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PEQettes – Single and Multi-channel Pipettes

The PEQette, a lightweight precision instrument, designed to survive the challenges of daily laboratory life! With much of the success of molecular biology being reliant on quality measurements, the PEQette uses premier quality materials and utilises over 20 years of practical design experience to supply accuracy, reliability and comfort time and time again.



HIGH QUALITY PRODUCTION

The PEQette is manufactured only from the highest quality of materials – pistons made from stainless high-grade steel or chemically resistant polymers and high quality, teflon seals.

Each PEQette is factory calibrated and undergoes extensive quality controls prior to shipping and that high level of calibration stability continues even after extensive use.

For local calibration control, including to comply with ISO/GLP regulations, each PEQette is supplied with a calibration key.



Pipette Carousel

ERGONOMIC DESIGN

The slim, streamlined design of the PEQette makes it one of the most comfortable pipettes on the market – for both right and left handed people. With its carefully constructed centre of gravity, the instrument feels just right even after long periods of use. Both the piston and the release button are easily accessible for the users thumb, not too tight, not too loose, just comfortable and effective, with an even piston pressure to reduce the risk of RSI (repetitive strain injury).

SIMPLE AND SAFE HANDLING

The PEQette was developed for a universal fit for the widest range of pipette tips including, of course, PEQLAB's own range of pipette tips which have been extensively validated on this range. The gently narrowing shaft facilitates an optimal seating for maximal accuracy and also ease of tip fitting and removal.

The pipette volume can be changed in two ways – either by turning the central barrel or by turning the top of the button. Either way, the volume adjustment is presented in a clear, easy to read manner.

COMPLETELY AUTOCLAVABLE

All PEQette models are resistant to UV radiation and are fully autoclavable without the need for dismantling so calibration is unaffected making them extremely easy to clean.

WIDE MODEL RANGE

The PEQette is available in both single and in multi-channel models. The single channel models range from 0.1 µl to 1000 µl in volume and the multi-channel models range from 1 µl to 200 µl in volume.

PEQpettes – Single and Multi-channel Pipettes

PEQpette – the newest generation of single and multi-channel pipettes.

Precision manufactured for high reproducibility and fully autoclavable making this a molecular biology tool of the highest level.



SPECIAL FEATURES

- Six single channel models ranging from 0.1 μ l to 1000 μ l
- Two eight channel models from 1 μ l to 200 μ l
- Manufactured from high precision materials
- Easy tip pick-up and ejection requiring only minimal effort
- Single-handed setting of volume via adjustment wheel or operating knob
- Large, easy to read display
- Lightweight and well balanced
- Completely autoclavable and resistant to UV irradiation
- Simple to calibrate with enclosed calibration key

TIP COMPATIBILITY

- Provides optimal seating and fit for an expansive range of tip types
- Perfectly suited for PEQLAB's tip range!

Model	Volume Range (μ l)	Accuracy (%)	Precision (%)
PEQpette Single Channel			
PEQpette 2E	0.1 – 2 μ l	\pm 1.2 to \pm 1.5	\leq 6.0 to \leq 0.7
PEQpette 10E	0.5 – 10 μ l	\pm 4.0 to \pm 0.5	\leq 2.8 to \leq 0.4
PEQpette 20E	2 – 20 μ l	\pm 3.0 to \pm 0.8	\leq 1.5 to \leq 0.3
PEQpette 100E	10 – 100 μ l	\pm 1.6 to \pm 0.8	\leq 0.8 to \leq 0.2
PEQpette 200E	20 – 200 μ l	\pm 1.2 to \pm 0.6	\leq 0.6 to \leq 0.2
PEQpette 1000E	100 – 1000 μ l	\pm 0.9 to \pm 0.6	\leq 0.4 to \leq 0.15
PEQpette 8 Channel			
PEQpette 10M	1 – 10 μ l	\pm 8.0 to \pm 2.0	\leq 6.0 to \leq 1.2
PEQpette 50M	5 – 50 μ l	\pm 4.0 to \pm 1.6	\leq 2.5 to \leq 0.6
PEQpette 200M	20 – 200 μ l	\pm 3.0 to \pm 1.0	\leq 1.5 to \leq 0.6

