

# Equip yourself for success. Starlab laboratory equipment.



Passionate for science.



# Equip yourself for success in the lab.

## STARLAB: MORE THAN JUST TIPS

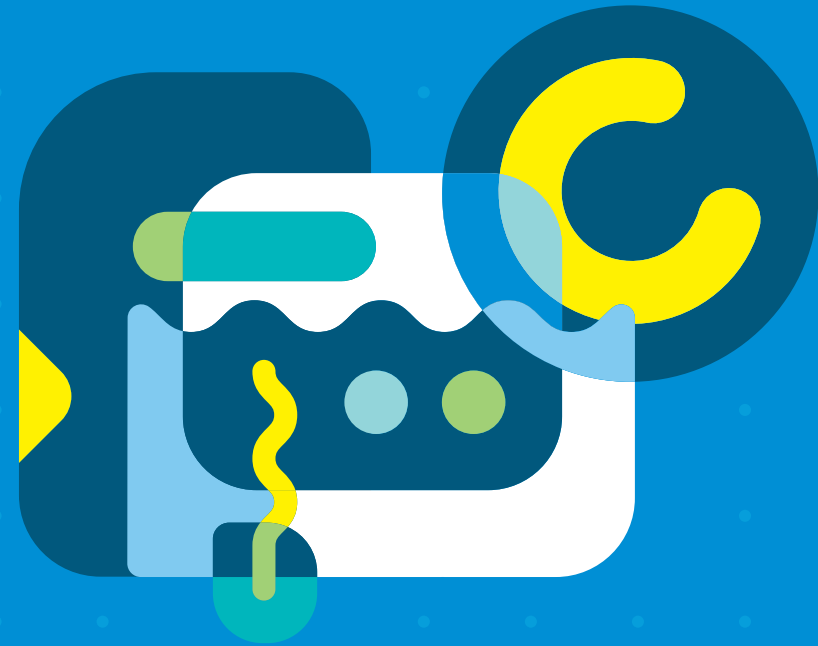
Starlab are liquid handling experts. We have become a recognised name as a manufacturer and supplier of high quality plastic consumables for a wide range of applications in liquid handling, such as the TipOne® pipette tip system and ErgoOne® pipettes.

Our laboratory equipment carries on the tradition of quality, with a range of products designed to help you with a variety of laboratory applications. Our equipment is designed to be

- Robust
- Reliable
- Easy to use
- Easy to maintain

Starlab laboratory equipment is designed for repeated daily use for a range of laboratory applications. User convenience, great features and a small footprint is at the heart of our design process.

Discover our range, and equip yourself for success in the lab.



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# Mixer HC.

## ONE SMALL DEVICE, SO MANY USES.


The Mixer HC is an essential bit of kit for any lab. Nine different thermoblocks for use with all common vials and plates means the Mixer HC will become your “go to” piece of equipment for a wide range of applications.

It's so convenient! You can mix, you can heat, and you can mix and heat at the same time! It will also cool your sample down and, you can time each step along the way. Easy to use and to program, the Mixer HC will prove to be an invaluable benchtop companion to help speed up your daily laboratory tasks.

- Mixing up to 1500 rpm
- Heating up to 99° C
- Cooling down to 13° below ambient
- Auto thermoblock recognition for quick and easy exchange between protocols
- Small, compact unit

Description	Art. No.
 Mixer HC <sup>1)</sup>	S8012-0000

<sup>1)</sup>Thermoblock is not included and must be purchased separately. 2-year warranty.



**FUNCTIONAL**  
**INTERVAL MIX:** alternate between mixing & resting  
**PROGRAM MODE:** create your own protocols  
**SHORT MIX:** instant mixing at the push of a button

**MIXING, HEATING, COOLING & TIMING**  
combined in one unit to help speed up your daily tasks

**EASY TO USE**  
Digital display for precise adjustment. Clear menu navigation and simple parameter setting

**PRECISE TEMPERATURE CONTROL**  
up to 99 °C; or down to 13 °C below room temperature

**MIXING**  
up to 1,500 rpm

**TIMING**  
1 min. to 99:59 hours

**SMALL, COMPACT UNIT**  
You will not believe how small it is!

15 mL


Mixer HC  
SMART INSTRUMENTS

TEMP MIX TIME  
INTERVAL MIX SHORT MIX  
PROGR. START/STOP



Watch video





**AUTOMATIC THERMOBLOCK RECOGNITION** provides quick and easy changing of thermoblocks between protocols. No programming required!

## NINE THERMOBLOCKS PROVIDE MAXIMUM FLEXIBILITY AT THE BENCH

Accessories		
	Thermoblock for 24 x 0.5 ml Microcentrifuge Tubes <sup>2)</sup>	S8012-0010
	Thermoblock for 24 x 1.5 ml Microcentrifuge Tubes <sup>3)</sup>	S8012-0011
	Thermoblock for 24 x 2.0 ml Microcentrifuge Tubes, Round Bottoms <sup>3)</sup>	S8012-0012
	Thermoblock for 24 x 2.0 ml Microcentrifuge Tubes, Ø 12 mm, V-Bottoms	S8012-0013
	Thermoblock for 8 x 5.0 ml Preparation Tubes	S8012-0014
	Thermoblock for 8 x 15 ml Conical Centrifuge Tubes	S8012-0015
	Thermoblock for 4 x 50 ml Conical Centrifuge Tubes	S8012-0016
	Thermoblock for 24 x 1.5/2.0 ml Cryo Tubes	S8012-0017
	Thermoblock for Micro / Deepwell Plate, with Lid	S8012-0018
	Adapter Plate 96 x 0.2 ml Tubes or a PCR plate (For use with S8012-0018)	S8012-0019
	ISO-Rack with Lid: 24 x 0.5 ml Microcentrifuge Tubes	S8012-0020
	ISO-Rack with Lid: 24 x 1.5/2.0 ml Microcentrifuge Tubes	S8012-0021

<sup>2)</sup>Includes Iso-Rack (S8102-0020) for 0.5 ml microcentrifuge tubes.

<sup>3)</sup>Includes Iso-Rack (S8102-0021) for 1.5/2.0 ml microcentrifuge tubes. Tubes shown with Iso-Rack are not included.

Technical specifications	
Temperature control range	
Thermoblocks for microcentrifuge tubes	13 °C below room temperature, to 99 °C
Thermoblocks for microplates / deepwell plates	10 °C below room temperature, to 99 °C
Mixing frequencies for thermoblocks	
1.5 / 2.0 ml microcentrifuges tubes	300 to 1400 1/min <sup>4)</sup>
Speed Range	300 rpm to 1500 rpm – depends on the thermoblock used
General unit specification	
Type of movement	Orbital
Mixing orbit	3 mm
Operation	Mixing, temperature control, simultaneous mixing and temperature control
Heating rate	5 °C/min
Cooling rate	2 to 3 °C/min
Timing capacity	1 min to 99:59 hours, infinitely adjustable
Power supply	100 – 240 V, 50/60 Hz
Max. power consumption	90 W
Permissible ambient temperature	4 °C – 35 °C
Permissible Relative Humidity	70 % max.
Weight	3.2 kg
Dimensions (W x D x H)	220 x 250 x 125 mm
<sup>4)</sup> Find more information at <a href="http://www.starlab.click/mixerhc">www.starlab.click/mixerhc</a>	

 [www.starlab.click/mixerhc](http://www.starlab.click/mixerhc)

# Microcentrifuge 24.

## SMALL SPACE. BIG RESULTS.

Looking for a compact microcentrifuge for all your routine molecular biology applications? Well look no further! Starlab's Microcentrifuge 24 can be used with all standard protocols and DNA/RNA kits on the market. You will love its convenient features, such as the auto-lid opening at the end of a run and the one-touch short spin function, but best of all, we think you will love how quiet it is!

