

	Page
CO₂ Incubators	3
CO₂ Incubators with integrated orbital shakers	4
Incubator with integrated orbital shaker	5
“MiniCell”™ - small portable CO₂ incubator	3
Multi functional work stations for general cell culture / stem cell research	2
Multi and combination shaker	7
Orbital shakers with optional separate remote controller	7
Shaker accessories	8
Shaking incubators with or without cooling function	6
Vacuum evaporator	2
Vortex mixer	5
Water baths – also with shaking feature	see below

Water Baths also with shaking feature

Water baths for general application

- Temperature range: 5 °C above ambient to 99 °C (±0.5 °C at 37 °C)
- Convenient adjustment of water level with engraved level scale
- Heater located underneath the water chamber
- LED display for temperature, time, and power failure
- Supplied with flat bath cover
- water capacities: 10 l



Shaking Type



NB-303

Water baths with shaking feature

Specifications of water bath:

- Temperature range: 5 °C above ambient to 80 °C (±0.3 °C at 37 °C)
- Heater located underneath the water chamber
- LED display for temperature, speed, time, and power failure
- Supplied with spring wire rack
- No bath cover included (can be ordered separately, see below)



Shaking Type



NB-304

Specifications of shaker:

- Shaking speed: 30 to 200 rpm, orbital diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Brushless DC motor for low noise level and reduced vibration
- 2 different motions: orbital (NB-303) or reciprocal (NB-304)

Cat. No.	Description
NB-301	Water bath , with flat cover, max. 10 l, external/internal dimensions (w x d x h): 270/240 x 345/300 x 225/150 mm
NB-303	Water bath with orbital shaking feature , with spring wire rack, max. 10 l, <u>without</u> cover (available separately, see below), external dimensions (w x d x h): 310 x 345 x 260 mm
NB-304	Water bath with reciprocal shaking feature , with spring wire rack, max. 10 l, <u>without</u> cover (available separately, see below), external dimensions (w x d x h): 310 x 345 x 260 mm
3034BC12	Gable cover for NB-303 and NB-304

Vacuum Evaporator

- Infrared glass lid spreads heat and infrared radiation to reduce time required for evaporation of samples using vacuum e.g. for DNA or RNA samples
- Easy control of sample without stopping spin by using the real scope
- Temperature range: 35 °C to 65 °C (0.1 °C increments)
- 3 selectable rotation speeds: 1700, 2500, or 5000 rpm
- LED display for temperature and timer
- Vacuum pump and glass trap are built-in
- Optional cold trap available



Cat. No.	Description
NB-503CIR	Vacuum evaporator , with real scope for sample observation, dimensions (w x d x h): 213 x 255 x 225 mm, <u>no rotor supplied</u> (has to be ordered separately, please see below)
503-0524	Rotor for 50 x 0.5 ml tubes
503-1524	Rotor for 24 x 1.5 ml tubes
503-10016	Rotor for 16 x 10 ml tubes
503-15012	Rotor for 12 x 15 ml tubes
503-30008	Rotor for 8 x 30 ml tubes

Multi Functional Workstations for Cell Isolation or Cell Handling

Reduces the possibility of contamination since multiple operations can be performed with one equipment.

The following features are included:

Laminar air flow cabinet:

- 2 x HEPA filter (99.99 % efficiency on particles of 0.3 µm)
- 2 x UV sterilization lamps (each 20 W)

Shaking incubator:

- Temperature range: 5 °C above ambient to 60 °C
- Shaking speed: 30 to 300 rpm; orbital diameter: 22 mm
- Platform size: 250 x 310 mm
- LED display
- Timer: up to 99 h 59 min, or continuous operation

Centrifuge:

NB803MS with swing rotor

- Max. speed: 5000 rpm
- For up to 32 x 15 ml tubes
- Timer: up to 100 hours, or continuous operation

NB803MSF, centrifuge with cooling function and swing rotor

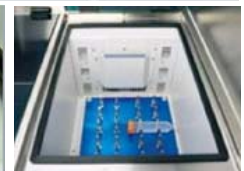
- Temperature range: - 5 °C to 60 °C
- Max. speed: 5500 rpm
- For up to 32 x 15 ml tubes
- Timer: up to 99 h 59 min, or continuous operation

NB803MS and NB803MSF supplied with foot pedals to start and stop centrifuge and shaking incubator.