PRODUCT	DESCRIPTION	CAT. NO.
PEQpette 2E	Single Channel Pipette, 0.1 – 2 μ l	91-P3960-2
PEQpette 10E	Single Channel Pipette, 0.5 – 10 μ l	91-P3960-10
PEQpette 20E	Single Channel Pipette, 2 – 20 μ l	91-P3960-20
PEQpette 100E	Single Channel Pipette, 10 – 100 μ l	91-P3960-100
PEQpette 200E	Single Channel Pipette, 20 – 200 μ l	91-P3960-200
PEQpette 1000E	Single Channel Pipette, 100 – 1000 μ l	91-P3960-1000
PEQpette 10M	8 Channel Pipette, 1 – 10 μ l	91-P4608-10
PEQpette 50M	8 Channel Pipette, 5 – 50 μ l	91-P4608-50
PEQpette 200M	8 Channel Pipette, 20 – 200 μ l	91-P4608-200
Pipette Carousel	Stand for 6 Single Channel Pipettes	91-P3985

UV Sterilizing PCR Workstation

The PCR Workstation from PEQLAB is the premier workspace for performing biomolecular techniques sensitive to contamination. With its double contamination protection for both work surfaces and the circulating air, roomy construction, access to power supplies and extra-thickness construction, the PEQLAB PCR Workstation is a popular and thoughtfully designed product for the busy laboratory in need of PCR contamination control.



TOTAL CONTAMINATION CONTROL

- UV germicidal tube irradiates with 254 nm UV light to eliminate nucleic acid contamination within workstation
- UV sterilizing circulator module eliminates aerosol contaminants
- Simple, built-in 5 – 30 minute timer for ease of use
- UV sources approximately 1000 times more efficient than conventional UV sources

MAXIMUM UTILITY AND CONVENIENCE

- White light tube for optimal work surface illumination
- Unit top and work surface made of antimicrobial coated stainless steel
- Four pre-installed plug outlets
- Two optional shelves for storing tubes, containers and pipettes

ENHANCED SAFETY FEATURES

- Key protected operation to protect against accidental UV exposure
- UV light automatically shut off if unit is opened
- 9.5 mm acrylic enclosure effectively protects against UV and β -radiation

Technical Data

UV Sterilizing PCR Workstation

Outer dimensions	735 x 740 x 610 mm (L x H x D)
Electrical supply	220 V/50 Hz
White light sources	1 x internal, 15 Watt
UV light sources	2 x UV (254 nm) internal, 25 Watt 1 x UV (254 nm) in UV-Circulator, 25 Watt
UV Light timer	5 – 30 min

PRODUCT	DESCRIPTION	CAT. NO.
PCR Workstation	PCR Workstation with UV Light and Circulator	90-UV/PCR

PerfectSeal Heat Sealer

The PerfectSeal Heat Sealer is designed for rapid, secure and reproducible sealing of PCR plates, microplates and deep well plates.



PROTECT YOUR SAMPLES

Heat sealing protects precious samples from evaporation and contamination when performing PCR or when storing.

The PerfectSeal Heat Sealer is a well designed, modern piece of laboratory equipment offering secure and quick sealing of a wide range of plates including PCR plates, microplates and deep well plates.

The PerfectSeal Heat Sealer is manually operated and ideally suited for sealing single or batches of plates.

Variable temperature settings and the use of different plate adaptors accommodate the wide range of sealing foils and plate combinations.

By defining the sealing parameters of the system, plate sealing becomes more reproducible and dependable.

QUICK TO USE

- Tool free changing of different plate adaptors
- Previously used settings saved for re-use
- Intuitive menu navigation for temperature and time settings
- Temperature range between 125 °C and 200 °C
- Time range between 1 and 9 seconds
- Light handling through unique counter lever handle mechanism
- Automatic timer starts when the correct pressure is reached
- Audible signal at the end of the sealing process

PRODUCT FEATURES

- Flexible temperature and duration controls for optimal plate and foil sealing conditions
- Sound signal prevents over-sealing to further protect your sample
- Ergonomic counter lever handle mechanism provides high pressure sealing but light weight operation
- Rapid heating element for quick start up
- Plate adaptors available for a diverse range of plates

Technical Data

PerfectSeal 'Heat Sealer'

Temperature range	125 °C to 200 °C (in 1 °C increments)
Operating time	1 to 9 sec (in 0.5 sec increments)
Size (L x H x W)	220 x 321 x 425 mm
Weight	7.2 kg
Voltage	100 - 130 V or 220 - 240 V AC 50/60 Hz
Power	350 W max.

PRODUCT	DESCRIPTION	CAT. NO.
PerfectSeal Heat Sealer	heat sealing instrument without plate adaptor	91-6020
Plate adaptor 384-well/MTP	for 384 well PCR plates microplates and low volume deep well plates	91-6021
Plate adaptor 96-well PCR	for 96 well PCR plates	91-6022
Plate adaptor 'Deep-well'	for deep well plates	91-6023
Sealing Aid	to help the fixing of heat sealing foils	91-6025

Block Heaters HX-1 and HX-2

High-quality, thermostat controlled block heaters for the incubation of a wide range of reaction tubes up to 150 °C.



