Model MB550 with protective lid required
- Different stainless steel bowls for the MB800 model
- Mixers to equip with a safety bowl and lid or steel bowl



## Waring Blendor 4 litre laboratory blender

Capacity	4 litres
Buttons	Off-Lo-Med-Hi-Pulse
Speed (rpm)	15800, 18000 and 20800
Base	Grey epoxy coated stainless steel case
Containers	Stainless steel + lid in polycarbonate and rubber seal
Blades	Stainless steel
Height	66 cm
Weight	17.2 kg
Cat. No.	087137
Price	N/A -

Laboratory mixer with 4 litre stainless steel container.

- Preselected speed
- Supplied with lid



## Analytical grinder

Grinder for hard and breakable substances.

Max. speed (rpm)	28 000
Max. useful volume (ml)	80
Max. particle size of the charge (mm)	10
Dimensions (mm)	85 x 240 x 85
Weight (kg)	1.5
Cat. No.	250093
Price	N/A -



## Laboratory grinder

High performance grinder for powdering in a few seconds, products such as seeds, spices, nuts.

- Lid safety lock
- Brushed metal body
- PULSE function to select the desired granularity
- Supplied with 3 bowls with storage lid
- Stainless steel container and grinding blades
- Warranty: 1 year

Speed	19000 rpm
Dimensions (LxWxH)	120.6 x 139.7 x 210.8 mm
Weight	5.9 kg
Cat. No.	087116
Price	N/A -



## Stomacher® 400 Homogenising Grinder



Dual action mixing and stirring grinder for homogenisation of the samples directly in sterile bags. The bag round bottom, combined with the circular shape of its blades ensure optimal recovery of cells and organisms in the samples to be processed.

- Digital speed and time display
- 3 possible speed and time settings for repeatability
- From 80 ml to 400 ml

Cat. No.	Description	Price
3193153	Stomacher® 400 Circulator	N/A -

### Racks and accessories for Stomacher® 400

Cat. No.	Description	Price
3193178	1-space rack	N/A -
3193179	10-space rack	N/A -
3193181	Bag opening device	N/A -
3193183	Clip for bag closure (200 units)	N/A -

### Sterile bags for Stomacher® 400

- Sterile round-bottom for Stomacher® 400 only
- Optimal sample recovery
- Filter sterile for easy sample recovery without clogging

Cat. No.	Description	Bags size (mm)	Sample Volume (ml)	Units/box	Price/box
3193168	Standard bag	177 x 305	80 - 400	10 packs of 50 (500)	N/A -
3193171	Sterile bag with closure	177 x 305	80 - 400	10 packs of 25 (250)	N/A -
3193172	Sterile bags with filter	177 x 305	80 - 400	10 sets of 20 (200)	N/A -

## Stomacher® 80 biomaster and biomaster 80 microbiomaster



Grinder with alternate blade movements, for sample treatment between 250 µl and 80 ml.

2 models available: the Stomacher® 80 Biomaster and the Stomacher® 80 Microbiomaster. The microbiomaster has a mechanism for processing samples between 250 µl and 80 ml.

### Stomacher® 80 Microbiomaster

- For volumes from 250 µl to 80 ml (directly in sterile bags)
- Processing of small volumes of 250 µl (V-bottom micro-bags)
- Adjustable door (turning knob) to reduce or increase the distance between the door and the blades as require

Cat. No.	Description	Price
3193152	Stomacher® 80 Microbiomaster	N/A -

### Stomacher® 80 Biomaster

- For volumes from 5 ml to 80 ml directly in sterile bags

Cat. No.	Description	Price
3193151	Stomacher® 80 Biomaster	N/A -

10-space rack  
3193177



### Sterile bags and racks

Cat. No.	Description	Bags size (mm)	Volume samples	Units/box	Price/box
3193157	Sterile bag	105 x 155	5 - 80 ml	40 packs of 50 (2000)	N/A -
3193158	Sterile bag with closure	105 x 155	5 - 80 ml	10 packs of 20 (200)	N/A -
3193159	Sterile bags with filter	105 x 155	5 - 80 ml	10 packs of 20 (200)	N/A -
3193160	Sterile bag with closure and filter	105 x 155	5 - 80 ml	10 packs of 20 (200)	N/A -
3193177	10-place rack for Stomacher® 80 bag	-	-	1	N/A -

## Sampling pipette and straw tips for Stomacher® 400 and 80 bags



The straw tips allow you to reach the bottom of the bags due to their length of 190 mm or 240 mm, avoiding contamination and touching the pipette itself.

Cat. No.	Description	Units/bag/	Units/box	Price/box
041120	Acura 810 Fixed Volume Sampling Pipette	-	1	N/A -
041110	Sterile straw pipette 1.1 ml, length: 190 mm	25	1000	N/A -
041115	Sterile straw pipette 2.2 ml, length: 240 mm	25	1000	N/A -

## Stomacher® 3500 and Stomacher® 3500 Thermo

For mixing large volumes of samples up to 3500 ml.  
A model with a heating resistor has been specially designed for the treatment of certain samples.

- For volumes from 1000 and 3500 ml directly in sterile bags
- Heating up to 50 °C (Stomacher® 3500 Thermo only)

Cat. No.	Description	Price
3193154	Stomacher® 3500	N/A -
3193156	Stomacher® 3500 Thermo	N/A -



3-space rack



### Sterile bags and racks

Cat. No.	Description	Bags size (mm)	Volume samples (ml)	Units/box	Price/box
3193173	Standard sterile bag	380 x 510	400 - 3500	5 packs of 50 (250)	N/A -
3193174	Standard reinforced sterile bag	380 x 510	400 - 3500	10 packs of 20 (200)	N/A -
3193180	3-space rack	-	-	1	N/A -



Photo 1: Sterile bags; from left to right:  
- standard sterile bag for Stomacher® 400;  
- micro sterile bag for Stomacher® micro 80;  
- sterile bag with closure for Stomacher® 400;  
- micro bag with closure;  
- standard bag for Stomacher 400.

Photo 2: left, sterile bag with closure for Stomacher® 80.  
Right: Sterile filter bag for Stomacher® 400.

Photos 3 and 4: Sterile bag with filter and closure.

## MiniMix CC Mixer



Laboratory mixer for small samples from 5 to 80 ml.  
Precise, compact and equipped with a multifunctional digital display and the Click and Clean® system for complete cleaning of the blades and mixing chamber.

Cat. No.	Description	Price
150319	MiniMix CC mixer with window	N/A -
140822	MiniMix CC mixer, closed	N/A -

## BagMixer P Mixers



Mixer bags:  
see next page



No direct contact with the treated sample, thus avoiding any risk of contamination. A timer allows you to set the mixing time.  
BagMixers are suitable for 80 ml and 400 ml bags.

Cat. No.	Description	Price
140820	BagMixer 400P mixer, closed	N/A -

**Bags for mixers**

**Full surface sterile bags BagPage®**

Large filtration area particularly suitable for the preparation of thick samples.

Model BagPage® Plus: sealing on the top of the bag to make it easier to locate the sampling compartment.

Model BagPage® R: The filter is made of non-woven material.

Cat. No.	Description	Vol. (ml)	Dimensions (mm)	Pack unit.	Units/ cardboard box	Price/ cardboard box
140810	Full filter bag BagPage® surface	100	95 x 180	25	500	N/A -
140811	Full filter bag BagPage® Plus surface	400	190 x 300	25	500	N/A -
150311	Filter bag BagPage® R	400	190 x 300	25	500	N/A -
140812	Full filter bag BagPage® Plus surface	3500	380 x 510	10	100	N/A -

**Sterile bags without filter**

For the preparation, transport and storage of samples. Freezing possible down to -80 °C.

Cat. No.	Description	Vol. (ml)	Dimensions (mm)	Pack unit.	Units/ cardboard box	Price/ cardboard box
140800	Sterile bag without filter	80	100 x 150	25	1500	N/A -
140801	Sterile bag without filter	400	180 x 300	25	500	N/A -
140803	Sterile bag without filter	3500	380 x 510	25	500	N/A -

**BagOpen® Bag holder**

To hold the bag open during filling.

Cat. No.	Description	Units/ cardboard box	Price/ cardboard box
150390	Bagopen® 100 ml Bag holder	1	N/A -
140825	Bagopen® 400 ml Bag holder	1	N/A -
150314	Bagopen® 3500 ml Bag holder	1	N/A -

**BagFilter® Lateral filter bag**

Equipped with a lateral filter allowing to collect the solution to be analysed free of fibres, either by pipetting with BagPipet® and straw pipettes, or by simple pouring.

Cat. No.	Description	Vol. (ml)	Dimensions (mm)	Pack unit.	Units/ cardboard box	Price/ cardboard box
140807	Filter bag BagFilter®/pouring	400	190 x 300	25	500	N/A -
140802	Filter bag BagFilter®/pipetting	400	190 x 300	25	500	N/A -
150391	Filter bag BagFilter® PCR pull-up/pipetting, small volumes	400	190 x 300	25	500	N/A -
140804	Filter bag BagFilter®/pipetting	3500	380 x 510	10	100	N/A -

**BagLight® sterile bags**

Economical sterile bags for mixers.

Cat. No.	Description	Vol. (ml)	Dimensions (mm)	Pack unit.	Units/ cardboard box	Price/ cardboard box
150308	BagLight®	100	110 x 85	25	500	N/A -
150309B	BagLight®	400	180 x 290	25	500	N/A -
150310B	BagLight®	3500	380 x 560	25	250	N/A -

**Stainless steel rack for mixer/grinder bags BagRack®**

Cat. No.	Description	Price
140826	Stainless steel rack for 12 x 400 ml mixer/grinder bags	N/A -
140826B	Stainless steel rack for 14 x 400 ml mixer-grinder bags	N/A -

**BagClip® 400 ml closure strips for Stomacher bags**

Allows all types of bags to be closed by pinching.

Cat. No.	Description	Units/ cardboard box	Price/ cardboard box
140827	Closing strip width 195 mm for 400 ml bags	50	N/A -
150332	Closing strip for 80 and 100 ml bags	50	N/A -
150312	Closing strip for 3500 ml bags	50	N/A -
688238	Closing strip 230 mm length	1000	N/A -
688238A	Closing strip 230 mm length	200	N/A -

**ClearLine® Sterile Microbiology Mixer-Mill Bag**



- In sterile natural HDPE
- Without filter
- Dimensions: 180 x 300 mm

Cat. No.	Description	Units/ box	Price/ box
855133	Sterile Microbiology Mixer Bag	500	N/A -

**Round Flask heaters**



- Digital temperature display
- Heat up to 450 °C
- Steel
- Moulded silica insulation
- Fibreglass-coated heating element

Model ES (446776B):

- equipped with an integrated magnetic stirrer
- Stirring speed: 100 - 1000 rpm

Cat. No.	Description	Price
<b>Heating mantles without stirrer</b>		
446774B	Heating mantles 0-450 °C, 250 ml - 150 W	N/A -
446775B	Heating mantles 0-450 °C, 500 ml - 260 W	N/A -
446777B	Heating mantles 0-450 °C, 1000 ml - 350 W	N/A -
<b>Heating mantles with stirrer</b>		
446776B	Heating mantles with stirrer 0-450 °C, 250 ml	N/A -

## MM Series Semi-Rigid Heating Mantles

- Steel case, epoxy paint
- Thermal insulation with ceramic fibre
- Thermoregulation
- With ON/OFF button
- 230V – 50-60 Hz
- Security class 0
- IP 30

Flask diameter (mm)	64	85	105	131	166
Flasks capacity (ml)	100	250	500	1000	2000
Temperature °C	350	350	350	350	450
Accuracy °C	± 5	± 5	± 5	± 5	± 5
Heating capacity (W)	130	180	250	450	600
Dimensions (øxH in mm)	185 x 145	185 x 145	205 x 150	245 x 175	310 x 210
Weight (kg)	1.5	1.5	1.8	2.4	5
Cat. No.	396000	396001	396002	396003	396004
Price	N/A -	N/A -	N/A -	N/A -	N/A -



## Spotflam

- Flame pen
- Flame temperature: 1 750 °C
- Heating temperature adjustable with one hand
- Autonomy of more than 5 hours
- Supplied with C360 cartridge (Cat. No. 060311)
- Supplied with a soldering iron tip



Cat. No.	Description	Price
071129	Spotflam	66.N/A -
060311	Butane gas cartridge 52 g CV360 (the 6)	N/A -

## Safe alcohol lamp

- Screwed candle ring
- Alcohol volume: 100 ml
- Flask width: 7.5 cm
- Total height with cap: 9.5 cm
- Supplied complete with wick, candle ring, cap, flask



Cat. No.	Description	Price
068811	Complete alcohol lamp	N/A -
068812	Spare wick	N/A -

## FlameBoy

The FlameBoy is a flaming gun with piezoelectric ignition. It is available in two versions, one that can be connected to a central gas supply, the other using gas cartridges so that it can be used independently. The FlameBoy is particularly well suited to on-site sterilisation.

Cat. No.	Description	Price
060400	FlameBoy with threaded connector	N/A -
060401	FlameBoy with adapter for gas cartridge	N/A -

### Accessories for FlameBoy

Cat. No.	Description	Units/ cardboard box	Price/ cardboard box
060410	Adapter for cartridge connection for independent use	1	N/A -
060311	Butane gas cartridge 52 g CV360	6	N/A -



## Matches

Practical, in a box of 240.

Cat. No.	Description	Price the 3 x 240
006791	Box of Matches	N/A -



## Labogaz



Burner:  
071109



060415 and 071135

Portable and autonomous auxiliary burner on butane gas cartridge. No installation required.

- **Autonomy: 3.5 hours minimum**
- **Flow rate adjustment**
- **Ø x H (mm) 90 x 200 (130 mm cartridge + 70 mm burner)**

### ➤ Labogaz 470

Can be screwed directly onto a CV 300 Plus (240 g) or CV 470 (450 g) cartridge using a ring.

Cat. No.	Description	Price
071109	Labogaz 470 burner (without cartridge)	N/A -
060415	Butane valve cartridge CV 470 Plus (450 g)	N/A -
071135	Butane valve cartridge CV 300 Plus (240 g)	N/A -

## Bunsen burners



### Teclu Bunsen burners

- **Air regulation**
- **Pilot flame**
- **Max. 1300 °C**

Cat. No.	Description	Type of gas	Price
076476	Teclu Bunsen burner 1.53 KW	Natural	N/A -
076477	Teclu Bunsen burner 2.32 KW	Propane	N/A -



### Teclu burner with needle valve

- **Air regulation**
- **Pilot flame**
- **Max. 1300 °C**

Cat. No.	Description	Type of gas	Price
076485	Teclu Bunsen burner 1.53 KW	Natural	N/A -
076486	Teclu Bunsen burner 2.36 KW	Propane	N/A -



### Bunsen burners

- **Air regulation**
- **Max. 1300 °C**

Cat. No.	Description	Type of gas	Price
076472	Bunsen burner 1.53 KW	Natural	N/A -
076473	Bunsen burner 2.36 KW	Propane	N/A -



### Bunsen burner with needle valve

- **Air regulation**
- **Pilot flame**
- **Max. 1300 °C**

Cat. No.	Description	Type of gas	Price
076482	Bunsen burner 1.53 KW	Natural	N/A -
076483	Bunsen burner 2.36 KW	Propane	N/A -



424015

424014

### Meker burner

- **Air regulation**
- **Control valve (under the base for the multi-gas version)**
- **Tube Ø: 28 mm**
- **Head Ø: 32 mm**
- **Weight: 390 g**

Cat. No.	Description	Price
424014	Meker burner for natural gas	N/A -
424015	Multi-gas Meker burner	N/A -



### Micro burner with needle valve

- **Air regulation**
- **Max. 1000 °C**

Cat. No.	Description	Type of gas	Price
076480	Micro Bunsen burner	Natural	N/A -
076481	Micro Bunsen burner	Propane	N/A -

## Cartridge burner

- Needle valve
- Air regulation
- 4 burner models designed to be used only with gas cartridges with a special nozzle that fits only on these burners

Cat. No.	Description	Temperature (°C)	Price
424000	Teclu Bunsen burner	1450	N/A -
424001	Bunsen burner	1420	N/A -
424002	Micro burner	1300	N/A -
424003	Bunsen burner, high performance	1550	N/A -

### Gas cartridge

220 g, 400 ml, specially designed for the above burners.