Optional accessories on request.



centrifuge



shaking incubator

Cat. No.	Description
NB-803MS	Multi functional workstation , with laminar air flow cabinet, shaking incubator, and centrifuge, chamber dimensions (w x d x h): 800 x 650 x 620 mm, overall dimensions (w x d x h): 900 x 790 x 1920 mm
NB-803MSF	Multi functional workstation , with laminar air flow cabinet, shaking incubator, and centrifuge with cooling function, chamber dimensions (w x d x h): 1200 x 600 x 620 mm, overall dimensions (w x d x h): 1200 x 825 x 1920 mm

MiniCell™ - Small Portable Incubator also with CO₂-Control

- Compact incubator with carrying handle for easy transport (weight: 6.8 kg)
- External (internal) dimensions (w x d x h):
292 x 333 x 433 mm (224 x 200 x 340 mm)
- Temperature range: 10 °C below ambient to 45 °C (± 0.25 °C at 37 °C)
- Cooling and heating by Peltier system for low-noise operation
- User friendly digital control with LED display
- Excellent temperature uniformity
- Supplied with:
 - Water tray for natural humidity up to 80 %
 - 2 stainless steel shelves (max. 3 shelves can be fitted)
 - Connection cable to use MiniCell™ in car



For NB-203M only:

- CO₂ range: 0 to 20 % (infrared sensor); CO₂ accuracy: ± 0.1 % at 5 %

Cat. No.	Description
NB-201M	MiniCell™ incubator , capacity: 15.2 l
NB-203M	MiniCell™ CO₂ incubator , capacity: 15.2 l
203M-Hole	Access-Port (12 mm diameter) with stopper (has to be ordered with unit, cannot be fitted later into existing units)
203M-Shelf	Additional stainless steel shelf

CO₂ Incubators

- Temperature range: 5 °C above ambient to 60 °C (± 0.25 °C at 37 °C)
- CO₂ range: 0 to 20 % (infrared sensor); CO₂ accuracy: ± 0.1 % at 5 %
- Stackable units (optionally available stacking kit required, see below) with LED display
- Stainless steel interior and shelves (perforated)
- Double door: compact outer door and clear tempered glass inner door
- Supplied with water tray for natural humidity
- Heated door prevents condensation on glass door
- Incubators without access port, feature has to be ordered separately
- Optional features on request – please contact us for details:
 - Hot air decontamination
 - Cooling function (Peltier)
 - Humidity control or display only
 - O₂-control
 - Copper interior instead of stainless steel
 - Split inner glass door
 - 25 mm Access Port on left side
- Volume, external (internal) dimensions (w x d x h):

- NB-203:	42 l	408 x 482 x 550 mm	(320 x 350 x 370 mm)
- NB-203XL:	179 l	560 x 665 x 945 mm	(473 x 528 x 710 mm)
- NB-203XXL:	850 l	820 x 950 x 1840 mm	(698 x 799 x 1528 mm)



Cat. No.	Description
NB-203	CO₂ incubator , supplied with 2 shelves (max. 4 shelves usable), capacity: 42 l
NB-203XL	CO₂ incubator , supplied with 3 shelves (max. 8 shelves usable), capacity: 179 l
NB-203XXL	CO₂ incubator , supplied with 3 shelves (max. 15 shelves usable), capacity: 850 l

Optional accessories

203-SH	Shelf for NB-203, perforated
203XL-SH	Shelf for NB-203XL, perforated
203XXL-SH	Shelf for NB-203XXL, perforated
203-STAKIT	Stacking Kit for NB203
203XL-STAKIT	Stacking Kit for NB203XL

“Anicell” – Large CO₂ Incubators with integrated orbital shakers

Specifications of incubator:

- Temperature range: 5 °C above ambient to 60 °C (± 0.25 °C at 37 °C)
- CO₂ range: 0 to 20 % (infrared sensor); CO₂ accuracy: ± 0.1 % at 5 %
- HEPA filter
- Outer door with magnetic lock
- Built-in UV lamp (4 W) with on/off switch on incubator's outside control panel
- Microprocessor controlled incubator and shaker
- Volume, external (internal) dimensions (w x d x h):
 - NB-206CXL: 650 l 820 x 780 x 1740 mm (700 x 650 x 1430 mm)
 - NB-206CXXL: 850 l 820 x 920 x 1840 mm (700 x 800 x 1530 mm)
- Interior divided into 2 or 3 compartments
- A separate inner door made of tempered safety glass per compartment
- 1 orbital shaker per compartment (2 or 3 shakers in total); each with individual control and pull out platform for easy access
- Dimensions of compartments (w x d x h):
 - NB-206CXL: bottom compartment: 700 x 650 x 430 mm
 - top and middle compartment: 700 x 650 x 380 mm
 - NB-206CXXL: all 3 compartments: 700 x 780 x 410 mm



