

11. Cleanroom, Cleaning and sterilisation

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www.wenk-labtec.com





1 Gloves KIMTECH PURE*G3, latex, powder free, sterile

NEW!

Kimberly-Clark

EN 374 EN 374 EN 420



LEVEL 2

KIMTECH PURE* Sterile G3 powder free latex gloves offer a highly advanced protection of processes, helping you to reduce the risk of contamination.

- Recommended for ISO Class 3 or higher cleanroom environments
- Natural rubber latex for tactile sensitivity and comfort
- Beaded cuff, for added strength and ease in donning
- Textured palms and fingers
- Powder free-minimising contamination and the drying effects of powder on skin
- Hand specific
- Low protein and low endotoxin levels
- Walleted & pouched in polyethylene for cleanroom use

- This product is classified by EC Council Directive 89/686/EWG. It is tested in accordance with the EN Norms EN 420:2003 **Cat. III Low Chemical resistant.**

- Meets AQL of 1.5
- Manufactured in accordance with Quality System ISO 9001
- Box of 10 x 20 pairs. Individually packed per pair.

Size	Length cm	PK	Cat. No.
6	30	200	4.652 643
6,5	30	200	6.267 248
7	30	200	6.267 249
7,5	30	200	6.267 250
8	30	200	6.267 251
8,5	30	200	6.237 698
9	30	200	6.267 252
10	30	200	6.267 253



2 Gloves, KIMTECH PURE*G3 STERLING*, nitrile, sterile

NEW!

Kimberly-Clark

EN 374 EN 374



KIMTECH PURE*G3 Sterile STERLING*Nitrile Gloves offer improved performance and comfort and are better for the environment.

- Recommended for ISO Class 3 or higher cleanroom environments
- Meets AQL of 1.5 or better
- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Static dissipative in use
- Safe handling of objects due to improved and consistent grip
- Hand specific
- Walleted & pouched in polyethylene for cleanroom use
- Packaged for aseptic donning
- **Cat. III**
- Box of 10 x 30 pairs. Individually packed per pair

Size	Length cm	PK	Cat. No.
6	30	300	6.264 797
6,5	30	300	6.264 798
7	30	300	6.264 799
7,5	30	300	4.652 645
8	30	300	6.265 200
8,5	30	300	6.265 201
9	30	300	6.265 202
10	30	300	6.265 203

1 Disposable coverall Tyvek® IsoClean, with collar/hood, sterile



DuPont™ Tyvek® IsoClean coverall with collar, model IC 182 B WH CS. Clean-processed and gamma-sterilised. Coverall with collar, available in white in sizes M to XXXL. Front zipper closure. Raglan sleeves with tunnelled elastic wrists. Tunnelled elastics at ankles. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments made of Tyvek® IsoClean are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

DuPont de Nemours



- This garment is not CE certified as chemical protective clothing
- Clean laundered and gamma-sterilised
- Suitable for use in cleanroom class ISO 5 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available
- single packed

Size	Description	PK	Cat. No.
M	with collar	1	9.390 066
L	with collar	1	9.390 067
XL	with collar	1	9.390 068
XXL	with collar	1	9.390 069
XXXL	with collar	1	9.390 070
M	with hood and slip-retardant overshoes	1	9.390 061
L	with hood and slip-retardant overshoes	1	9.390 062
XL	with hood and slip-retardant overshoes	1	9.390 063
XXL	with hood and slip-retardant overshoes	1	9.390 064
XXXL	with hood and slip-retardant overshoes	1	9.390 065

2 Hood Tyvek® IsoClean, sterile



DuPont™ Tyvek® IsoClean hood with ties, model IC 668 B WH CS. Sterile hood available in white and in one size. Full face opening with loops and ties. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

DuPont de Nemours



- This accessory is not CE certified as chemical protective clothing
- Clean laundered and gamma-sterilised
- Suitable for use in cleanroom class ISO 5 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available
- Box of 100 p., single packed

Colour	PK	Cat. No.
white	100	9.390 071





1 Sleeve guard Tyvek® IsoClean, sterile (NEW)

DuPont™ Tyvek® IsoClean sleeve, model IC 501 B WH OS. Sterile sleeve available in white and in one size. Tunnelled elasticsation at wrist and upper arm. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

DuPont de Nemours

- This accessory is not CE certified as chemical protective clothing
- Gamma-sterilised
- Suitable for use in cleanroom class ISO 6 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available

Description	PK	Cat. No.
Sleeve guard Tyvek® IsoClean	100	9.390 072



2 Disposable Overboot Tyvek® IsoClean, sterile (NEW)

DuPont™ Tyvek® IsoClean overboot model, IC 458 B WH CS. Sterile overboot in white . Fixation ties. Tunnelled elastics at ankles and gripper slip-retardant full sole. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in other critical or controlled environments.

DuPont de Nemours

- This accessory is not CE certified as chemical protective clothing
- Clean laundered and gamma-sterilised
- Suitable for use in cleanroom class ISO 5 and higher
- Sterility assurance level (SAL) of 10⁻⁶
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Full traceability on all sterilized apparel with certificates of sterility available
- Box of 100 p., single packed

Description	Colour	PK	Cat. No.
S	white	100	9.390 073
M	white	100	9.390 074
XL	white	100	9.390 075



3 Disposable Overboot Tyvek® IsoClean (NEW)

DuPont™ Tyvek® IsoClean overboot, model IC 458 B WH OB. Overboot available in white and in sizes M and L. Fixation ties. Tunnelled elastics at ankles and gripper slip-retardant full sole. Tyvek® garments and accessories are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean are used in the biotech, pharmaceutical, medical device manufacturing, electronics industries and as well in industrial applications.

DuPont de Nemours

- This accessory is not CE certified as chemical protective clothing
- Not clean laundered, not sterilised
- Suitable for use in cleanroom class ISO 6 and higher
- Bound seams: tightly sewn seam is covered with garment fabric to reinforce seam protection and reduce potential for liquid and particle penetration
- Box of 100 p.

Description	Colour	PK	Cat. No.
M	white	100	9.390 076
L	white	100	9.390 077

1 Disposable Overshoes Tyvek® IsoClean



DuPont™ Tyvek® IsoClean overshoe model, IC 451 S WH OB. Overshoe available in white and in sizes M and L. Fixation ties. Elastics at ankles and gripper slip-retardant full sole. Tyvek® garments and accessories are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size) and is ultra-low-linting. Silicon non-added. Garments and accessories made of Tyvek® IsoClean are used in the biotech, pharmaceutical, medical device manufacturing and electronics industries, as well as in industrial applications.

- This accessory is not CE certified as chemical protective clothing
- Not clean laundered, not sterilised
- Suitable for use in cleanroom class ISO 6 and higher
- Box of 100 p.

Description	Colour	PK	Cat. No.
M	white	100	9.390 078
L	white	100	9.390 079

DuPont de Nemours

1



2 Fine dust adhesive mat Nomad™ 4300



Ideal for areas with increased demand for air purity . The adhesive layer on the Nomad™ mat collects when crossing all dust particles from the boots and binds them so that they cannot be spread . It does not have to be cleaned , if necessary the used adhesive layer is removed and a new layer is available. The silicone-free and residue-free mat can easily be fixed on the floor.

- Consists of multiple , adhesive coated , clear polyethylene layers , which are attached on a vinyl backing
- For use in the entrance to sterile rooms (clean room conditions), or requirements of highest hygiene
- 40 layers, numbered
- Removable disposable mat
- Easy to install
- Can be walked and driven on without any problems
- Very good removal and retention of dirt particles

Type	Dimensions mm	Colour	PK	Cat. No.
ADHWS45	450 x 1150	white	6	7.634 641
ADHWS60	600 x 1150	white	6	6.267 066
ADHBU60	600 x 1150	blue	6	6.267 065
ADHWS90	900 x 1150	white	6	6.267 903

3M Deutschland

2



3 Precision-Swabs



Precision-swabs are engineered for use in a variety of environments and applications. They are ideal for use with cleaner degreasers, head cleaners, flux removers and other solvents for fast, precision cleaning.

Wrapped foam swabs

- Durable wrapped foam swabs designed for precise applications.
- Good particle entrapment and work well as solvent applicators
- Small tips allow use in very tight tolerance areas
- Wrapped foam delivers superior abrasion resistance for removal of tough contaminants
- Pointed end works especially well as a pick.

Sealed polyester swabs

- Very clean and durable all-purpose swabs
- Featuring either knit or nonwoven fabric heads, these swabs are acid and solvent resistant
- Sealed edges build in high strength with no loose fibers or particulates
- Ideal for tough scrubbing around raised shapes
- Cleanroom process gives the lowest ionic, non-volatile residue and particle contaminants.

Sealed foam swabs

- Economical general purpose swabs
- Best solvent retention
- Excellent particle entrapment
- The open cell structure gives the best solvent holding ability of any style of swab
- Free of adhesives or binders that could contaminate your process
- Fiberless construction does not generate particles.
- Suitable for ISO Class 4 clean rooms and higher

Ideal-tek

3



Material Head	Head	Head size	Material shaft	Length mm	PK	Cat. No.
Polyester/Nylon	rounded	4,7 x 5,4	PP	150	125	4.655 171
PU-foam	wrapped, pointed	3,7 x 3,7	Nylon	70	125	6.266 882
Polyester	rounded	2,4 x 3,0	PP	70	125	6.266 884
Polyester	rounded	1,6 x 3,0	PP	70	125	6.266 885
Polyester	rounded	1,0 x 3,0	PP	70	125	6.266 886
PU-foam	rounded	3,3 x 3,5	PP	70	125	6.266 887
PU-foam	pointed	2,7 x 3,3	PP	80	125	6.266 888
PU-foam	rounded	2,5 x 3,0	PP	68	125	6.266 889



1 Cleanroom tissues Sontara® MicroPure

(NEW!)

Sontara® MicroPure nonwoven styles (woodpulp/polyester) are engineered for cleanroom use and combine absorbency of a natural fibre with the cleanliness and strength of a synthetic fibre in the same fabric. No binders or chemical treatments are used to manufacture them. The high cleanliness and purity are ensured by low extractable level and ion content as well as extremely low particle generation by the material itself. The fabric styles offer high particle and liquid absorbency due to their cellulose content.

Type	Cleanroom Class	Dimensions mm	PK	Cat. No.
Sontara® MicroPure 100	level of cleanliness 100, ISO 5 + 6	305 x 305	150	9.390 185
Sontara® MicroPure 100	level of cleanliness 100, ISO 5 + 6	224 x 224	300	9.390 186
Sontara® MicroPure AP	level of cleanliness 1000, ISO 6 - 9	305 x 305	150	9.390 187
Sontara® MicroPure AP	level of cleanliness 1000, ISO 6 - 9	224 x 224	300	9.390 188
Sontara® MicroPure SV	level of cleanliness 1000 - 10.000, ISO 7 - 9	305 x 305	250	9.390 189
Sontara® MicroPure SV	level of cleanliness 1000 - 10.000, ISO 7 - 9	224 x 224	500	9.390 190



9.413 216

2 LLG-Dispenser system for moist cloths Wiper Bowl® Safe & Clean

The economical "building block solution" for thorough disinfection and cleaning of sensitive areas in the medical and foodstuff industries. Can be filled with all commercial disinfectant and cleaning agents. The fine perforated structure of Multitex® moist cloths ensures an even distribution of the surface disinfectant. These moist towels are also ideally suited to the cleaning of grossly soiled surfaces. Easy handling thanks to tear-off perforation. After cleaning the lid can be closed and the tissues stay moistured for more than 30 days ensuring a constant cleaning and disinfection performance.

LLG Dispenser bin Wiper Bowl® Safe & Clean:

Empty. For 1 roll Multitex® DR. Made of plastic, dia. approx. 21cm, resealable and reusable.

LLG-Cleaning tissues Multitex® DR:

Viscose fleece for Wiper Bowl® Safe & Clean dispenser bucket. White, fine, tear-resistant, absorbent and lint free.

Dimensions: 300mm x 320mm.

1 roll of 90 tissues

Please order separately.

Type	PK	Cat. No.
LLG-Dispenser bin	1	9.413 216 2
LLG-Cleaning tissues Multitex® DR	1	9.413 215 3



9.413 215



4 HBV Tissues Meliseptol®

Ready to use, alcoholic disinfectant tissues, 14.5cm x 20cm.

B. Braun

Package contents	PK	Cat. No.
100 cloths, dispenser	100	9.191 272
100 cloths, refill pack	100	6.800 451

11. Cleanroom, Cleaning and sterilisation Disinfection/for surfaces

1 Disinfection tissues, Pursept®-A Xpress

Pursept®-A Xpress disinfection tissues are useful for rapid disinfection and cleaning of work surfaces and instruments (e.g., liquid handling instruments). It works in only 15 seconds - even before the surface dries. DGHM*tested and RKI**compliant. Skin tolerance dermatologically tested. Aldehyde-free

For RKI compliant use, thoroughly wipe the surface to be disinfected with Pursept®-A Xpress disinfection tissues. Be sure to wipe everything completely. The surface should remain moist during the entire working time.