Cat. No.	Description	Price
424004	Gas cartridge	N/A -



## Butane burners with refillable tank

- Piezoelectric ignition
- Maximum temperature 1300 °C
- Adjustable flame
- Refillable butane tank
- Available in torch and bench burner formats with either vertical or oblique flame

Model	Dragon 100 torch burner	Dragon 200 vertical flame benchtop burner	Dragon 220 slant flame bench top burner
Tank capacity (g)	40	35	35
Autonomy (min)	60	60	60
Dimensions L x D x H (mm)	137 x 79 x 161	115 x 79 x 92	115 x 78 x 94
Cat. No.	886044	886045	886046
Price	N/A -	N/A -	N/A -



## Gas tubing with clamps or collar

Cat. No.	Model	Inn. ø x out. ø (mm)	Length (m)	Price
071118	Normagaz for butane*	6 x 12	1.5	N/A -
147600	Normagaz for natural gas**	12 x 18	2	N/A -
071121	Sertigaz for natural gas	15 x 22	1.25	N/A -

\* with collars, blistered \*\* without collar

## Gas hoses

Cat. No.	Inn. ø x out. ø (mm)	Tip ext. ø (mm)	Length	Price
091853	10 x 14	20	500 mm	N/A -
091854	10 x 14	20	600 mm	N/A -
091855	10 x 14	20	750 mm	N/A -
091856	10 x 14	20	1000 mm	N/A -

## Electric burner 800 - 1000 °C

Ideal for working in a fume hood.

- Corrosion-resistant metal housing
- The conical heating element concentrates the radiation towards the top of the burner
- Easy to change the heating element
- Height: 180 mm
- Economic: 400 W
- Power supply 230 V - 50 Hz

Cat. No.	Description	Price
078522	Electric burner 800 - 1000 °C	N/A -



## BECELEC 2 electric burner

- Alternative to the Bunsen burner
- Elevated heat flow generated by the combination of a resistance and a reflective bowl
- Reaches 720 °C in less than 4 minutes
- Dimensions (L x W x H): 31 x 20 x 11 cm
- Power: 500 W
- Weight: 1.7 kg
- Diameter of heating zone: 130 mm
- Not suitable for burning-in glass pipettes

Supplied complete with:

- Rod
- Glassware holder
- Stainless steel cup
- Petri dish holders



Cat. No.	Description	Price
446772	BECELEC 2 electric burner	N/A -

### Accessory

Cat. No.	Description	Price
446778	1000 ml flask Gel Flam for BECELEC 2 burner	N/A -

# BURNERS

## Universal burner



- For microbiology, bacteriology and dentistry
- Provide a one-off heat or fusion input
- Multiple instantaneous ignition with push button
- Built-in safety lock prevents accidental ignition
- Flame intensity regulator
- Fills with gas using a simple lighter refill
- For butane gas
- Long ignition time
- Powered by 1.5 V battery

Cat. No.	Description	Price
341022	Universal burner	N/A -

## MICROBIO Electric Burner



- Allows the creation of a sterile space and work on glass
- Multiple applications: sterilization, seeding and pouring of Petri dishes, transplanting, creation of Pasteur pipettes and rakes, boiling, heating
- Temperature: 880 °C in the high temperature part and 750 °C on the surface
- 2 handles for safe movement
- Fast fuse protection: F.5A.H.250V
- Red power light
- Can be connected:
  - either directly to a 230 V mains socket, to obtain a constant maximum power; - or combined with a temperature controller, for easy and stable temperature adjustment

Dimensions L x W x H (mm)	145 x 110 x 130
Weight	2.3 Kg
Power	550 W
Sector	230 V - 50 Hz
Cat. No.	063114
Price	N/A -

### Accessories

Cat. No.	Description	Price
063115	Temperature regulator	N/A -
063117	MICROBIO stand with 2 stative rods + 1 plate-forme perforée	N/A -

## Solaris Electric Burner



Solaris electric burner to sterilise your inoculation handles, forceps and small instruments easily, quickly and safely.

- Instant use with no waiting time
- Infrared detection in the sterilisation cylinder, switch-free ignition
- 4 tilt angles available, convenient instrument holding
- Programmable 5 or 7 second sterilisation, facilitating the sterilisation of many instruments in a row

Sterilisation T°	900 - 1300 °C
Power	500 W
Power supply	200-240 V , 50-60 Hz
Cat. No.	159604
Price	N/A -

### Accessory

Cat. No.	Description	Price 2 units
159605	Quartz tube for Solaris	N/A -

## Fuego Safety Burners



- Stainless steel and glass case
- UV and solvent resistant
- Safety system with residual heat display
- Removable Stainless steel and ceramic burner head, autoclavable
- Fuego and Fuego pro model customizable with 2 user accounts
- Supplied with an holding device for 3 inoculation loops

Model	Fuego Basic	Fuego Basic RF	Fuego	Fuego Pro
Control pedal	Wired (included)	Radio transmitter (included)	-	-
Infrared sensor	-	-	By click or double-click	
Alarms	Visual		Audible and visual	
Thermoregulation on heated solution	-		From + 35 to + 350 °C	
Dimensions W x D x H (mm)	103 x 130 x 49			
Weight (kg)	0.7			
Power supply	100-240V, 50-60 Hz			
Battery operation	-	-	-	2 x AA
Cat. No.	788010	788011	788012	788013
Price	N/A -	N/A -	N/A -	N/A -

\* Fuego and Fuego Pro compatible only.

### Accessories

Cat. No.	Description	Price
788014	Protective screen	N/A -
788015	Adapter for thermocouple probe *	N/A -
788016	Type K immersion thermocouple probe *	N/A -
788017	Adapter for C360 cartridges	N/A -
060311	Butane gas cartridge 52 g CV360 (6 units)	N/A -
788018	Adapter for C206 cartridges	N/A -
110589	C206 cartridge (6 units)	N/A -



## Dragon 300 and 320 electric burners

- For sterilising needles, inoculation loops and the neck of culture tubes
- Adjustable temperature (850 °C maximum)
- Combustion chamber angle adjustable from 45 to 75 °
- Holder for the proper insertion of the material to be sterilized
- 2 versions\* OpeningØ 16 mm (886047) or 37 mm (886048)

Model	Dragon 300 electric burner	Dragon 320 electric burner
Temperature range ( °C)	RT+20 to 850	
Power (W)	180	
Chamber diameter (mm)	16	37
Dimensions (L x D x H)(cm)	9 x 17 x 21	9 x 19 x 21.5
Weight (g)	1128	1098
Cat. No.	<b>886047</b>	<b>886048</b>
Price	N/A -	N/A -



## Fireboy Plus Electronic Burner

- Electronic burner with safety sensor
- Mobile, compact and durable
- Dual-pass flame ignition sensor technology for your safety
- Fully secured against gas leaks
- New body and new design resistant to UV and solvents
- Three modes of operation: continuous, sensor or pedal
- Simple and intuitive control screen

Cat. No.	Description	Price
<b>060420</b>	Fireboy Plus: electronic safety burner with sensor, flame monitor and overheating protection, without foot switch, complies with CE regulations	N/A -
<b>060422</b>	FIREBOY eco: electronic safety burner with foot switch	N/A -



### Accessories

Cat. No.	Description	Price
<b>060423</b>	Rechargeable* Battery 3.6 V / 2000mAh	N/A -
<b>060316</b>	Control pedal	N/A -
<b>060311</b>	Butane gas cartridge 52 g CV360 (6 units)	N/A -
<b>060433</b>	Chimney shape burner head	N/A -

\* compatible only with Fireboy Plus

## Phoenix II Safety Burner

- For flame sterilisation of instruments or bottle necks
- Hands free
- Stainless steel
- Digital display of the ignition time
- Gas savings of up to 80 %
- Resistant to UV
- Flame sterilisable
- Integrated instrument holder
- Sensor, hand or foot operated
- Multi-language display
- Works with batteries

Operating time	1 sec - 120 min
Voltage	100 -240 V AC, +/- 5 %, 50-60 Hz
Adapter	6 V DC, 3 VA max.
Gas connection clip	Inner diameter 10 mm
Natural gas working pressure	20 mbar
Propane/butane working pressure	50 mbar
Cartridge contents	CV360: Butane 52 g C 206: Butane 190 g
Natural gas consumption	0.06 cbm/h
Propane/butane consumption	77.2 g/h
Dimensions (L x H x D):	125 x 85 x 160 mm
Approx. weight	1 kg

Cat. No.	Description	Price
<b>110578</b>	Phoenix II safety burner with pedal	<b>945.N/A -</b>



### Accessories

Cat. No.	Description	Price
<b>110580</b>	Phoenix II adapter for cartridge CV 360	N/A -
<b>110581</b>	Phoenix II adapter for cartridge C 206	N/A -
<b>060311</b>	Butane gas cartridge 52 g CV360 (6 units)	N/A -
<b>110589</b>	Cartridges C 206 (6 units)	N/A -
<b>071108</b>	Cartridge C 206 per unit	N/A -

Many accessories available on request.

## Microcentrifuge capacity 8 microtubes



- Supplied with two rotors
- Ultra high performance, ultra quiet
- Robust and easy to use

Speed selection button on the back of the unit.

Max. capacity	8 x 1.5/2ml microtubes or 2 strips of 8 x 0.2 ml microtubes
Speed (rpm)	3 speeds: 4000, 7000 or 10000
RCF acceleration (g)	900, 2910 or 5610 with microtube rotor
Number of rotors	2 Rotors included
L x D x H (mm)	155 x 175 x 125
Power supply	AC 85-240V
<b>Cat. No.</b>	<b>141097</b>
<b>Price</b>	<b>N/A -</b>

## Individual microcentrifuge



*For short centrifugations and microfiltration.*

- On/off switch
- Long-lasting lid

Delivered with:

- rotor for 1.5/2 ml microtubes,
- rotor for 8 x 0.2 ml PCR microtubes strip,
- adapters for 0.2 ml tubes, and adapters for 0.5 ml tubes.

Maximum capacity	8 x 1.5/2 ml microtubes or 4 strips of 8 x 0.2 ml microtubes
Number of rotors	2 Rotors included
Speed (rpm)	6500
RCF acceleration (g)	2000
Dim W x L x H (mm)	145 x 160 x 132
Weight (kg)	1.12
<b>Cat. No.</b>	<b>531003</b>
<b>Price</b>	<b>N/A -</b>

## Prism Mini Microcentrifuge



- Benchtop microcentrifuge for 1.5/2 ml microtubes and PCR strips
- Start/stop system by opening/closing the cover

Capacity	8 x 1.5/2 ml tubes or 4 PCR strips (including rotors)
Speed	6000 rpm
Acceleration	2000 g
Dimensions (cm)	13.2 x 13.2 x 11.2
Weight (kg)	0.55
Power	120V or 230V, 50/60 Hz
<b>Cat. No.</b>	<b>096647</b>
<b>Price</b>	<b>N/A -</b>

### Accessory

Cat. No.	Description	Price
096814	Replacement rotor for 4 strips of 8 microtubes	N/A -

## ClearLine® Microcentrifuge for microtubes

Microcentrifuge for 2 ml, 1.5 ml, 0.5 ml (to be placed in 1.5 ml microtubes) or 0.2 ml microtubes.

Supplied with 2 rotors: one rotor for 6 microtubes 1.5 / 2 ml and one rotor for 2 strips of 8 PCR microtubes 0.2 ml.

- **Off-On switch**
- **Stable muffler**
- **Lockable translucent lid**
- **Fixed angle rotor**



Maximum capacity	6 x 1.5 ml microtubes or 2 x 8 microtube strips
Speed (rpm)	6000
RCF acceleration (g)	2000
Timer	No
Number of rotors	1 rotor for 6 microtubes and 1 rotor for 2 strips included
<b>Cat. No.</b>	<b>037997</b>
<b>Price</b>	<b>N/A -</b>

## MyFuge 12 Mini Centrifuge

- **Power: 100 to 240 V, 50-60 Hz**
- **12 microtubes and 4 PCR tube strips can be centrifuged simultaneously**

Maximum capacity	12 x 1.5 and 2 ml tubes and 32 x 0.2 ml PCR tubes (or 4 strips of 8 x 0.2 ml PCR tubes)
Speed (rpm)	5500
RCF acceleration (g)	2000
Number of rotors	1 rotor included
Ø x W x H (cm)	14 x 20 x 11.20
Weight (kg)	5
<b>Cat. No.</b>	<b>060973</b>
<b>Price</b>	<b>N/A -</b>

Cat. No.	Description	Price
060974	Adapter for 0.5 ml tubes (6 units)	N/A -
060975	Adapter for 0.2 ml tubes (6 units)	N/A -



A single rotor for tubes and tube strips

## Economic centrifuge for PCR plates



By centrifugation, all droplets on the walls of the tubes, and condensation droplets, are concentrated at the bottom of the tube.

- ▶ Use before and after amplification to increase PCR yield
- ▶ Accepts all standard, skirted and unskirted PCR plates
- ▶ Compact centrifuge

Maximum capacity	2 PCR plates
Speed (rpm)	2500
RCF acceleration (g)	500
L x D x H (mm)	190 x 210 x 183
Weight (kg)	3
<b>Cat. No.</b>	<b>096614</b>
Price	N/A -

## Axygen Mini Plate Spinner Centrifuge



- ▶ Use before and after amplification to increase PCR yield
- ▶ Small footprint
- ▶ Compatible with all standard PCR plates, skirted and unskirted

Capacity	2 PCR plates
Speed (rpm)	2500
Acceleration (g)	500
Operating temperature	4 °C to 35 °C
Dimensions W x D x H (mm)	190 x 210 x 183
Weight (kg)	3
<b>Cat. No.</b>	<b>431287</b>
Price	N/A -

## ClearLine® Microcentrifuge for PCR plates



Before and after centrifugation



During centrifugation

**ClearLine®**



- ▶ Unique free rotor design prevents splashing
- ▶ Smaller size
- ▶ Accepts all types of PCR plates, microplates, and Deepwell plates (with optional rotor)
- ▶ Warranty: 5 years

Speed (rpm)	2100
RCF acceleration (g)	400
Capacity	2 PCR plates * or 2 microplates or 192 PCR tubes 0.2 ml or 24 strips of 8 tubes
Deceleration (s)	7
Dimensions (W x L x H) (mm)	230 x 260 x 197
Weight (kg)	4
Power	230 V, 50 Hz
<b>Cat. No.</b>	<b>062583CL</b>
Price	N/A -

\* Maximum capacity 4 plates in a stack (with optional deepwell rotor)

### Adapter and rotor

Cat. No.	Description	Price
062584	Adapter for 0.2 ml PCR tubes (2 units)	N/A -
062585	Rotor for Deepwell plates (max. height 35 mm)	N/A -

## 6K, D1008 or 10K microcentrifuges

- **Simple operation: automatic start and shutdown when the lid is closed/opened**
- **3 different rotors:**
  - standard: 8 x 1.5/2 ml microtubes
  - PCR: 2 strips of 8 x 0.2 ml tubes (or 16 individual tubes)
  - coverslip
- **All models are supplied with the standard rotor and adapters for 0.5 and 0.2 ml microtubes**



Model	Mini-6K	D1008	Mini-10k
Rotor compatibility	Standard, PCR and coverslip	Standard and PCR	Standard
Speed (rpm)	6000	7000	10000
RCF acceleration (g)	2000	2680	5000
Ext. dim. L x D x H (mm)	175 x 148 x 118		
Blue	531500	531501B	-
Green	-	861056B	-
Red	-	-	531502
Price	N/A -	N/A -	N/A -

### Accessories for Mini-6K

Cat. No.	Description	Price
531505	Allen Key	N/A -
531503	PCR rotor for 2 strips of 8 x 0.2 ml microtubes	N/A -
531504	Rotor for slides	N/A -

### Accessories for D1008

Cat. No.	Description	Price
861059	Rotor for 8 x 1.5/2 ml tubes	N/A -
861060	Rotor for 2 strips of 8 x 0.2 ml microtubes	N/A -
861061	Adapters for 0.2 ml tubes (8 units)	N/A -
861062	Adapters for 0.5 ml tubes (8 units)	N/A -

## MyFuge Centrifuge with coloured lid

*To differentiate the workstations or manoeuvres!*

- **Benchtop centrifuge supplied with two rotors:**
  - rotor for 8 x 1.5 or 2 ml microtubes
  - rotor for 2 strips of 0.2ml PCR microtubes or 16 x 0.2ml PCR microtubes
- **With adapters for 0.5 ml microtubes**
- **Storage compartment for strip rotor and microtube adapters**
- **Speed 6000 rpm**
- **2000 g**

Maximum capacity	8 x 1.5/2ml microtubes or 16 x 0.2 ml PCR microtubes
Speed (rpm)	6000
RCF acceleration (g)	2000
Number of rotors	2 included
L x D x H (mm)	114 x 149 x 114
Power	100 à 240 V, 50-60 Hz

Cat. No.	Description	Price
062500	MyFuge Centrifuge transparent lid	N/A -
062501	MyFuge Centrifuge blue lid	N/A -
062502	MyFuge Centrifuge purple lid	N/A -
062503	MyFuge Centrifuge green lid	N/A -
062504	MyFuge Centrifuge red lid	N/A -



## Microcentrifuges for plates, strips and tubes

- **Concentrates droplets and condensation at the bottom of the tube**
- **For standard plates, skirted or unskirted**
- **The MPC-P25 can centrifuge 8 x 0.2 ml strips and 0.2 ml tubes (adapters supplied)**
- **To be used before and after PCR amplification**

Model	Mini-P25	MPC-P25
Capacity	2 PCR plates	2 PCR plates, 2 Elisa plates, 2 x 12 strips 8 x 0.2ml or 2 x 96 tubes 0.2 ml
Max. speed (rpm)	2500	2200
Max centrifugal force (g)	500	480
Timer	-	0 - 10 min
Dim. (W x D x H) (mm)	190 x 220 x 186	290 x 360 x 140
Weight (kg)	2.1	3.6
Power supply	220 V, 50/60 Hz	
Cat. No.	531508	531509
Price	N/A -	N/A -



Mini-P25



MPC-P25

## Lab jacks



Height-adjustable lab jacks.