Specifications of integrated orbital shaker (NB-101M):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 200 rpm (± 1 rpm) or 30 to 250 rpm (± 1 rpm); Orbit diameter: 25 mm
- Timer: up to 48 hours, or continuous operation
- Dimensions of shaker (w x d x h): 465 x 520 x 125 mm; dimensions of platform: 520 x 520 mm
- Automatic stop/restart function if inner door is opened/closed
- A sticky mat and various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.

Cat. No.	Description
NB-206CXL	“Anicell”, large CO ₂ incubator, with 3 orbital shakers, capacity: 650 l
NB-206CXXL	“Anicell”, large CO ₂ incubator, with 3 orbital shakers, capacity: 850 l

CO₂ Incubator with 2 integrated orbital shakers

Specifications of incubator:

- Temperature range: 5 °C above to 50 °C (± 0.25 °C at 37 °C)
- CO₂ range: 0 to 20 % (infrared sensor); CO₂ accuracy: ± 0.1 % at 5 %
- LED display
- Excellent uniformity of CO₂, temperature and humidity
- Natural humidification using water tray on bottom of chamber
- Microprocessor controlled incubator and shaker with external control panel
- Volume, external (internal) dimensions (w x d x h):
 - NB-206CL: 179 l 560 x 665 x 945 mm (473 x 528 x 710 mm)



NB-206CL

Specifications of integrated orbital shakers (NB-101S):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 200 rpm (± 1 rpm)
- Orbit diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Platform size: 300 x 330 mm
- Optional platform to enable switch between orbital and reciprocal motion available (see page 8)
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.

Cat. No.	Description
NB-206CL	CO ₂ Incubator with 2 integrated orbital shakers, capacity: 179 l 1 inner glass door / not divided

CO₂ Incubators with 1 integrated orbital shaker

Specifications of incubator:

- Temperature range: 5 °C above to 60 °C (± 0.25 °C at 37 °C)
- CO₂ range: 0 to 20 % (infrared sensor); CO₂ accuracy: ± 0.1 % at 5 %
- LED display
- Microprocessor controlled incubator and shaker with external control panel
- Volume, external (internal) dimensions (w x d x h):
 - NB-203QS: 179 l 560 x 665 x 945 mm (473 x 528 x 710 mm)

Specifications of integrated orbital shaker (NB-101S):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm (± 1 rpm); Orbit diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Optional platform to enable switch between orbital and reciprocal motion available (see page 8)
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.



Cat. No.	Description
NB-203QS	CO₂ Incubator with integrated orbital shaker , supplied with 1 shelf and 1 orbital shaker, basic platform: 300 x 330 mm, capacity: 179 l

Incubator with 1 integrated orbital shaker

Specifications of incubator:

- Temperature range: 5 °C above ambient to 60 °C (± 0.25 °C at 37 °C)
- LED display
- Microprocessor controlled incubator and shaker
- Window on outer door to observe sample
- Automatic stop when door is opened
- Volume, external (internal) dimensions (w x d x h):
 - NB-205Q: 142 l 545 x 545 x 870 mm (480 x 435 x 694 mm)

Specifications of integrated orbital shaker (NB-101S):

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm (± 1 rpm), Orbit diameter: 22 mm
- Timer: up to 48 hours, or continuous operation
- Platform size: 300 x 330 mm
- Optional platform to enable switch between orbital and reciprocal motion available (see page 8)
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.