BRAND

Dimensions	135 x 225 mm
Contents per cloth (approx.):	1027mg ethanol, 0.56mg N-alkyl aminopropyl glycine; auxiliary agents.
Microbiological power/application concentration:	
Surface disinfection:	
Bacteria and fungi with little organic burden with mechanics to DGHM/VAH:	15secs.
Limited virucidal efficacy* (incl. HIV, HBV, HCV):	15secs.
Effectiveness against TbB:	30secs.
Chemico-physical data of the solution:	
Liquid:	colourless, transparent
Density:	approx. 0.9g/cm ³
pH value:	approx. 7.5
Tissues:	FCC-bleached (oxidation bleach), bio-degradable



Package contents	PK	Cat. No.
Dispensing box of 150 tissues	1	9.413 040
Refill pack of 150 tissues	1	9.413 041

*Tested according to standard DGHM methods of surface disinfection. Latest version:9/1/2001
 **As recommended by the Robert-Koch-Institute (RKI), Bundesgesundheitsblatt 01/2004

2 Spray disinfectant Meliseptol®

For targeted spray disinfection of small surfaces and equipment.

B. Braun

- Ready-to-use alcoholic solution
- Effective against bacteria incl. T.B., -B, fungi, lipophilic viruses including Hepatitis-B and HIV, rotaviruses
- Pleasant odour
- Dries thoroughly without residue
- Effective within 5mins.
- 250ml bottle for propellant-free, spray disinfection of hard-to-reach areas. Overhead use also possible.

Use disinfectants safely. Always read the label and product information before use.



Type	Capacity ml	PK	Cat. No.
Hand spray bottle	250	1	9.191 262
Hand spray bottle without spray head*	1000	1	9.191 263
Spray head for 1L hand spray bottle		1	9.191 268
Jerrycan	5000	1	9.191 265

*Spray head for 1000ml hand spray bottle - please order separately.

3 Disinfectant foam Meliseptol® foam pure

Foam for rapid disinfection of small surfaces. Good material compatibility even with alcohol-sensitive materials, eg plastic surfaces, medical devices, acrylic glass, examination tables.

B. Braun

Type	Capacity ml	PK	Cat. No.
Foam spray bottle	750	1	9.191 271
Canister	5000	1	9.191 288



4 Meliseptol® rapid, fast acting spray disinfectant

Meliseptol® rapid is a fast acting, ready-to-use disinfectant for medical equipment such as treatment chairs, operating theatre equipment and hospital beds.

Meliseptol® rapid works within 1 min. as a bactericide, tuberculocide, fungicide (incl. mould fungi) and inactivates Hepatitis-B, HIV, rotaviruses, adeno and vaccinia viruses. Free from aldehydes and alkyl amines.

B. Braun

Type	Capacity ml	PK	Cat. No.
Spray bottle	250	1	9.191 036
Dosing bottle	250	1	9.191 037
Hand spray bottle without spray head*	1000	1	9.191 038
Spray head for 1000ml hand spray bottle		1	9.191 268
Jerrycan	5000	1	9.191 040

*For spray bottle 1000ml - please order spray head separately.





1 Spray disinfectant neoform® MED rapid

NEW!

Rapid disinfectant for medical devices, ready-for-use solution. Bactericidal, yeasticidal, tuberculocidal, active against enveloped viruses. Alcoholic spray for disinfection medical devices. VAH listed and registered in the IHO virucidal list.

Type	Capacity ml	PK	Cat. No.
neoform® MED rapid	750	1	6.253 344



2 Surface disinfectant neoform® MED AF

NEW!

Aldehyde-free disinfectant cleaner for medical devices, liquid concentrate. Bactericidal, yeasticidal, tuberculocidal, active against enveloped viruses. For cleaning and disinfection of medical devices and medical equipment. Application by rub/wipe-method, via rotating brushes or spraying devices. VAH listed and registered in the IHO virucidal list.

Type	Capacity ml	PK	Cat. No.
neoform® MED AF	5000	1	6.258 229



3 Surface disinfection concentrate, Pursept® AF

BRAND

For alcohol-resistant worktops and equipment surfaces in microbiological and medical laboratories. Cleans and disinfects floors, walls and equipment in one operating cycle. Effective against bacteria, fungi and viruses, in particular Hep.-B and HIV. Tested and certified in accordance with the guidelines of the DGHM (German Hygiene and Microbiology Society). Particularly gentle on surfaces, kind to skin and has a pleasant, fresh fragrance. Use disinfectants safely. Always read the label and product information before use.

Contents per 100g:

12.5g didecyl dimethyl ammonium chloride
 < 5% NTA,
 < 5% non-ionic surfactants, auxiliary agent
 1.5g (aminopropyl)-lauryl amine, auxiliary materials

Microbiological power/application concentration Surface disinfection:

Bacteria and fungi in acc. with DGHM:

0.25% (2.5g/l)/4 hrs. 0.5% (5g/l)/60 min.

1% (10g/l)/30 min. 2%/15 min.

1% (10g/l)/15 min.

Limited virucidal efficacy* (incl. HIV, HBV, HCV):

Inactivating human rotaviruses:

0.25% (2.5g/l)/2 mins.

Concentration for TbB:

2% (20g/l)/60 mins.

Physico-chemical data:

Liquid:

clear, green

Density:

approx. 1g/ml

pH value (1%):

approx. 10

Type	Capacity Litres	PK	Cat. No.
Bottle	2	1	9.192 569
Jerrycan	5	1	9.192 570

11. Cleanroom, Cleaning and sterilisation Disinfection/for surfaces-for Instruments

1 Surface disinfection Pursept®-A Xpress

Pursept®-A Xpress is a ready-to-use preparation for rapid disinfection and cleaning of surfaces and instruments (e.g., liquid handling instruments). It works in only 15 secs. - even before the surface dries. DGHM tested and RKI compliant. Dermatologically tested for skin tolerance. Aldehyde-free

BRAND

For RKI compliant use, apply Pursept®-A Xpress full strength to a disposable cloth. Then thoroughly wipe off the area to be disinfected with the wet cloth. Be sure to wipe everything completely. The surface should remain moist during the entire working time.

Use disinfectants safely. Always read the label and product information before use.

Contents per 100g: 55g ethanol, 0.03g N-alkyl aminopropyl glycine; auxiliary agents.

Microbiological power/application concentration:

Surface disinfection:

Bacteria and fungi with little organic burden with mechanics acc. to DGHM/VAH*directives:

15secs.

Limited virucidal efficacy** (incl. HIV, HBV, HCV):

15secs.

Effectiveness against TbB:

30secs.

Physico-chemical data:

Liquid:

colourless, transparent

Density:

approx. 0.9g/cm³

pH value:

approx. 7.5

Type	Capacity Litres	PK	Cat. No.
Pump spray bottle (without cap)	1	1	9.192 567
Jerrycan	5	1	9.192 568
Spray cap		1	9.192 566

*Tested according to standard DGHM methods of surface disinfection. Latest version: 9/1/2001

**As recommended by the Robert-Koch-Institute (RKI), Bundesgesundheitsblatt 01/2004



2 Molecular BioProducts™ RNase AWAY® Surface Decontaminant



Eliminates unwanted DNA and RNase from glassware and plasticware without affecting subsequent DNA samples

Thermo Elect.LED

Degrades DNA more quickly and effectively than autoclaving.

- Suitable for gel boxes, pipettes, benchtops, thermal cyclers, or other apparatus
- Use before performing PCR or working with DNA for a DNA-free work area
- Simply apply the ready-to-use formula to the surface to decontaminate, then wipe dry or rinse clean

Type	Capacity ml	Package	PK	Cat. No.
MBP RNase Away®	475	spraying flask	1	6.227 799



3 Molecular BioProducts™ RNase AWAY® and DNA AWAY™ Surface Decontaminant



Eliminates unwanted DNA and DNase from glassware and plasticware without affecting subsequent DNA samples

Thermo Elect.LED

Degrades DNA more quickly and effectively than autoclaving.

Type	Capacity ml	Package	PK	Cat. No.
MBP DNA Away®	250	Flask	1	6.228 401



4 Instrument disinfectant and cleaner, Helipur®

For use on instruments and laboratory equipment made of metal, glass and ceramics.

B. Braun

- Effective against bacteria incl. T.B.-B, fungi, lipophilic viruses including Hepatitis B and HIV, adeno and vaccinia viruses
- Disinfection and cleaning in one single operation; contaminated instruments are placed directly in the standard solution. No prior or subsequent manual cleaning is necessary.
- DGHM (German Hygiene and Microbiology Society) listed.

Application concentration: 1.5% reaction time 60 min = 15ml in 1L water

Type	Capacity ml	PK	Cat. No.
Carboy	5000	1	9.191 255





1 Disinfectant for temperature-sensitive materials, Helipur® H plus N

Liquid concentrate for disinfecting flexible endoscopes, anaesthetic accessories, rubber and plastic items.

B. Braun

- Also suitable for disinfecting metal, glass and ceramics
- Effective against bacteria incl. T.B.-B, spores, fungi, lipophilic viruses including Hepatitis-B and HIV, coxsackie, adeno and vaccinia viruses
- Can also be used in ultrasonic baths
- Formaldehyde free
- Material compatibility reports are available from leading manufacturers.

Use disinfectants safely. Always read the label and product information before use.

Application concentration: 1.5% reaction time 15mins. = 15ml in 1L water
1.0 % reaction time 60 mins. = 10 ml in 1 L water

Type	Capacity ml	PK	Cat. No.
Dosing bottle	1000	1	9.191 277
Jerrycan	5000	1	9.191 278



2 Instrument disinfection, Mucocit® T

A fresh fragranced solution with exceptional cleaning power and disinfection in only 5 minutes due to the Active-Power-PLUS formula. Ideal for sensitive instruments, thanks to a unique material tolerance. Mucocit® T is used for manual instrument cleaning in a soaking or ultrasonic bath. Use disinfectants safely. Always read the label and product information before use.

BRAND

Contents per 100g:

3.9g didecyl-dimethyl-ammonium chloride, 4.5g alkylpropylendiamine-1.5-bisguanidiniumacetate, 2g bis(-aminopropyl)-laurylamine, 2.8g laurylpropylenediamine, 5-15% non-ionic tenside surfactants, auxiliary agents.

Microbiological power/application concentration:

DGHM/VAH*bacteria and fungi as well as tuberculocide and myobactericide with high organic stress:

Limited virucidal efficacy** (incl. HIV, HBV, HCV):

Inactivation of rotaviruses:

Physico-chemical data:

Liquid:

Density:

pH value (1%, 20°C):

1%/60 min., 2%/30 min., 3%/15 min.

1%/5 min.

2%/5 min.

blue, transparent

approx. 1g/ml

approx. 10.5

Type	Capacity Litres	PK	Cat. No.
Bottle	2	1	9.192 550
Jerrycan	5	1	9.192 551

*Tested according to standard DGHM methods of surface disinfection. Latest version: 9/1/2001

**As recommended by the Robert-Koch-Institute (RKI), Bundesgesundheitsblatt 01/2004



3 Special cleaner, neodisher® LaboClean A 8

Alkaline intensive detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, powder.

Universally applicable, with excellent cleaning performance and dirt carrying ability. Removes blood, serum, food residues, pharmaceuticals, paints, varnishes, gelatine and other organic residues. Free of surfactants.

Type	Capacity kg	PK	Cat. No.
Bottle	1	1	9.192 404
Bucket	10	1	9.192 403
Bucket	25	1	9.192 401

11. Cleanroom, Cleaning and sterilisation Disinfection/for Instruments

1 Special cleaner, neodisher® LaboClean GK

Mildly alkaline detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, powder.

Especially for the automated cleaning of glassware for cell and tissue cultures, in the field of microbiology and nuclear medicine as well as in isotope laboratories. Removes residues of culture media, residues of cell and tissue cultures, radioactive contamination, organic colour and pigment contamination. Easy to rinse off. Free of surfactants.

Type	Capacity kg	PK	Cat. No.
Bucket	10	1	9.192 415



2 Special cleaner, neodisher® LaboClean LA

Highly alkaline intensive detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, powder.

With a highly emulsifying, dispersing and defoaming action. Especially suitable for the removal of fat, oil, resins and paraffin.

Type	Capacity kg	PK	Cat. No.
Bucket	3	1	9.192 418
Bucket	25	1	9.192 417



3 Special cleaner, neodisher® MA

Alkaline detergent for the automated reprocessing of thermostable and thermolabile instruments, powder.

Excellent cleaning action and material compatibility. Free of oxidising agents.

Type	Capacity kg	PK	Cat. No.
Bottle	1	1	9.192 406
Bucket	10	1	9.192 405



4 Special cleaner, neodisher® LaboClean UW

Mildly alkaline detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, powder.