SPECIAL FEATURES

- Accurate microprocessor controlled heating up to 150 °C
- Target temperature or current temperature displayed on large, easy to read, LED display
- Simple up/down push button controls
- Water resistant control panel and screen

A WIDE RANGE OF HEATING OPTIONS

- Single (HX-1) or double (HX-2) block models
- Four standard blocks, for 0.2 ml to 2.0 ml tubes, plus blocks for plates, 1.5 ml, 15 ml and 50 ml tubes and centrifuge tubes available on request



Technical Data

Block Heaters HX-1 and HX-2

Temperature range	5 °C over environment temp to 150 °C
Temperature resolution	0.1 °C
Temperature homogeneity	± 0.2 °C
Temperature accuracy	± 0.3 °C
Casing construction	High-grade steel
Block construction	Aluminium
Dimensions (W x H x D)	200 x 83 x 265 mm
Weight	2.2 kg
Data communication	RS232
Electrical supply	230 V - 50 Hz

PRODUCT	DESCRIPTION	CAT. NO.
Block Heater HX-1	Digital block heater for single block ¹	91-D1100
Block Heater HX-2	Digital block heater for two blocks ¹	91-D1200
Heating Blocks ²	24 position block for 0.5 ml tubes	91-D105B
	24 position block for 1.5 ml tubes	91-D115B
	20 position block for 2.0 ml tubes	91-D120B
	48 position block for 0.2 ml tubes	91-D102B

¹No heating blocks are included ²Includes cover plate and block lifter

Thermo Shaker Incubator Thriller®

The Thriller thermo shaker incubator fulfils two important roles for molecular biology – heating samples and mixing samples. With a high quality peltier based construction seen in our thermal cyclers, the Thriller can cool down to 4 °C and heat to 99 °C with mixing intensity up to 1500 rpm.

The system also offers the flexibility of both simple, single button shaking and mixing or more advanced multi-step programming.



SPECIAL FEATURES

- Wide temperature range, wide range of shaking up to 1500 rpm
- High quality peltier construction for accurate temperature control
- Single button short mix or multi-step programming with up to 9 steps
- Mixing at intervals
- Samples can be cooled at end of incubation enabling overnight storage
- Short mix function
- Solid, stable and reliable construction
- 4 exchangeable thermo blocks for tubes and plates of different sizes

Technical Data

Thermo-Incubator Shaker Thriller®

Temperature range	+ 4 °C (at 20 °C room temperature conditions) to + 99 °C	
Temperature stability	± 0.5 °C	
Heating rate	approx. 5 °C/min	
Cooling rate	4 °C/min from 99 °C to 20 °C then 1 °C/min	
Mixing intensity	0 or 300 to 1500 rpm in steps of 50 rpm	
Mixing stroke	3 mm	
Programs	1 direct operation program (P0) 9 programs with 9 steps each (P1-P9)	
Maximum operation time	99 h 59 min	
Maximum mixing activity / pause (interval function)	99 min 59 sec	
Size (W x H x D)	190 x 190 x 325 mm	
Weight	5.7 kg without blocks	5.9 kg with blocks
Electrical Supply	230 V/60 Hz	
Power Requirements	125 Watt	

PRODUCT	DESCRIPTION	CAT. NO.
Thriller® ¹	Thermo shaker incubator	91-7010
Block	Block for up to 24 0.5 ml tubes	91-7110
	Block for up to 24 1.5 ml tubes	91-7111
	Block for up to 24 2.0 ml tubes	91-7112
	Block for up to 96 0.2 ml tubes	91-7113

¹) Blocks not included

Thermo Shaker TS-100

A simple yet effective platform for heating and cooling 0.5 ml and 1.5 ml tubes

SPECIAL FEATURES

- Microprocessor controlled time, temperature and shaking intensity
- Shaking range: 250 – 1400 rpm
- Vibration amplitude: 2 mm
- Temperature range: room temperature to 100 °C
- Operating duration: 1 min to 96 hours
- Simultaneous display of time, temperature and shaking intensity
- Back-lit display