Cat. No.	Description
NB-205Q	Incubator with integrated orbital shaker , supplied with 2 shelves and 1 orbital shaker, capacity: 142 l

Vortex Mixer

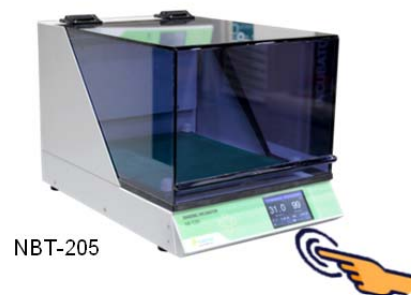
- Small, compact vortex mixer
- Adjustable from 0 to 3000 rpm
- Operation mode: on touch or continuous
- Different accessories available



Cat. No.	Description
NB-105V	Vortex Mixer , including rubber mixing cup, dimensions (w x d x h): 130 x 155 x 155 mm

Benchtop Shaking Incubators with Touch Screen NEW

- Clear cover opening upwards
- Temperature range: 5 °C above ambient to 60 °C (± 0.25 °C at 37 °C)
- Microprocessor controlled incubator and shaker
- Brushless DC motor for low noise level and reduced vibration
- Orbital movement (\varnothing 22 mm)
- Shaking speed: 30 to 300 rpm (± 1 rpm)
- Timer: up to 99 h 59 min, or continuous operation
- Automatic shaking stop when door is opened
- User-friendly and intuitive LCD Touch Screen
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- Various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.



Cat. No.	Description
NBT-205	Mini shaking incubator with touch screen, external dimensions (w x d x h): 285 x 400 x 290 mm, basic platform: 250 x 310 mm, unit height with open door: approx. 680 mm
NBT-205L	Shaking incubator with touch screen, external dimensions (w x d x h): 510 x 600 x 470 mm, basic platform: 450 x 450 mm

Shaking incubators with cooling function

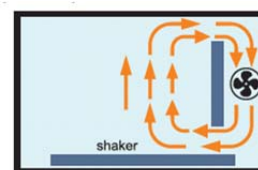
General features

- Brushless DC motor for low noise level and reduced vibration
- Shaking speed: 30 to 300 rpm (± 1 rpm), orbital diameter: 22 mm
- Timer: up to 99 h 59 min,, or continuous operation
- Automatic shaking stop when door is opened
- Unit not supplied with platform, has to be ordered separately (see page 8)
- Various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.



Benchtop incubator NBT-205LF

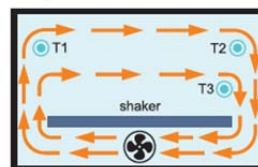
- Large benchtop unit with clear cover that opens upwards
- Temperature range: 12 °C below ambient to 60 °C (± 1 °C at 37 °C)
- Minimum temperature: 4 °C (at 16 °C)
- Uniform temperature inside, built-in CFC-free compressor
- Defrosting system for long lasting cooling power
- User-friendly and intuitive LCD Touch Screen



Typical Shaking Incubator

Floor standing incubator NB-205V

- Viewing window in the door (door opens upwards)
- Temperature range: 4 °C to 60 °C (± 0.25 °C at 37 °C)
- Microprocessor controlled, LED display, stainless steel chamber
- Uniform temperature inside, built-in compressor
- Optional feature on request: illumination system



N-BIOTEK (NB-205V)

Cat. No.	Description
NBT-205LF	Benchtop shaking incubator with cooling feature and touch screen, <u>without platform</u> , unit dimensions (w x d x h) 550 x 790 x 555 mm
NB-205V	Floor standing incubator with cooling feature, <u>without platform</u> , unit dimensions (w x d x h): 600 x 660 x 995 mm

Orbital Shakers with Remote Control and Touch Screen NEW

- 2 versions: mini shaker and standard shaker
- User-friendly and intuitive LCD Touch Screen with
 - Standard-, temperature- or shaker focused display
 - Programmable steps for temperature and speed
 - PID-controlled: no overshooting of shaking speed
- Units with **separate remote controller** can be used in incubators with a humidity up to 85 % and an ambient temperature of 4 °C to 60 °C, since main board and touch screen are installed in remote box away from high humidity, CO₂ or extreme temperatures.
- Thin wire cable between shaker and control box can pass through sealing of inner glass door if no access port is available.
- Brushless DC motor for low noise level and reduced vibration
- Shaker motor is covered with epoxy to protect electric parts from high moisture
- Orbit diameter: 22 mm
- Shaking speed: 30 to 300 rpm (± 1 rpm)
- Timer: up to 99 h 59 min, or continuous operation
- Optional platform for NBT-101S to enable switch between orbital and reciprocal motion available (see page 8)
- Supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.)
- A sticky mat and various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.