Especially suitable for the automated cleaning of laboratory glassware and utensils in water analysis laboratories, in serological institutes and in the phosphates industry, where residues of phosphorous compounds would be adulterate analysis results. Free of phosphates.

Type	Capacity kg	PK	Cat. No.
Bucket	10	1	9.192 445



5 Special cleaner, neodisher® LaboClean F

Highly alkaline intensive detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, powder.

With excellent cleaning performance. Especially suitable for the removal of resins, organic colourants and residues of felt-tip pens. Good complexing and dispersing action. Free of phosphates and surfactants.

Type	Capacity kg	PK	Cat. No.
Tubs	3	1	9.192 387
Bucket	25	1	9.192 410



1


1 Special cleaner, neodisher® FA

"Classical" alkaline detergent for the automated reprocessing of thermostable and thermolabile instruments, liquid concentrate.

Excellent cleaning action and material compatibility. Free of surfactants and oxidising agents.

Type	Capacity	PK	Cat. No.
Canister	5 l	1	9.192 435
Canister	10 l	1	9.192 431
Canister	25 kg	1	9.192 434

2


2 Special cleaner neodisher® LaboClean FLA

Alkaline intensive detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, liquid concentrate.

Universally applicable. With excellent cleaning performance. Removes stubborn oily and other organic residues. Free of surfactants, phosphorous compounds and oxidising agents.

Type	Capacity	PK	Cat. No.
Canister	5 l	1	9.192 446
Canister	10 l	1	9.192 447
Canister	25 kg	1	9.192 448

3


3 Special cleaner, neodisher® LaboClean FT

Alkaline detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, liquid concentrate.

Especially suitable for the residue-free cleaning of pharmacy glass bottles, infusion flasks, glassware for cell and tissue culture as well as utensils for microbiology and nuclear medicine. Removes residues of culture media, blood, proteins, radioactive contamination, residues of cell and tissue cultures as well as other organic residues. With oxidation action, free of surfactants.

Type	Capacity kg	PK	Cat. No.
Canister	12	1	9.192 436
Canister	25	1	9.192 437

4


4 Special cleaner neodisher® N

Acidic neutralising agent and detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, liquid concentrate.

For neutralising carried over alkaline residues as well as for the acidic pre-cleaning resp. cleaning of laboratory glassware. Lime and other acid-soluble residues are removed. Easy to rinse off. Based on phosphoric acid. Free of surfactants.

Type	Capacity	PK	Cat. No.
Bottle	1 l	1	9.192 422
Canister	5 l	1	9.192 421
Canister	12 kg	1	9.192 420
Canister	25 kg	1	9.192 423

5


5 Special cleaner neodisher® Z

Acidic neutralising agent and detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, liquid concentrate.

For neutralising carried over alkaline residues as well as for removing acid-soluble residues in laboratories where residues of phosphates, nitrogen or surfactants would adulterate analysis results and where particular material compatibility is necessary. Based on organic acids. Free of surfactants and phosphates.

Type	Capacity Litres	PK	Cat. No.
Bottle	1	1	9.192 426
Canister	5	1	9.192 425
Canister	10	1	9.192 427
Canister	20	1	9.192 428

11. Cleanroom, Cleaning and sterilisation

Disinfection/for Instruments-Screen cleaners

1 Special cleaner neodisher® LM 3 for pipettes

Alkaline cleaner for the manual cleaning and pre-cleaning of laboratory glassware as well as for the cleaning of pipettes and viscometers in special washers, liquid concentrate.

Especially suitable for the cleaning of laboratory glassware in water, phosphates and metal laboratories and in laboratories where enzymatic and serological analyses are conducted. Also suitable for automated cleaning. Low foam. Free of phosphates.

Type	Capacity Litres	PK	Cat. No.
Bottle	1	1	9.192 442
Canister	10	1	9.192 441



2 Special cleaner, neodisher® MediClean forte

Alkaline universal detergent for the automated and manual reprocessing of thermostable and thermolabile instruments, liquid concentrate.

Excellent material compatibility, universally applicable. Residues of dried-on and denaturated blood are reliably removed. Prevents re-deposition of protein residues. Contains alkalis and surfactants.

Capacity	Capacity Litres	PK	Cat. No.
Canister	5	1	6.228 020



3 Universal cleaner, Mucosol®

High performance, alkaline cleaning concentrate in liquid form for soaking and ultrasonic cleaning baths. BRAND

Suitable for use on laboratory equipment and instruments made of glass, porcelain, plastic, rubber and metal. Items are cleaned in ~ 10 - 30mins, without mechanical help. An alternative to chromosulphuric acid mixtures, free from chlorine and caustic alkalines, non-toxic, non-corrosive and is biodegradable. Zinc and non-anodized aluminium items should not be immersed in Mucosol® for long periods as corrosion may occur. Also suitable for wiping down surfaces.

Contents: >30% phosphates, <5% anionic surfactants, amphoteric surfactants, complexing agents, corrosion inhibitors, auxiliary agents

Application concentration:
 In ultrasonic baths: 0.2% to 2% (1.4ml/l to 14ml/l)
 In soaking baths: 0.7% to 3% (5ml/l to 22ml/l)

Physico-chemical data:
 Liquid: light green, transparent
 Density: approx. 1.4g/ml
 pH value (0.7%): approx. 11.5
 pH value (3%): approx. 11.7

Type	Capacity Litres	PK	Cat. No.
Bottle	2	1	9.192 501
Jerrycan	5	1	9.192 507



4 Screen cleaner

For cleaning and caring for glass and plastic screens, glass panels, mirrors and lenses of copiers and microfiche readers as well as hoods and plexiglas components. For the easy removal of dirt, grease and nicotine. With antistatic agent. Spray bottle without propellant.

Type	Capacity ml	PK	Cat. No.
Screen cleaner	200	1	9.190 975
Refill bottle	1000	1	9.190 974



➔ For glass pipettes - please see page 842.



1 2 Cleaning Office, technical cleaning cloths with alcohol

Moist, non-woven cloths in a re-sealable dispensing pack. For the cleaning of, and caring for, all office equipment. With antistatic and disinfectant action.
 Dimensions: 138mm x 190mm
 Shelf life: unopened, 30 months without loss of quality

Package contents	PK	Cat. No.
Dispensing pack of 100 tissues	1	9.190 977
Refill pack of 100 tissues	1	9.190 976



3 Dust remover spray DRUCKLUFT 67

Compressed air spray for contact-free removal of dust and dirt in hard-to-reach places using the capillary tube nozzles attached. Safe, clean, oil-free. Acc. to Aerosol policy 75/324/EWG no danger of inflammation or explosion when using as intended. DRUCKLUFT 67 contains pure and dry compressed gas and is very efficient.

Examples of use:
 photography, precision electronics, watchmaking, cameras, medical technology, microscopy, research.

Pressure: 4.2 bar (20°C)
 Density: 1.00g/cm³ (20°C)

Capacity ml	PK	Cat. No.
200	1	9.412 800
400	1	9.412 801



4 Dust remover spray Druckluft 67 SUPER

Spray for the contact-free removal of dust and dirt from hard-to-reach places. For highest safety also for devices under electric tension. Acc. to Aerosol policy 75/324/EWG no danger of inflammation or explosion even in the presence of ignition sources. DRUCKLUFT 67 SUPER contains pure and efficient compressed gas. Especially suitable for work under electric tension and for ex-use.

Examples of use:
 photography, precision electronics, watchmaking, cameras, medical technology, microscopy.

Pressure: 4.6 bar (20°C)
 Density: 1.17g/cm³ (20°C)
 Gas volume: 400ml can produces 116L gas at 20°C and 1bar.

Capacity ml	PK	Cat. No.
400	1	9.412 805

→ Label solvent - please see page 158.



11. Cleanroom, Cleaning and sterilisation

Cleaning implements/Wipes, cloths

1 2

LLG-Laboratory and hygienic tissues, 2-ply, 150 wipes



Laboratory and hygienic tissues
 - contains 150 white, double-ply tissues, 210mm x 220mm
 - highly absorbent and ultra-soft
 - for sensitive application areas
 Carton of 30 boxes with **150 wipes**

Wall Mount, wire, white-coated with wall mounting material for packaging up to 70mm depth, please order separately.

Package contents	PK	Cat. No.
Carton of 30 boxes with 150 wipes	30	9.413 220
Wall Mount for Laboratory and hygienic tissues	1	9.405 371

1



2



3 Precision wipes, KIMTECH SCIENCE*, 1-ply

Tissue wiping cloth for precise, critical cleaning in the electronic, optic and precision mechanics industries, lint-free, highly absorbent and strong, even when wet. 1-ply, white.

Kimberly-Clark

3



Package contents	Dimensions	PK	Cat. No.
	mm		
Box of 196 wipes	300 x 300	1	9.413 020
Box of 280 wipes	110 x 210	1	9.413 021

4 Laboratory wipes, KIMTECH SCIENCE*, 2-ply

Tissue wiping cloth for professional use in laboratories. Highly absorbent and soft for wiping up small amounts of liquid and for cleaning pipettes and microscope slides. Chemical resistant and chemically neutral. 2-ply, white.

Kimberly-Clark

4



Package contents	Dimensions	PK	Cat. No.
	mm		
Box of 100 wipes	200 x 210	1	9.413 017
Box of 200 wipes	205 x 200	1	9.413 015

5 6 Cleaning wipes, KIMTECH*Process Wiper, cloths

Blue, super strong, robust, lint-free, PP reusable wiping cloths, ideal for residue-free wet cleaning with cleaning agents and solvents as well as wiping up oil and grease. Folded into quarters, embossed.

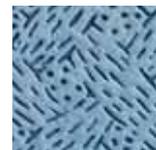
Kimberly-Clark

5



Package contents	Width	Length	Colour	PK	Cat. No.
	mm	mm			
12 bags containing 35 cloths	490	380	blue	12	9.413 070

6



Cleaning implements/Wipes, cloths

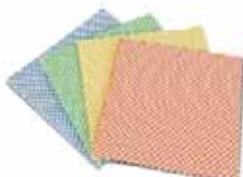
1


1 Cleaning cloths, KIMTECH* 7505

Soft and gentle, yet strong. White, embossed, sterilisable. Individual cloths. Hydronit*material.

Kimberly-Clark

Package contents	Dimensions mm	PK	Cat. No.
Bag of 50 cloths	320 x 380	1	9.413 033

2


2 3 4 5 Universal dishwashing

Universal cloth:

Made from 80 % viscose and 20 % polyester. The universal cloth has a finely structured surface. It provides a cleaning result without streaks, is nearly lintfree and washable up to 95°C. Please wash in lukewarm water before first use.

Washing up liquid:

HS citro is a dish washing detergent for universal implementation with a fresh fragrance for porcelain, glass, plastic, and metal. Professional recipe with high grease dissolving strength and plant-based skin protecting additives. 1L

Sponge:

For cleaning any kind of incrustation.

Gloves:

Natural rubber. Excellent finger sensitivity, high flexibility. Flock-lined for optimal comfort. Special surface finish provides a firm hold. Good resistance to ketones and many acids. L 305mm.

3

4

5


Description	Dimensions mm	Colour	PK	Cat. No.
Universal cloth	380 x 380	blue/white	10	6.266 668
Universal cloth	380 x 380	red/white	10	6.266 669
Universal cloth	380 x 380	green/white	10	6.266 670
Universal cloth	380 x 380	yellow/white	10	6.266 671
Sponge	150 x 90 x 40	green/yellow	100	6.266 672
Sponge	95 x 70 x 45	green/yellow	500	6.266 673
Washing up liquid, 1L			1	6.266 678
Rinsing brush	220 x 60	blue/white	1	9.019 110
Gloves size 6 - 6 1/2		yellow	1	9.005 201
Gloves size 7 - 7 1/2		yellow	1	9.005 202
Gloves size 8 - 8 1/2		yellow	1	9.005 203
Gloves size 9 - 9 1/2		yellow	1	9.005 204
Gloves size 10 - 10 1/2		yellow	1	9.005 205

6


6 Microfibre cloths WYPALL*

- Lifts and traps dirt from surfaces for fast and efficient cleaning
- No chemicals required, helps reduce annual cleaning cost
- Absorbs & retains up to 8 times its weight in liquid efficient cleaning
- Can be washed up to 300 times for better cost control
- Available in 4 different colours, enables task segregation and helps to reduce cross contamination
- Green cloth has smooth texture for glass and mirror cleaning

Kimberly-Clark

Package contents	Dimensions mm	Colour	PK	Cat. No.
packs of 4 bags containing 6 cloths	400 x 400	Yellow	6	9.413 081
packs of 4 bags containing 6 cloths	400 x 400	Blue	6	9.413 082
packs of 4 bags containing 6 cloths	400 x 400	Red	6	9.413 086
packs of 4 bags containing 6 cloths	400 x 400	Green	6	9.413 083

7


7 Wipes Unitex®

Made from cellulose and polyester fibers, turquoise.