- Max. speed 21,300 x g
- Holds 24 microcentrifuge tubes or 32 PCR tubes
- Motorised lid closure
- Automatic lid opening at the end of a run
- Easy to read, large LED display

### CONVENIENT

Automatic lid opening at the end of the run. Easy to operate lid closure (motorized)

### COMPACT

Small footprint saves precious space

### OH SO QUIET

Near silent operation: <= 58dB

### MONITORING GLASS

Visual control during rotor stop or speed check using a stroboscope

### CLEVER

Easy to clean keypad

### EASY

One touch short-spin function



## ROTOR STANDARD 24 AT

- Max. speed: 21,300 x g (15,060 rpm)
- Max. capacity: 24 x 1.5/2.0 ml tubes
- Adapters for 0.2/0.4/0.5 & 0.6 ml tubes
- Aerosol-tight rotor lid
- Lightweight aluminum
- Autoclavable

## ROTOR PCR 4X8

- Max. speed: 18,134 x g (15,060 rpm)
- Max. capacity: 4 x PCR strips or 32 x 0.2 ml tubes
- Lightweight aluminium
- Autoclavable





Quick and easy rotor change. Rotor key supplied with every microcentrifuge.



Easy to read, large LED display for set time and speed.



Motorised lid closure for easy, ergonomic lid operation.

Description	Art. No.
 Microcentrifuge 24 with rotor <sup>1)</sup>	S8030-0000
 Microcentrifuge 24 without rotor <sup>2)</sup>	S8030-0001
Accessories	
 Rotor Standard 24 AT	S8030-0010
 Rotor lid Standard 24 AT	S8030-0011
 Rotor PCR 4x8	S8030-0020
 Rotor lid PCR 4x8	S8030-0021
 Rotor Key	S8030-0042
 Sealing ring rotor lid Standard 24 AT	S8030-0012
 Adapter used in rotor Standard 24 AT for 1 micro test tube (0.5 ml, max. Ø 6 mm) or one Microtainer (0.6 ml, max. Ø 8 mm), set of 6	S8030-0013
 Adapter used in rotor Standard 24 AT for one PCR tube (0.2 ml, max. Ø 6 mm), set of 6	S8030-0014
 Adapter used in rotor Standard 24 AT for 1 micro test tube (0.4 ml, max. Ø 6 mm), set of 6	S8030-0015
Fuse	S8030-0052

<sup>1)</sup> Supplied with Standard 24 AT Rotor and Lid, Rotor Key and a Set of Fuses.

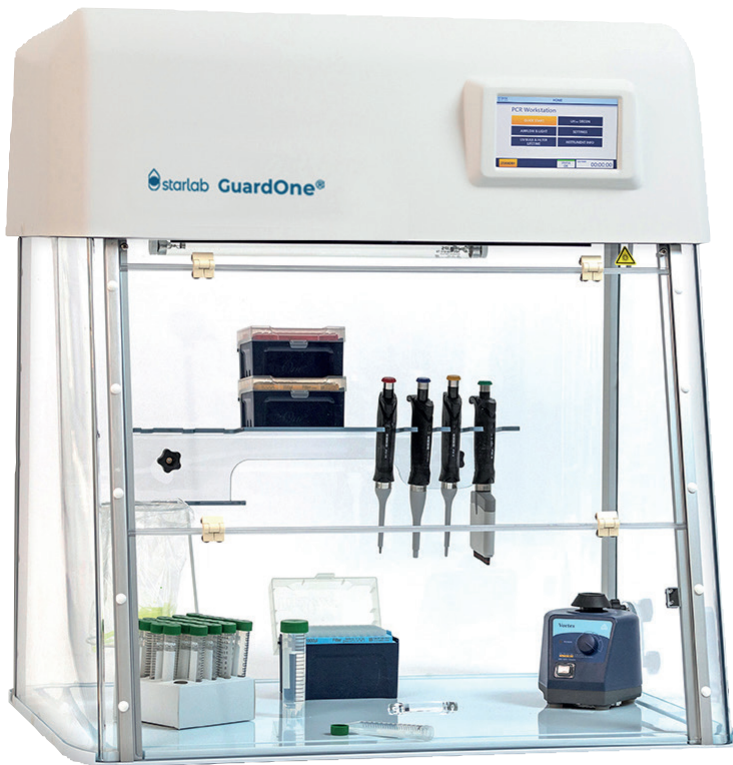
<sup>2)</sup> Supplied with Rotor Key and a Set of Fuses. 2-year warranty.

Technical specifications	
Rotational speed	100 rpm – 15,060 rpm
Relative centrifugal force	10 × g – 21,300 × g
Cycle time	10 s – 9:59 h, unlimited (∞)
Noise level	<= 58dB
Permissible ambient temperature	2 °C – 40 °C
Permissible relative humidity	10 % – 80 %, non-condensing
Current consumption	2.1 A
Power consumption	290 W
Power supply	230 V, 50 Hz – 60 Hz
Weight without rotor	12.98 kg
Rotor weights	772 g Standard. 460 g PCR.
Dimensions (W x D x H)	242 x 346 x 219 mm



 [www.starlab.click/microcentrifuge24](http://www.starlab.click/microcentrifuge24)

# GuardOne® Workstations.



## ALL IN FOR YOUR APPLICATIONS

Starlab's GuardOne® Workstation provides the ideal workspace for sensitive and critical applications requiring a clean environment or protection from potential contamination by bacteria, DNA or RNA. The GuardOne® Workstation minimizes cross-contamination risk to protect your valuable samples and reagents\*, thus helping to prevent both the time and cost involved by having to duplicate contaminated work.

Every aspect of GuardOne® has been designed with convenience in mind. All functions are controlled via the glove compatible, easy to use touchscreen.

Smart design! Minimal volume packaging with easy assembly in just 15 minutes. HEPA filter exchange and UV lamp exchange in just 2 minutes. Watch the videos at [www.starlab.click/guardone](http://www.starlab.click/guardone)

\*GuardOne® is not designed to protect the operator.