### Anodised aluminium lab jacks

Cat. No.	Tray Dim. (mm)	Mini/ maxi height (mm)	Dynamic load	Static load	Price
090852	100 x 100	50/100	10	30	N/A -
090853	150 x 150	65/280	15	60	N/A -
090854	200 x 200	65/300	20	60	N/A -



### Stainless steel Lab Jacks

Cat. No.	Tray Dim. (mm)	Mini/ maxi height (mm)	Dynamic load	Static load	Price
090855	130 x 160	60/245	15	60	N/A -
090856	200 x 200	65/300	20	60	N/A -
090857	300 x 300	80/450	40	80	N/A -

## Lab Jacks



>Stainless steel for the lifting mechanism

>Anodised aluminium trays

Cat. No.	L x W x H (mm)	Max. load (kg)	Maxi/mini height (mm)	Pre Tapped	Price
215047	76.2 x 76.2	4.5	82.6 / 25.4	-	N/A -
215049	120 x 140	22.7	264 / 76	-	N/A -
215050	101.6 x 101.6	11.3	140 / 42	-	N/A -
215051	152.4 x 152.4	27.2	273 / 62	X	N/A -
215052	203 x 203	34	280 / 57	X	N/A -
215053	305 x 305	45.4	508 / 89	X	N/A -

### Accessory

Cat. No.	Description	Price
215054	Supporting rod, length 475 mm	N/A -

## Microwave ovens



Model	7891	MW 7751	7825
Power (W)	700	800	900
Grill (W)	1000	1000	1100
Convection (W)	-	-	2500
Volume (l)	20	20	30
Programming and timer	Mechanical 35 min.	Mechanical	Digital display/clock
Plate ø (cm)	25.4	24.5	31.5
Height above the plate(mm)	16.5	17.5	20
L x D x H ext. (mm)	435 x 345 x 254	452 x 380 x 262	523 x 505 x 325
L x D x H int. (mm)	NC	NC	330 x 330 x 200
Cat. No.	067220B	067232	067229
Price	N/A -	N/A -	N/A -

## Major hybridisation oven with integrated shaker

3 models combined with rotating shaker at the top and low shaking platform

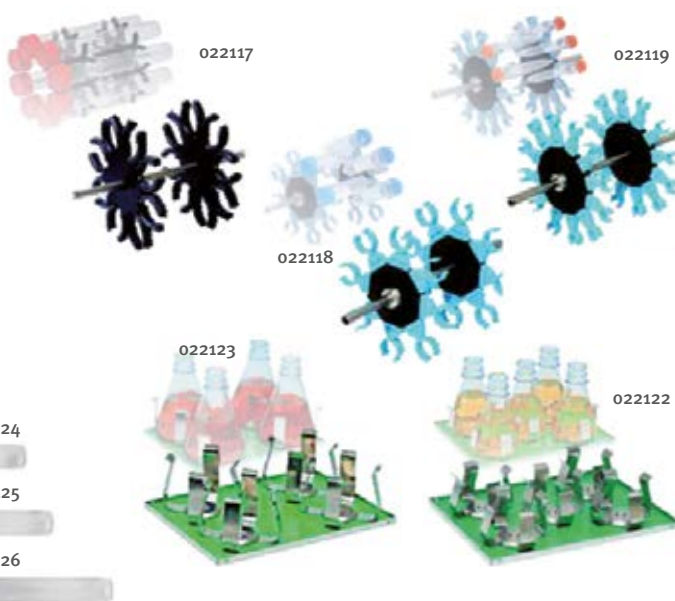
- Programming display via a touch screen
- Bi-directional shaking on the orbital model
- Can be calibrated by the user
- Safety closing on the door
- Large range of accessories available
- For 4 flasks of 500 ml or 5 flasks of 250 ml



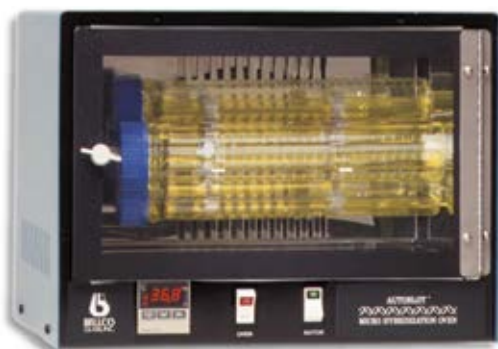
Model	MO-AOR Orbital shaking	MO-ARK Rocker
Display	3.5" 64K color TFT	
Interface control	Touch screen and graphic interface	
Rotating shaker function	Yes	
Rotating shaker speed	5-10 rpm - 1 rpm	
Timer	1-9999 min with alarm, continuous	
Speed	0-200 rpm	5-100 rpm
Temperature range	Ambient + 5 °C to 85 °C	
Temperature increment	0.1 °C	
Stability at 37 °C	± 0.2 °C	
Accuracy at 37 °C	± 0.2 °C	
Int. dim. L x W x H (mm)	340 x 225 x 260	
Ext. dim. L x W x H (mm)	442 x 462 x 452	
Platform size (mm)	270 x 200	
Weight (kg)	29	
Cat. No.	022115	022113
Price	N/A -	N/A -

### Accessories

Cat. No.	Description	Price
022116	Platform for shaker 022113	N/A -
022117	Rotating shaker for 8 tubes 40 mm	N/A -
022118	Rotating shaker for 16 conical tubes 50 ml	N/A -
022119	Rotating shaker for 24 conical tubes 15 ml	N/A -
022121B	Platform 23 x 20 cm with 4 pillar supports of 10 cm	N/A -
022122	Bottle holder 250 ml	N/A -
022123	Bottle holder 500 ml	N/A -
022124	Hybridization bottle 40 x 150 mm	N/A -
022125	Hybridization bottle 40 x 200 mm	N/A -
022126	Hybridization bottle 40 x 300 mm	N/A -



## Hybridization ovens



Bellco hybridization ovens allow all pre-hybridization, hybridization and washing operations to be carried out at a perfectly regulated temperature and with rotary motion agitation.

Bellco hybridization ovens are available in three versions: standard oven for 12 tubes, mini oven for 4 tubes, mini oven for 6 tubes.

- Digital temperature display
- Temperature adjustable from 5 °C to 99 °C
- Microprocessor temperature control
- Fast and even temperature distribution by ventilation
- Rotational speed of 7.5 rpm
- Removable rotating unit for easy maintenance

### Hybridization ovens

Cat. No.	Capacity	Internal dim. (cm)	External dim. (cm)	Price
793000	4 x 35 mm tubes	37.5 x 18 x 20.5	41.5 x 34.5 x 32.5	N/A -
793100	6 x 35 mm tubes	37.5 x 18 x 20.5	41.5 x 34.5 x 32.5	N/A -

### Accessories for hybridization ovens

Cat. No.	Description	Dimensions	Units/ cardboard box	Price / cardboard box
791039	Hybridization tube	35 x 300 mm	2	N/A -
791036	Hybridization tube	35 x 225 mm	2	N/A -
791037	Hybridization tube	35 x 150 mm	2	N/A -
791038	Hybridization tube	35 x 100 mm	2	N/A -
791020	Nylon sheet	23 x 23 cm	5	N/A -
791030	Rack for 12 tubes	-	1	N/A -

## Mini cabinet freezer - 30 °C LF 100



- Ventilated cooling and automatic defrosting
- Digital display
- Height-adjustable shelves
- Door lockable by key
- Automatic door reminder
- Visual and audible alarms (temperature, power failure)
- Adjustable high and low temperature alarm
- Stainless steel interior and white galvanised exterior
- Stainless steel shelves or drawers possible (optional)

Volume (l)	94
Temperature	- 30 °C
Display	Digital
Int. Dim. H x W x D (mm)	434 x 490 x 440
Ext. Dim. H x W x D (mm)	790 x 610 x 659
Supplied with plastic shelves	2
Weight (kg)	65
Consumption (kwh/24 h)	7.2
Power supply	230 V / 50-60 Hz
<b>Cat. No.</b>	<b>960021</b>
<b>Price</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
960023	Additional plastic grid (holders included)	N/A -
960024	Additional stainless steel grids (holders included)	N/A -
960025	Stainless steel drawer (holders included)	N/A -

## Compact benchtop -80 °C mini freezers



Very compact -80 °C freezers can be positioned under the bench, giving quick and easy access to samples.

- Different capacities: 7 l, 50 l and 88 l
- Touchscreen
- Visual and audible alarms for: power failure, temperature fault, open door etc.
- Dry contact for alarm reporting
- Vacuum insulated panels for optimal insulation and reduced energy costs
- Natural refrigerant
- Pressure relief valve for immediate reopening of the door
- Heated door seal to reduce ice formation

Model	COMPACT P10	COMPACT P15	COMPACT P90
Volume (litre)	7	50	88
Total capacity of 2 ml tanks	5	30	60
Int. Dim. W x D x H (mm)	-	-	-
Ext. Dim. W x D x H (mm)	-	-	-
<b>Cat. No.</b>	<b>960044</b>	<b>960045</b>	<b>960046</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>



## Ultra-low temperature mini freezers - 80 °C

- Robust and easy to use
- Space-saving
- Low energy consumption
- Stainless steel interior and galvanised steel exterior
- Digital display
- Sub-doot included, except for 35L model
- Lockable door
- Racks for freezer boxes are to be ordered separately

Model	7 L	54 L	71 L	94 L
Sheet	Vertical	Vertical	Chest	Vertical
Temperatures	- 40 to - 90 °C	- 40 / - 80 °C	- 40 / - 80 °C	- 40 / - 80 °C
Volume (litre)	7	54	71	94
Int. Dim. W x D x H (mm)	150 x 143 x 310	360 x 468 x 320	390 x 390 x 450	360 x 493 x 600
Ext. Dim. W x D x H (mm)	400 x 630 x 665	600 x 700 x 810	552 x 648 x 850	950 x 725 x 810
Power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Weight (kg)	55	74	53	105
Cat. No.	960000	960002	960034	960003
Price	N/A -	N/A -	N/A -	N/A -



### Drawer racks for 130 x 130 x 50 mm boxes

Cat. No.	Number of boxes/rack	Freezer model	Racks/freezers	Price
130305	15 (3 x 5)	54 L	2	N/A -
130301	12 (3 x 4)	94 L	4	N/A -

### Side access racks for 130 x 130 x 50 mm boxes

Cat. No.	Number of boxes/rack	Freezer model	Racks/freezers	Price
130193	10 (2 x 5)	35 L	2	N/A -
130198	15 (3 x 5)	54 L	2	N/A -
130197	12 (3 x 4)	94 L	4	N/A -
130116	8	71 L	5	N/A -

### Options

Cat. No.	Description	Price
960004	CO2 backup option - factory mounting included with order	N/A -
960005	Temperature recorder - 100 °C to 0 °C	N/A -
960006	Paper for temperature recorder	N/A -

## Cardboard racks

- For cardboard, polypropylene or polycarbonate cryoboxes
- Made of hydrophobic cardboard for long-term use
- Can be used down to - 160 °C
- For 50 mm high boxes
- With side removal handle
- Sheet: 5 rows of 4 boxes
- H x W x D: 285 x 138 x 560 mm

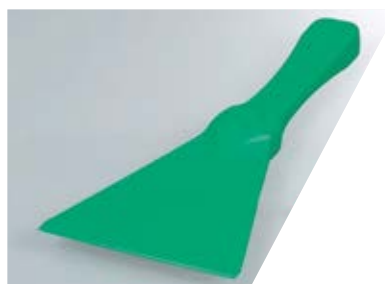


Cat. No.	Description	Price
013068	Cardboard cryo rack with 20 origami boxes 9 x 9 cm	N/A -
013069	Cardboard cryo rack with 20 standard boxes 9 x 9 cm	N/A -

## Freezer scrapers

- Ideal for removing frost build-up in a freezer
- Made of polypropylene
- Robust

Cat. No.	Description	Price
795630	Scraper 250 x 110 mm	N/A -



## Compact Cold Box

- Compact Bench Cold Box
- Capacity: 30 l
- Can be used at ambient temperatures of +12 °C to +30 °C
- Model with glass door
- LED display
- All stainless steel interior
- Access port Ø 10 mm
- Stackable units (max. 3)

Volume (l)	30
Temperature	+10 to -20 °C
Int. dim. L x D x H (mm)	360 x 350 x 230
Ext. dim. L x D x H (mm)	530 x 700 x 460
Weight (kg)	42
Power supply	230 V / 50 Hz
Cat. No.	231100
Price	N/A -



### Drawers for cryoboxes - 135 x 135 x 52 mm

Cat. No.	Description	Price
231101	Rack with 4 drawers (4 boxes/drawers)	N/A -

## Temperature recorder



- Mobile recorder with internal sensor
- Spontaneous alarm 2 high and low thresholds
- Visual alarm by LED flash + beep
- Data transfer via PC interface
- Loop operation or memory full stop
- Window 98 mini compatible
- Internal temperature sensor -40 °C to +70 °C; accuracy: +/- 0.3 °C, resolution 0.1 °C
- Protection IP 67
- Up to 16000 measurements in memory
- Recording time of 5 seconds to 255 minutes
- The recorder can be started at a programmed time or manually on site

Cat. No.	Description	Price
670491	Mobile temperature recorder (mobile recorder, PC interface and software package)	N/A -
670418	Mobile temperature recorder only	N/A -

## Mini incubator



- Personal incubator, Capacity: 9.2 litres
- Glass door, 3 possible shelf heights
- Temperature range: ambient + 5 °C to 60 °C
- Supplied with 1 shelf
- Diode indicates when the device is in the heating phase
- Thermometer -20 °C to +110 °C optional (non-toxic, Teflon coated, resolution 1 °C, length 305 mm, immersion 76 mm)

External dimensions (L x D x H)	28.5 x 28 x 33.5 cm
Internal dimensions (L x D x H)	23 x 20 x 20 cm
Weight	8.3 kg
Stability / Uniformity at 37 °C	+/- 0.6 °C / 0.65 °C

Cat. No.	Description	Price
096527	Mini-incubator	N/A -
096528	Additional shelf, 22 x 18 cm	N/A -
096529	Thermometer -20 °C to +110 °C	N/A -

## Thermocult Mini Incubator



- Compact incubator for bacteriology.
- Fixed temperature of 35 +/- 2 °C
- With glass door for better viewing
- For 20 culture flasks or 8 Petri dishes

Internal dimensions L x W x H (mm)	210 x 145 x 110
External dimensions L x W x H (mm)	300 x 170 x 150
Weight (kg)	1.3
Power supply / Power	220 V, 30W
Cat. No.	030124
Price	N/A -

### Accessory

Cat. No.	Description	Price
030125	Shelf	N/A -

## CCC basic mini-incubator



- Mini model for a microplate
- Heating element on the back to prevent "cooking" the samples
- Temperature indication using an indicator tab
- Transparent door

Chamber volume (cm <sup>3</sup> )	2857.14
Chamber dimensions L x W x H (mm)	184 x 133 x 171
Temperature	+ 5 °C to 42 °C
Dimensions L x W x H (mm)	197 x 184 x 159
Shipping weight (kg)	3.6
Power supply	230 VAC, 50/60 Hz
Cat. No.	215099
Price	N/A -

# MAGNIFIERS AND LAMPS

## Illuminated magnifiers 8 LEDs and 1 UV

- Acrylic glass lens
- LED and UV lighting
- Batteries: 3 x AAA (not included)

Lens magnification	x 2.5	x 4
Bifocal magnification	x 6	Without
Lens Ø (mm)	90	60
Dimensions W x D x H (mm)	90 x 40 x 50	60 x 40 x 30
Weight (g)	100	120
Lighting	8 LEDs + 1 UV	
Cat. No.	095408	098461
Price	N/A -	N/A -



## Illuminated hand-held magnifier

- With an acrylic glass lens, for observation in dark environments
- Uses 3 AAA batteries (not included)

Magnification	x 4
Glass Ø (mm)	65
Weight (g)	90
Lighting	2 LED Ø 5 mm
Cat. No.	095402
Price	N/A -



## Convertible illuminated magnifier

- In acrylic glass
- Bifocals 2.5 x Ø 90 mm + 8 x Ø 25 mm
- Aplanatic lens (without deformation of the image), achromatic (without iridescence)
- White lighting, 10 leds
- Usable by hand or placed on his foldable stand
- Powered by 2 AA batteries (not included) or mains (adapter included)
- Dimensions: 290 x 100 x 25 mm
- Weight: 260 g

Cat. No.	Description	Price
098486	Illuminated hand-held magnifier with retractable stand	N/A -



## Lamp Magnifier

Desk Lamp Magnifier, articulated.