- Without binders, chemicals or adhesives
- Resistant to solvents and silicone free
- Particularly tear-resistant and lintfree
- Useable dry and wet, high absorption capacity
- Excellent for cleaning and degreasing surface

Package contents	Width mm	Length mm	Weight g / m ²	Thickness mm	PK	Cat. No.
pack of 4 x 50 tissues	380	300	68	0.28	4	6.266 676

11. Cleanroom, Cleaning and sterilisation

Cleaning implements/Wipes, cloths

1 Wipes, WYPALL*^L 30

AIRFLEX*^fabric. Strong and fast absorbing wipes for general purpose use, especially for oil and grease. High tensile strength in wet conditions for rapid cleaning.

Kimberly-Clark

Package contents	Width mm	Length mm	Colour	PK	Cat. No.
Large roll of 500 tissues	235	380	blue	1	9.413 054
Large roll of 500 tissues	330	380	blue	1	9.413 044
6 large rolls of 300 tissues	205	380	white	6	9.413 091



2 LLG- Laboratory tissues, roll, 102 sheets 3-ply

Roll with 102 sheets (220 x 260mm).

- strong when wet
- absorbent
- low lint

Package contents	PK	Cat. No.
roll of 102 tissues	2	9.413 224
roll of 102 tissues (advantage pack)	28	9.413 225



3 Laboratory tissues SCOTT® EXQUISITA, roll, 2-ply

Particularly absorbent, white, 2-ply, perforated, embossed tissue. Dimensions 270 x 230mm.

Kimberly-Clark

Package contents	PK	Cat. No.
Rolls of 150 tissues	2	9.413 078



4 Wipes Multitex® Ultra z 70

NEW!

The high-quality viscose fleece with textile characteristics is suitable for wet and dry cleaning thanks to its incredible strength. The cloths are very soft and yet lint-free, they can absorb large amounts of liquid and remain tear-resistant, they are solvent-resistant and they meet food safety requirements. Multitex® cloths can be washed out after cleaning, wrung out, and reused.

Package contents	Width mm	Length mm	Weight g / m ²	Thickness mm	PK	Cat. No.
12 bags of 76 tissues	350	300	80	0.36	12	6.266 674



5 Wipes Multiclean®, 3-ply

NEW!

Multiclean® cloths are always on hand when surfaces must be thoroughly cleaned. Multiclean® plus is high-volume and thus even more absorbent. The appropriate holder, whether as floor stand or for wall mounting are available on request.

Package contents	Width mm	Length mm	Weight g / m ²	PK	Cat. No.
2 rolls with 500 tears	220	380	60	2	7.618 013
2 rolls with 500 tears	380	380	54	2	7.618 212
Roll with 1000 tears	360	360	54	1	7.671 903



6 Multitex® roll Ultra z 70, white, disposable tissues

NEW!

The high-quality viscose fleece with textile characteristics is suitable for wet and dry cleaning thanks to its incredible strength. The cloths are very soft and yet lint-free, they can absorb large amounts of liquid and remain tear-resistant, they are solvent-resistant and they meet food safety requirements. Multitex® cloths can be washed out after cleaning, wrung out, and reused.

Package contents	Width mm	Length mm	Weight g / m ²	Thickness mm	PK	Cat. No.
roll with 500 tears	410	380	80	0.36	1	6.266 675



Cleaning implements/Wipes, cloths



1 Unitex® roll, turquoise disposable tissues (NEW)

Unitex® cleaning cloth from cellulose and polyester fibers.

- Without binders, chemicals or adhesives
- Resistant to solvents and silicone free
- Particularly tear-resistant and lintfree
- Useable dry and wet, high absorption capacity
- Excellent for cleaning and degreasing surface

Package contents	Width mm	Length mm	Weight g / m ²	Thickness mm	PK	Cat. No.
roll with 500 tears	390	325	68	0.28	1	6.266 677



2 Cleaning wipes, KIMTECH*Process Wiper, roll

Super strong, robust, reusable lint-free PP wipes. Ideal for residue-free wet cleaning of smooth surfaces with cleaning agents and solvents and for wiping up oil and grease. Perforated large roll, embossed.

Kimberly-Clark

Package contents	Width mm	Length mm	Colour	PK	Cat. No.
Large roll of 180 towels	340	380	blue	1	9.413 065



3 Wipes, Wypall*L 40

Perforated, blue Airflex*material. Bulky wipes with excellent absorption capacity and wet strength. For cleaning-up large spillages and suitable for most surfaces. Comparable in quality to a 4-ply tissue product.

Kimberly-Clark

Package contents	Material	Colour	Width mm	Length mm	PK	Cat. No.
Large roll of 750 tissues	AIRFLEX*	blue	330	380	1	9.413 046
Large roll of 750 tissues	cellulose/latex 82 g/m ²	white	315	340	1	9.413 094
Large roll of 950 tissues	cellulose/latex 57 g/m ²	white	315	340	1	9.413 095



4 Cleaning wipes, WYPALL*X 60, tear-resistant

Hydroknit*material.

Kimberly-Clark

The general purpose, extended use, wipe range. Every Wypall*X cloth absorbs liquid rapidly and is puncture and cut-resistant. Extremely hard-wearing and reliable, with excellent tear resistance, even under wet conditions.

The unique Hydroknit*fabric structure used for Wypall*X ensures that these cloths provide long lasting, economical cleaning and wiping across a range of possible applications.

Package contents	Width mm	Length mm	PK	Cat. No.
Large roll (white) of 750 tissues	380	410	1	9.413 036
10 boxes (white) of 126 tissues	230	425	10	9.413 035
Individual cloths (folded in Z shape), 12 bags of 76 tissues	365	315	12	9.413 034
Centre-feed, Barrel Roll (blue) of 150 tissues, textured	245	420	1	9.413 019



11. Cleanroom, Cleaning and sterilisation

Cleaning implements/Wipes, cloths

Dispensing systems

Wall and floor dispensing units for small and large rolls.

Kimberly-Clark

For	Width mm	Depth mm	Height mm	Colour	Material	PK	Cat. No.
Wall, for small rolls 260 mm wide	320	150	150	white	plastic	1	9.413 043 1
Floor, for large rolls 490 mm wide	515	300	330	blue	Metal	1	9.413 047 2



9.413 043



9.413 047

Floor stand

(NEW!)

Description	PK	Cat. No.
Floor stand with waste bag holder for rolls up to 42cm width	1	6.266 990 3
Wall bracket with waste bag holder for rolls up to 42cm width	1	6.266 991 4



6.266 990



6.266 991

5 AQUARIUS*Dispenser casing for cleaning wipes, Wypall*L 10

Cut down consumption of wiping cloths by up to 40% with the revolutionary Roll Control System from Kimberly-Clark, which is extremely economical to use. The controlled tear-off system prevents waste caused by tearing off overly long strips of paper. A fresh, clean towel is available at any time. The risk of cross contamination is reduced thanks to optimised hygiene. The circular dispenser has no sharp edges or metal parts liable to rust.

Kimberly-Clark

Wypall*L 10 cleaning wipes - RCS

Soft, absorbent wipes. The roll control system enables you to tear off individual towels. 100% recycled Airflex*Material. Perforated, 1-ply, 6 rolls containing 630 sheets, 18.5cm x 38cm, white.

Dispenser for Roll Control System

Dispenser casing for Roll Control System (RCS), plastic, white. Dimensions (H x W x D): 278 x 276 x 226mm

5



Type	PK	Cat. No.
WYPALL* L 10 cleaning wipes - RCS	6	9.413 018
AQUARIUS* Dispenser casing for Roll Control System	1	6.264 929

Cleaning implements/Wipes, cloths



1 LLG-Hand towels, 3-ply (NEW)

Bright white, extra absorbent, completely unfolding, matching with most dispenser systems, economic use by high absorbency and comfortable size. Suitable for LLG-Dispenser for hand towels, Cat No 7.618 375.

Package contents	Width mm	Length mm	PK	Cat. No.
20 Packs with 100 tissues	220	420	20	6.266 568



2 LLG-Hand towel dispenser (NEW)

White plastic, easy to refill, with window to observe the filling level, suitable for towel up to 245mm width, e.g. Cat. No. 6.266 568.

Height mm	Width mm	Depth mm	PK	Cat. No.
375	280	137	1	7.618 375



3 Hand towels, KLEENEX® Ultra (NEW)

The new way to get more value for money; tissues made of extremely soft, Airflex*material. So economical, they can be used in any situation.

Kimberly-Clark

Package contents	Description	Width mm	Length mm	PK	Cat. No.
Clip of 94 tissues	2-ply	215	415	1	9.413 051
30 clips of 124 tissues	2-ply	215	315	1	9.413 077
Clip of 96 tissues	3-ply	215	315	1	9.413 057
Clip of 72 tissues	3-ply	215	415	1	9.413 050



4 Hand Towels, Scott® Performance

Made of highly absorbent, Airflex*material. These rapidly absorbing hand towels are very effective for drying hands due to high moisture absorbency and good wet strength. 1-ply, 70 % recycled material.

Kimberly-Clark

Package contents	Colour	PK	Cat. No.
Pack of 180 towels, 215mm x 315mm	White	1	9.413 048
Pack of 180 towels, 215mm x 315mm	Blue	1	9.413 052



5 Towels, Scott® Plus

Airflex*material, ultra-white, 1-ply x 35g/m².

Kimberly-Clark

Type	Package contents	Width mm	Length mm	PK	Cat. No.
Small - cross-folded	boxes of 180 towels	247	230	20	9.413 108



6 7 Towels, Scott® Excellent Plus

Airflex*material, ultra-white, 2-ply. SCOTT® Hand Towels are renowned for their reliability, consistent performance and in-use value. Made from AIRFLEX*Highly Absorbent Fabric, they offer an effective and economical solution to your hand drying requirements. The towels are folded and interleaved so that when they are dispensed they provide an individual towel that is ready for use and has been touched only by the user. The system is hygienic and helps to reduce wastage. FSC-certified.

Kimberly-Clark

Type	Package contents	Width mm	Length mm	PK	Cat. No.
Small - cross-folded	Boxes of 180 towels	247	230	20	9.413 106
Medium - cross-folded	Boxes of 110 towels	250	330	20	9.413 107



11. Cleanroom, Cleaning and sterilisation

Cleaning implements/Wipes, cloths

1 LLG-Cellulose tissue, supplied in stacks

- Unbleached or highly bleached
- Pack quantity: 1 x 5kg

Description	Width mm	Length mm	PK	Cat. No.
unbleached	600	400	1	9.413 210
highly bleached	600	400	1	9.413 211



2 Askina® Brauncel® cellulose absorbent pads

Non-sterile. Size 40mm x 50mm. In rolls of 500. Soft, perforated design, easy to tear off. Extremely absorbent and strong.

B. Braun

Description	PK	Cat. No.
Cellulose absorbent pads	500	9.413 101
Dispenser	1	9.413 102



3 Cotton wool roll

- 100 % Cotton
 - White cotton - non chlorine-bleached
 - according to European Pharmacopoeia & Ecotex 100 Certificate
 - Width - Max. 25cm, length ±7m
- For absorbent cotton roll:
- highly absorbent
 - Tenacity of water : appr. 23 ml/g of cotton

Alan & Co

Description	PK	Cat. No.
Cotton roll 500g, absorbent	1	9.413 155
Cotton roll 500g, non-absorbent	1	9.413 156



4 Cotton wool

Meets requirements of German Pharmacopoeia.
100% viscose.
Medical cotton wool for home use and general hygiene.

Capacity g	PK	Cat. No.
100	1	9.413 152



➔ Surface protector - please see page 178

Brushes, natural bristle



Type	Diam. mm	Length mm	PK	Cat. No.
Pipette brush	5	480	1	9.019 010 1
Pipe cleaner	4	150	100	9.019 005 2
Reagent bottle brush with wool tip	10	190	1	9.019 020
Reagent bottle brush with head bundle	10	250	1	9.019 030 3
Reagent bottle brush with wool tip	15	280	1	9.019 035 4
Reagent bottle brush with wool tip	30	270	1	9.019 040
Erlenmeyer flask and bottle brush with head bundle	50	340	1	9.019 050
Erlenmeyer flask and bottle brush with head bundle	63	470	1	9.019 060
Beaker brush with wooden handle	85	390	1	9.019 070 5
Beaker brush with wooden handle	85	430	1	9.019 080
Beaker brush with wooden handle	80	430	1	9.019 090
Beaker brush with extra long wooden handle	80	630	1	9.019 092
Rinsing brush**	60	220	1	9.019 110 6
Set*			1	9.019 002
Hinge glasses brush bristled falb, with hinge		440	1	6.237 788
Replacement head for Hinge glasses brush		43	1	6.266 904
Burette brush with 1m long wire handle	30	1000	1	9.019 100

* Set consisting of order numbers 9.019 010, 9.019 020, 9.019 030, 9.019 040, 9.019 050, 9.019 060, 9.019 070, 9.019 080, 9.019 090 and 9.019 092.