Glove compatible, easy to use touchscreen which also features an at-a-glance, colour-coded workstation status indicator



Easy open lid with hydraulic struts for effortless HEPA filter exchange



High-performance energy-saving LED lights (white and red)



Optically clear, UV-impermeable polycarbonate for maximum visibility

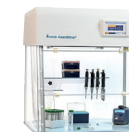
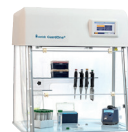


Convenient cable access for your electrical devices



- One-touch QuickStart / QuickStop settings
- Efficient UV<sub>245 nm</sub> decontamination with timer function
- Efficient, class H14 HEPA filter with pre-filter provides ISO class 5 working environment\*
- Real-time airflow measurement\*
- Life-span monitoring of consumables
- Virtually maintenance-free
- Easy to clean
- Easy, tool-free assembly in just 15 minutes

\*Laminar flow models only.



	Dead Air Workstation 32"	Dead Air Workstation 48"	Laminar Flow Workstation 32"	Laminar Flow Workstation 48"
<b>Ordering Information</b>				
Article No.	S8040-1000	S8040-1001	S8040-0000	S8040-0001
<b>Technical Specifications</b>				
<b>BASIC SPECIFICATIONS</b>				
External dimensions (W x D x H)	813 x 610 x 877 mm	1220 x 610 x 877 mm	813 x 610 x 877 mm	1220 x 610 x 877 mm
Internal dimensions (W x D x H)	800 x 600 x 600 mm	1200 x 600 x 600 mm	800 x 600 x 600 mm	1200 x 600 x 600 mm
Weight	32 kg	35 kg	36 kg	42 kg
Power consumption	38 W	38 W	90 W	160 W
Lab timer	Yes	Yes	Yes	Yes
<b>AIR FLOW</b>				
Air velocity	-	-	0.2 – 0.4 m/s	0.2 – 0.4 m/s
Realtime airflow measuring	-	-	Yes	Yes
Pre-filter	-	-	1x	2x
HEPA filter	-	-	1x H14	2x H14
HEPA filter lifespan monitor	-	-	yes	yes
<b>LIGHT</b>				
LED light intensity	1400 lux	1400 lux	1400 lux	1400 lux
UV lamp	1x 15 W	2x 15 W	1x 15 W	2x 15 W
UV lamp lifespan monitor	Yes	Yes	Yes	Yes
UV timer	Yes	Yes	Yes	Yes
UV safety switch	Yes	Yes	Yes	Yes

Go online for more information, videos and ordering details on replacement lamps, filters & accessories



[www.starlab.click/guardone](http://www.starlab.click/guardone)





# Aspirator.

## USE TWO HAND CONTROLLERS WITHOUT ANY LOSS OF PERFORMANCE

The Starlab Aspirator is designed for the safe and efficient aspiration of fluids. The vacuum level and suction power is adjustable in eight steps (150 to 850 mbar) for safe and reproducible working.

The chemically-resistant pump automatically switches on/off to reduce noise level in the workplace. The ergonomically-designed hand controller is fully autoclavable. Collection containers are available in two options; 4 L polypropylene and 2 L glass bottles. You can also use the Aspirator as a mobile vacuum source for sterile filtration and solid phase extraction.



### Easy to handle

Pressing the lever allows fine adjustment of the suction power. Permanent suction can also be enabled.



### 8-channel tip adapter

The 8-channel adapter for 200 µl and 300 µl pipette tips is the perfect choice for working with cell culture plates.



### Hydrophobic filter

Hydrophobic filter prevents contamination of environment and provides overflow protection.



### Quick coupling

Autoclavable, self-sealing quick couplings allow safe decontamination of biological risks.

- The powerful pump can operate two hand controllers without any loss of performance
- Chemically-resistant, high performance pump with long service life
- Auto ON-OFF pump switch with low noise emission for a quieter working environment
- Ergonomic, fully autoclavable hand controller
- Intuitive, reproducible adjustment of suction power via touch panel

### Technical specifications

Maximum pumping speed	16.7 l/min
Adjustable range of vacuum	150 – 850 mbar
Maximum permissible inlet/outlet pressure	1.1 bar
Noise level	45 dB(A)
Permissible ambient temperature	10 – 40 °C
Permissible relative humidity	38 – 85 %
Maximum power consumption	40 W
Power supply	230 V + 10 %, 50/60 Hz
Weight	7.3 kg
Dimensions (W x D x H)	408 x 194 x 500 mm

## THE IMPORTANCE OF ACCESSORIES! HERE'S A GUIDE OF WHAT TO BUY.

### To add an exchange bottle:

N2400-9010 (fast coupling N2400-9008 also recommended)

### To have a self-sealing system applicable for biological risks:

N2400-9008 plus N2400-9009

**N2400-9000**<sup>1)</sup> includes everything you need to get started: Aspirator, 4 Litre Polypropylene Bottle with Protection Filter and Inlet Pipe, Hand Controller, including 2.5 m Tubing, a Wall Mount, an Adapter for Pipettes, and an Adapter for Pipette Tips.

### To have a benchtop stand for your Hand Controller:

N2400-9004

### To have a fast coupling system:

N2400-9008 plus N2400-9009.

### To use stronger chemicals (eg. sodium hypochlorite) or staining solutions:

N2400-9012 plus N2400-9013

### To work with cell culture plates:

N2400-9003

### To add a second Hand Controller:

N2400-9001 plus N2400-9006 or N2400-9008

### To have a tip ejector for your Hand Controller:

N2400-9002

### To have easy access to your under bench Aspirator

N2400-9014



#### Description

Aspirator

#### Art. No.

N2400-9000

<sup>1)</sup> Aspirator is supplied with everything you need to get started. 1-year warranty.



#### Accessories



**Hand Controller for Aspirator.**  
Includes one Adapter for Pipettes, one Adapter for Pipette Tips, a Wall Mount, and 2.5 m Tubing.

N2400-9001



**1-Channel Tip Adapter for Hand Controller**

N2400-9002



**8-Channel Tip Adapter for Hand Controller**

N2400-9003



**Stand for Hand Controller**

N2400-9004



**Tubing for Hand Controller (2.5 m)**

N2400-9005



**Connection Kit for Second Hand Controller**

N2400-9006



**Protection Filter with Connective Tubing**

N2400-9007



**Quick Coupling: Hand Controller to Bottle**

N2400-9008



**Quick Coupling: Bottle to Pump**

N2400-9009



**4 Litre Polypropylene Bottle with Filter and Inlet Pipe**

N2400-9010



**4 Litre Polypropylene Bottle with Screw Cap**

N2400-9011



**2 Litre Glass Bottle with Filter and Inlet Pipe**

N2400-9012



**Adapter for 2 Litre Glass Bottle**

N2400-9013



**Mobile Underframe**

N2400-9014



**Tool for Diaphragm Change**

N2400-9015



**Adapter for Pipettes**

N2400-9016

# Mini Fuge PLUS.




## EVERY BENCH SHOULD HAVE ONE

The Mini Fuge PLUS centrifuge is ideal for the quick spin down of condensate, vortexed or thawed samples. Microfiltration and cell separation with a speed of 2000 x g, is also possible.

- 8-place rotor for 0.2/0.5/1.5/2.0 ml tubes, including screw cap tubes
- 32-place strip rotor for 0.2 ml tubes or strips
- Quick, easy rotor change without the need for tools
- Second lid switch for added safety



Description	Art. No.
 Mini Fuge PLUS	N2631-0017
Supplied with two rotors: Standard for use with 1.5/2.0 ml tubes, and Strip for use with 0.2 ml tubes. Also included: adapters to convert the Standard rotor for use with 0.2 ml and 0.5 ml tubes. 2-year warranty.	