PRODUCT	DESCRIPTION	CAT. NO.
Thermo-Shaker TS-100	Microprocessor controlled shaker and heater ¹⁾	90-TS-100
Block TS-SC-16	Heating block for 20 x 0.2 and 12 x 1.5 ml tubes	90-TS-SC-16
Block TS-SC-18	Heating block for 20 x 0.5 and 12 x 1.5 ml tubes	90-TS-SC-18
Block TS-SC-20	Heating block for 20 x 1.5 ml tubes	90-TS-SC-20
Block TS-SC-20N	Heating block for 20 x 2.0 ml tubes	90-TS-SC-20N

¹⁾ Block not included

Heating/Cooling Block Combi-Therm CH-100

A simple yet effective platform for heating and cooling 0.5 ml and 1.5 ml tubes

SPECIAL FEATURES

- Microprocessor controlled time, temperature and shaking intensity
- Timer with acoustic alarm
- Temperature range: -10 °C to 100 °C
- Accuracy: ± 0.1 °C
- Operating duration: 1 min to 96 hours
- Simultaneous display of target and actual temperature and shaking intensity
- Back-lit display



PRODUCT	DESCRIPTION	CAT. NO.
Combi-Therm CH-100	Combination heating and cooling system for 0.5 ml and 1.5 ml tubes	90-CH-100

PerfectBlot Hybridisation Oven

A remarkably flexible and cost effective platform for any laboratory, the PerfectBlot can accommodate multiple 150 mm or 300 mm bottles at temperatures up to 80 °C. Further accessories can make the PerfectBlot useful as a rocker device for oversized culture bottles and if space is of a premium, two PerfectBlot systems can be stacked on top of each other.



SPECIAL FEATURES

- Capacity: 24 small (150 mm) or 12 large (300 mm) bottles
- Precise microprocessor-controlled temperature control for successful and reproducible results
- Temperature range up to 80 °C
- Variable rotation speed between 4 and 20 rpm
- Rotisserie and two large bottles (300 x 35 mm) included

Technical Data

Hybridisation Oven PerfectBlot

Temperature range	5 °C over ambient temperature to + 80 °C
Temperature uniformity	± 0.5 °C
Temperature display	3 numbers LED 0.1 °C display
Rotation speed	Variable 4 to 20 rpm
Rotor capacity	12 large/24 small hybridisation bottles (300 x 35 mm/150 x 35 mm)
Rack	Rotisserie
External dimensions (W x H x D)	483 x 495 x 445 mm
Internal dimensions (W x H x D)	368 x 343 x 279 mm
Weight	26.8 kg
Electrical Supply	230 V/50 – 60 Hz

PRODUCT	DESCRIPTION	CAT. NO.
PerfectBlot Hybridisation Oven	Hybridisation oven for up to 24 bottles including a rotisserie for small and large bottles (150 x 35 mm, 300 x 35 mm) and 2 large bottles (300 x 35 mm)	91-5510
Rotisseries	for 50 ml disposable tubes	91-5511
	for oversized hybridisation bottles (300 x 70 mm)	91-5513
Rocking Platform	Rocker Speed 8 – 40 /min ¹	91-5512
Hybridisation bottles	150 x 35 mm	91-5112
	300 x 35 mm	91-5113
	300 x 70 mm	91-5114

MINI-VAC Vacuum Pump POWER & ECO

Silent, efficient and eternally useful, the newest generation of the MINI-VAC has numerous uses in the laboratory from removing unwanted liquids from culture solutions to cell suspensions and purification plates, saving time and improving working conditions.

The MINI-VAC is supplied in two models, the ECO and the more powerful POWER model, both operated with a simple turn dial. Liquids are collected in a high quality re-usable polypropylene bottle for disposal or autoclaving. With its new sound proofing, the MINI-VACs are particularly quiet to run.



SPECIAL FEATURES

- For the simple and effortless removal of liquids and media
- Small, compact design but with a sturdy bottle cage
- Highly effective sound absorption for silent operation

Two models are available – the cost effective 18 W ECO model is perfectly suited for day to day laboratory use while the POWER model, with its enhanced 60 W vacuum pump, produces down to -880 mbar pressure making it suitable for use for vacuum filtration.