**Nylon

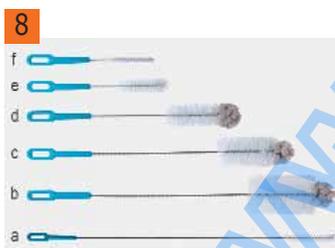


7 Cleaning brushes, Perlon®

Pack of 10.

Isolab

Description	Length mm	For	PK	Cat. No.
Brush with swivel head, head 21mm x 44mm x 24mm	330	vessels with NS 29/32 or diam. 24 mm	10	6.242 423



8 LLG- Cleaning brushes



Excellent tools for washing and cleaning of all type of laboratory bottles, flasks, tubes, condensers, burettes, etc. Brush material is manufactured from highest quality of fibre/perlon for long life cycle. Brush stem is manufactured from corrosion proof twisted steel wire. Brush handle is manufactured from polypropylene and offers extreme easy handling and use of the brush. Unique handle design enables hanging of the brush to a convenient place for easy reach. Spherical sponge top part enables access to every corner of the labware and guarantees perfect cleaning results.

Description	Length mm	For	Figure	PK	Cat. No.
LLG-Cleaning brush 20x125mm	845	burettes and tubings	a	10	6.267 293
LLG-Cleaning brush 70x130mm	460	large size bottles	b	10	6.267 294
LLG-Cleaning brush 50x110mm	460	medium size bottles	c	10	6.267 295
LLG-Cleaning brush 40x110mm	380	small size bottles	d	10	6.267 296
LLG-Cleaning brush 25x100mm	295	test tubes	e	10	6.267 297
LLG-Cleaning brush 12x80mm	235	narrow test tubes	f	10	6.267 298



9 Hair brushes, oval

Black goat hair. In metal mounts on round wood handle.

Size	Diam. mm	PK	Cat. No.
0	6	1	9.172 025
1	7	1	9.172 026
2	8	1	9.172 027

11. Cleanroom, Cleaning and sterilisation

Cleaning implements/Brushes

1 Hair brushes, broad

Bear bristle. Blunt head. Flat stem.

Width mm	Wall thickness mm	Hair length mm	PK	Cat. No.
12.5	3.9	16	1	9.172 042
19.0	3.9	18	1	9.172 043
25.4	4.1	22	1	9.172 044



2 Red marten-hair brushes

Silver ferrule. Black enamelled round handle.

Size	Hair length mm	PK	Cat. No.
0	8	1	9.172 050
1	9	1	9.172 051
2	11	1	9.172 052
3	13	1	9.172 053
4	15	1	9.172 054
5	18	1	9.172 055
6	19	1	9.172 056



3 Brush set, water-colour

Water-colour brushes, round, fine hair blend.
Pack of one each: sizes 2/0, 0, 1, 2, 3, 4.

Type	PK	Cat. No.
Brush set, water-colour	1	9.172 060



4 Brush set, silk painting

Silk painting brush set, comprising of one each - round tip, sizes 1, 4, 8; textured brush size 18.

Type	PK	Cat. No.
Brush set, silk painting	1	9.172 062



5 Brush set

Comprising of one each - round sizes 0, 4 and 6, flat sizes 6 and 10.

Type	PK	Cat. No.
Brush set	1	9.172 063



6 Brush set

Comprising one each size 3 round and pointed, size 0 flat and pointed and size 1 wide hair brushes.

Type	PK	Cat. No.
Brush set	1	9.172 061



7 LLG- Weighing brush, with wooden handle

Fine hair weighing brush with pointed tips and wooden handle.
Excellent tool for cleaning of weighing boats, weighing dishes and analytical balances.

Description	PK	Cat. No.
LLG- Weighing brush	1	6.267 404





1 Balance brush **NEW!**
Oval. Size 2/6mm, size 4/9mm and size 6/12mm

Type	Size	Diam. mm	PK	Cat. No.
Brush	2	6	1	6.266 807
Brush	4	9	1	6.074 169
Brush	6	12	1	6.266 808
Brush set*			1	6.266 825

*consisting of one brush each size 2/6mm, size 4/9mm and size 6/12mm



2 Brush bag
Empty, imitation leather bag, for 8 brushes.

Type	PK	Cat. No.
Brush bag	1	9.172 064



3 Draining racks, PE-coated wire

PE-coated wire.
Wall or bench mounting.
With drip channel and plastic covered feet.
Dimensions (L x W x H): 420mm x 160mm x 610mm.

Description	PK	Cat. No.
For 60 reagent bottles and 5 flasks	1	9.003 305
For 24 reagent bottles and 20 flasks	1	9.003 320



4 Draining rack, PS

Wall mounting, with wide draining trough. Pegs can be inserted as required. Peg holes are sealed at the rear to prevent water leakage penetrating the wall behind. Kartell
Supplied with 72 pegs (15mm diameter, 95mm long), 11 small pegs (6mm diameter, 95mm long) drain tubing and fittings for wall mounting.
Dimensions (L x W x H): 450 x 63 x 110 mm

Rods 95 x 15mm Quantity	Rods 95 x 6mm Quantity	Description	PK	Cat. No.
72	11	Draining rack, wallmount possible	1	9.003 240
	11	Place supports	11	9.003 032
72		Place supports	72	9.003 033



5 Draining rack LaboPlast®, PVC

Wall mounting. Perforated with holes to take interchangeable pegs as indicated. Supplied complete with wall-mounting screws and dowels, PVC outlet channel and drainage connection. Bürkle

Rods 60 x 6 mm Quantity	Rods 100 x 10 mm Quantity	Rods 150 x 12 mm Quantity	Width mm	Height mm	PK	Cat. No.
5	26	2	400	400	1	9.003 374
10	39	4	500	500	1	9.003 375
15	56	6	600	600	1	9.003 376

11. Cleanroom, Cleaning and sterilisation

Cleaning implements/Draining racks

Draining Rack, ABS

Laboratory space is always in high demand. Scienceware® Lab-Aire® II Drying Racks are a practical solution for drying and storing fragile, frequently used labware. Benchtop Dryers lets you place your dryer wherever it will be most convenient and a sturdy base provides excellent balance and support. Wallmount dryers keep labware off the bench and out of the way as it dries. Easily installs on walls or standard pegboard using moulded-in tabs with key hole openings. Hardware not included.

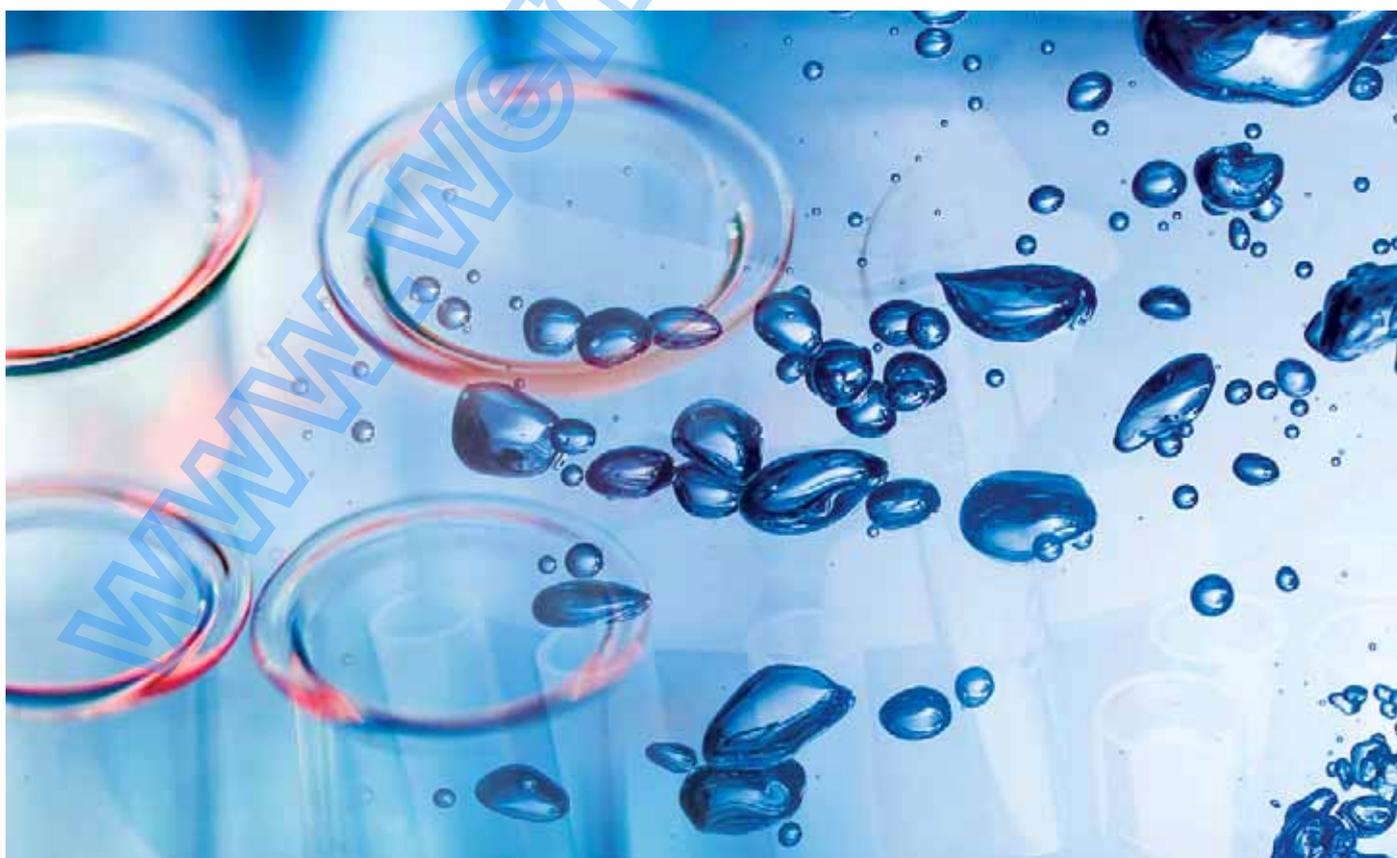
Bel-Art Products

- Rugged ABS plastic will never corrode and easily wipes clean
- Drip/storage trays have scalloped wells to hold long thin labware
- 3 different sizes of pegs can be moved and repositioned to hold a variety of labware including beakers, flasks, bottles, test tubes and cylinders
- With drain

Rods 76 mm Quantity	Rods 310 mm Quantity	Rods 127 mm Quantity	Width mm	Height mm	Depth mm	Description	PK	Cat. No.
6	7	6	375	240	127	Wallmount possible	1	9.003 301 1
12	14	12	375	390	178		1	9.003 302
18	21	18	375	594	127	Wallmount possible	1	9.003 303
12	14	12	375	417	127	Wallmount possible	1	9.003 304
18	21	18	375	570	178		1	9.003 306



9.003 301





SONOREX High-power ultrasonic baths
SONOPULS Ultrasonic homogenizers

- Disinfection and cleaning
- Homogenizing
- Emulsifying
- Degassing
- Preparation of samples



In our laboratory brochure you will find information on our products and a variety of possible applications !

BANDELIN electronic is specialized in the development and manufacturing of ultrasonic devices and is the worldwide only full-service provider of ultrasonic devices and disinfection and cleaning agents, with approvals and certifications according to EN ISO 9001 and 13485 for medical devices.

Benefit from the expertise of the market leader !



RELAUNCH OF OUR WEBSITE

www.bandelin.com

look for more information about „Ultrasound in the laboratory“

Ultrasonic baths Sonorex

Sonorex Super ultrasonic baths

Bandelin

These devices work at 35kHz and have PZT transducers for maximum cleaning power. SweepTec for permanent sound field oscillation ensures even and gentle cleaning*. Integrated heating is available. Power information: High ultrasonic peak power and HF-power 230V, 50/60Hz, or 115V. All models are spill-proof with stainless steel tanks (RK 102H hard-chromium plated) and outer cases, drip proof.

Sonorex Digitec ultrasonic baths

Modern digital ultrasonic baths. These devices work at 35kHz and have PZT transducers for maximum cleaning power. SweepTec for permanent sound field oscillation ensures even and gentle cleaning*. Optional with heater 20-80°C, thermostatically adjustable, with LED-display for target value and actual value of temperature. Optical signal in case of excess temperature. 4 sizes are spray-proof with stainless steel tanks and outer cases. All devices are available with infrared interface.

Sonorex Digitplus ultrasonic bath as Sonorex Digitec but power control from 20 to 100%.

Sonorex Technik - welded tanks.

Capacities up to 230L and internal tank length up to 1700mm. Frequency 40kHz. From RM 110 UH upwards 25kHz are possible.

Sonorex ultrasonic pipette cleaner.

Automatic ultrasonic cleaning and rinsing of pipettes or other glassware.

All units are CE marked.