- Magnification x 2.25
- Biconvex acrylic glass lens Ø 125 mm
- Lighting 48 LED bulbs
- Pantograph 2 arms / l: 172 cm
- 6-wheel table or stand attachment (Cat. No. 095399B optional)
- Dimensions 240 x 60 mm
- Weight: 2.3 kg
- Power supply: 220V / 4W

Cat. No.	Description	Price
098403	Biconvex magnifying lamp	N/A -
095399B	Stand with 6 castors (height: 70 cm, Ø x H base: 38 x 8.5 cm)	N/A -



## Lamp Magnifiers

- 22 W circline lighting
- Biconvex lens ø 125 mm
- Magnification 1.75 X = 3Dp
- Pantograph 2 articulated arms
- H: 950 mm / ø 210 mm
- Power supply: 220 V
- Weight: 1.3 kg

Cat. No.	Description	Price
095382B	Magnifying Lamp	N/A -



## Desk Magnifying Lamp to be placed or clamped



- > Magnifications: 2.25 x and 4 x
- > Lens Ø 90 mm and double focus Ø 20 mm
- > Illumination: 2200 lux
- > Light intensity: 550 lumens
- > For table or desk mounting
- > Turning on or off by touch
- > 25 cm articulated arm
- > Power supply: 6 W (incl. 230 VAC - 12 VDC adapter)

Cat. No.	Description	Price
098497	Lamp - desk Magnifying glass to place / to clamp	N/A -

## Magnifying lamps with LED lighting



- > Equipped with 2 modules 6W LED
- > Lighting on both sides of the magnifying glass
- > Dimmer switch: 0 % - 50 % - 100 %
- > Lamp head dimensions (mm): 227 x 224
- > Rectangular magnifying glass 175 x 108 mm, crown glass
- > Diopters: 3.5 or 5
- > Steel arms (mm): 1050
- > Grey
- > 230 V, 50/60 Hz
- > Supplied with clamp for fixing to a table

Lux at 50 cm	8400
Lumens	600
IRC	80
Kelvin	4000 °
IP	20

Cat. No.	Description	Price
231019	Magnifying lamp 3.5 dioptres	N/A -
231020	Magnifying lamp 5 dioptres	N/A -
231021	Magnifying lamp UV 3.5 dioptres	N/A -

## Headband illuminated magnifier



- > 5 binocular lenses: x 1 / x 1.5 / x 2 / x 2.5 / X 3.5
- > Possibility of superimposing 2 lenses
- > 11 possible magnifications up to 6 x
- > White light (2 leds, Ø 5mm), adjustable lighting thanks to the articulated head
- > Adjustable head strap
- > 3 AAA batteries (not included)
- > Weight: 310 g

Cat. No.	Description	Price
098487	Headband illuminated magnifier	N/A -

## Frontal illuminated magnifier



- > In acrylic glass
- > Fixed lens for distant vision: 2 x / large dimensions 125 x 75 mm
- > Supplied with 3 binocular folding lenses for close-up viewing: 1.5 x, 2.5 x, 3.5 x
- > Various magnifications available: 2 x, 3.5 x, 4.5 x, 5.5 x
- > LED light Ø 5 mm, white light
- > Weight: 310 g
- > 3 batteries type LR1130 (not included)

Cat. No.	Description	Price
098485	Frontal illuminated magnifier	N/A -

# MAGNIFIERS AND LAMPS

## Pocket magnifier

- Metal folding magnifier with mineral glass
- Magnifier x 20 has LED lighting with 3 batteries 189



	X 10	X 20
Magnification	X 10	X 20
Glass Ø (mm)	21	25
Weight (g)	40	50
Cat. No.	095400	095401
Price	N/A -	N/A -

## Hand magnifier 5 X

- 5 x 50 mm
- Mineral glass
- ABS handle



Cat. No.	Description	Price
053293B	Hand magnifier 5 X	N/A -

## Flashlights

### CREE LED Flashlights

- Mat black steel
- Ribbed Rubber handle
- 200 lumens
- Light range 200 m
- Adjustable focus, beam angle 10° - 70°
- Battery life 3 h, 2 h for the rechargeable model
- 1.5V batteries and case included
- Rechargeable by USB port, 3.7 V/2600 mAh Li-ion, Light duration 2 h
- Dimensions: 160 x 40 mm



Cat. No.	Description	Price
231024B	IP54 battery Flashlight	N/A -

### ATEX LED Flashlight



- Certification ATEX Zone II 1 G Ex ia IIC T4; ia IIC T4 Ga
- 180/70 lumens
- Range 117/83 m (depending on the selected lighting mode)
- 3 lighting modes: 50%, 100% and flash
- Autonomy 8h to 30h
- 4 AA batteries not included
- Weight: 0.140 kg

Cat. No.	Description	Price
231027B	ATEX IP67 LED lamp	N/A -

### UV LED flashlight 1W black



- Wavelength 395 nm
- Waterproof
- IP 65
- Autonomy 3 h 30
- Batteries 2 x CR123A not included
- Dimensions: 132 x 33.5 mm
- Weight: 0.144 kg

Cat. No.	Description	Price
231026	UV Flashlight	N/A -

## 3W LED inspection lamp

- Beam angle 45°
- Luminous flux 390 Lumen
- Head Ø 17 mm , Length 65 mm
- 450 mm flexible arm
- IP67
- 240 V transformer to be ordered for mains supply

Cat. No.	Description	Price
231022	Complete lighting rod 450 mm	N/A -
231023	240V transformer	N/A -



## Fluorescent Tasklight

- Flexible arm for precise control
- Lighting 1800 lumens
- Arm Length 1050 mm
- 24 W, 230 V
- Supplied with C-Clamp for table fixation

Cat. No.	Description	Price
231015	24 W white lamp	N/A -
231016	Tube 2G11 24 W	N/A -



## Halogen light 20W



- Natural light 3000° K
- 500 or 700 mm flexible arm
- Base dimensions 60 x 60 mm
- Head Ø 62 mm, tilting 90° for head with joint
- 230V/12V Transformer included in the stand
- Supplied with a base and 4 screws for direct fixing
- Other optional stands available

	Head without joint		Head with joint	
	Cat. No.	Price	Cat. No.	Price
Flexible arm 500 mm	231011	N/A -	231012	N/A -
Flexible arm 700 mm	231013	N/A -	231014	N/A -

### Stands

Cat. No.	Description	Price
231045	Magnetic base 540N, Ø x H (mm): 90 x 25	N/A -
231046	Table stand, black, Ø x H (mm): 200 x 32	N/A -
231047	Table stand, white, Ø x H (mm): 200 x 32	N/A -

## LED Tasklight for professional applications

- LED Tasklights, black
- Base dimensions: 60 x 60 mm
- Base with 4 screws for direct fixing

### Pluto Tasklight 1.2W

- Lighting angle 25°
- Including 8° and 40° interchangeable lenses
- Flexible arm 500 mm
- IP 20
- Head size L x Ø (mm): 65 x 30, tilting 90°
- Weight: 0.7 kg

Lux at 50 cm	1000
Lumens	70
IRC	92
Kelvin	4000 °



Cat. No.	Description	Price
231000	Pluto Tasklight 1.2W	N/A -

### Transformer for Pluto and Tellus

Cat. No.	Description	Price
231010	Transformer 240V IP44	N/A -

### Stands common to Tellus and Pluto lamps

Cat. No.	Description	Price
231045	Magnetic base 540 N, Ø x thickness 90 x 25 mm	N/A -
231046	Table base, black, Ø x thickness 200 x 32 mm	N/A -
231047	Table base, white Ø x thickness 200 x 32 mm	N/A -

- Optional stands available
- 240 V transformer to be ordered for mains connection

### Tellus 3.3W Tasklight

- Delivered with 15° lens
- Head dimensions L x Ø (mm): 100 x 50, tilting 90°
- Weight: 0.6 - 1 kg

Lux at 50 cm	8800
Lumens	230
IRC	92
Kelvin	4000 °
IP	According to version



IP	With flexible arm 500 mm		With flexible arm 700 mm		With spot 40 mm	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
20 with joint	231001	N/A -	231005	N/A -	231009	N/A -
20 with converter	231002	N/A -	231006	N/A -	-	-
43	231003	N/A -	231007	N/A -	-	-
65	231004	N/A -	231008	N/A -	-	-

## LID Tasklight

- Robust and quiet flexible arm lamps for precise and durable positioning
- LEDs on printed circuit guaranteeing a long life (50000h) or halogen bulb (5000h) depending on the model
- Standard switch, contactless or with dimmer depending on model

- Compliant with standards EN 60 601-1/-2-41 and EN 60 598-2-25
- Class 1 medical device
- Lamp only, to be completed with a stand
- Made in France
- 3 year warranty



013417



013469



013437



013409

### Carla LED lamp ➤ Swivel head ➤ Diffused lighting 25°

Flexible arm (mm)	650	1000	1230
Luminous intensity (lm)		420	
Illumination at 50cm (lx)		7000	
Illuminated area at 50cm (mm)		200	
Colour temperature	4500°K (neutral white)		
Colour rendering index	IRC 95/100		
Power consumption	4.2 W		
Head dimensions (mm)	60 x 100		
<b>With standard switch</b>	<b>013417</b>	<b>013419</b>	<b>013421</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>
<b>With contactless switch</b>	<b>013418</b>	<b>013420</b>	<b>013422</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>

### Tina Halogen Lamp ➤ Swivel head ➤ Precise 10° lighting

Flexible arm (mm)	650	1140
Luminous intensity (lm)		300
Illumination at 50cm (lx)		23000
Illuminated area at 50cm (mm)		100
Colour temperature	3000°K (warm white)	
Colour rendering index	IRC 100/100	
Power consumption	20 W	
Head dimensions (mm)	70 x 70	
<b>With standard switch</b>	<b>013469</b>	<b>013471</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>
<b>With contactless switch</b>	<b>013470</b>	<b>013472</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

### Lina LED Lamp ➤ Swivel head ➤ Diffused lighting 25°

Flexible arm (mm)	650	1000
Luminous intensity (lm)		1680
Illumination at 50cm (lx)		15000
Illuminated area at 50cm (mm)		700 x 600
Colour temperature	4500°K (neutral white)	
Rendering index Colours	IRC 95/100	
Power consumption	17 W	
Head dimensions (mm)	25 x 500	
<b>With standard switch</b>	<b>013437</b>	<b>013440</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>
<b>With dimmer switch</b>	<b>013438</b>	<b>013441</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>
<b>With contactless switch</b>	<b>013439</b>	<b>013442</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

### Hepta LED lamp ➤ Swivel head with handle ➤ Precise 10° lighting

Flexible arm (mm)	650	1140
Luminous intensity (lm)		980
Illumination at 50cm (lx)		60000
Illuminated area at 50cm (mm)		120
Colour temperature	4500°K (neutral white)	
Colour rendering index	IRC 95/100	
Power consumption	7 W	
Head dimensions (mm)	110 x 100	
<b>With standard switch</b>	<b>013409</b>	<b>013412</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>
<b>With dimmer switch</b>	<b>013410</b>	<b>013413</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>
<b>With contactless switch</b>	<b>013411</b>	<b>013414</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

## Stands - telescopic rolling stand



013474

- 5-star base Ø 530 mm
- Castors Ø 5 cm
- Weighted version for lamps with arms over 650 mm
- Free castors or with 2 castors with brakes

Adjustable height (mm)	600 - 1000		900 - 1300	
Type	Standard	Ballasted	Standard	Ballasted
Weight (kg)	3.7	5.5	4	5.8
<b>Cat. No. without brake</b>	<b>013474</b>	<b>013478</b>	<b>013480</b>	<b>013482</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>
<b>Cat. No. with brake</b>	<b>013476</b>	<b>013479</b>	<b>013481</b>	<b>013483</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>	<b>N/A -</b>

## Accessory

Cat. No.	Description	Price
013484	Single vice grip in black lacquered aluminium, maximum opening Ø 75 mm	N/A -
013485	Universal vice in anodised aluminium, maximum opening Ø 40 mm	N/A -
013488	White lacquered aluminium bracket for wall mounting (screws and plugs supplied)	N/A -
013492	Heavy base in white lacquered steel Ø 220 mm 1.5 kg	N/A -

## Optika upright microscopes



Model	With light background				With phase contrast			
	Light background equipment	Head	Cat. No.	Price	Phase contrast equipment	Model	Cat. No.	Price
B-193PL	- Eyepieces 10x/18 mm - Lens: 4x / 10x / 40x / 100x (oil) - 4 position revolver - Mechanical stage x,y - Abbe Condenser O.N. 1.25 - LED	Trinocular	670901B	N/A -	-	-	-	-
B-382Pli	- Eyepieces 10x/20 mm - Lens: 4x / 10x / 40x / 100x (oil) - 5 position revolver - Mechanical stage x,y	Binocular	670960	N/A -	Objectives: 10xPh, 20xPh, 40xPh, 100xPh Phase condenser	B-382phi	670962	N/A -
B-383Pli	- Abbe Condenser O.N. 1.25 centrable - LED	Trinocular	670961	N/A -		B-383phi	670963	N/A -

Other models, please consult us

## Optika B-510BF and B-510PH upright microscopes

- Microscopes for routine laboratory analysis
- Lightweight and ultra compact
- Models with trinocular heads to accommodate a camera or tablet (to be completed with a C-mount adapter)
- Stand with retractable condenser, right X,Y vernier scale
- Lens turret: 5 positions
- Delivered ready to use



Model	Trinocular B-510BF	Trinocular B-510PH
Lighting	LED	
Observation mode	Brightfield	Brightfield and phase contrast
Output signal	Objectives IOS W-PLAN 4 x, 10 x, 40 x, 100 x (oil)	Phase contrast lenses IOS W-PLAN PH 10 x, 20 x, 40 x, 100 x
Model	Trinocular with 2 eyepieces 10 x/22 mm	
Cat. No.	671236	671237
Price	N/A -	N/A -

### Accessory

Cat. No.	Description	Price
671186	C-mount adapter 0,5 x	N/A -

## Optika inverted microscope



Model	Equipment	Head	Cat. No.	Price
IM-3	- LED lighting - Brightfield and phase contrast - Macro and micrometric focusing system - Fixed plate, size 250 x 160 mm - 5-position lens turret - Trinocular head, inclined at 45° - EWF10X/22 wide field eyepieces with field index 22 - Lenses: phase contrast 10xPh, 20xPh, 40xph - protective cover	Trinocular	671160	N/A -

## Immersion oil



Cat. No.	Description	Price
670957	Immersion oil 10 ml	N/A -



## Optika Binocular Teaching Stereomicroscopes

- Simple and robust, easy to handle
- Rotating lens models for quick magnification changes
- 45° inclined head
- Equipped with 2 separate lights, 1 W LED: incident and transmitted
- 2 models: with 360° movable optical body or fixed optical body with carrying handle included
- On rechargeable battery for field use if required
- Cat. No. 671227: model with integrated camera

Cat. No.	Optical body	Magnifications	Working distance	Lighting	Price
671220	360° Mobile	20x 40x	57 mm	Led with switches	N/A -
671221	360° Mobile	10x 30x	57 mm	Led with switches	N/A -
671222	Fixed with carrying handle	20x 40x	57 mm	Led with control buttons	N/A -
671223	Fixed with carrying handle	10x 30x	57 mm	Led with control buttons	N/A -
671224	Fixed with carrying handle	20x 40x	76 mm	Led with control buttons	N/A -
671225	Fixed with carrying handle	10x 30x	76 mm	Led with control buttons	N/A -
671226	Fixed with carrying handle	10x 20x 40x	60 mm	Led with control buttons	N/A -
671227	Fixed with carrying handle and integrated camera	10x 20x 40x	60 mm	Led with control buttons	N/A -



Fixed optical body and carrying handle, model with integrated camera



## Digital microscope with tablet

Microscope equipped with a detachable and adjustable tablet. Particularly suitable for routine light background applications.