NBT-101M



NBT-101S
(on the right: separate remote controller to be placed outside an incubator)

Cat. No.	Description
NBT-101S	Mini shaker with touch screen , basic platform: 300 x 330 mm, unit dimensions (w x d x h): 305 x 350 x 75 mm
NBT-101SRC	Mini shaker NBT-101S with separate remote controller and touch screen , controller dimensions (w x d x h): 190 x 50 x 140 mm, controller weight: 2 kg
NBT-101M	Medium shaker with touch screen , basic platform: 460 x 455 mm, unit dimensions (w x d x h): 465 x 540 x 125 mm
NBT-101MRC	Medium shaker NBT-101M with separate remote controller and touch screen , controller dimensions (w x d x h): 190 x 50 x 140 mm, controller weight: 2 kg

Multi and Combination Shaker with Touch Screen NEW

- 2 versions:
 - NBT-101MT: Orbital **or** reciprocal movement
 - NBT-101MC: Orbital **and** reciprocal movement
- User-friendly and intuitive LCD Touch Screen with
 - Standard-, temperature- or shaker focused display
 - Programmable steps for temperature and speed
 - PID-controlled: no overshooting of shaking speed
- Brushless DC motor for low noise level and reduced vibration
- Orbit diameter: 22 mm
- Shaking speed: 30 to 300 rpm (± 1 rpm)
- Timer: up to 99 h 59 min, or continuous operation
- NBT-101MT is supplied with a basic platform with silicone rubber mat (not suitable for shaking of flasks etc.). A sticky mat and various platforms for flasks, tube rack, 96 well microplates are available, please see page 8 and contact us for further information.
- NBT-101MC consists of two platforms with mounted spring racks. These can be combined to one platform.



NBT-101MT



NBT-101MC

Cat. No.	Description
NBT-101MT	Multi Shaker with touch screen , with silicon rubber mat, basic platform: 460 x 455 mm, dimensions (w x d x h): 465 x 540 x 125 mm
NBT-101MC	Combination Shaker with touch screen with two spring racks mounted, dimensions (w x d x h): 465 x 540 x 195 mm

Shaker Accessories

For each shaker, shaking incubator or incubator with integrated shaker various support platforms and accessories are available. The catalogue number depends on the shaker model, **please contact us for further information.**



2nd platform with 4 legs



platform with premounted spring wire rack



platform with premounted clamps



platform with premounted microplate rack



NB-M4S

Cat. No.	Description
NB-M4S	Stackable shelves for 4 shakers

Support platform

205QM-SWPL	Support platform for NBT-101S to switch between orbital and reciprocal motion
	Support platform without clamps (suitable clamps see below)
	Support platform with premounted clamps for 100 ml flasks
	Support platform with premounted clamps for 250 ml flasks
	Support platform with premounted clamps for 500 ml flasks
	Support platform with premounted clamps for 1000 ml flasks
	Support platform with premounted clamps for 2000 ml flasks
	Support platform with premounted clamps for standard and Deep Well plates
	Support platform with spring wire rack, can be used with tubes and vessels
	Additional 2 nd support platform, with 4 legs

Clamps, racks, and sticky mat

CL100	Clamp for 1 x 100 ml flask
CL250	Clamp for 1 x 250 ml flask
CL500	Clamp for 1 x 500 ml flask
CL1000	Clamp for 1 x 1000 ml flask
CL2000	Clamp for 1 x 2000 ml flask
101STR14	Tube rack for 56 x 10 ml tubes, tube diameter: 14 mm
101STR16	Tube rack for 32 x 15 ml tubes, tube diameter: 16 mm
101STR19	Tube rack for 32 x 15 ml tubes, tube diameter: 19 mm
101STR50	Tube rack for 10 x 50 ml tube, tube diameter: 30 mm

Price:	Prices in Euro per unit, excluding VAT.
Freight charges:	Germany: We charge Euro 20.00 for delivery. Large delivery on a palette: please enquire. Below a net order value of Euro 100.00 an additional charge of Euro 8.00 will apply. Other countries: Please contact us for further information.
Payment terms:	30 days net or against pro forma invoice.

Prices are subject to change without notice. Prices supersede all prices in previous documents. No responsibility is taken for the accuracy of the information.

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