Technical specifications	
Speed	6000 rpm
RCF	2000 x g
Operating temperature	5 – 40 °C
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	>80 %
Fuse	0.35 A
Power supply	100 – 240 V, 50/60 Hz
Weight	1.2 kg
Dimensions (W x D x H)	150 x 150 x 116 mm



[www.starlab.click/minifuge-plus](http://www.starlab.click/minifuge-plus)





# Plate Centrifuge.

## YOU SPIN ME ROUND

The plate centrifuge makes the safe and quick spin down of droplets and condensation very easy. Sealed plates are loaded vertically into the centrifuge, and surface tension keeps samples in place so there is no danger of spills. The plate centrifuge accepts all plates up to 25 mm high. An optional adaptor is available for centrifuging 48-well PCR plates and 0.2 ml PCR tubes or strips. Use before and after thermal cycling to increase PCR yield.

- Accommodates two plates up to 25 mm high
- Accepts skirted, semi-skirted and non-skirted plates
- Rapid start to stop
- Adapter for use with 48-well plates or PCR tubes
- Less than quarter the size of most plate centrifuges



Description	Art. No.
 Plate Centrifuge	N2631-0008
Accessories	
 Adapter for 1/2 Plates, Strips and Tubes (Pack of 2)	N2631-0018

2-year warranty.

Technical specifications	
Speed	2500 rpm
RCF	500 x g
Rotor capacity	Two plates, any style, up to 25 mm high
Operating temperature	4 – 30 °C
Permissible relative humidity	85 %
Fuse	0.5 AT
Power supply	230 V, 50/60 Hz
Weight	1.5 kg
Dimensions (W x D x H)	190 x 210 x 193 mm



 [www.starlab.click/platecentrifuge](http://www.starlab.click/platecentrifuge)

# Vortex.



## SIMPLE, YET SMART

An economical vortex for quick and convenient mixing of small sample volumes. Supplied with a universal cup for tubes or vessels up to 30 mm, the vortex also has a range of accessories to allow the mixing of various tube sizes as well as skirted plates. Anti-slip feet provide stability on the bench during mixing. The variable speed provides the gentle mixing of samples up to higher speeds for vigorous mixing and resuspending cells or pellets.

- Variable speed control up to 2500 rpm
- Two operating modes: continuous and touch
- Wide range of accessories
- Anti-slip feet
- Small footprint



 [www.starlab.click/vortex](http://www.starlab.click/vortex)



Description	Art. No.
 Vortex	N2400-6110
Accessories	
 Vortex Replacement Universal Cup	N2400-6011
 Tube Adapter for 15 x 1.5/2.0 ml Tubes <sup>1)</sup>	N2400-6012
 Tube Adapter for 8 x 15 ml Centrifuge Tubes <sup>1)</sup>	N2400-6013
 Adapter for 96 Well Microplates	N2400-6014
 Vortex Adapter Plate	N2400-6015

Vortex is supplied with Universal Cup N2400-6011. <sup>1)</sup> N2400-6012 and N2400-6013 can also be used as an attachment on the Microplate Mixer N2400-8040 in combination with its adapter N2400-6015. 2-year warranty.

Technical specifications	
Speed range	0 – 2500 rpm <sup>2)</sup>
Type of movement	Orbital
Orbital diameter	4 mm
Maximum load	0.5 kg
Operation	Two: touch and continuous
Permissible ambient temperature	4 – 40 °C
Permissible relative humidity	<80 %
Maximum power consumption	60 W
Power supply	110 – 230 V, 50.60 Hz
Weight	3.5 kg
Dimensions (W × D × H)	127 × 130 × 160 mm

<sup>2)</sup> 2500 rpm max. speed only with Universal Cup attachment supplied with the unit. Max. speed when using any other adapter is 1300 rpm.

# Vortex IR.



## SIMPLE, BUT REVOLUTIONARY

The Vortex IR incorporates an optional infrared (IR) motion detector which automatically starts the vibration when a tube crosses the sensor field. The variable vibration speed allows low speeds for the gentle mixing of samples or higher speeds for vigorous vortex mixing and the resuspending of cells or chemical pellets.

- Variable speed control up to 3000 rpm
- Two operating modes: continuous and touch
- No pressure needed to maintain vibration
- Wide range of accessories
- Low profile design

**Vortex IR Sensor Mode.**  
When set to sensor mode, the infrared detects the presence of the tube and automatically starts vibration.

[www.starlab.click/vortexir](http://www.starlab.click/vortexir)

Description	Art. No.
 Vortex IR	N2400-0001
Accessories	
 Foam Attachment for 19 x 1.5 ml Tubes	N2400-1001
 Foam Attachment for 5 x 15 ml Tubes (16 mm)	N2400-1002
 Foam Attachment for 4 x 50 ml Tubes (29 mm)	N2400-1003
 Foam Attachment for Microtitre Plate	N2400-1004
 Universal Rubber Attachment	N1400-1005
 Customisable Soft Foam Attachment	N2400-1006
 Replacement Cup for Single Test Tube	N2400-1008

Vortex IR is supplied with cup N2400-1008. 2-year warranty.

Technical specifications	
Speed range	0 – 3000 rpm <sup>1)</sup>
Type of movement	Orbital
Orbital diameter	4.5 mm
Maximum load	0.5 kg
Operation	Two: sensor and continuous
Permissible ambient temperature	4 – 40 °C
Permissible relative humidity	<80 %
Maximum power consumption	15 W
Output	1.25 A
Power supply	90 – 260 V, 50.60 Hz
Weight	2.5 kg
Dimensions (W x D x H)	180 x 220 x 70 mm

<sup>1)</sup> 3000 rpm max. speed only with the Cup for Single Test Tube attachment supplied with the unit. Maximum speed when using other attachments is 1200 rpm, except for N2400-1004 which is 800 rpm.

# Rotator Mixer Multi 1.



- Controlled sample inverting
- Programmable
- Three different motions
- Variable speed and timer
- Low profile and small footprint

## IT'S GIVING OUT GOOD VIBRATIONS

Compact and multifunctional, the programmable Rotator Mixer provides the thorough mixing of microtubes with consistent results. The three different motions – vertical rotation, reciprocal motion and vibration – can be used separately or combined, as well as variable speed and timer functions. Supplied with a platform for 26 tubes up to 15 mm diameter (eg. 1.5/2.0 ml and 15 ml tubes), Starlab's Rotator Mixer will aid your daily mixing tasks. An optional platform is available separately. The Rotator Mixer is designed for mixing applications including cell suspensions, incubations, extraction procedures, gel washing and precipitations.



**Vertical Rotation**  
360° vertical motion for time period of 0–250 seconds, or non-stop.






**Reciprocal Motion**  
Platform direction changes in turns (turning angle 1–90°) for 0–250 seconds, or non-stop.



**Vibration**  
Platform direction changes in turns (see reciprocal motion) plus additional vibration (turning angle 1–5° for 1–5 seconds.