<b>Model</b>	<b>B-290TB</b>
Lighting	Led 3.6 W
Lens	WF 10/20 mm
Observation mode	Brightfield
Model	Binocular
Head type	30° inclined and 360° rotating head
Objectives	4 X 10 X 40 X 100 X (oil)
Abbe condenser	ON 1.25
Dim. H x L x D (mm)	430 x 235 x 290
Weight (kg)	7
Tablet	10.1"
Operating system	Windows 10 32 bit
Screen	Tactile LED
Dimensions L x D x H (mm)	25.7 x 10.5 x 17.4
Camera	3 MP
Signal	USB 2
Image dimension	2048 x 1536
<b>Cat. No.</b>	<b>671191</b>
<b>Price</b>	<b>N/A -</b>



## Optika C-B5 5.1MP camera



- 5MP colour camera
- For teaching and routine laboratory applications
- C Mount
- Supplied with software (Windows, Mac OS and Linux compatible) and adapters for single or binocular head microscope eyepieces

Sensor	CMOS 1/2.5"
Camera resolution	5.1 MP
Output signal	USB 2.0
Camera power supply	PC USB
C-mount connection	Yes
PC Features	CPU: equivalent to Intel Core2.2 2.8 GHz or higher RAM: 2GB or higher USB port: 2.0 at least two ports
<b>Cat. No.</b>	<b>671230</b>
<b>Price</b>	<b>N/A -</b>

## Optika PRO C-P3 and C-P6 cameras



- Dynamic quick-reading cameras
- These cameras offer detailed images of excellent quality thanks to its SONY EXMOR CMOS sensor
- C-mount connection

Model	C-P3	C-P6
Camera resolution	3.1 MP	6.3 MP
Output signal	USB 3.0	USB 3.0
Sensor size	1/2.8"	1/1.8"
Sensor technology	CMOS	CMOS
Image format	4/3	4/3
Pixel size	2.5 x 2.5 µm	2.4 x 2.4 µm
Speed resolution	50 fps	30 fps
<b>Cat. No.</b>	<b>671259</b>	<b>671262</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

## Digital microscope camera



- Compatible with MacOS® 10.12 or higher
- Interface: USB 1.1 / 2.0
- Power supply: USB (cable: 1.4 m)

CMOS sensor	1920 x 1080 pixels
Magnification	10 x - 200 x
Shutter	1/30 - 1/15750 sec
Focal	F 2.8
Illumination	8 LEDs IR
Acquisition format	jpeg / bmp
Dimensions (mm)	Ø 33 x 110
Weight (g)	170
<b>Cat. No.</b>	<b>098501B</b>
<b>Price</b>	<b>N/A -</b>

### Support

Cat. No.	Description	Weight (kg)	Price
<b>098502</b>	Flexible stand 300 mm cast iron foot	1.5	<b>N/A -</b>

## PC Tablet with camera for Optika trinocular microscope



- Touch screen 10"
- USB 2.0 connection
- 2 in 1 solution with a touch screen PC tablet and a 3 or 5 MPixel camera for image capture
- System can be installed on trinocular outlet with C-mount aptator

Model	TB-3W	TB-5W
Operating system	Windows 8.1 32-bit	
Network	Wireless bluetooth	
Autonomy	9 hours	
Camera resolution (MP)	3.14	5
Output signal	USB 2.0	USB 2.0
Language tablet	Multilingual	
Tablet software included	OPTIKA VISION LITE: photos or videos acquisition, measurements, objects or comments indication, documentation	
Storage	HDD 32 Go, also accepts SD cards	
Cables included	MicroUSB to USB, OTG cable, USB cable	
Dim. (cm) W x H x thickness	25.85 x 16.75 x 0.88	
Weight (g)	580	
<b>Cat. No.</b>	<b>670976</b>	<b>670977</b>
<b>Price</b>	<b>N/A -</b>	<b>N/A -</b>

## Optika Cold Light Generator

Additional illumination for stereomicroscope observation.  
Must be equipped with a double conductive fiber with adjustable arms or with a ring optical fiber suitable for Optika stereomicroscopes.

- LED lighting equivalent to 100 W halogen lighting
- Adjustable brightness
- Must be equipped with an optical fiber

Cat. No.	Description	Type of lamp	Weight (kg)	Dimensions (mm)	Price
670949	Generator CLD-01	LED	4.1	200 x 120	N/A -

### Conductive fibres

Cat. No.	Description	Price
670950	Double conductive fibre - Length 500 mm	N/A -
670951	Conductive ring fibre - Length 700 mm	N/A -



## SCHOTT Cold Light Generators

### KL300 LED generator (must be completed with a conductive fibre)

- LED lighting, equivalent to 30 W halogen lighting
- Adjustable brightness
- Bracket for stand mounting (KL300 and binocular magnifying glass SMZ 445 NIKON)
- To be completed with conductive fibres: different models possible (see below)

Cat. No.	Generator	Type of lamp	Weight (kg)	Dim. (mm) L x D x H	Price
498716	KL300 LED	LED	0.35	107 x 114 x 61	N/A -

### Accessories for KL300 generator

Cat. No.	Description	Price
498718	Semi-rigid light guide 1 arm Ø 3,5 mm Length 500 mm	N/A -
498719	Semi-rigid light guide 2 arm Ø 3,5 mm Length 500 mm	N/A -
498722*	Focusing lens without filters for light guide up to Ø 5 mm	N/A -
498720*	Focusing lens and filter set up to Ø 5 mm	N/A -
498717	KL 300 LED Clamp for Nikon SMZ 445 stand	N/A -
498732	Clamp for base Ø 100 mm	N/A -
498733	Base Ø 100 mm	N/A -

### KL1500 HAL AND 1600 LED generator

- Halogen lighting 15V 150 W for the KL 1500 HAL model with display
- LED illumination for the KL 1600 LED model, adjustable brightness
- To be placed on the bench
- To be completed with power cord 498751 and light guides: different models possible (see below)

Cat. No.	Generator	Features	Type of lamp	Weight (kg)	Dim. (mm) (L x D x H)	Price
780315	KL1500 HAL with display	Colour temperature display, adjustable brightness, filter holder	Halogen 15 V 150 W	5	22 x 265 x 170	N/A -
498726	KL1600 LED without display	Without display, adjustable brightness with 5 positions, filter holder	LED equivalent to 150 W halogen	2.45	231 x 114 x 137	N/A -

### Accessories for KL 1500 HAL and KL1600 LED

Cat. No.	Description	Price
498727	Semi-rigid light guide 1 arm for KL1500 or KL1600 Ø 4,5 mm Length 600 mm	N/A -
498728	Semi-rigid light guide 2 arm for KL1500 or KL1600 Ø 4,5 mm Length 600 mm	N/A -
498729	Semi-rigid light guide 3 arm for KL1500 or KL1600 Ø 4,5 mm Length 600 mm	N/A -
498722	Focusing lens without filters for light guide up to Ø5 mm	N/A -
498720	Focusing lens and filter set up to Ø 5 mm	N/A -
498730	Daylight filter with filter holder KL 1500 HAL	N/A -
498731	Artificial light filter Ø 28 mm LED for KL1600	N/A -
498751	EU power cord for cold light source	N/A -

For illuminating samples with a flexible light guide. For use as an additional light source for observation with binocular magnifiers.



\* To be ordered according to the number of arms

## Cold light generators



- > 2 models: 150 W halogen generator or 30 W LED generator
- > Various accessories

- > To be completed with an optical fibre
- > Power supply 240 V AC / 12 V DC (50/60 Hz)

Cat. No.	Description	Lighting	Colour temperature	Weight (kg)	Dimensions L x D x H (mm)	Price
134700	Halogen generator	Halogen 150 W	3000 K	2.8	150 x 230 x 150	N/A -
134701	Led generator 30 W	LED 30 W	6500 K	3.9	150 x 230 x 150	N/A -

## Accessories

Cat. No.	Description	Price
134702	Semi-rigid light guide 1 arm 50 cm long, Ø 4 mm	N/A -
134703	Semi-rigid light guide 2 arm 50 cm long, Ø 4 mm	N/A -
134704	Semi-rigid light guide 3 arm 50 cm long, Ø 4 mm	N/A -
134705	Semi-rigid light guide 2 arm 70 cm long, Ø 4 mm	N/A -
134706	Focusing element for light guide (requires 134707)	N/A -
134707	Focusing lens for focusing element (requires 134706)	N/A -

## Optical paper for microscopes



High quality paper for cleaning optical surfaces and lenses made of plastic glass or quartz. Does not contain any chemical agents, silicone or special additives.

- > Very soft, does not scratch
- > Very pure, free of additives
- > Highly absorbent for grease and moisture removal

Cat. No.	Dimensions (mm)	Packaging	Price
036445	100 x 150	25 notebooks of 25 sheets	N/A -
036531	200 x 300	100	N/A -
036532	460 x 570	500	N/A -

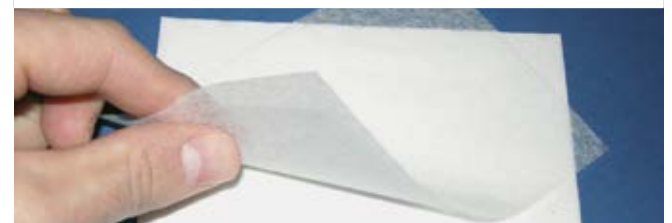
## Lens cleaning tissue



- > In Japanese paper
- > Paper for wiping lenses
- > Lint free
- > Sold in packs of 25 sheets

Cat. No.	Sheet (mm)	Units/box	Price/box
074042	95 x 135	25 x 25	N/A -
074089	100 x 150	625	N/A -
074090	200 x 300	100	N/A -
074091	460 x 570	500	N/A -

## ECO lens cleaning wipes



Cat. No.	Dimensions (mm)	Packaging	Price/box
068885	95 x 135	25 bags of 25 sheets	N/A -
068886	190 x 135	500 sheets	N/A -
068887	190 x 270	500 sheets	N/A -
068888	380 x 540	500 sheets	N/A -

## Charger and rechargeable batteries

### 4-compartment charger

- 4 compartments for types **Ro3, Ro6, R14 and R20**
- 2 compartments for type **6F22**
- **Battery tester function**
- **Power supply: 230 V**
- **Dimensions: 205 x 103 x 55 mm**

Cat. No.	Description	Price
053258B	4-compartment battery charger	N/A -

### Rechargeable batteries

Cat. No.	Description	Dimensions (mm)	Type	Price
053254	NiMH R14 battery	26 x 50 (ø x H)	C	N/A -
053255	NiMH Ro6 battery	14 x 50 (ø x H)	AA	N/A -
053256	NiMH Ro3 battery	10 x 50 (ø x H)	AAA	N/A -
053257	NiMH 6F22 battery	48 x 26 x 17	9 V	N/A -



## Button cell batteries

Cat. No.	Description	Price
095363	Button cell battery 362	N/A -
095325	Button cell battery 364	N/A -
095326	Button cell battery 377	N/A -
095329	Button cell battery 391	N/A -
095330	Button cell battery 392	N/A -
095331	Button cell battery 396	N/A -
095333	Button cell battery 371	N/A -
095334	Button cell battery 395	N/A -
095337	Button cell battery 379	N/A -
095338	Button cell battery 389	N/A -
095346	Button cell battery 394	N/A -
066223	Button cell battery 386	N/A -
095353	Button cell battery 186	N/A -
095354	Button cell battery 189	N/A -
095355	Button cell battery 191	N/A -
095304B	LR44 Button cell battery (2 units)	N/A -
095305	Lithium Button cell battery CR 1220	N/A -
095356	Lithium Button cell battery CR 1616	N/A -
095357	Lithium Button cell battery CR 2016	N/A -
095358	Lithium Button cell battery CR 2025	N/A -
045322	Lithium Button cell battery CR 2032	N/A -
095359	Lithium Button cell battery CR 1025	N/A -
095360	Lithium Button cell battery CR 1216	N/A -
095361	Lithium Button cell battery CR 1620	N/A -
095362	Lithium Button cell battery CR 2430	N/A -

## Batteries sticks

Cat. No.	Description	Price
095366	Saltwater battery R20/D, 1.5 volts, ø 33 x 61 mm	N/A -
095367	Saltwater battery R14/C, 1.5 volts, ø 26 x 50 mm	N/A -
045319	Saltwater battery R6/AA, 1.5 volts, ø 14 x 50 mm	N/A -
095370	Saltwater battery R3/AAA, 1.5 volts, ø 10 x 45 mm	N/A -
001384B	Alkaline battery LR20, 1.5 volts, ø 33 x 61 mm	N/A -
095704	Alkaline battery LR6, 1.5 volts, ø 14 x 50 mm	N/A -
095324	Alkaline battery LR01, ø 11 x 29 mm	N/A -

## Lithium photo batteries

- **CR123A = 3V, Ø: 17 x 34 mm**
- **CR.P2 = 6V, Ø: 36 x 35 x 19 mm**
- **CR2 = 3V, Ø: 15 x 27 mm**
- **2CR5 = 6V, Ø: 45 x 34 x 17 mm**

Cat. No.	Description	Price
053277	CR123A lithium photo battery	N/A -
053278	CR2 lithium photo battery	N/A -
053279	CR.P2 lithium photo battery	N/A -
053280	2CR5 lithium photo battery	N/A -

## Energizer Batteries

Cat. No.	Description	Price
095704	Energizer Industrial 1.5V LR6/AA Alkaline Battery (10 units)	N/A -
095705	Energizer Industrial 1.5V LR03/AAA Alkaline Battery (10 units)	N/A -
095706	Energizer Industrial 1.5V LR14/C Alkaline Battery (12 units)	N/A -
095707	Energizer Industrial 1.5V LR20/D Alkaline battery (12 units)	N/A -
095708	Energizer Industrial 9V 6LR61/9V Alkaline Battery (12 units)	N/A -
095709	Energizer Ultimate 1.5V FR6/AA/L91 Lithium Battery (10 units)	N/A -
095710	Energizer Ultimate 1.5V FR3/AAA/L92 Lithium Battery (10 units)	N/A -
095711	Energizer Ultimate 9V FR9 Lithium Battery (10 units)	N/A -
095712	Energizer Lithium Photo Battery123 FSB1, 3 V CR123	N/A -

## Power adapter

- **Intensity: 500mA**
- **Socket: VDF**
- **6 output voltages: 3 - 4.5 - 6 - 7.5 - 9 - 12 V.DC**
- **6 adaptable star plugs**
- **Power supply: 230 V AC/50 Hz**

Cat. No.	Description	Price
053281	Power adapter	N/A -

## Daily / weekly programmer



- > Programmable over 7 days
- > Adjustable  $\pm 1$  minute
- > Presence simulator
- > Power supply: 230 V
- > Dim.: 125 x 60 x 75 mm
- > Weight: 170 g

Cat. No.	Description	Price
053273	Daily / weekly programmer	N/A -

## Pocket battery tester



- > Needle display (vumeter)
- > Batteries: AAA (LR03), AA (LR06), C (LR14), D (LR20), 9V and buttons
- > Dimensions: 75 x 125 x 110 mm
- > Weight: 50 g

Cat. No.	Description	Price
053276	Pocket battery tester	N/A -

## Extension lead with switch



- > ON / OFF Button
- > Child protection

Cat. No.	Number of sockets	Cable length (m)	Max power (W)	Indicator of charge	Fuse	Price
098476	4	1.5	3680	LED	Yes	N/A -
098477	6	1.5	3680	LED	Yes	N/A -
098478	2	-	3680	-	-	N/A -
098479	3	1.5	3500	-	-	N/A -
098480	4	1.5	3500	-	-	N/A -
098481	5	1.5	3500	-	-	N/A -

## Watertight extension cable



- > 4 sockets with lid
- > Waterproof, IP54 standard, flexible neoprene
- > Folding metal hook
- > Max power 3500 W
- > Cable 5 m

Cat. No.	Description	Price
098482	4-socket watertight extension cable	N/A -

## Digital Clamp Meter VAC - VDC / IAC

AC current	Range	20 A / 200 A / 600 A	Frequency 50 Hz ~ 60 Hz Max. input current: 120% of the value Time scale: < 60 sec
	Accuracy	20 mA / 0.1 A / 1 A	
	Resolution	$\pm (2.0\% + 5)$ / $\pm (2.0\% + 5)$ / $\pm (2.5\% + 10)$	
AC voltage	Range	200 V / 750 V	Input impedance: 1 M $\Omega$ Frequency: 40 Hz - 400 Hz Max. input voltage: 750 VAC
	Accuracy	0.1 V / 1 V	
	Resolution	$\pm (1.0\% + 3)$ / $\pm (2.0\% + 5)$	
DC voltage	Range	200 V / 1000 V	Input impedance: 10 M $\Omega$ Frequency: 40 Hz - 400 Hz Max. input voltage: 1000 VDC
	Accuracy	0.1 V / 1 V	
	Resolution	$\pm (0.5\% + 1)$ / $\pm (1.0\% + 2)$	
Temperature	Range	0 - 750 °C	Maximum protection: 250 VDC / VAC
	Accuracy	1 °C	
	Resolution	$\pm (1\% + 3)$	
Resistance	Range	20 k $\Omega$	
	Accuracy	0.1 $\Omega$	
	Resolution	$\pm (1\% + 4)$	
Working conditions	5 °C to 35 °C / < 85 %RH		
Storage conditions	-10 °C to 50 °C / < 85 %RH		
Battery	9V (NEDA1604, 6F22 or equivalent)		
Dimensions (mm)	240 x 86 x 40		
Weight (g)	280		
<b>Cat. No.</b>	<b>098500</b>		
<b>Price</b>	<b>N/A -</b>		