TECHNICAL DATA

- Electrical vacuum pump with stepless power adjustment
- Suction power 800 mbar, MINI-VAC POWER, and up to 220 mbar, MINI-VAC ECO, below atmospheric pressure
- Suitable for use – 20 °C and + 50 °C
- Electrical power 60 W, MINI-VAC POWER, and 18 W, MINI-VAC ECO
- System footprint only 213 x 280 mm

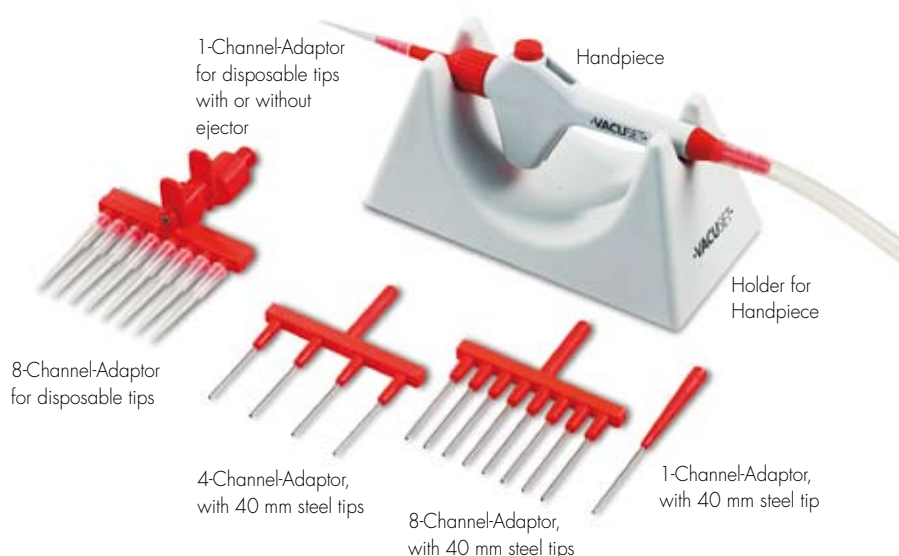
SYSTEM DETAILS

- The system uses an integrated electrical vacuum pump and power cable
- Stepless control
- VACUShield PTFE guard filter to prevent liquid overflow into the system
- MINI-VAC PEN™ for connection to plastic pipette points
- Autoclavable 2000 ml polypropylene bottle and cap
- Hose set

PRODUCT	DESCRIPTION	CAT. NO.
MINI-VAC ECO	Vacuum pump ECO	90-6030
MINI-VAC POWER	Vacuum pump POWER with stronger vacuum	90-6050

Accessories for MINI-VAC Vacuum Pump POWER & ECO

VACUSET accessories really bring the MINI-VAC to life, making it more versatile and quicker to use for a wider range of sample containers. With a lightweight hand-held unit, the accessories include a single channel tip pen, a fixed single channel pen and a series of 4 and 8 channel accessories ideal for use with microtitre or 96 well plates.



SPECIAL FEATURES

- For use with different container formats including single containers and high density plates
- Securely fixes to hand-unit for stability sealing of a wide range of plates including PCR plates, microplates and deep well plates

ACCESSORIES AVAILABLE

- 1-Channel-Adaptor, with 40 mm steel tip
- 1-Channel-Adaptor, with 150 mm steel tip
- 1-Channel-Adaptor, with 280 mm steel tip

- 1-Channel-Adaptor for disposable tips with or without ejector
- 4-Channel-Adaptor, with 40 mm steel tips
- 8-Channel-Adaptor, with 40 mm steel tips
- 8-Channel-Adaptor for disposable tips

PRODUCT	DESCRIPTION	CAT. NO.
VACUSET Multi-Tip Kit	Handpiece with stand, 8 channel tip for pipette tips with 90-6110 tip-ejector, 1 channel tip for pipette tips, 8 channel tip with 40 mm steel tube, 1 channel tip with 40 mm steel tube, 4 channel tip with 40 mm steel tube, silicone tube and rubber adapter for Pasteur pipettes	90-6110
VACUSET 1-Channel Kit	Handpiece, 1 channel tip for pipette tips with tip-ejector, silicone tube and rubber adapter for Pasteur pipettes	90-6120
VACUSET 8-Channel Kit	Handpiece with stand, 8 channel tip for pipette tips with tip-ejector, silicone insert to hold Pasteur pipette and 2 ml pipette, silicone tube	90-6130
MINI-VAC PEN™	Plastic tip for plastic pipette tips, with tubing	90-6140
1-Channel with Tip ES 40	With fixed steel tip, 40 mm long	90-6210
1-Channel with Tip ES 150	With fixed steel tip, 150 mm long	90-6211
1-Channel with Tip ES 280	With fixed steel tip, 280 mm long	90-6212
1-Channel with Tip P	For use with disposable pipette tips without ejector	90-6213
1-Channel with Tip PmA	For use with disposable pipette tips with tip-ejector	90-6214
4-Channel with Tip ES	With fixed steel tip, 35 mm long	90-6240
8-Channel with Tip ES	With fixed steel tip, 35 mm long	90-6280
8-Channel with Tip PmA	For use with disposable pipette tips with tip-ejector	90-6281
Handpiece	Handpiece with control valve	90-6310

A range of other parts including seals, stands and hoses are available on request.