**Pause**  
Platform direction changes in turns, incl. a temporary motion stop of 1–5 seconds (in conjunction with reciprocal motion only).

Description	Art. No.
 Rotator Mixer Multi 1	N2400-5000
Accessories	
 Platform for 5 x 50 ml & 12 x 5.0 to 15 ml Tubes	N2400-5103
 Platform for 26 Tubes up to 15 mm diameter	N2400-5104
N2400-5000 is supplied with platform N2400-5104. 2-year warranty.	

Technical specifications	
Speed range	1 – 100 rpm
Speed increments	1 rpm
Timing capacity	Auto switch-off: 1 min. – 24 hrs. Vertical or Reciprocal Mode: 0 – 250 seconds, or non-stop. Vibration mode: 0 – 5 secs
Maximum load	0.5 kg
Permissible ambient temperature	4 – 40 °C
Output	1.25 A
Weight	1.8 kg
Dimensions (W x D x H)	365 x 195 x 155 mm



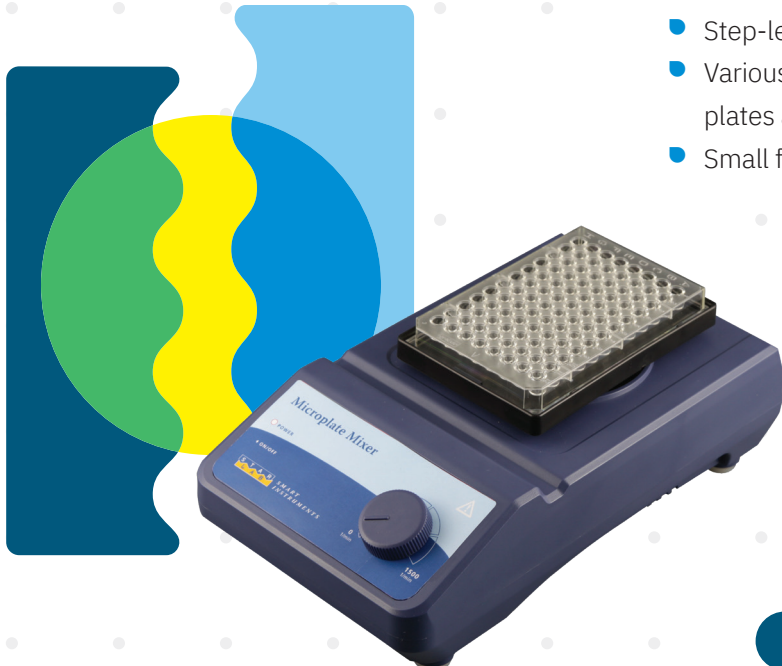
 [www.starlab.click/rotatormixer](http://www.starlab.click/rotatormixer)

# Microplate Mixer.

## MIX IT. SHAKE IT.

Ideal for the mixing and shaking of any skirted plate (PCR, Cell Culture, Deepwell, Microtitre and Microplates), the Starlab microplate mixer can hold either one or two plates, depending on the attachment being used. Versatile too! You can also mix tubes with the special tube adapter accessories. The step-less, variable vibration speed is excellent for applications such as the resuspending pellets.

- Suitable for use with all skirted plates with a SBS footprint
- Wide speed range: 0 to 1500 rpm
- Step-less speed control
- Various accessories for microtitre plates and tubes
- Small footprint



[www.starlab.click/microplate-mixer](http://www.starlab.click/microplate-mixer)

Description	Art. No.
 Microplate Mixer <sup>1)</sup>	N2400-8040
Accessories	
 Attachment for One Microtitre Plate <sup>2)</sup>	N2400-8041
 Attachment for Two Microtitre Plates <sup>2)</sup>	N2400-8042
 Tube Adapter for 15 x 1.5 / 2.0 ml Tubes <sup>3)</sup>	N2400-6012
 Tube Adapter for 8 x 15 ml Centrifuge Tubes <sup>3)</sup>	N2400-6013
 Microplate Mixer Adapter Plate	N2400-8043

<sup>1)</sup> N2400-8040 is supplied with attachment N2400-8041. <sup>2)</sup> N2400-8041 and N2400-8042 are suitable for use with all skirted plates with a SBS footprint (127.8 x 85.5 mm). <sup>3)</sup> N2400-6012 and N2400-6013 can only be used on this mixer in conjunction with the Adapter Plate N2400-8043. N2400-6012 and N2400-6013 can also be used with Vortex (N2400-6110) in combination with its Adapter N2400-6043. 2-year warranty.

Technical specifications	
Speed range	0 – 1500 rpm <sup>1</sup>
Type of movement	Orbital
Orbital diameter	4.5 mm
Maximum load	0.5 kg
Permissible ambient temperature	4 – 40 °C
Permissible relative humidity	< 80 %
Maximum power consumption	20 W
Power supply	100 – 240 V, 50/60 Hz
Weight	3.0 kg
Dimensions (W x D x H)	150 x 260 x 80 mm

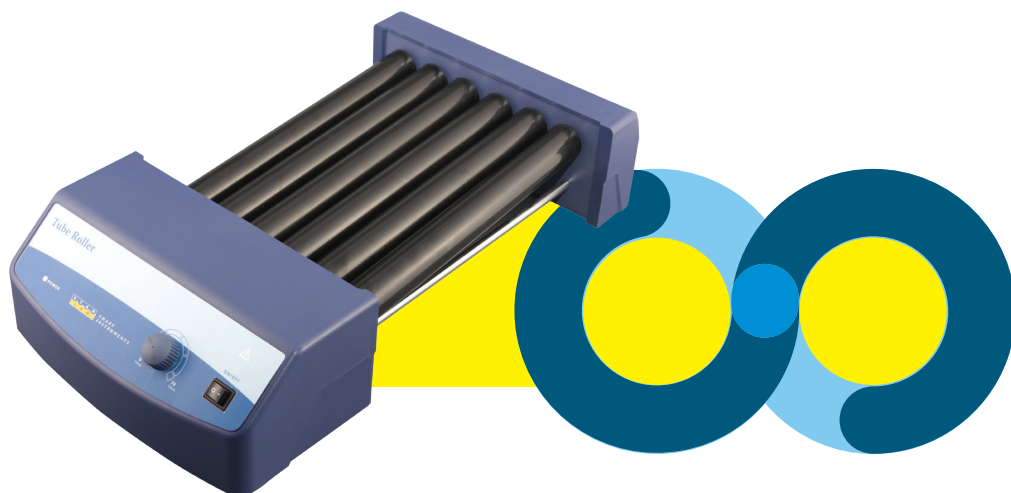
<sup>1)</sup> 1500 rpm is maximum speed with all attachments, except N2400-8042 which has a maximum speed of 1000 rpm.

# Tube Roller.

## IT'S A ROCK AND ROLL STAR

Simultaneous rolling and tilting movements ensures thorough mixing of your samples. The unit features variable speed control and a sturdy and robust construction. The tube roller is built for continuous operation and is suitable for applications such as hybridisation.