- **Insulation: class 2, double insulation**
- **Overvoltage category: CATII 1000VDC - 750 VAC**
- **Display: 1999 counts (3 1/2)**
- **Dual analog / digital integration: 2.5 x/sec**
- **Diode test, continuity**
- **Automatic polarity: negative polarity indication (-)**
- **Hold function: fixed value**
- **Instruction manual supplied**



## OTAL hand pump



### > Models 1

- > For containers with 30 to 70 mm Ø openings
- > PP delivery tubes
- > Resistant to acids and bases
- > Resistant to detergents

### > Model 2

- > For containers with 30 to 70 mm Ø openings
- > PVDF delivery tubes
- > Resistant to weakly oxidizing acids and bases
- > Bleach resistant
- > Better chemical resistance than PP

### > Model 3

- > For containers with 30 to 70 mm Ø openings
- > Stainless steel delivery tube
- > For hardly inflammable liquids
- > 2 types of caps: PVC and LDPE

### > Model 4

- > For containers with 30 to 70 mm Ø openings
- > With hose and tap
- > PP/PE tap
- > PVC discharge hose
- > Suitable for filling distant containers

### > Model 5

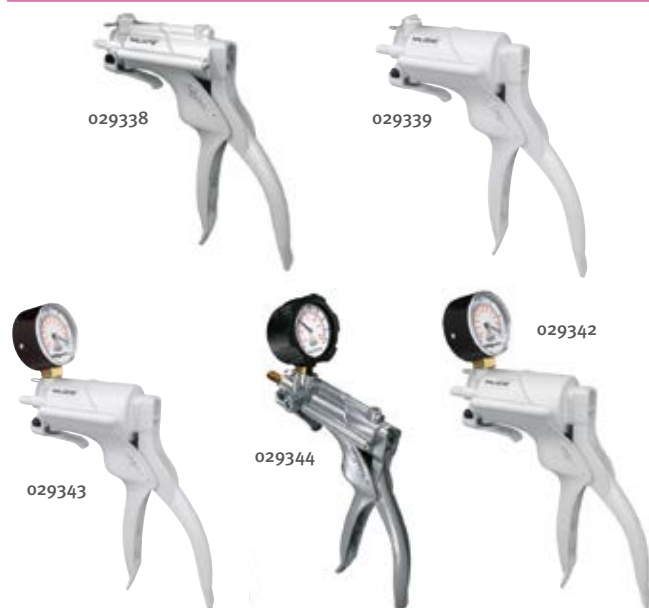
- > With universal cap for Ø 20 - 36 mm necks
- > PP delivery tubes
- > Ideal for containers up to 10 litres

### > Model 6

- > With tube locking valve
- > With tip for precise transfer

Model	OTAL PP hand pump			OTAL PVDF hand pump	OTAL stainless steel hand pump	OTAL hand pump with hose and tap	OTAL PP mini pump
	Model 1	Model 1	Model 1	Model 2	Model 3	Model 4	Model 5
Flow rate (l/min)	14	20	26	20	26	12	4
Ø of tube (mm)	12	15	18	16	18	10	10
Material conveying tube	PP	PP	PP	PVDF	V2A	PP/PVC	PP
Immersion depth (cm)	70	70	70	70	90	70	45
Cat. No.	670802	670801	670800	670803	670804	670805	670806
Price	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -	N/A -

## Manual vacuum pump



Manual pump to create vacuum by suction.

Supplied complete with:

- vacuum gauge calibrated in inches and cm Hg;
- 1 PVC pipe 60 cm, internal diameter 6.3 mm (1/4").

### > Light

- > Easy to use
- > Performing
- > In PVC or aluminium
- > With or without vacuum gauge
- > Removable pump allows for parts replacement with the service kit
- > Transfer of liquid samples
- > Filtration under vacuum or pressure
- > Vacuum desiccator
- > Maximum obtainable vacuum: 0.84 bar (635 mm Hg)

Capacity	15 cm <sup>3</sup> /impulsion	36 cm <sup>3</sup> /impulsion
PVC pump without gauge		
Cat. No.	029338	029339
Price	N/A -	N/A -
Removable PVC pump with gauge		
Cat. No.	029342	029343
Price	N/A -	N/A -
Removable aluminium pump with gauge		
Cat. No.	029344	-
Price	N/A -	-



## Polypropylene water vacuum pump

Complete water pump, made from high resistance polypropylene, for creating vacuums and suction of liquids.

The pump is delivered complete with:

- a nut connector for R3/4" tap, an R1/2" reducer connector and a connector for vacuum hose barb fitting pipe  $\varnothing$  external 10 - 12 mm;
- an unscrewable connector for vacuum hose barb fitting connector with external diameter 6 - 9 mm and a GL 14 screw cap

- **Consumption: 190 l/h at 3.5 bar pressure**
- **Final pressure: 16 mbar at 12 °C**
- **Suction capacity: 400 l/h at 12 °C and 3.5 bar**
- **Length: 210 mm**
- **Can be used down to 80 °C**
- **Backflow valve**



### Accessories

Cat. No.	Description	Price
090295	Reduction connector R3/8"	N/A -
090296	Reduction connector M 22 x 1 (perlator thread)	N/A -

Cat. No.	Description	Price
090294	Vacuum pump complete	N/A -

## QuickFlow 4l Aspirator

- **Switching to continuous mode on the QuickFlow handle eliminates the need to repeatedly press and hold the aspiration button.**

### ➤ Ergonomic handle

Max. liquid volume (l)	4
Max. suction speed (ml/s)	17 (with suction pipette)
Vacuum range (kPa)	-20 to -70
Dimensions W x D x H (mm)	200 x 400 x 460
Weight (kg)	4.016
Tube int. x ext. $\varnothing$ (mm)	4 x 8
Permissible temperature (°C)	0 to 40
Max. permissible humidity	85 %

Composition	<ul style="list-style-type: none"> <li>- Pumping base</li> <li>- Recovery bottle</li> <li>- Quick-snap connectors</li> <li>- Tube and filter set</li> <li>- Suction handle</li> <li>- Adapter for Pasteur pipettes</li> <li>- Adapter for universal pipettes</li> <li>- 8 channel adapter for micropipette tips</li> </ul>
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Cat. No.	712904
Price	N/A -

- **Sealed quick-snap connectors prevent contamination**
- **Overflow level sensor**
- **Variable suction speed**



### Accessories

Cat. No.	Description	Price
712907	Support for handle	N/A -
712908	2 $\mu$ m replacement filter	N/A -
712906	Replacement bottle with quick-snap connectors	N/A -
712905	Replacement handle with adapters	N/A -

## Aspirator with Trap Flask

- **Compact, efficient, easy to use**
- **Integrated pump, vacuum 500 mbar**

- **1 litre Flask**
- **Protection against contamination thanks to hydrophobic filter**

Cat. No.	Description	Price
144746	Liquid aspiration system with 1 l flask	N/A -

### Options

Cat. No.	Description	Price
144747	Kit with adapter + 8 channel holder	N/A -
144748	8 channel adapter only	N/A -
144749	Replacement filter	N/A -



## Vacuum Safety Suction System AZ complete



Small, efficient, quiet, and economical... All-in-one is ideal for quick aspiration of small amounts of liquid.

► Also suitable for aspiration of supernatant cells

► Supplied complete with:

- 1 membrane vacuum pump (8 l air / min, 700 mbar)
- 1 polypropylene bottle (2 or 4 l) with FastLock clutches on the cap
- 1 membrane filter, 1 ventilation insert and 3 m of silicone hose (int. ø 6mm) + FastLock hose clip (bottle holder/stand sold separately)

Model	2 litre Flask	4 litre Flask
Pump suction	8 l. air / min 700 mbar when empty	
Dimensions W x D x H (mm)	75 x 60 x 170	
Weight (kg)	0.8	
Power (W)	5	
Power supply	230 V / 50 Hz	
Cat. No.	841078	841079
Price	N/A -	N/A -

### Bottles



2 litres:  
841083 + 841085

4 litres:  
841084 + 841086

Cat. No.	Description	Price
841083	Additional 2 l flask with FastLock cap	N/A -
841084	Additional 4 l flask with FastLock cap	N/A -
841086	Holder/stand for 4 l bottle.	N/A -
841090	Replacement cap with FastLock tip for 2 l flask.	N/A -
841091	Replacement cap with FastLock tip for 4 l flask.	N/A -

### Pumps and pedals

Cat. No.	Description	Price
841100	Membrane vacuum pump, single, 8 l/min 700 mbar	N/A -
841101	Membrane vacuum pump, single, 25 l/min 250 mbar	N/A -
841102	Membrane vacuum pump, single, 17 l/min 100 mbar	N/A -
841103	Foot switch ON/OFF for pumps and systems	N/A -

### »» Do you have a pump already?

Suction systems WITHOUT pumps contain all the elements listed below:

- 1 polypropylene bottle (2 or 4 l.) with FastLock caps
- 1 membrane filter, 1 ventilation insert and 3 m silicone tubing (int. ø. 6 mm) + tubing clip on FastLock

and, in addition:

- 1 bottle holder/stand (2 or 4 l.) included
- 1 suction handle with Flow Control knob and integrated standard adapter for pasteur pipettes

Other suction adapters sold separately.

### Suction system without pump

Cat. No.	Description	Price
841081	AKo2 aspiration system without pump, 2 l bottle.	N/A -
841082	AKo4 aspiration system without pump, 4 l bottle.	N/A -

### Accessories & adapters

Cat. No.	Description	Price
841092	Tube Set: 3 m silicone tubing (inner ø 6 mm) + filter	N/A -
841088	Y-manifold for more than one hose	N/A -
841089	Pack of 3 spare safety filters	N/A -
841087	Additional hose clip for FastLock tips	N/A -
841093	Suction handle with Flow Control knob *	N/A -
841094	Single-channel stainless steel suction adapter 60 mm	N/A -
841095	Single-channel stainless steel suction adapter 150 mm	N/A -
841096	Single-channel stainless steel suction adapter 200 mm	N/A -
841097	Suction adapter for yellow pipette tips	N/A -
841098	8-channel autoclavable suction adapter for microplates	N/A -

\* The suction handle is supplied with an adapter for standard pasteur pipettes.

## MiniVac Aspiration System



► Simple filtration system

► Operates on a vacuum tube or aspiration system

► Not autoclavable

Supplied complete with:

- A sterile polystyrene flask (sterilisation with gamma rays), 1 l capacity, dimensions (L x W): 20 cm x 11 cm
- a GL 45 cap with 2 connections for tubing of 5 mm internal diameter
- A PETG holder, dimensions (L x H): 20 cm x 8 cm
- 70 cm of silicone tubing, int. diameter 5 mm, ext. diameter 9.5 mm

Cat. No.	Description	Price
141272	MiniVac Aspiration System	N/A -

### Accessories

Cat. No.	Description	Price
141273	45 mm cap with PP minivac connection	N/A -
141274	PETG minivac bottle holder	N/A -
141275	minivac 1 l bottle	N/A -
141276	Plastic tubing 700 mm	N/A -

## Biodolphin Liquid Aspiration Kit

- Ergonomic handle
- Suction in continuous mode without holding the button
- Fully autoclavable except for the rack
- One-handed tip ejection
- Numerous quick-change accessories
- Available in different colours

### The kit includes:

- a handle;
- a single-channel tip adapter;
- an 8-channel tip adapter;
- an 8-channel stainless steel tip adapter 40 mm;
- a single-channel stainless steel tip adapter 40 mm;
- a single-channel stainless steel tip adapter 80 mm;
- a rack.



### Biodolphin aspiration kit

Colours	Light blue	Dark blue	Pink	Green
Cat. No.	886032	886033	886034	886035
Price	N/A -	N/A -	N/A -	N/A -

### Double suction / filtration system with pump

Cat. No.	Description	Price
886012	Double suction / filtration system with pump	N/A -

## LabK1 and LabS1 peristaltic pumps

- Quiet pump with low power consumption
- For constant flow liquid transfer
- Easy change of tubing
- Rotary knob for speed adjustment (0.1 rpm increments)
- On / off function, change of rotation direction
- Settings kept in memory in case of power failure
- RS485 communication port for control according to MODBUS protocol: start/stop, direction of rotation (switching signal), speed (0-5V, 0-10V, 4-20mA)
- ABS case
- Autoclavable tubing and connectors

Model	SUPER TRIM		REX MINI
Pump head	Micropump		UD15 Minipump
Flow rate (ml / min)	0.004 - 149.23		0.008- 930 0.0024- 190
Adjustable speed range (rpm)	0.1 - 350		0.1 - 300
Speed increment (rpm)			0.1
Ambient temperature accepted (°C)			0 - 40
Accepted relative humidity			< 80%
Power supply			220 V, 50/60 Hz
Protection index			IP31
Dimensions W x D x H (mm)			115 x 180 x 125
Weight (g)			800
Cat. No.	129510	129512	129511
Price	N/A -	N/A -	N/A -



129510



129512

### Accessories

Tubing	inn. Ø (mm)	Thickness (mm)	ext. Ø (mm)	Flow rate (ml / min)		
				labK3 / Micropump	LabS3 / UD15	LabS3 / Minipump
1x1	1	1	2	0.004 -14.88	-	0.005 -15
2x1	2	1	3	0.014 -50.05	-	0.018 -54
2.5x1	2.5	1	3.5	0.025 -76.8	-	0.025 -76.8
3x1	3	1	4	0.03 -149.23	-	0.035 -108
#13	0.8	1.6	4	-	-	0.0024 -8.28
#14	1.6	1.6	4.8	-	-	0.0112 -33.88
#16	3.1	1.6	5.6	-	0.08 -280	0.04 -114
#25	4.8	1.6	8	-	0.16 -580	0.06 -190
#17	6.4	1.6	9.6	-	0.26 -930	-



## Gilson Minipuls 3 peristaltic pump



- For the smooth transfer of liquids
- The liquid is pushed into the tubing by ten drive rollers which produce a pulsation-free liquid advance
- Adjustable speed
- The Minipuls is delivered without a distributor head
- Robust construction
- Easy to clean
- Easily interchangeable tubing: simply open the cams and each tubing can be changed independently
- Choice of 6 heads:
  - 1, 2, 4 or 8 channels in standard speed;
  - 2 or 4 channels in high speed
- Wide range of tubing:
  - Standard version: 0.3 ml/min to 30 ml/min (max pressure 0.5 MPa);
  - high flow version: 1 ml/min to 220 ml/min (max pressure 0.3 MPa)

Cat. No.	Description	Price
066141	Minipuls MP3	N/A -
066142	Head R1 Minipuls MP3	N/A -
066143	Head R4 Minipuls MP3	N/A -
066144	Head R8 Minipuls MP3	N/A -
066145	Head R2 Minipuls MP3	N/A -
066146	Head R2HF Minipuls MP3 High Flow	N/A -
066147	Head R4HF Minipuls MP3 High Flow	N/A -

## LabM1 peristaltic pumps

- Quick start button
- Automatic control via communication interface
- LED display showing the speed of rotation
- ABS case
- Available in 1, 2 or 4 channel versions



	1	2	4
Number of channels	1	2	4
Flow rate (ml / min)	0.0035-570		
Adjustable speed range (rpm)*	0.1 - 150		
Speed increment (rpm)	0.1		
Communication interface	RS232/RS485, MODBUS protocol (RTU mode)		
Ambient temperature accepted (°C)	0 - 40		
Accepted relative humidity	< 80 %		
Power consumption (Watts)	< 50		
Power supply	200-240V, 50/60 Hz		
Dimensions without head (cm) (L x D x H)	15.73 x 26.14 x 23.07		
Weight (kg)	4.4		
Cat. No.	129300	129301	129302
Price	N/A -	N/A -	N/A -

\* For best accuracy, it is recommended to use a range of 0.5 to 150 rpm

### Silicone tubing

- Platinum-treated silicone tubing
- Can be used from -51 to 238 °C
- Low protein Retention

Cat. No.	Model	Inn. Ø (mm)	Thickness (mm)	out. Ø (mm)	Flow rate (ml/min)*	Long. (m)	Price
129303	# 13	0.8	1.6	4	0.035 - 10.5	15	N/A -
129304	# 14	1.6	1.6	4.8	0.135 - 40.5	15	N/A -
129305	# 19	2.4	1.6	5.6	0.275 - 82.5	15	N/A -
129306	# 16	3.1	1.6	6.3	0.41 - 123	15	N/A -
129307	# 25	4.8	1.6	8	0.85 - 255	15	N/A -
129308	# 17	6.4	1.6	9.6	1.45 - 435	15	N/A -
129309	# 18	7.9	1.6	11.1	1.9 - 570	15	N/A -

\* For a speed between 0.5 and 150 rpm.