PerfectSpin P Plate Centrifuge

- Compact and economical centrifuge for PCR plates
- Fits neatly on the work bench
- Capacity for 2 PCR plates



The PerfectSpin P is an ingenious system designed for quick and easy centrifugation of PCR plates.

Replacing bulky PCR plate spinners that occupy valuable lab space, the PerfectSpin P is a compact system with an extremely small footprint that fits neatly on the work bench.

Simple to use, just load the PCR plates through the slots in the top. The plates sit vertically but with the conical wells of the plates and liquid surface tension, the sample is kept in place.

Quick spin, and your sample is concentrated at the bottom of the plate.

SPECIAL FEATURES

- Space saving centrifuge for two PCR plates
- Quick spin down of droplets and condensation
- For use before and after thermal cycling to improve PCR yield
- Accepts skirted, non-skirted and all standard PCR plates
- Less than ¼ the size of most plate spinners
- Maximum speed of 2500 rpm (500 x g)
- Automatic start/stop of the run based on closing/opening the lid
- May be used in a cold room for temperature sensitive applications

Technical Data

Technical Data	PerfectSpin P
Capacity: 2 PCR plates	2 PCR plates
Speed:	2500 rpm (500 x g)
Rotor:	Fixed vertically
Ambient operating range:	4 °C to 35 °C
Dimensions:	235 x 216 x 293 mm (W x H x D)
Weight:	3 kg



PRODUCT

PerfectSpin P

DESCRIPTION

Centrifuge for 2 PCR plates

CAT. NO.

91-PSPIN-P

Digital Microcentrifuge PerfectSpin 24

With its near silent running and low heat output, the PerfectSpin 24 is a high quality microcentrifuge suitable for 1.5 ml and 2.0 ml reaction tubes. The system offers rapid acceleration times, up to a maximum speed of 13,300 rpm (16,300 x g) and a thoughtfully designed method of operation with clear to read displays and ergonomic rotor design for quick and easy loading and unloading.

SPECIAL FEATURES

- Minimal noise output
- Easy rotor access to add or remove tubes
- Effective heat dissipation with innovative ventilation system
- Two clear to read LED displays showing time and rotation speed
- Maintenance free and competitively priced



Technical Data	PerfectSpin 24
Rotation speed	500 - 13.300 rpm (16.300 x g)
Rotor capacity	24 x 1.5 ml/2.0 ml tubes
Timer	0 - 30 min
Operating temp. / humidity	0 °C to 40 °C – 80 % RH
External dimensions (L x H x D)	235 x 216 x 293 mm
Weight	8.1 kg

PRODUCT	DESCRIPTION	CAT. NO.
PerfectSpin 24	Digital microcentrifuge incl. rotor for 24 x 1.5 or 2.0 ml tubes	91-PSPIN-24
Rotor adaptors	for 0.2 ml reaction tubes, 6 pieces	91-PSPIN-A02
	for 0.5 ml reaction tubes, 6 pieces	91-PSPIN-A05
	for 0.2 ml 8 Tube Strips	91-PSPIN-AS

PerfectSpin 24 R Refrigerated Microcentrifuge

More compact, quicker to cool and quieter than other available systems, the excellent PerfectSpin 24 R is an easy to use and very effective microcentrifuge with built in refrigeration.

The 24 R, with its quick cool system, enables rapid cooling to 4 °C in only 8 minutes and its well laid out design, enables easy access to samples.

- Quick Cool cools the PerfectSpin 24 R from room temperature down to 4 °C in only 8 minutes saving you long waiting times
- Minimal noise output and compact design
- Easy access to sample tubes
- Maintenance free and competitively priced
- Flexible due to optionally available rotor adaptors¹⁾



Technical Data	PerfectSpin 24 R
Rotation speed	500 - 13.500 rpm (17.135 x g)
Rotor capacity	24 x 1.5 ml/2.0 ml tubes
Temperature range	-10 °C to 40 °C
Timer	0.5 - 99 minutes or constant
External dimensions (L x H x D)	277 x 248 x 450 mm
Weight	20 kg

PRODUCT	DESCRIPTION	CAT. NO.
PerfectSpin 24 R	refrigerated microcentrifuge incl. rotor for 24 x 1.5 or 2.0 ml tubes	91-PSPIN-24R

¹⁾ Optionally available rotor adaptors see PerfectSpin 24

Table Centrifuge Combispin FVL-2400N with Vortex

A compact and economic table-top centrifuge supplied with three rotors and integrated Vortex mixer.