- Simultaneous rolling and tilting motion
- Continuous operation
- Speed control up to 70 rpm
- Six rollers holds load up to 4 kg
- Easy to use



Description	Art. No.
 Tube Roller	N2400-7010

2-year warranty.

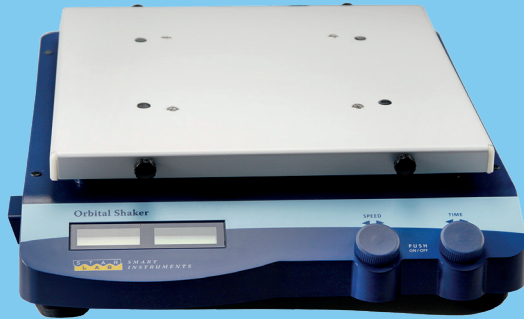
Technical specifications	
Speed range	0 – 70 rpm
Type of movement	Orbital
Number of rollers	6
Size of rollers	280 x 30 mm
Maximum load	4.0 kg
Permissible ambient temperature	4 – 40 °C
Permissible relative humidity	< 80 %
Maximum power consumption	25 W
Power supply	100 – 240 V, 50/60 Hz
Weight	4.5 kg
Dimensions (W x D x H)	260 x 460 x 120 mm



 [www.starlab.click/tuberoller](http://www.starlab.click/tuberoller)



# Orbital Shaker.



- Gentle agitation up to vigorous orbital motion
- Two operating modes: continuous and timer
- LCD displays for speed and time
- Holds load up to 7.5 kg
- Choice of two platforms

## SHAKE IT ALL ABOUT




With two operating modes – continuous and timer – orbital shaking of your samples is possible from a gentle agitation up to a vigorous orbital motion. The easy to read, digital speed and timer displays ensures ease of use in the busy lab environment. The orbital shaker is suitable for a wide range of molecular biology or immunology applications.

The Orbital Shaker is NOT supplied with a platform. Two platforms are available and sold separately so you can order your shaker to suit your requirements.



**Orbital Shaker.**  
Image shows N2400-8030 with platform N2400-8011 (sold separately).



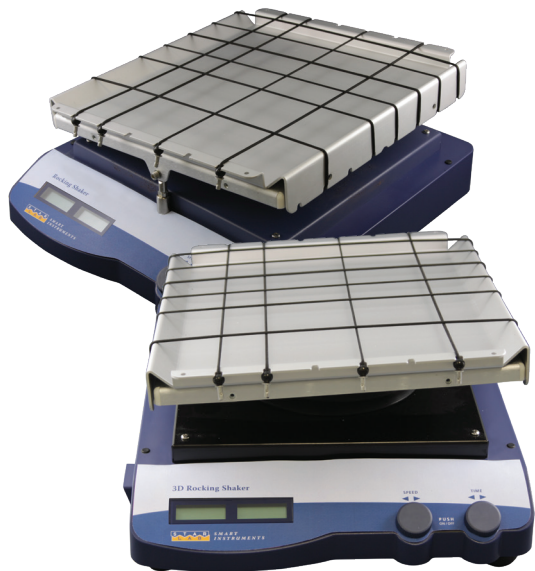
Description	Art. No.
 Orbital Shaker, without platform	N2400-8030
Accessories	
 Universal Platform with Clamping Rolls	N2400-8011
 Universal Platform with Rubber Mat and Bungee Cords	N2400-8021

N2400-8030 is not supplied with platform. A platform must be purchased separately. Platforms N2400-8011 and N2400-8021 can also be used on the Starlab Rocking Shaker (N2400-8010) and Stalab 3D Rocker Shaker (N2400-8020). 2-year warranty.

Technical specifications	
Speed range	100 – 500 rpm
Type of movement	Orbital
Orbital diameter	10 mm
Maximum load	7.5 kg
Platform dimensions	300 x 300 mm
Operation	Two: continuous or timer
Timing capacity	1 – 1199 mins (19 hrs 59 secs)
Display	LCD
RS232 interface	Yes
Permissible ambient temperature	4 – 40 °C
Permissible relative humidity	< 80 %
Maximum power consumption	30 W
Power supply	100 – 240 V, 50/60 Hz
Weight	13.5 kg
Dimensions (W x D x H)	420 x 370 x 100 mm

 [www.starlab.click/orbitalsshaker](http://www.starlab.click/orbitalsshaker)

# 3D Rocking & Rocking Shakers.



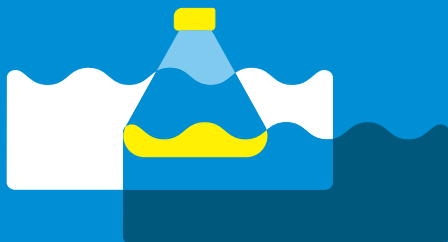
## SHAKEN, NOT STIRRED

Two similar shakers but with different movements: 3D or see-saw rocking. Both shakers have a fixed tilt angle and provide two shaking modes: continuous and timer. The digital speed and timer displays ensure ease of use. Both shakers are supplied with a platform with a rubber mat and bungee cords. An alternative platform with clamping rolls is available separately, making these shakers suitable for a wide range of applications including blotting, cultivation and incubation techniques.

- See-saw rocking or 3D mixing
- Two operating modes: continuous and timer
- LCD displays for speed and time
- Easy to use
- Alternative platform available



[www.starlab.click/shakers](http://www.starlab.click/shakers)



Description	Art. No.
 3D Rocking Shaker	N2400-8020
 Rocking Shaker	N2400-8010
Accessories	
 Universal Platform with Clamping Rolls	N2400-8011
 Universal Platform with Rubber Mat and Bungee Cords	N2400-8021

N2400-8020 and N2400-8010 are both supplied with platform N2400-8021. Platforms N2400-8011 and N2400-8021 can also be used on the Starlab Orbital Shaker (N2400-8030). 2-year warranty.

## Technical specifications

	3D ROCKING SHAKER	ROCKING SHAKER
Speed range	10 – 70 rpm	10 – 70 rpm
Type of movement	3D mixing	See-saw rocking
Tilt angle	9 °	9 °
Maximum load	5.0 kg	10 kg
Platform dimensions	300 x 300 mm	300 x 300 mm
Operation	Two: continuous or timer	Two: continuous or timer
Timing capacity	1 – 1199 mins (19 hrs 59 secs)	1 – 1199 mins (19 hrs 59 secs)
Display	LCD	LCD
Permissible ambient temperature	4 – 40 °C	4 – 40 °C
Permissible relative humidity	< 80 %	< 80 %
Maximum power consumption	50 W	40W
Power supply	100 – 240 V, 50/60 Hz	100 – 240 V, 50/60 Hz
Weight	9.0 kg	9.0 kg
Dimensions (W x D x H)	370 x 420 x 200 mm	370 x 420 x 106 mm

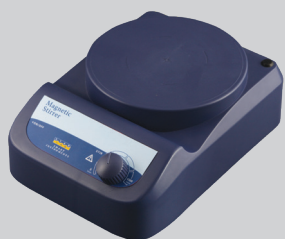


# Magnetic Stirrers.



[www.starlab.click/stirrers](http://www.starlab.click/stirrers)

## MAGNETIC STIRRER



Economical magnetic stirrer that is easy to use and built to last. Provides reliable stirring with the adjustable stirring speed. This compact stirrer can hold up to 3 litres and is ideal for applications such as buffer preparation.