## LabN1 peristaltic pumps

- ABS case, 3.2" colour display
- Quiet pump with low power consumption
- For constant flow liquid transfer
- Possibility to preset an operating time for dispensing the liquid
- Rotary knob for speed adjustment (0.1 rpm increments)
- Calibration function for greater accuracy
- On / off function, change of rotation direction
- Settings kept in memory in case of power failure
- RS232 and RS485 communication port for control according to MODBUS protocol: start/stop, direction of rotation (switching signal), speed (0-5 V, 0-10 V, 4-20 mA)
- Fast running function for rinsing and filling the hose
- Storage of parameters in case of power failure
- Control of start and stop functions by foot pedal or computer via the communication port (RS232 and RS485)
- Available with self-locking pump head type YZ1515x for flow rates from 0.007 to 570 ml / min, 1, 2 or 4 channels depending on the model chosen
- Available with Low Flow Rate Pump head MC1 (10 rollers), from 1 to 12 channels depending on model chosen



Model	LabN1 head YZ1515x	LabN1 head MC 10 rollers
Flow rate (ml / min)	0.007 - 570	0.000166 - 48.6
Adjustable speed range (rpm)	0.1 - 150	
Programmable dispensing time	0.1 s to 9999 h	
Speed increment (rpm)	0.1	
Dispensing accuracy	± 0.5 %	
Accepted ambient temperature (°C)	0 - 40	
Accepted relative humidity	≤ 80 %	
Power consumption (watts)	≤ 50	
Protection index	IP31	
Power supply	220 V, 50/60 Hz	
Dimensions W x D x H (mm)	157.3 x 261.4 x 236.9	
Weight (kg)	4.4	

### LabN1 pump with pump head type YZ1515x

	1 single-channel head	2 single-channel heads	4 single-channel heads
Cat. No.	129394	129395	129396
Price	N/A -	N/A -	N/A -

### LabN1 pump with 10-roller MC pumphead

	1-channel MC1 head	2-channel MC head	4-channel MC head	8-channel MC head	12-channel MC head
Cat. No.	129397	129398	129399	129400	129401
Price	N/A -	N/A -	N/A -	N/A -	N/A -

### Hoses for LabN1 pump with pump head type YZ1515x

Cat. No.	Silicone tubing	Inn. Ø (mm)	Thickness (mm)	out. Ø (mm)	Flow rate (ml/min)	Length (m)	Price
129303	#13	0.8	1.6	4	0.007 - 10.5	15	N/A -
129304	#14	1.6	1.6	4.8	0.027 - 40.5	15	N/A -
129305	#19	2.4	1.6	5.6	0.055 - 82.5	15	N/A -
129306	#16	3.1	1.6	6.3	0.082 - 123	15	N/A -
129307	#25	4.8	1.6	8	0.17 - 255	15	N/A -
129308	#17	6.4	1.6	9.6	0.29 - 435	15	N/A -
129309	#18	7.9	1.6	11.1	0.38 - 570	15	N/A -

### Tubing for LabN1 pump with 10-roller MC pumphead

Cat. No.	Silicone hose	Inn. Ø (mm)	Thickness (mm)	out. Ø (mm)	Flow rate (ml/min)	Length (m)	Units/box	Price
129343	Tubing Tygon R-3603, 0.13x0.9	0.13	0.9	1.93	0.00016 - 0.24	0.4	12	N/A -
129393	Silicone tubing 1x1	1	1	3	0.0046 - 6.9	1	12	N/A -
129345	Silicone tubing 2x1	2	1	4	0.0156 - 23.4	1	12	N/A -
129347	Silicone tubing 2.4x0.8	2.4	0.8	4	0.0212 - 31.8	1	12	N/A -
129342	Silicone tubing 3x1	3	1	5	0.0324 - 48.6	1	12	N/A -

## Lab 2015 peristaltic pump



- ABS case
- Colour display with animation
- Scratch resistant touch screen
- Calibration function for greater accuracy
- Possibility of adjusting the volume to be dispensed as well as the dispensing time
- Programmable pump start and stop time
- Stores settings in case of power failure
- Fan speed controlled by pump temperature
- Flow rate from 0.007 to 380 ml/min depending on hose

Flow rate (ml/min)	0.007-380
Adjustable speed range (rpm)	0.1 - 100
Speed increment (rpm)	0.01
Ambient temperature accepted (°C)	0 - 40
Accepted relative humidity	< 80 %
Power consumption (watts)	< 50
Power supply	200-240 V, 50/60 Hz
Sealing standard	IP31
Dimensions W x D x H (mm)	15.73 x 26.14 x 23.69
Weight (kg)	4.4
<b>Cat. No.</b>	<b>129311</b>
<b>Price</b>	<b>N/A -</b>

### Silicone tubing

Cat. No.	Model	Inn. Ø (mm)	Thickness (mm)	out. Ø (mm)	Flow rate (ml/min)*	Long. (m)	Price
129303	# 13	0.8	1.6	4	0.007 - 7	15	N/A -
129304	# 14	1.6	1.6	4.8	0.027 - 27	15	N/A -
129305	# 19	2.4	1.6	5.6	0.055 - 55	15	N/A -
129306	# 16	3.1	1.6	6.3	0.082 - 82	15	N/A -
129307	# 25	4.8	1.6	8	0.17 - 170	15	N/A -
129308	# 17	6.4	1.6	9.6	0.29 - 290	15	N/A -
129309	# 18	7.9	1.6	11.1	0.38 - 380	15	N/A -

\* For a speed between 0.5 and 150 rpm.

## LabF and LaBV Peristaltic Pumps



129325

129330

Model	Lab F1/V1	Lab F3/V3	Lab F6/V6
Flow rate (ml / min)	0.07 - 570	0.07 - 1330	0.07 - 2280
Adjustable speed range (rpm)	1 - 150	1 - 350	1 - 600
Speed increment (rpm)	0.01		
Dispensing volume range (ml)	0.1 - 9999.99		
Dispensing volume increment (ml)	0.01		
Dispensing time (sec)	0.5 - 9999.99		
Pause time (sec)	0.5 - 9999.99		
Time increment (sec)	0.01		
Number of repetitions of the dispensing cycle	1 - 9999, or infinity		
Dispensing accuracy	< ±0.5%		
Ambient temperature accepted (°C)	0 - 40		
Accepted relative humidity	< 80%		
Power consumption (W)	< 50		
Power supply	220 V, 50/60 Hz		
Dimensions W x D x H (mm)	15.73 x 26.41 x 23.69		
Weight (kg)	4.4		

No. of single-channel heads	1		2		4		
	Pump	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
LabF1	129327	N/A -	129328	N/A -	129329	N/A -	
LabF3	129330	N/A -	129331	N/A -	-	-	
LabF6	129333	N/A -	129334	N/A -	129335	N/A -	
LabV1	129319	N/A -	129320	N/A -	129318	N/A -	
LabV3	129321	N/A -	129322	N/A -	-	-	
LabV6	129324	N/A -	129325	N/A -	129326	N/A -	

- Common features of the LabF and LabV series
- Each series is available in 3 different versions depending on the range of flow rates
- LCD colour touch screen 4.3"
- Dispensing volume, dispensing time, pause time and setting parameters are displayed on the same screen
- Adjustable dispensing parameters: volume, duration, pause time and number of repetitions
- Calibration function for greater accuracy
- Fast running function for rinsing and filling the hose
- RS232 and RS485 communication port f or MODBUS protocol control
- Storage of parameters in case of power failure
- ABS case
- Available in 1, 2 or 4 single-channel heads
- Control pedal included for each pump
- LabF Series
- 60 storable dispensing programs
- Control of start and stop functions by foot pedal or computer via the communication port
- LabV Series
- Control of start, stop and direction of rotation by foot pedal
- Numerous functions controllable via programming to meet industrial requirements
- Programmable pump start and stop time
- Fixed dispensing volume function with the possibility of changing the flow rate during dispensing

Also available with multi-channel heads, consult us



### Silicone tubing

Tubing	Inn./out. Ø (mm)	Thickness (mm)	Flow rate (ml/min)			Cat. No.	Price
			F1 / V1	F3 / V3	F6 / V6		
#13	0.8 / 4	1.6	0.07 - 10.5	0.07 - 24.5	0.07 - 42	129303	N/A -
#14	1.6 / 4.8	1.6	0.27 - 40.5	0.27 - 94.5	0.27 - 162	129304	N/A -
#19	2.4 / 5.6	1.6	0.55 - 82.5	0.55 - 192.5	0.55 - 330	129305	N/A -
#16	3.1 / 6.3	1.6	0.82 - 123	0.82 - 287	0.82 - 492	129306	N/A -
#25	4.8 / 8	1.6	1.7 - 255	1.7 - 595	1.7 - 1020	129307	N/A -
#17	6.4 / 9.6	1.6	2.9 - 435	2.9 - 1015	2.9 - 1740	129308	N/A -
#18	7.9 / 11.1	1.6	3.8 - 570	3.8 - 1330	3.8 - 2280	129309	N/A -

## Digital peristaltic pump

- Compact
- Microprocessor control
- Speed and direction adjustment

Model	MU-Do1	MU-Do2
Power	50 W	100 W
Speed/ Increment	20 - 300 rpm / 1 rpm	5 - 600 rpm / 1 rpm
Flow rate	1.2 to 1140 ml/min	0.3 to 2280 ml/min
Working temperature	Amb. to + 40 °C	
Dimensions (L x W x H)	200 x 340 x 130 mm	
Material	Iron	
Weight (kg)	5.7	
Voltage (V)	220	
Cat. No.	022105	022106
Price	N/A -	N/A -



### Silicone hoses - Length 7.5 m

Cat. No.	Inner diameter (mm)	Flow rate (ml/min) at 6 to 600 rpm	Price
022107	0.8	0.36 to 36	N/A -
022108	1.6	1.3 to 130	N/A -
022109	3.1	4.8 to 480	N/A -
022110	4.8	10 to 100	N/A -
022111	6.4	17 to 1700	N/A -
022112	7.9	23 to 2300	N/A -

## Unispense Pro peristaltic pump

- Peristaltic pump for liquid dispensing at 30, 60, 120, 270, 540 and 1080 ml/min.
- Possibility of adding a pedal control
- 5" LCD screen with multilingual display
- 2 preset speeds 75 and 150 rpm (flow rate will depend on hose diameter)
- Fully autoclavable tubing
- Up to 2 stackable heads

Cat. No.	Description	Price
050703	Unispense Pro peristaltic pump	N/A -
050398	Pump head "stackable"	N/A -
050501	Foot pedal	N/A -
050705	2 mm tubing with ends 1.5 m	N/A -
374311	3 mm tubing with ends 1.5 m	N/A -
048819	6 mm tubing with ends 1.5 m	N/A -
048815	8 mm tubing with ends 1.5 m	N/A -
050706	2 mm tube for Unispense/Omnispense 7.62 m	N/A -
050707	3 mm tube for Unispense/Omnispense 7.62 m	N/A -
050708	6 mm tube for Unispense/Omnispense 7.62 m	N/A -
050709	8 mm tube for Unispense/Omnispense 7.62 m	N/A -



Tubes	Flow rate at 75 rpm	Flow rate at 150 rpm
2 mm	30 ml/min	60 ml/min
3 mm	60 ml/min	120 ml/min
6 mm	270 ml/min	540 ml/min
8 mm	540 ml/min	1080 ml/min
Accuracy	+/- 1 %	

## Unispense Elite peristaltic pump



- ▶ Peristaltic pump for liquid dispensing from 20.4 to 1746 ml/min.
- ▶ Possibility of adding a pedal control
- ▶ 5" LCD screen with multilingual display
- ▶ Adjustable speed from 0.5 to 400 rpm (flow rate will depend on hose diameter)
- ▶ Fully autoclavable tubing
- ▶ Up to 2 stackable heads

Tubes	Flow rate (speed 0.5 to 400 rpm)
2 mm	20.4 to 174 ml/min
3 mm	40.2 to 354 ml/min
6 mm	131 to 1176 ml/min
8 mm	200 to 1746 ml/min
Accuracy	+/- 1 %

Cat. No.	Description	Price
050704	Omnispense Elite peristaltic pump	N/A -
050398	Pump head "stackable"	N/A -
050501	Foot pedal	N/A -
050705	2 mm tubing with ends 1.5 m	N/A -
374311	3 mm tubing with ends 1.5 m	N/A -
048819	6 mm tubing with ends 1.5 m	N/A -
048815	8 mm tubing with ends 1.5 m	N/A -
050706	2 mm tube for Unispense/Omnispense 7.62 m	N/A -
050707	3 mm tube for Unispense/Omnispense 7.62 m	N/A -
050708	6 mm tube for Unispense/Omnispense 7.62 m	N/A -
050709	8 mm tube for Unispense/Omnispense 7.62 m	N/A -

## Antlia Digital Peristaltic Pump



- ▶ High precision and robustness
- ▶ Memory of last settings in case of power failure
- ▶ Accepts tubing with an internal diameter of less than 2.54 mm
- ▶ 12 rollers for unparalleled flow stability

Model	Antlia-3C
Number of channels	3
Speed (rpm)	0.5 to 50
Increment (rpm)	0.1
Stability (rpm)	0.01
Minimum flow rate (mL/min)	0.004
Head diameter (mm)	70
Roll (No. / material)	12 / stainless steel
Dimensions (W x L x H) (mm)	170 x 170 x 250
Weight (kg)	5.5
Power supply	90-264V, 47-440 Hz
Cat. No.	178961
Price	N/A -



## Accuro Pump for gas detection tubes

- One-handed operation
- Each press draws in a calibrated dose of 100 ml of sample
- End-of-cycle indicator
- Automatic pulse counter
- Suitable for use with Dräger colorimetric tubes

Cat. No.	Description	Price
672500	Complete Accuro pump kit: - pump; - tube cutter; - nylon carrying case; - spare parts bag.	N/A -
672501	Pump only + tube cutter	N/A -

### Accessories

Cat. No.	Description	Price
672502	Empty hard carrying case	N/A -
672503	Pocket book "Reagent Tubes & CMS"	N/A -
672505	1 m extension hose with simultaneous test adapter	N/A -
672506	Extension hose 3 m	N/A -
672510	Reagent tube heater *	N/A -

\* For the use of Dräger tubes under the prescribed temperature limit.



## Portable sealing machine

- For hermetic sealing of plastics, PE, PP and cellophane, aluminium coated paper and Kraft paper up to 0.6 mm thickness
- Pliers-shaped and very easy to use
- Pressure sealing
- Temperature selection switch for 120 °C or 180 °C
- Maximum sealing length: 150 mm
- Consumption: 50 W
- Weight: 0.6 kg

Cat. No.	Description	Price
068641	Portable Sealer 150-C	N/A -



## Sealer 305-C

- For sealing plastic and other thermoplastic materials up to 0.4 mm thick
- Very easy to use: press and seal
- Manual cutting
- Supplied with 2 resistors, 2 PTFE fabric resistance covers and one blade
- Maximum sealing length: 300 mm
- Sealing temperature: 140 °C
- Sealing width: 5 mm
- Instant sealing between 0.2 and 1.3 seconds
- H x L x D: 190 x 480 x 82 mm
- Consumption: 1 100 W
- Weight: 5.2 kg

Cat. No.	Description	Price
068642	Sealer 305-C	N/A -



## Sealing machine for sterilisation bags



- Pressure welding
- Sealing width: 12 mm
- Max. weld length: 300 mm
- Weight: 4.8 kg
- Dimensions 17,5 x 47 x 35 cm
- Consumption: 100 W

Cat. No.	Description	Price
068587B	Sealing machine for sterilisation bags	N/A -

**TIP**



Bags and sleeves:  
See pages 1269 and 1270

## Automatic sealing machine for sterilisation bags



**TIP**



Bags and sleeves:  
See pages 1269 and 1270

For polypropylene / polyester bags with sterile paper base. According to DIN 58953.

- Made of epoxy-coated Metal
- Heating time: 4 min.
- Width of seal: 10 mm
- Sealing Speed: 6 m/min.
- Removable AISI 304 stainless steel pocket support plate
- Weight: 13 kg
- Consumption: 400 W
- Illuminated switch to start the heating
- Illuminated motor start switch
- Light to signal the start of sealing
- Side temperature control thermostat

Cat. No.	Description	Ext. dimension (H x L x D)	Price
068589B	Automatic Sealing Machine	16 x 48 x 26 cm	N/A -

## Manual welding machine



Manual welding machine.