1 Ultrasonic baths, Sonorex Super

Bandelin

Cleaning of

- technical glassware like burettes, pipettes, petri dishes and laboratory flasks
- analysis sieves up to 400 mm diameter
- metal parts of all kinds
- electronic components

Cleaning and disinfection of medical instruments

Degassing of liquids to determine concentration

Acceleration of suspending processes

Production of emulsions

Preparation of samples for analysis, e. g. analysis of hair

- Type RK 102 H and above supplied with outlet, 1 to 15 min. timer and continuous operation.
- Type H with heating adjustable from 30 to 80°C, 230V~, or 115V~, 50/60 Hz
- Types RK 106, RK 1028 C and RK 1040 are ideal for sieve cleaning.



Type	Internal dimensions (W x D x H) mm	Capacity L	Ultra-sonic power		Heating power W	PK	Cat. No.
			W	W _{eff}			
RK 31	190 x 85 x 60	0.90	160	40		1	9.877 021
RK 52	150 x 140 x 100	1.80	240	60		1	9.877 052
RK 52 H	150 x 140 x 100	1.80	240	60	140	1	9.877 051
RK 100	240 x 140 x 100	3.00	320	80		1	9.877 100
RK 100 H	240 x 140 x 100	3.00	320	80	140	1	9.877 101
RK 102 H	240 x 140 x 100	3.00	480	120	140	1	9.877 103
RK 103 H	240 x 140 x 150	4.00	560	140	200	1	9.877 114
RK 106*	240 x 130*	5.60	480	120		1	9.877 106
RK 156	500 x 140 x 100	6.00	640	160		1	9.877 156
RK 156 BH	500 x 140 x 150	9.00	860	215	600	1	9.877 155
RK 255 H	300 x 150 x 150	5.50	640	160	280	1	9.877 256
RK 510	300 x 240 x 150	9.70	640	160		1	9.877 510
RK 510 H	300 x 240 x 150	9.70	640	160	400	1	9.877 511
RK 512 H	300 x 240 x 200	13.00	860	215	400	1	9.877 512
RK 514	325 x 300 x 150	13.50	860	215		1	9.877 540
RK 514 H	325 x 300 x 150	13.50	860	215	600	1	9.877 516
RK 514 BH	325 x 300 x 200	18.70	860	215	600	1	9.877 515
RK 1028	500 x 300 x 200	28.00	1200	300		1	9.877 537
RK 1028 H	500 x 300 x 200	28.00	1200	300	1300	1	9.877 529
RK 1028 C	500 x 300 x 300	45.00	2000	500		1	9.877 528
RK 1040*	500 x 195*	39.50	1520	380		1	9.877 108
RK 1050	600 x 500 x 200	58.00	2400	600		1	9.877 551

* Ø x D





1 Ultrasonic baths SONOREX DIGITEC/SONOREX DIGIPLUS

Bandelin

4-step "plug and clean" operation - heater range 20 to 80°C, thermostatically adjustable, with LED display for target and actual temperature values - optical signal in case of overtemperature - timer for countdown and continuous operation - Degas: adjustable pulse sound level for removing unwanted air bubbles, with LCD display indicator - spray-proofed, stainless steel housing, protection class: IP33 - SweepTec® for permanent frequency oscillation - 230V~ 50/60Hz, or 115V~.

DL-Models additionally with power setting 20 to 100%.

Type	Int. tank dims. (W x D x H)	Capacity	Ultra-sonic power	HF peak power	Heating power	PK	Cat. No.
	mm	L	W	W _{eff}	W		
DT 31	190 x 85 x 60	0.9	160	40		1	9.877 830
DT 31 H	190 x 85 x 60	0.9	160	40	70	1	9.877 831
DT 52	150 x 140 x 100	1.8	240	60		1	9.877 832
DT 52 H	150 x 140 x 100	1.8	240	60	140	1	9.877 833
DT 100	240 x 140 x 100	3.0	320	80		1	9.877 834
DT 100 H	240 x 140 x 100	3.0	320	80	140	1	9.877 835
DT 102 H	240 x 140 x 100	3.0	480	120	140	1	9.877 836
DT 103 H	240 x 140 x 150	4.0	560	140	200	1	9.877 837
DT 156	500 x 140 x 100	6.0	640	160		1	9.877 838
DT 255	300 x 150 x 150	5.5	640	160		1	9.877 839
DT 255 H	300 x 150 x 150	5.5	640	160	280	1	9.877 840
DT 510	300 x 240 x 150	9.7	640	160		1	9.877 841
DT 510 H	300 x 240 x 150	9.7	640	160	400	1	9.877 842
DT 106	Ø 240, 130 Tief	5.6	480	120		1	9.877 848
DT 156 BH	500 x 140 x 150	9.0	860	215	600	1	9.877 849
DT 512 H	300 x 240 x 200	13.0	860	215	400	1	9.877 850
DT 514	325 x 300 x 150	13.5	860	215		1	9.877 851
DT 514 H	325 x 300 x 150	13.5	860	215	600	1	9.877 852
DT 514 BH	325 x 300 x 200	18.7	860	215	600	1	9.877 853
DT 1028	500 x 300 x 200	28.0	1200	300		1	9.877 854
DT 1028 H	500 x 300 x 200	28.0	1200	300	1300	1	9.877 855
DT 1028 CH	500 x 300 x 300	45.0	1200	300	1450	1	9.877 857
DT 1050 CH	600 x 500 x 300	90.0	2400	600	1950	1	9.877 860
DL 102 H	240 x 140 x 100	3.0	480	120	140	1	9.877 865
DL 156 BH	500 x 140 x 150	9.0	860	215	600	1	9.877 866
DL 255 H	300 x 150 x 150	5.5	640	160	280	1	9.877 867
DL 510 H	300 x 240 x 150	9.7	640	160	400	1	9.877 868
DL 512 H	300 x 240 x 200	13.0	860	215	400	1	9.877 869
DL 514 BH	325 x 300 x 200	18.7	860	215	600	1	9.877 870
DL 1028 H	500 x 300 x 200	28.0	1200	300	1300	1	9.877 871

Ultrasonic baths Sonorex Digitec DT ... F - Basic equipment

Bandelin

- Flat ultrasonic baths with fast degassing and for sample preparation
- Sample preparation in laboratory flasks
 - Fast degassing of samples at the push of the button
 - Homogenising
 - Same power density in all ultrasonic baths
 - Reproducibility of results in the different bath sizes
 - Uniform sonication of samples irrespective of size and arrangement of the flasks.

Items supplied:

DT 510 F - flask holder GL 510 F and 250ml Tickopur TR 3

DT 1028 F - 2 x flask holder GL 510 F and 250ml Tickopur TR 3.

Spring clamps EK are necessary to fix the laboratory flasks quickly and easily to the flask holder GL.

Type	Int. tank dims. (W x D x H)	Capacity	Ultra-sonic power	HF peak power	PK	Cat. No.
	mm	L	W	W _{eff}		
DT 510 F	300 x 240 x 65	4.30	560	140	1	9.877 862 2
DT 1028 F	500 x 300 x 65	9.50	1280	320	1	9.877 863 3



9.877 862



9.877 863

1 SONOSHAKE Ultrasonic bath with shaking device

Bandelin

Consisting of:

Ultrasonic bath Sonorex Digitec DT 1028 F

- especially for sonification of samples in laboratory flasks and for rapid degassing
- low-profile, ultrasonic bath with stainless steel tank, inner dimensions 500mm x 300mm x 65mm (L x W x D)
- housing made of stainless steel, protected against spray, 535mm x 325mm x 205mm (L x W x H)
- outlet: G½ ball valve
- ultrasonic power 1280W
- HF power 320W
- working frequency 35kHz
- Current consumption 1.4A

Shaking device SA 1028

- analogue setting of time and shaking frequency
- reciprocating motion: settings in 4 steps possible of up to 200/min
- constant amplitude of 20mm independent of loading
- rack easy to remove - easy mounting of the laboratory clamps EK 10-250 (separately to order)
- footprint approx. 410mm x 280mm (L x W)
- Holds 36 x 10ml, 36 x 25ml, 18 x 50ml, 12 x 100ml or 10 x 250ml flasks
- Bench space required for Sonoshake approx. 850mm x 360mm (L x W)



The Sonoshake can be used either as an ultrasonic bath for sample preparation, a shaking device SA1028 only, or both combined.

Type	PK	Cat. No.
SONOSHAKE	1	9.877 864
SA 1028	1	9.877 650

2 Flask Holder for SONOREX DIGITEC DT...F Ultrasonic Baths

Stainless steel. Flask Clips EK required.

Bandelin

Type	For bath type	PK	Cat. No.
GL 510 F*	DT 510 F, DT 1028 F	1	9.877 579

* in DT 1028 F fit 2 pieces.



3 Suspension baskets for Sonorex ultrasonic baths

Stainless steel.

Bandelin

Optimal ultrasonic wave transmission. Items to be cleaned should not be placed on the bottom of the tank.

Type	For bath type	Length	Height	Width	PK	Cat. No.
		mm	mm	mm		
K 08	RK/DT 31 / H	65	170	50	1	9.877 630
K 1 C	RK/DT 52 / 52 H	110	120	40	1	9.877 631
K 3 C	RK/DT 100 / 100 H / 102 H / 102 H-RC, DL 102 H	110	200	40	1	9.877 633
K 3 CL	RK/DT 103 H	110	200	40	1	9.877 632
K 6*	RK/DT 106	215	215	50	1	9.877 634
K 6 L	RK/DT 156	100	460	50	1	9.877 636
K 6 BL	RK/DT 156 BH, DL 156 BH	100	460	50	1	9.877 637
K 5 C	RK/DT 255 H / 255 H-RC, DL 255 H	110	260	40	1	9.877 635
K 10	RK/DT 510 / 510 H / 510 H-RC, DL 510 H	195	250	50	1	9.877 697
K 10 B	RK/DT 512 H, DL512 H	195	250	50	1	9.877 700
K 14	RK/DT 514 / H	245	275	50	1	9.877 694
K 14 B	RK/DT 514 BH / 514 H-RC, DL 514 BH	245	275	50	1	9.877 701
K 28	RK 1028/H / DT 1028 / H, DL 1028 H	245	455	50	1	9.877 698
K 28 C	RK/DT 1028 CH	245	455	50	1	9.877 702
K 50	RK 1050	450	545	50	1	9.877 699
K 50 C	RK/DT 1050 CH	450	545	50	1	9.877 703

*round, adjustable.





1 Handle adjusters, GV 3 and GV 10, for Sonorex insert baskets

Bandelin

The immersion depth of the baskets can be continuously adjusted using the handle adjuster prevents laboratory flasks from floating, tipping over or becoming flooded. Quick and easy attachment to insert baskets or utensil holders (except GH 1).
1 pair.

Type	For baskets	PK	Cat. No.
GV 3	K 1 C, K 3 C, K 3 CL, K 5 CL, K 6 L, K 6 BL	1	9.877 720
GV 10	K 10, K 10 B, K 14, K 14 B, K 28, K 28 C, GH 10, GH 28	1	9.877 721



2 Flask Clips for Sonorex insert baskets

Bandelin

Stainless steel. Suitable for insert baskets and instrument holders with mesh size up to 12.5mm x 12.5mm and for glass holder GL for DT...F. Essential for the attachment of laboratory flasks.

Type	PK	Cat. No.
EK 10 for insert baskets up to 31 mm dia.	1	9.877 651
EK 25 for insert baskets up to 42 mm dia.	1	9.877 653
EK 50 for insert baskets up to 52 mm dia.	1	9.877 655
EK 100 for insert baskets up to 65 mm dia.	1	9.877 657
EK 250 for insert baskets up to 85 mm dia.	1	9.877 658



3 Lids for Sonorex ultrasonic baths

Bandelin

Stainless steel.
For covering bath tanks, as outlined below.

Type	For bath type	PK	Cat. No.
D 08	RK/DT 31 / H	1	9.877 597
D 52	RK/DT 52 / 52 H	1	9.877 601
D 100	RK/DT 100 H / 102 H / 102 H-RC / 103 H, DL 102 H	1	9.877 603
D 6	RK/DT 106	1	9.877 606
D 156	RK/DT 156 BH, DL 156 BH	1	9.877 602
D 255	RK/DT 255 H / 255 H-RC, DL 255 H	1	9.877 605
D 510	RK/DT 510 / 510 H / 510 H-RC / 512 H, DL 510 H	1	9.877 610
D 514	RK/DT 514 / 514 H / 514 BH / 514 BH-RC, DL 514 BH	1	9.877 604
D 1028	RK 1028/H / DT 1028 H, DL 1028 H	1	9.877 607
D 1028C	RK/DT 1028 CH	1	9.877 600
D 1050 C	RK 1050 CH / DT 1050 CH	1	9.877 608



4 Positioning lids for Sonorex ultrasonic baths

Bandelin

Stainless steel.
For supporting inset beakers.