- Variable speed range up to 1500 rpm
- Stirring volume up to 3 litres
- Compact design
- Easy to clean
- Supplied with a 40 mm stir bar

## MAGNETIC STIRRER WITH HEATING



A magnetic stirrer with very fast temperature ramping and a ceramic-coated plate to ensure an even temperature. Easy to use, the LED display shows temperature and speed. Ideal for many applications such as preparation of solvents at high temperatures.

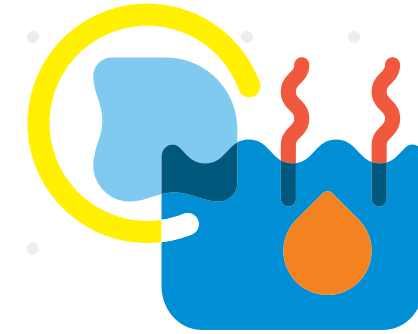
- Fast temperature ramping saves time
- Speed and temperature LED display
- Hotplate safety warning light
- Chemically-resistant ceramic-coated plate
- Supplied with a 40 mm stir bar

Description	Art. No.
 Magnetic Stirrer	N2400-2010
 Magnetic Stirrer with Heating	N2400-3010
Accessories	
 Temperature Sensor PT1000 (For use with N2400-3010)	N2400-3011

2-year warranty.

	Technical specifications	
	STIRRER	STIRRER w HEATING
Speed range	100 – 1500 rpm	200 – 1500 rpm
Speed increments	10 rpm	10 rpm
Maximum stirring volume	3 litres	3 litres
Plate diameter	135 mm	135 mm
Temperature range	–	Ambient to 280 °C (1 °C increments)
Permissible ambient temperature	4 – 40 °C	4 – 40 °C
Permissible relative humidity	< 80 %	< 80 %
Maximum power consumption	10 W	515 W
Power supply	100 – 240 V, 50/60 Hz	200 – 240 V, 50/60 Hz
Weight	0.9 kg	1.4 kg
Dimensions (W x D x H)	155 x 215 x 75 mm	155 x 215 x 75 mm

# Mini Dry Bath.










## TINY, BUT POWERFUL

A very small yet powerful unit suitable for a range of applications. The digital microprocessor controls the preset temperature of the metal block and the fast ramping of temperature saves your valuable time. Supplied with a transparent lid for temperature uniformity, the unit can also be used as a mini water bath or bead bath.



- Microprocessor controlled temperature and timer
- Digital display
- Easy, user calibration
- Doubles as a small water or bead bath
- Very small footprint



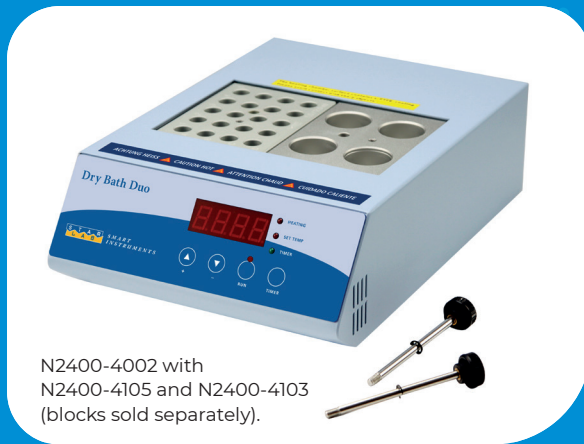
Description	Art. No.
 Mini Dry Bath Incubator <sup>1)</sup>	N2400-4020
<b>Accessories</b>	
 Mini Dry Bath Metal Block for 32 x 0.2 ml Tubes	N2400-4021
 Mini Dry Bath Metal Block for 12 x 0.5 ml Tubes	N2400-4022
 Mini Dry Bath Metal Block for 12 x 1.5 ml Conical Tubes	N2400-4023
 Mini Dry Bath Metal Block for 12 x 1.5/2.0 ml V-Shaped Tubes	N2400-4024
 Mini Dry Bath Metal Block for 6 x 15 ml Tubes	N2400-4025
 Mini Dry Bath Metal Block for 2 x 50 ml Tubes	N2400-4026

<sup>1)</sup> Metal blocks are not included and must be purchased separately. Blocks are sold with a screw-in handle for insertion/removal. 2-year warranty.

Technical specifications	
Operating temperature	Ambient to 40 °C
Temperature increments	0.1 °C
Dry bath temperature control range	5 °C above ambient to 100 °C
Water bath temperature control range	5 °C above ambient to 90 °C
Temperature accuracy	± 0.25 °C at 37 °C
Temperature uniformity	± 0.20 °C at 37 °C
Temperature calibration	Yes
Timing capacity	0 – 999 mins, continuous
Water bath volume	85 ml, approx.
Display	Digital
Controller	Digital microprocessor
Safety device	Leak proof heating chamber and over-heating alarm protection
Fuse	2A
Maximum power consumption	50 W
Power supply	100 – 240 V, 50/60 Hz
Weight	0.6 kg
Dimensions (W x D x H)	125 x 153 x 97 mm

 [www.starlab.click/mini-dry-bath](http://www.starlab.click/mini-dry-bath)

# Dry Bath System (Single & Dual).



N2400-4002 with N2400-4105 and N2400-4103 (blocks sold separately).

## DRY BATH. WET BATH.

Available as single or dual block units, these systems offer great value and convenience for the user. The range of blocks make these units suitable for a wide variety of applications. Both systems can also function as a water bath.

- Microprocessor controlled temperature and timer
- Digital display
- Easy, user calibration
- Wide range of metal blocks
- Doubles as a small water or bead bath

Description	Art. No.
 Dry Bath System (Single Block) <sup>1)</sup>	N2400-4001
 Dry Bath System (Dual Block) <sup>1)</sup>	N2400-4002
Accessories	
 Metal Block for 64 x 0.2 ml Tubes	N2400-4100
 Metal Block for 20 x 1.5/2.0 ml Tubes	N2400-4101
 Metal Block for 12 x 15 ml Centrifuge Tubes	N2400-4102
 Metal Block for 4 x 50 ml Centrifuge Tubes	N2400-4103
 Metal Block for 20 x 1.5 ml V-Shaped Tubes	N2400-4104
 Metal Block for 20 x 0.5 ml Tubes	N2400-4105
 Metal Block for 20 Tubes up to 13 mm diameter	N2400-4106
 Metal Block for one 96-Well PCR Plate (for use with single block unit)	N2400-4107
 Metal Block for one 96-Well PCR Plate (for use with dual block unit)	N2400-4108

<sup>1)</sup> Metal blocks are not included and must be purchased separately. Blocks are supplied with a screw-in handle for insertion/removal. 2-year warranty.