- Suitable for all types of packaging and sterilisation (with or without bellows)
- An integrated roll holder and cutting device
- Stem length: max. 250 mm, width of the weld: 8 mm max.

Cat. No.	Description	Price
095099	Hawo HD260 MS8 Manual Welding Machine	N/A -

**TIP**



Bags and sleeves:  
See pages 1269 and 1270

## Standards for spectrophotometry

► Available as a sealed cuvette or as a solution in a bottle

### Bandwidth standard

Control of the ratio between the peak value at 268.7 nm and the trough value at 266.8 nm.

Complies with the European Pharmacopoeia.

Cat. No.	Description	Price
440689	Sealed UV cuvettes, bandwidth standard and Blank	N/A -
440690	Bandwidth standard solution 100 ml	N/A -
440691	Blank solution for bandwidth calibration 100 ml	N/A -

### Absorbance/transmission and linearity standard in UV (235, 257, 313 and 350 nm)

Control of absorbance measurement for different wavelengths in the UV (linearity of response). Complies with the European Pharmacopoeia.

Cat. No.	Description	Price
440692	Sealed UV cuvettes, absorbance standard (potassium dichromate 60 mg/l) and blank	N/A -
440693	Absorbance Standard solution (potassium dichromate 60 mg/l) 100 ml	N/A -
440694	Absorbance standard solution (0.005 M sulphuric acid) 100 ml	N/A -
440695	Sealed UV cuvettes, absorbance standard (potassium dichromate 600 mg/l) and blank	N/A -
440696	Absorbance Standard solution (potassium dichromate 600 mg/l) 100 ml	N/A -
440697	Absorbance standard solution (0.005M sulphuric acid) 100 ml	N/A -

► NIST-connected certificate

### Resolution standard for derivative spectrophotometry

Complies with the European Pharmacopoeia.

Cat. No.	Description	Price
440698	Sealed UV cuvettes, resolution standard and blank	N/A -
440699	Resolution standard solution	N/A -
440704	Blank solution (methanol) for resolution calibration	N/A -

### Baseline standard

Stray light control.

Complies with the European Pharmacopoeia.

Cat. No.	Description	Price
440705	Sealed UV cuvettes, resolution standard and blank	N/A -
440706	Baseline standard solution	N/A -
440707	Blank solution (water) for baseline calibration	N/A -

### Wavelength standard from 240 to 640 nm (certified for bandwidths of 0.1 nm, 0.2 nm, 0.5 nm, 1 nm and 2 nm)

Controls the absence of wavelength shift. Complies with the European Pharmacopoeia.

Cat. No.	Description	Price
440708	Sealed UV cuvette, Wavelength Standard from 240 to 640 nm	N/A -
440709	Wavelength standard solution from 240 to 640 nm - 12 x 5 ml	N/A -

## SteriMax Smart Steriliser



- Made of stainless steel with thermally insulated safety glass coating
- Special quartz inner tube, easy to clean
- No heating time required
- Infrared sensor for ignition
- Two user profiles for temperature and time settings
- Thermocontrol technology for low heat dissipation
- Warranty: 2 years

Sterilisation temperature ( °C)	750 - 1000
Heating power (W)	600
Tube inn. Dim. Ø x W (mm)	16 x 112
Dimensions W x D x H (mm)	110 x 170 x 180
Weight (kg)	1.8
Power supply	220-240 V, 50/60 Hz
Protection class	IP 20
<b>Cat. No.</b>	<b>788000</b>
<b>Price</b>	<b>N/A -</b>

### Accessories

Cat. No.	Description	Price
<b>788001</b>	Replacement quartz inner tube	<b>N/A -</b>
<b>788002</b>	Stainless steel 3-places tray for lateral attachment	<b>N/A -</b>
<b>788003</b>	Sterilisation rack for instruments	<b>N/A -</b>

## "Sterilbio" Steriliser with Radiation



Sterilises loops for seeding, needles, culture tubes and small instruments effectively, destroying any organic material in 5/8 seconds at a temperature of 900 ° C.

- Built with high quality ceramic elements and inner quartz tube
- Does not require oxygen and can be used in anaerobic environments
- Eliminates aerosol problems
- Prevents bacterial contamination
- Side support included, with 4 slots for Kolle sleeves, needles, lancets, dissection forceps, etc.
- Ext. dimension: 20 x 13 x 18 cm (H x L x D)
- Ø x int. tube W: 1.4 x 15 cm
- Consumption: 110 W
- Weight: 1.5 kg

Cat. No.	Description	Price
<b>068586</b>	"Sterilbio" Steriliser / incinerator with radiation	<b>N/A -</b>

## Poupinel dry heat steriliser



For the rapid sterilisation of various instruments.

- AISI 304 Stainless steel interior
- Hinged lid
- Pull-out basket with grippers
- Temperature adjustable from 100 °C to 250 °C
- Equipped with a main switch, a power indicator, a timer from 0 to 120 min
- Internal dimensions (L x D x H): 25 x 12 x 6,5 cm
- External dimensions (L x D x H): 31 x 20 x 15 cm
- Power consumption 300 W / weight 4 kg

Cat. No.	Description	Price
<b>341071</b>	DRYTHERM II Dry heat Poupinel steriliser	<b>N/A -</b>

## UV-Box decontamination chamber



- High intensity UV lamps 254 nm
- Adjustable timer 0 - 60 min
- Stainless steel internal walls with anti-microbial surface treatment
- Anti-UV observation window
- Secure locking system with key

Ext. dim. L x D x H (mm)	387 x 521 x 483
Weight (kg)	16
Wavelength (nm)	254
Tubes	3 x 60 Watt
Power supply	220 V / 50 Hz
<b>Cat. No.</b>	<b>231201</b>
<b>Price</b>	<b>N/A -</b>



## FRITSCH stainless steel sieves

- Standard ISO 3310-1
- Bottom and lid to be ordered separately
- In stainless steel

Mesh	Stainless steel sieve 200 x 50 mm	Stainless steel sieve 200 x 25 mm	Stainless steel sieve 203 x 51 mm	Stainless steel sieve 100 x 40 mm	Price
63mm*	445137	445255	445373	445491	N/A -
45mm*	445138	445256	445374	445492	N/A -
31.5mm*	445139	445257	445375	445493	N/A -
25 mm	445140	445258	445376	445494	N/A -
22.4mm*	445141	445259	445377	445495	N/A -
20 mm	445142	445260	445378	445496	N/A -
19 mm	445143	445261	445379	445497	N/A -
18 mm	445144	445262	445380	445498	N/A -
16mm*	445145	445263	445381	445499	N/A -
14 mm	445146	445264	445382	445500	N/A -
12.5 mm	445147	445265	445383	445501	N/A -
11.2mm*	445148	445266	445384	445502	N/A -
10 mm	445149	445267	445385	445503	N/A -
9 mm	445150	445268	445386	445504	N/A -
8mm*	445151	445269	445387	445505	N/A -
7.1 mm	445152	445270	445388	445506	N/A -
6.3 mm	445153	445271	445389	445507	N/A -
5.6mm*	445154	445272	445390	445508	N/A -
5 mm	445155	445273	445391	445509	N/A -
4.5 mm	445156	445274	445392	445510	N/A -
4mm*	445157	445275	445393	445511	N/A -
3.55 mm	445158	445276	445394	445512	N/A -
3.15 mm	445159	445277	445395	445513	N/A -
2.8mm*	445160	445278	445396	445514	N/A -
2.5 mm	445161	445279	445397	445515	N/A -
2.24 mm	445162	445280	445398	445516	N/A -
2mm*	445163	445281	445399	445517	N/A -
1.8 mm	445164	445282	445400	445518	N/A -
1.6 mm	445165	445283	445401	445519	N/A -
1.4mm*	445166	445284	445402	445520	N/A -
1.25 mm	445167	445285	445403	445521	N/A -
1.12 mm	445168	445286	445404	445522	N/A -
1mm*	445169	445287	445405	445523	N/A -
900µm	445170	445288	445406	445524	N/A -
850µm	445171	445289	445407	445525	N/A -
800µm	445172	445290	445408	445526	N/A -
710µm*	445173	445291	445409	445527	N/A -

\* ISO 565 R20/3

Mesh	Stainless steel sieve 200 x 50 mm	Stainless steel sieve 200 x 25 mm	Stainless steel sieve 203 x 51 mm	Stainless steel sieve 100 x 40 mm	Price
630µm	445174	445292	445410	445528	N/A -
600µm	445175	445293	445411	445529	N/A -
560µm	445176	445294	445412	445530	N/A -
500µm*	445177	445295	445413	445531	N/A -
450µm	445178	445296	445414	445532	N/A -
400µm	445179	445297	445415	445533	N/A -
355µm*	445180	445298	445416	445534	N/A -
315µm	445181	445299	445417	445535	N/A -
300µm	445182	445300	445418	445536	N/A -
280µm	445183	445301	445419	445537	N/A -
250µm*	445184	445302	445420	445538	N/A -
224µm	445185	445303	445421	445539	N/A -
212µm	445186	445304	445422	445540	N/A -
200µm	445187	445305	445423	445541	N/A -
180µm*	445188	445306	445424	445542	N/A -
160µm	445189	445307	445425	445543	N/A -
150µm	445190	445308	445426	445544	N/A -
140µm	445191	445309	445427	445545	N/A -
125µm*	445192	445310	445428	445546	N/A -
112µm	445193	445311	445429	445547	N/A -
106µm	445194	445312	445430	445548	N/A -
100µm	445195	445313	445431	445549	N/A -
90µm*	445196	445314	445432	445550	N/A -
80µm	445197	445315	445433	445551	N/A -
75µm	445198	445316	445434	445552	N/A -
71µm	445199	445317	445435	445553	N/A -
63µm*	445200	445318	445436	445554	N/A -
56µm	445201	445319	445437	445555	N/A -
53µm	445202	445320	445438	445556	N/A -
50µm	445203	445321	445439	445557	N/A -
45µm*	445204	445322	445440	445558	N/A -
40µm	445205	445323	445441	445559	N/A -
38µm	445206	445324	445442	445560	N/A -
36µm	445207	445325	445443	445561	N/A -
32µm*	445208	445326	445444	445562	N/A -
25µm*	445209	445327	445445	445563	N/A -
20µm	445210	445328	445446	445564	N/A -

Cat. No.	Description	Price
<b>For sieves 200 x 50 mm</b>		
445130	Stainless steel lid	N/A -
445110	Stainless steel sieve pan height 50 mm	N/A -
445108	Stainless steel intermediate pan, height 50 mm	N/A -
<b>For sieves 203 x 51 mm</b>		
445131	Stainless steel lid	N/A -
445111	Stainless steel sieve pan height 51 mm	N/A -
445109	Stainless steel intermediate pan, height 51 mm	N/A -
<b>For sieves 100 x 40 mm</b>		
445132	Stainless steel lid	N/A -
445112	Stainless steel sieve pan height 40 mm	N/A -

## Retsch Stainless Steel Sieve

- Standard ISO 3310/1 ➤ Sieve pan and lid to be ordered separately
- In stainless steel

Mesh	106 series Stainless steel sieve 100 x 40 mm		131 series Stainless steel sieve 200 x 50 mm	
	Cat. No.	Price	Cat. No.	Price
20 µm	950903	N/A -	950805	N/A -
25 µm	950904	N/A -	950806	N/A -
32 µm	950905	N/A -	950807	N/A -
36 µm	950906	N/A -	950808	N/A -
38 µm	950907	N/A -	950809	N/A -
40 µm	950908	N/A -	950810	N/A -
45 µm	950909	N/A -	950804	N/A -
50 µm	950910	N/A -	950811	N/A -
53 µm	950911	N/A -	950812	N/A -
56 µm	950912	N/A -	950813	N/A -
63 µm	950913	N/A -	950814	N/A -
71 µm	950914	N/A -	950815	N/A -
75 µm	950915	N/A -	950816	N/A -
80 µm	950916	N/A -	950817	N/A -
90 µm	950917	N/A -	950818	N/A -
100 µm	950918	N/A -	950819	N/A -
106 µm	950919	N/A -	950820	N/A -
112 µm	950920	N/A -	950821	N/A -
125 µm	950921	N/A -	950822	N/A -
140 µm	950922	N/A -	950823	N/A -
150 µm	950923	N/A -	950824	N/A -
160 µm	950924	N/A -	950825	N/A -
180 µm	950925	N/A -	950826	N/A -
200 µm	950926	N/A -	950827	N/A -
212 µm	950927	N/A -	950828	N/A -
224 µm	950928	N/A -	950829	N/A -
250 µm	950929	N/A -	950830	N/A -
280 µm	950930	N/A -	950831	N/A -
300 µm	950931	N/A -	950832	N/A -
315 µm	950932	N/A -	950833	N/A -
355 µm	950933	N/A -	950834	N/A -
400 µm	950934	N/A -	950835	N/A -
425 µm	950935	N/A -	950836	N/A -
450 µm	950936	N/A -	950837	N/A -
500 µm	950937	N/A -	950838	N/A -
560 µm	950938	N/A -	950839	N/A -
600 µm	950939	N/A -	950840	N/A -
630 µm	950940	N/A -	950841	N/A -
710 µm	950941	N/A -	950842	N/A -
800 µm	950942	N/A -	950843	N/A -
850 µm	950943	N/A -	950844	N/A -
900 µm	950944	N/A -	950845	N/A -
1 mm	950945	N/A -	950846	N/A -
1.12 mm	950946	N/A -	950847	N/A -
1.18 mm	950947	N/A -	950848	N/A -
1.25 mm	950948	N/A -	950849	N/A -
1.4 mm	950949	N/A -	950850	N/A -
1.6 mm	950950	N/A -	950851	N/A -
1.7 mm	950951	N/A -	950852	N/A -
1.8 mm	950952	N/A -	950853	N/A -
2 mm	950953	N/A -	950854	N/A -
2.24 mm	950954	N/A -	950855	N/A -
2.36 mm	950955	N/A -	950856	N/A -
2.5 mm	950956	N/A -	950857	N/A -
2.8 mm	950957	N/A -	950858	N/A -
3.15 mm	950958	N/A -	950859	N/A -
3.35 mm	950959	N/A -	950860	N/A -
3.55 mm	950960	N/A -	950861	N/A -
4 mm	950961	N/A -	950862	N/A -
4.5 mm	950962	N/A -	950863	N/A -
4.75 mm	950963	N/A -	950864	N/A -
5 mm	950964	N/A -	950865	N/A -
5.6 mm	950965	N/A -	950866	N/A -



Mesh	106 series Stainless steel sieve 100 x 40 mm		131 series Stainless steel sieve 200 x 50 mm	
	Cat. No.	Price	Cat. No.	Price
6.3 mm	950966	N/A -	950867	N/A -
6.7 mm	950967	N/A -	950868	N/A -
7.1 mm	950968	N/A -	950869	N/A -
8 mm	950969	N/A -	950870	N/A -
9 mm	950970	N/A -	950871	N/A -
9.5 mm	950971	N/A -	950872	N/A -
10 mm	950972	N/A -	950873	N/A -
11.2 mm	950973	N/A -	950874	N/A -
12.5 mm	950974	N/A -	950875	N/A -
13.2 mm	950975	N/A -	950876	N/A -
14 mm	950976	N/A -	950877	N/A -
16 mm	950977	N/A -	950878	N/A -
18 mm	950978	N/A -	950879	N/A -
19 mm	950979	N/A -	950880	N/A -
20 mm	950980	N/A -	950881	N/A -
22.4 mm	950981	N/A -	950882	N/A -
25 mm	950982	N/A -	950883	N/A -
26.5 mm	950983	N/A -	950884	N/A -
28 mm	950984	N/A -	950885	N/A -
31.5 mm	950985	N/A -	950886	N/A -
35.5 mm	950986	N/A -	950887	N/A -
37.5 mm	950987	N/A -	950888	N/A -
40 mm	950988	N/A -	950889	N/A -
45 mm	950989	N/A -	950890	N/A -

### Accessories

Cat. No.	Description	Price
<b>For sieves 100 x 40 mm</b>		
951083	Stainless steel sieve pan	N/A -
951084	Intermediate ring	N/A -
951085	Stainless steel sieve lid	N/A -
951086	Stainless steel sieve pan with outlet	N/A -
951087	Intermediate ring seal	N/A -
<b>For sieves 200 x 50 mm</b>		
951075	Stainless steel sieve pan	N/A -
951076	Intermediate pan	N/A -
951077	Intermediate ring	N/A -
951078	Stainless steel sieve lid	N/A -
951079	Intermediate ring seal	N/A -
<b>For sieves 200 x 25 mm</b>		
951080	Stainless steel sieve pan	N/A -
951081	Intermediate pan	N/A -
951082	Intermediate ring	N/A -