Type	For bath type	PK	Cat. No.
DE 08	RK/DT 31 / H	1	9.877 621
DE 52	RK/DT 52 / 52H / 52H-RC	1	9.877 611
DE 100	RK/DT 100 H / 102 H / 103 H, DL 102 H	1	9.877 613
DE 6	RK/DT 106	1	9.877 616
DE 156	RK/DT 156 BH / 156 BH-RC, DL 156 BH	1	9.877 612
DE 255	RK/DT 255 H / 255 H-RC, DL 255 H	1	9.877 615
DE 510	RK/DT 510 / 510 H / 512 H, DL 510 H	1	9.877 620
DE 514	RK/DT 514 H / 514 BH / 514 BH-RC, DL 514 BH	1	9.877 614
ES 4	RK 1028/H/CH, DT 1028 / H/CH, RK 1050 / DT 1050 CH, DL 1028 H	1	9.877 617



5 Sonorex insert beakers

Bandelin

For positioning lids and beaker holders.
SD 06, PD 06, EB 05: with retaining ring
SD 05, KB 04, SD 04: with retaining ring, only for DE 08
SD 09: with retaining ring

Type	Material	Capacity ml	Diam. mm	Height mm	PK	Cat. No.
SD 04	Glass	400	76	110	1	9.877 624
SD 05	Glass	600	76	150	1	9.877 645
SD 06*	Glass	600	84	125	1	9.877 622
SD 09	Glass	1000	91	180	1	9.877 623
EB 05*	Stainless steel	600	87	120	1	9.877 626
KB 04	Plastic	400	76	110	1	9.877 644
PD 06*	Plastic	600	86	125	1	9.877 628

* with lid.

11. Cleanroom, Cleaning and sterilisation

Ultrasonic cleaners/Instruments

1 Inset baskets for SONOREX insert beakers

Mesh aperture 1mm x 1mm.

Bandelin

Type	For	Material	Int. diam. mm	PK	Cat. No.
PD 04	Inset beakers	Plastic	60	1	9.877 643
KD 0*	Inset beakers	Stainless steel	75	1	9.877 642

*not for SD 04, SD 05 and KB 04



2 Inset basket accessories for Sonorex ultrasonic baths

Perforated bottom plastic.
For cleaning sensitive components.

Bandelin

Type	For bath type	Internal dimensions (W x D x H) mm	PK	Cat. No.
PK 1 C	RK 52 / H, DT 52 / H	90 x 90 x 66	1	9.877 661
PK 3 C	RK 103 H, DT 103 H	90 x 187 x 56	1	9.877 666
PK 2 C	RK 100 H, RK 102 H / DL 102 H DT 100 / H, DT 102 H / H-RC	115 x 195 x 88	1	9.877 664
K 5 P	RK 255 / H, DT 255 / H, DL 255 H	96 x 254 x 130	1	9.877 667



3 Ultrasonic baths, Sonorex Technik

Modular range - with 6 standard tank capacities in 4 versions (without heating, without ultrasonic on request). For cleaning and rinsing. With integrated ultrasonic generator.

Bandelin

Frequencies: 25kHz (models up to RM 110) or 40kHz (rest of range). For 220-240V, 50/60Hz (RM 110: 210 UH, 400V, 3ph. 50/60Hz, Cekon plug 16A). With 2mm thick, stainless steel V 4A, 1.457, welded tank. With overflow, drainage outlet and time switch 1 - 15 min. or can be set for continuous operation. With adjustable heating 30 to 80°C.

Type	Int. tank dims. (W x D x H)	Capacity	Ultra-sonic power	HF peak power	Heating power	PK	Cat. No.
	mm			L	W		
RM 16 UH	325 x 275 x 200	13	1200	1 x 300	800	1	9.877 570
RM 40 UH	480 x 300 x 300	30	2000	1 x 500	1250	1	9.877 571
RM 75 UH	580 x 500 x 300	60	4000	1 x 1000	1950	1	9.877 572
RM 110 UH	600 x 450 x 450	110	4000	1 x 1000	4800	1	9.877 573
RM 180 UH	1000 x 500 x 400	160	2x4000	2 x 1000	7200	1	9.877 575
RM 210 UH	750 x 650 x 500	210	2x4000	2 x 1000	7200	1	9.877 577



4 5 Accessories for Sonorex Technik ultrasonic baths

Stainless steel. Inset baskets and lids for Technik models. Lids protect against evaporation and reduce operating noise. Baskets for hanging in bath tanks as outlined below.

Bandelin

Type	Description	For bath type	Internal dimensions (W x D x H) mm	PK	Cat. No.
MK 16B	basket	RM 16 UH	275 x 245 x 50	1	9.877 680
MK 40B	basket	RM 40 UH	430 x 240 x 50	1	9.877 681
MK 75B	basket	RM 75 UH	530 x 445 x 50	1	9.877 682
MK 110	basket	RM 110 UH	530 x 410 x 90	1	9.877 683
MK 180	basket	RM 180 UH	930 x 460 x 90	1	9.877 684
MK 210	basket	RM 210 UH	680 x 610 x 90	1	9.877 685
MD 16	Lid	RM 16 UH		1	9.877 582
MD 40	Lid	RM 40 UH		1	9.877 583
MD 75	Lid	RM 75 UH		1	9.877 584
MD 110	Lid	RM 110 UH		1	9.877 585
MD 180	Lid	RM 180 UH		1	9.877 586
MD 210	Lid	RM 210 UH		1	9.877 587





1 Insert tubs for Sonorex ultrasonic baths

NEW!

Unperforated plastic, with cover. For cleaning with aggressive liquids.

Bandelin

Type	For bath type	Internal dimensions (W x D x H) mm	PK	Cat. No.
KW 3	RK/DT 102 H / 102 H-RC / 103 H / 100 / H, DL 102 H	195 x 115 x 88	1	9.877 800
KW 5	RK/DT 255 H/-RC, DL 255 H	154 x 96 x 130	1	9.877 801
KW 14	RK/DT 514/H	280 x 215 x 145	1	9.877 802
KW 14 B	RK/DT 514 BH/-RC, DL 514 BH	275 x 210 x 195	1	9.877 803
KW 28-0	RK 1028/H, DT 1028 H/CH, DL 1028 H	437 x 230 x 155	1	9.877 804
KW 50-0	RK 1050	517 x 445 x 184	1	9.877 806
KW 50 B-0	RK/DT 1050 CH	520 x 445 x 284	1	9.877 717
KW 10-0	RK 510/H, DT 510/H/H-RC, DL 510 H	242 x 182 x 135	1	6.207 107



2 Ultrasonic sieve-bath Sonorex Super ultrasonic bath RK 106

NEW!

Ultrasonic bath for cleaning of 1 test sieve with 200 mm diameter

Bandelin

- Tank: stainless steel
- Housing: stainless steel drip-proof
- Outlet: ball valve, right side
- Degree of protection: IP 32
- Time switch: 1-15 min and ∞

Type	Description	PK	Cat. No.
RK 106	Ultrasonic bath for 1 test sieve EU-Plug	1	9.877 106
RK 106	Ultrasonic bath for 1 test sieve UK-Plug	1	9.877 105
RK 106	Ultrasonic bath for 1 test sieve CH-Plug	1	9.877 107
D 6	Lid for RK 106	1	9.877 606
SH 7	Sieve holder	1	9.877 784



3 Ultrasonic bath Sonorex Super ultrasonic bath RK 1028 C

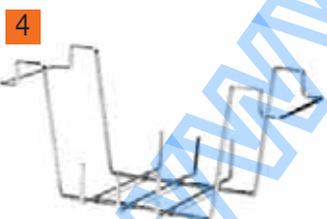
NEW!

For 5 test sieves with 200 mm diameter

Bandelin

- Tank: stainless steel
- Housing: stainless steel drip-proof
- Handles: on sides
- Degree of protection: IP 32
- Time switch: 1-15 minutes or continuous operation

Type	Description	PK	Cat. No.
RK 1028 C	Ultrasonic bath for 5 test sieves EU-Plug	1	9.877 528
RK 1028 C	Ultrasonic bath for 5 test sieves UK-Plug	1	9.877 538
RK 1028 C	Ultrasonic bath for 5 test sieves CH-Plug	1	9.877 539
D 1028 C	Lid for RK 1028 C	1	9.877 600
SH 28 C	Sieve holder	1	9.877 746



4 Utensil and test sieve holder for Sonorex ultrasonic baths

NEW!

Instrument and test sieve holder.

Bandelin

- 9.877 781: Holder for 1L glass flasks, 105mm diameter. GH 1
- 9.877 784: Sieve holder SH 7 for test sieve 200mm diameter.
- GH 10/28 instrument holders, stainless steel, mesh size 12.5mm x 12.5mm

Type	For bath type	Dimensions (W x D) mm	PK	Cat. No.
GH 1	RK/DT 52, RK/DT 100 / H, RK 103 H, RK/DT 102 H / H-RC, DT 103 H, DL 102 H	129 x 117	1	9.877 781
SH 7	RK/DT 106	-	1	9.877 784
GH 10	RK/DT 510 / 510 H / H-RC, DL 510 H	260 x 200	1	9.877 731
GH 28	RK 1028/H, DT 1028 H/CH, RK 1040	455 x 250	1	9.877 733
SH 28 C	RK 1028 C	-	1	9.877 746

➔ Sieves please see page 544.

11. Cleanroom, Cleaning and sterilisation

Ultrasonic cleaners/Instruments

1 High-power ultrasonic cleaning unit SONOREX SUPER RK 1028 CH and RK 1050 CH

Bandelin



Specifications:

	RK 1028 CH/RK 1050 CH
Inner tank dimensions (WxDxH):	500 x 300 x 300mm/600 x 500 x 300mm
Transducers:	8 PZT-/16-PZT-broad beam transducers
Capacity:	45L/90L
Filling volume for cleaning:	30L/60L
Ultrasonic power:	1200W/2400W
HF power:	300W _{eff} /300W _{eff}
Heating power:	1450W/1950W
Current consumption:	7.7A/11.1A
Leakage current:	< 0.5mA
Protection rating:	IP 32
Exterior dimensions (WxDxH): (without handles and drain tap)	540 x 340 x 500mm/530 x 540 x 640mm
Weight:	net 23.7kg/37kg gross 27.2kg/67kg

Type	HF peak power W _{eff}	Ultra-sonic power W	PK	Cat. No.
RK 1028 CH	300	1200	1	9.877 530
RK 1050 CH	600	2400	1	9.877 552

5 6 Accessories for Sonorex SUPER RK 1028 CH and RK1050 CH



Bandelin

Accessories RK 1028 CH:

Insert basket K 28 C, stainless steel, 455mm x 245mm x 50mm, mesh size 5mm x 5mm.
 Insert basket stainless steel, int. 470mm x 270mm x 215mm.
 Insert tub KW 28-0 plastic, non-perforated, with lid, int. 437mm x 230mm x 155mm.
 lid D 1028 C stainless steel.

Accessories RK1050 CH:

Insert basket K 50 C stainless steel, 545mm x 450mm x 50mm, mesh size 5mm x 5mm.
 Insert basket stainless steel, int. 540mm x 445mm x 240mm, mesh size 12.5mm x 12.5mm.
 Insert bowl KW 50 B-0 for the use of aggressive liquids, plastic, non-perforated, with lid,
 int. 520mm x 445mm x 284mm.
 Lid D 1050 C stainless steel.

For cleaning small parts:

Beaker holder ES 4 stainless steel, for positioning of up to 4 beakers:
 SD 06 glass - 600ml
 EB 05 stainless steel - 600ml
 PD 06 plastic - 600ml
 Insert sieve basket
 Fits into beakers:
 KD 0 stainless steel, diameter 75mm
 PD 04 plastic, diameter 60mm



9.877 702



9.877 617



9.877 703



Type	Description	PK	Cat. No.
RK 1028 CH: K 28 C	Insert basket	1	9.877 702 2
RK 1028 CH: K 28 CA	Insert basket	1	9.877 712
RK 1028 CH: K 28 CV	Insert basket	1	9.877 713
RK 1028 CH: KW 28-0	Insert tub	1	9.877 804
RK 1028 CH: D 1028 C	Lid	1	9.877 600
RK 1028 CH + RK1050 CH: SD 06	Beaker, glass	1	9.877 622
RK 1028 CH + RK1050 CH: ES 4	Beaker holder	1	9.877 617 3
RK 1028 CH + RK1050 CH: EB 05	Beaker, stainless steel	1	9.877 626
RK 1028 CH + RK1050 CH: PD 06	Beaker, plastic	1	9.877 628
RK 1028 CH + RK1050 CH: KD 0	Beaker, stainless steel	1	9.877 642
RK 1028 CH + RK1050 CH: PD 04	Beaker, plastic	1	9.877 643
RK1050 CH: D 1050 C	Lid	1	9.877 608
RK1050 CH: K 50 C	Insert basket	1	9.877 703 4
RK1050 CH: K 50 CA	Insert basket	1	9.877 715
RK1050 CH: K 50 CV	Insert basket	1	9.877 716
RK1050 CH: KW 50 B-0	Insert tub	1	9.877 717

Caution.

Do not use combustible, acidic cleaning agents or chemicals containing chloride ions like household cleaners. Do not place any items on the tank bottom, neither baskets nor beakers.