SPECIAL FEATURES

- Supplied with three exchangeable rotors (12 x 1.5 ml or 2.0 ml tubes, 12 x 0.2 ml and 0.5 ml tubes or 2 x eight tube strips)
- Continuous operation and Short Spin mode
- Autostop when cover is opened
- Integrated vortex mixer in central axle
- Maximum number of revolutions: 2400 rpm (700 x g)

PRODUCT	DESCRIPTION	CAT. NO.
Combispin FVL-2400N	Combination table microcentrifuge and vortex	90-FVL-2400N

Personal BioVortex V-1 plus

A powerful and well priced compact vortex mixer for shaking liquids in a wide range of containers.



SPECIAL FEATURES

- For vortex mixing liquids in 1.5 ml to 50 ml containers
- Maximum mixing capacity: 30 ml
- Continuous operation or impulse activation
- Speed range between 250 rpm and 3000 rpm
- Anti-slip suction feet
- Weight: 1.1 kg

PRODUCT	DESCRIPTION	CAT. NO.
Personal Bio-Vortex V-1 plus	Vortex for continuous or immediate sample mixing	90-V-1

Tilting Table Mini Rocker MR-1

A compact tilting table for gentle sample mixing.

SPECIAL FEATURES

- Ideally suited for the colouring or decolouring of gels as well as incubations and wash steps within blotting protocols
- Rocker movement: 7.5 to 30 rpm
- Rocker angle: 7 °
- Timer: 1 min to 24 h
- Temperature tolerance: 5 °C to 40 °C
- Maximum loading: 0.5 kg
- Mass platform (mm): 200 x 200
- Size (L x H x D):
220 x 120 x 205 mm
- Weight: 2.0 kg



PRODUCT	DESCRIPTION	CAT. NO.
Mini-Rocker MR-1	Mini rocking table with 7 ° tilt	90-MR-1

Programmable Mixer-Shaker-Rotator Bio-RS-24

A compact instrument that produces a shaking motion by forwards and backwards tilting of a plate.

SPECIAL FEATURES

- Fully programmable forward, backwards and shaking patterns
- Suitable for 1.5 ml, 2.0 ml and 15 ml reaction vessels
- Rotation speed: 1 - 100 rpm
- Digital timer: 0 to 24 h
- Simple, push button controls
- Background lit LCD display
- Size (L x H x D):
310 x 110 x 175 mm
- Weight: 1.8 kg



PRODUCT	DESCRIPTION	CAT. NO.
Shaker Rotator Bio-RS-24	Programmable rotating mixer and shake	90-BIO-RS-24

Orbital Shaker OS-10

A versatile, compact orbital shaker with fully adjustable safety arms making it suitable for beakers or containers of variable volume and shape.

SPECIAL FEATURES

- Universal vibrating platform with rubber mat base
- 3 safety arms for fixing different container types
- Programming time: 1 min to 96 h
- Rotation: 50 rpm to 350 rpm
- Rotation amplitude: 10 mm
- Max. loading: 3.0 kg
- Platform size: 285 x 215 mm
- Weight: 4.7 kg
- Size (L x H x D): 270 x 85 x 260 mm



OPTIONAL AVAILABLE PLATFORMS

- Platform with clamps for 100 ml flasks (250 x 190 mm)
- Platform with clamps for 250 ml flasks (250 x 190 mm)
- Platform with skid-proof rubber mat for Petri plates or cell culture bottles (220 x 220 mm)

PRODUCT	DESCRIPTION	CAT. NO.
Orbital Shaker OS-10	Orbital shaker with adjustable arms	90-OS-10

Orbital Shaker Multi PSU-20

A robust and highly capable orbital shaker with three different mixing modes to accommodate up to 8 kg load.

SPECIAL FEATURES

- Universal vibrating platform with rubber mat base
- 4 safety arms for fixing different container types
- Flexible programming
- Maximum loading: 1.5 kg
- Platform size (L x D): 460 x 400 mm
- Size (L x H x D): 485 x 140 x 520 mm
- Weight: 13.5 kg
- Different vibration modes: Orbital, reciprocal orbital, vibration



PRODUCT	DESCRIPTION	CAT. NO.
Orbital Shaker Multi PSU-20	Large orbital shaker with adjustable arms	90-PSU-20

Incubation Shaker OS Incubator ES-20

A compact bench top vibrating shaker with a circulating air heated cabinet.