	Technical specifications	
	SINGLE BLOCK	DUAL BLOCK
Operating temperature	5 °C above ambient to 150 °C	5 °C above ambient to 150 °C
Temperature increments	0.1 °C	0.1 °C
Temperature accuracy	± 0.2 °C	± 0.2 °C
Temperature uniformity	± 0.2 °C	± 0.2 °C
Temperature calibration	Yes	Yes
Timing capacity	0 – 999 mins	0 – 999 mins
Water bath volume	400 ml	800 ml
Display	Digital	Digital
Controller	Digital microprocessor	Digital microprocessor
Safety device	Leak-proof heating chamber	Leak-proof heating chamber
Power supply	220 V	220 V
Weight	2.1 kg	2.8 kg
Dimensions (W x D x H)	200 x 270 x 80 mm	200 x 290 x 80 mm



N2400-4001



 [www.starlab.click/drybaths](http://www.starlab.click/drybaths)

# Bath Beads.






[www.starlab.click/bathbeads](http://www.starlab.click/bathbeads)

## NEVER WASH OR REFILL A WATER BATH AGAIN!

Replace the water in your water bath with these thermally efficient pellets that hold tubes and other vessels in place without the need for racks or other accessories. Not only will bath beads eliminate the laborious maintenance that water baths bring – such as emptying, cleaning, monitoring and refilling – they also eliminate the need for racks, floaties and bottleneck weights.

- Eliminates the chances of water-borne contamination
- Gas impermeable
- High thermal conductivity
- Reduces your water consumption
- Can be washed, sterilised or autoclaved
- Compatible with standard, constant temperature water baths
- Broad temperature range
- Transfers dry heat and cold with high efficiency
- Accepts and supports any size and shape of vessel
- Washes and disinfects easily

Description	Art. No.
 Bath Beads, 0.5 L	N2400-4900
 Bath Beads, 4.0 L	N2400-4901
 Bath Beads, 12 L	N2400-4902

Suitable for use in standard, unstirred water baths only.

Technical specifications	
Temperature use range	-100 °C to 400 °C

# -86° C Underbench Freezer.



- Use as your personal -80 °C storage place
- Reduces heat and noise in your laboratory
- USB port for temperature logger
- No filter - maintenance free!
- 5-hour battery backup



[www.starlab.click/underbench-freezer](http://www.starlab.click/underbench-freezer)

## AND CHILL! AT LAST, A SMALL LAB FREEZER THAT'S AFFORDABLE

Store your samples in this space saving, eco-friendly unit directly under your lab bench. This freezer is a great choice if you are looking for a small, energy efficient freezer with a great storage capacity.

The freezer is compatible with a range of storage boxes and racks. To utilise storage capacity to the full, use one of the specially made stainless steel racks. The racks (available separately) fit perfectly inside the freezer and are available to hold 50 mm, 75 mm or 100 mm high storage boxes with a standard 133 x 133 mm footprint.







### Shelving.

U100 Freezer is supplied with two shelves.



### Stainless Steel Racking.

U100 Freezer shown with racking and storage boxes (sold separately) to utilise storage capacity perfectly!

Description	Art. No.
 Underbench Freezer	N2700-1000
Accessories	
 U100 Rack for 50 mm High Boxes, 74 places	N2700-1001
 U100 Rack for 75 mm High Boxes, 45 places	N2700-1002
 U100 Rack for 100 mm High Boxes, 33 places	N2700-1003

2-year warranty.

Technical specifications	
Temperature range	-60 °C to -86 °C
Power supply	220–240V, 50/60 Hz
Weight	65 kg
Dimensions (W x D x H)	595 x 585 x 825 mm



# Four-Channel Timer / Clock.



## TIMING IS EVERYTHING!

Timer/Clock with a large easy to read LED display. There are four channels on which cycles can be independently or simultaneously set. You can easily toggle between your pre-set channels and the clock, so you can keep on top of your experiments, or know when it's time for lunch!

- Allows four different timings simultaneously
- Alarm auto switch-off saves battery life
- Convenient bench stand and magnetic strip
- Large, easy to read display

Description	Art. No.
 Four Channel Timer / Clock	N9900-0001
 Calibration	C0003-0000

To receive the Timer pre-calibrated, you must order the Calibration (C0003-0000) on the same Purchase Order as your new Timer. 1-year warranty.

## NEED A CALIBRATED TIMER?

Simply order the pre-calibration of the Timer (C0003-0000) on the same Purchase Order as your new Timer (N9900-0001).

We will then know to calibrate the Timer prior to shipping, and will send the Timer to you with its Certificate of Calibration.



 [www.starlab.click/timer](http://www.starlab.click/timer)

Technical specifications	
Timing capacity	99 hours, 59 mins, 59 seconds
Timer	Count down / count up
Alarm	Audible (for 1 minute at end of cycle)
Clock	12 hour / 24 hour
Operating modes	4
Power	2 x LR44 batteries (included)
Dimensions (W x D x H)	73 x 13 x 59 mm

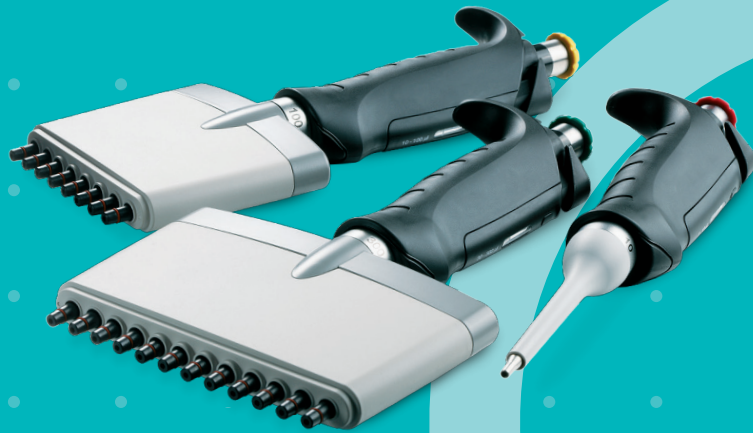


# The ErgoOne<sup>®</sup> pipette family.

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**Starlab International GmbH**

Neuer Höltigbaum 38  
22143 Hamburg  
Germany

T: +49 (0)40 675 99 39 0  
F: +49 (0)40 675 99 39 20  
info@starlab.de  
www.starlabgroup.com

**Starlab GmbH**

Neuer Höltigbaum 38  
22143 Hamburg  
Germany

T: +49 (0)40 675 99 39 0  
F: +49 (0)40 675 99 39 20  
info@starlab.de  
www.starlab.de

**Starlab (UK), Ltd**

5 Tanners Drive  
Milton Keynes MK14 5BU  
United Kingdom

T: +44 (0)1908 283800  
F: +44 (0)1908 283802  
infoline@starlab.co.uk  
www.starlab.co.uk

**Starlab France SARL**

30 Rue Jean Rostand  
91400 Orsay  
France

T: +33 (0)1 60 13 71 70  
F: +33 (0)1 69 41 48 65  
info@starlab.fr  
www.starlab.fr

**Starlab S.r.l.**

Via Pinturicchio 1  
20133 Milano  
Italy

T: +39 (0)2 7020 1040  
F: +39 (0)2 7020 1033  
info@starlab.it  
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NOTE: New faceplates shown on the covers of this brochure are not yet available to purchase.