SPECIAL FEATURES

- Heated chamber from room temperature to 42 °C
- Programming time: 1 min to 96 h
- Rotation speed: 50 rpm to 250 rpm with Soft Start
- Rotation amplitude: 10 mm
- Universal vibrating platform with rubber mat base
- 3 safety arms for fixing different container types
- Further platforms and clamp options available



- Max. loading: 2.5 kg
- Platform size (L x H x D): 285 x 215 mm
- Unit size (L x H x D): 340 x 340 x 435 mm
- Weight: 15.0 kg

PRODUCT	DESCRIPTION	CAT. NO.
OS Incubator ES-20	Incubation Shaker with heating chamber	90-ES-20

Water Bath WB-4MS

Made with a high grade steel water basin, this compact water bath offers a high level of accuracy and an integrated magnetic mixer to gently circulate the water.

SPECIAL FEATURES

- Temperature range: 25 °C to 100 °C
- Magnet mixer: 300 to 1000 rpm
- Temperature homogeneity: ± 0.1 °C (with connected magnet agitator)
- Bath volume: 4000 ml
- Power: 600 W
- Weight: 3.6 kg
- Size (L x H x D): 350 x 175 x 250 mm



PRODUCT	DESCRIPTION	CAT. NO.
Water Bath WB-4MS	Thermostat controlled water bath	90-WB-4MS

Radiation Cassettes Type G

Sturdy but lightweight cartridges for exposing radiographic film.



Used in the production of autoradiogram, these light-tight, high quality cassettes are suitable for DNA sequencing, colony and *in situ* hybridisation, phage and DNA screening in addition to a range of blotting techniques.

SPECIAL FEATURES

- Absolute light-tight
- Classic plate latch – easy to operate in the dark!
- Even contact pressure across the plate
- High quality aluminium construction with riveted cover
- Suitable for long exposures at $-70\text{ }^{\circ}\text{C}$

TECHNICAL DATA

- Depth: 14.5 mm
- Framework: Aluminium
- Hinges: Aluminium
- Casing: Injection moulded plastic
- Front: Aluminium, plastic-coated
- Back: Aluminium, plastic-coated
- Padding: polyethylene foam

PRODUCT	SIZE	CAT. NO.
Radiation Cassette Type G	13 x 18 cm	92-1318
	18 x 24 cm	92-1824
	18 x 43 cm	92-1843
	20 x 40 cm	92-2040
	20 x 60 cm	92-2060
	20 x 80 cm	92-2080
	24 x 24 cm	92-2424
	24 x 30 cm	92-2430
	30 x 40 cm	92-3040
	30 x 60 cm	92-3060
	30 x 80 cm	92-3080
	30 x 90 cm	92-3090
	35 x 35 cm	92-3535
	35 x 43 cm	92-3543
	40 x 40 cm	92-4040

Radiation Cassettes Type GR

Designed to the same high quality as the Type G range but with a deeper interior making these cassettes suitable for use with thicker gels or protein gels held in glass plates.

TECHNICAL DESCRIPTION

- Framework: Aluminium
- Hinges: Aluminium
- Casing: Injection moulded plastic
- Front: Aluminium, plastic-coated
- Back: Aluminium, plastic-coated
- Padding: polyethylene foam

PRODUCT	SIZE	CAT. NO.
Radiation Cassette Type GR	13 x 18 cm	93-1318
	18 x 24 cm	93-1824
	18 x 43 cm	93-1843
	20 x 40 cm	93-2040
	20 x 60 cm	93-2060
	20 x 80 cm	93-2080
	24 x 30 cm	93-2430
	30 x 40 cm	93-3040
	30 x 60 cm	93-3060
	30 x 90 cm	93-3090
	35 x 35 cm	93-3535
	35 x 43 cm	93-3543
	40 x 40 cm	93-4040

Radioactive Amplification Foils – Special 200

Calcium tungsten foils for the amplification of weak radioactive signals including ^{32}P . These foils are available in a range of sizes matching the type G or type GR cartridges. By transforming β radiation into blue light, signals as measured on radiographic films can be enhanced.

PRODUCT	SIZE	CAT. NO.
Radioactive Amplification Foils (1 Pair)	13 x 18 cm	94-1318
	18 x 24 cm	94-1824
	18 x 43 cm	94-1843
	20 x 40 cm	94-2040
	20 x 60 cm	94-2060
	20 x 80 cm	94-2080
	24 x 24 cm	94-2424
	24 x 30 cm	94-2430
	30 x 40 cm	94-3040
	30 x 60 cm	94-3060
	30 x 90 cm	94-3090
	35 x 35 cm	94-3535
	35 x 43 cm	94-3543
	40 x 40 cm	94-4040