E & OE.

Ultrasonic cleaners/Instruments



1 Ready-to-operate set BactoSonic® 14.2

Ultrasonic special bath for a gentle removal of biofilms.

Bandelin

Consisting of:

Unit BS 14:

Transport containers:

Container carriers for transport containers:

Utensil holder for transport containers:

Frame for foil test:

Contact liquid:

scientifically proven description of the procedure

IB 5, PP, 0.52 l - 2 pcs

IB 6, PP, 0.6 l - 2 pcs

IB 10, PP, 1.0 l - 1 piece

IB 18, PP, 1.8 l - 1 piece

IB 20, PP, 2.0 l - 1 piece

BT 5, PC, for 2 pcs IB 5

BT 6, PC, for 2 pcs IB 6

BT 10, PC, for 1 piece IB 10

BT 18, PC, for 1 piece IB 18

GH 14, stainless steel, for 3 pcs IB 20

FT 14

TICKOPUR TR 3 - 250 ml (concentrate)

Type	PK	Cat. No.
BactoSonic® 14.2	1	9.650 290



2 Accessories for BactoSonic® 14.2

Bandelin

Type	For	PK	Cat. No.
BT 5	IB 5	1	9.650 311
BT 6	IB 6	1	9.650 312
BT 10	IB 10	1	9.650 313
BT 18	IB 18	1	9.650 314

Transport containers, PP, for BactoSonic® 14.2

Bandelin

Type	Dimensions mm	Capacity L	PK	Cat. No.
IB 5	145 x 110 x 67	0.5	5	9.650 291 3
IB 6	dia. 142 x 68	0.6	5	9.650 292 4
IB 10	278 x 115 x 60	1.0	5	9.650 293 5
IB 18	208 x 143 x 94	1.8	5	9.650 294 6
IB 20	135 x 102 x 282	2.0	5	9.650 295 7

3



9.650 291

4



9.650 292

5



9.650 293

6



9.650 294

7



9.650 295

We can supply this
manufacturer's whole
product range !



BANDELIN

1 Ready-to-operate set SONOCOOL® 255

Ready-to-use set consisting of:

- ultrasonic device SC 255
- sample holder PH 255-11 for 11 inset beakers SD 01.2
- lid made of glass D 255 G
- inset beakers SD 01.2, glass - without spout, 20 pieces of 100 ml,
- 250 ml TICKOPUR TR 3
(concentrate for producing the contact liquid)

Bandelin

Specifications

Inner tank dimensions:	280 × 150 × 150 mm (l × w × d)
Tank volume:	5 litres (contact liquid)
Adjustable bath temperature:	15 - 40°C (at 20°C room temperature)
Cooling power:	200 W
Ultrasonic power:	180 W, adjustable in 4 steps
Ultrasonic frequency:	35 kHz, SweepTec®
Countdown operation:	up to 100 h
External dimensions:	360 × 605 × 385 mm (l × w × h)
Housing:	aluminium: coated with flush pulls (grips recessed inside the housing)
Outlet:	front left, concealed
Current consumption:	1.6 A
Mains connection:	230 V~ (±10 %) 50/60 Hz
Weight:	27.5 kg

Type	PK	Cat. No.
SONOCOOL® 255	1	9.650 300

1



Accessories for ultrasonic device SONOCOOL® 255

NEW!

Bandelin

Type	Description	PK	Cat. No.
PH 255-11	Sample holder for 11 beakers SD 01.2	1	9.650 303 2
SD 01.2	Beakers of 100 ml, glass, without spout, inside dia. 44mm, height 80mm	10	9.650 304
PH 255-1	Sample holder for 1 Box IB 18	1	9.650 305 3
IB 18	Implant box IB 18 1.80 liter	5	9.650 294
PH 255-2	Sample holder for 2 beakers SD 06	1	9.650 306 4
SD 06	Beakers, glass, 600 ml, Ø 84 mm, 125 mm, with no cover, insert ring	1	9.877 622
DG 255 G	Lid made of glass	1	9.650 307 5
SCH 255	Hose connection for connecting a pump	1	9.650 308

2



9.650 303

3



9.650 305

4



9.650 306

5



9.650 307

E & OE.

Ultrasonic cleaners/Instruments-Ultrasonic cleaners

1



9.877 911

Ultrasonic pipette cleaner PR 140 C, Sonorex

Offers ultrasonic cleaning and rinsing in the same container - without chromosulphuric acid - with water soluble cleaning concentrates. For pipettes, burettes and other glass instruments up to 755mm long. 230V~, 50/60Hz or 115V~.

Bandelin

Specifications

Overall height:	1130mm
Area required (W x L):	255mm x 335mm
Ultrasonic output max.:	860W
HF power:	215W _{eff}
Time switch:	1 to 15 min. and continuous operation
Effective capacity:	13.9L
Effective cleaning depth:	765mm

Type	Description	PK	Cat. No.
PR 140 C	Complete set, with plastic basket, stainless steel lid, 5 litres of Tickopur R 33 mildly alkaline cleaning concentrate	1	9.877 911 1
AR 140 C	3-way valve, metal	1	9.877 912
AR 140 CP-1	3-way valve, plastic	1	9.877 915
D 140	Stainless steel lid	1	9.877 914

2



2 TICKOPUR - STAMMOPUR concentrates for ultrasonic baths

Concentrates for Sonorex ultrasonic cleaning baths. Enhances cavitation, cleans intensively, kind to most materials and free from chloride. For use cold or warmed - up.

Bandelin

Tickopur TR 3. Special cleaner, concentrate. Properties: weakly acid pH 3.0 at 1%, dosage 1% to 5%, based on citric acid, without phosphate For: steel, stainless steel, non-ferrous, precious and light metals, glass, ceramics, plastics, rubber. Removes: mineral residues, flash rust, grease, oils, waxes, pigments, drilling, grinding, polishing and lapping residues

Tickopur R 27.* Special cleaner, concentrate. Properties: acid pH 1.9 at 1% solution, dosage 1 to 5%. For: glass, steel, rubber, plastic, precious metals, ceramics. Removes: rust, lime scale, mineral residues, silicate, phosphate, cement, urine scale, etc.

Tickopur R 30. Neutral cleaner, concentrate. Properties: neutral, pH 7% dosage 1% to 5%. For: glass, steel, nonferrous metals, aluminium, rubber, optical components, test sieves. Removes: grease, oils, dust, protein, wax, silicone films, etc.

Tickopur R 33. Universal cleaner, concentrate. Properties: mildly alkaline pH 9.9 at 1%, dosage 1% to 5%. For: glass, metal, ceramics, plastic, rubber

Removes: grease, oils, wax, silicone films, protein, ink residue, etc.

Tickopur RW 77. Special cleaner with ammonia, concentrate. Properties: mildly alkaline, pH 9.9 at 1%, dosage 5% to 10%. For: steel, stainless steel, non-ferrous metals, glass, plastics, optical components. Removes: grease, oils, wax, lubricants, silicone films, grinding, polishing and soldering agents, etc., slightly deoxidising.

Tickopur J 80 U. Deoxidisation with tarnish preventer, ready for use. Properties: acidic, pH 2, for use in glass and plastic beakers only. For: non-ferrous metals, alloys, copper, electron microscope screens. Removes: oxide and sulphide layers, flux, deoxidising.

Stammopur 24.* Disinfection and cleaning concentrate. For intensive cleaning and disinfection - VAH-certified-bactericidal, tuberculocidal, yeasticidal virucidal against BVDV, Vaccinia, HBV, HCV, HIV. Effectiveness EXAM - expertise against H5N1. Free from aldehydes, chlorine and phenol. Application 1% to 2%, mildly alkaline, pH 9.4 (1%). With corrosion prevention. Highly compatible with most materials.

Type	Capacity Litres	PK	Cat. No.
TICKOPUR TR 3	1	1	6.802 927
TICKOPUR TR 3	2	1	6.301 466
TICKOPUR TR 3	5	1	6.802 537
TICKOPUR R 27*	1	1	9.192 761
TICKOPUR R 27*	2	1	9.192 762
TICKOPUR R 27*	5	1	9.192 765
TICKOPUR R 30	1	1	9.192 641
TICKOPUR R 30	2	1	9.192 646
TICKOPUR R 30	5	1	9.192 642
TICKOPUR R 33	1	1	9.192 601
TICKOPUR R 33	2	1	9.192 602
TICKOPUR R 33	5	1	9.192 605
TICKOPUR RW 77	1	1	9.192 611
TICKOPUR RW 77	2	1	9.192 612
TICKOPUR RW 77	5	1	9.192 615
TICKOPUR J 80 U	1	1	9.192 751
TICKOPUR J 80 U	2	1	9.192 752
TICKOPUR J 80 U	5	1	9.192 755
STAMMOPUR 24*	2	1	9.192 711
STAMMOPUR 24*	5	1	9.192 712
STAMMOPUR 24*	25	1	9.192 714

* Transport regulations for dangerous goods have to be observed.

E & OE.

**Greater capacity. Greater purity.
Greater flexibility.**

Laboratory glassware reprocessing for analytical purposes with the new PG 85 series



The new generation of Miele lab washers excels by offering higher capacity, greater purity and more flexibility:

- Increased capacity through an innovative and highly flexible range of load carriers
- High-power cleaning including spray pressure and spray arm monitoring
- Reduced consumption through application-specific programmes

Tel.: 0800 22 44 644
www.miele-professional.de

1

1 Washer-disinfector PG 8583/PG 8593

Miele

Professional basic solution for everyday laboratory glass cleaning tasks in industry, environmental and research laboratories.

- Stand-alone unit (with lid), for undercounter appliances
- Integrated 1-2 dosing (depending on the equipment) pumps for liquid chemicals (neutralizing agent/cleaner)
- Exterior panels in stainless steel or white housing
- TouchControl with 14 programs
- 4 water connections for 2x cold, hot and demineralised water
- Powerful circulating pump, Qmax : 400 l/min

Model PG 8593 with Dry Plus : Integrated hot air drying

Specifications

Dimensions (WxDxH): 600 x 600 x 835 (820 without lid)mm
 Power supply: 3N AC/400V/50Hz/9.3kW

Type	Description	PK	Cat. No.
PG 8583	White housing, hot water and distilled water connection, powder dispensing	1	6.266 426
PG 8583	White housing, hot water and distilled water connection, liquid dispensing	1	6.266 427
PG 8583	Stainless steel housing, hot water and distilled water connection, powder dispensing	1	6.266 428
PG 8583	Stainless steel housing, hot water and distilled water connection, liquid dispensing	1	6.266 429
PG 8583	Stainless steel housing, hot water connection, distilled water pump, powder dispensing	1	6.266 430
PG 8583	Stainless steel housing, hot water connection, distilled water pump, liquid dispensing	1	6.266 431
PG 8583	Stainless steel housing, hot water and distilled water connection, powder dispensing, oil application	1	6.266 432
PG 8583	Stainless steel housing, hot water and distilled water connection, liquid dispensing, oil application	1	6.266 433
PG 8593	Stainless steel housing with DOS module	1	6.266 434
PG 8593	Stainless steel housing with conductivity monitoring and DOS module	1	6.266 435
PG 8593	Stainless steel housing with DOS module, suitable for oil applications	1	6.266 436

2

2 Washer-disinfector PG 8535

Miele

Compact high-tech lab washer with freely programmable controls for the reprocessing of glassware in research and production as well as in all analytical and prep areas including microbiology and biotechnology.

Innovative product features

- Network process documentation interface
- Magnetic strip for automatic mobile unit recognition
- Spray arm sensing
- Measures conductivity of wash liquor
- Ultrasound dispenser volume control
- Drying with optimum air circuit and HEPA Class EU 13 filter
- Built-under/freestanding unit without lid
- H 820mm, B 900mm, T 700mm
- Freely programmable Profitronic+ controls
- 2 dishwashing levels (upper and lower baskets)
- 3-phase connection for short programme cycles
- 3 connections for cold, hot and demineralised water
- 2 integrated dispenser pump for process chemicals (alkaline detergent/neutralising agent)
- 2 additional dispenser pumps possible
- Drawer with 2 supply containers, 5L each
- Integrated drying unit
- Batch capacity: 37 narrow-necked glasses or 96 pipettes or 1600 test tubes

Type	Description	PK	Cat. No.
PG 8535	Stainless-steel panelling	1	9.803 890
DE-CS7	Stainless-steel lid	1	6.401 199
ML/2	Magnetic strip for automatic mobile unit recognition	1	9.803 766

Accessories for Mielabor washing and disinfecting machines

(NEW)

Miele

Type	Description	PK	Cat. No.
O 188/2	Upper basket, front side open	1	9.803 775
AK 12	Insert basket	1	9.803 729
E 103/1	Insert for reagent bottles	1	9.803 717
E 104/1	Insert for reagent bottles	1	9.803 730
E 105/1	Insert for reagent bottles	1	9.803 731
A 14	Lid 1/4, for insert AK 12	1	9.803 721
E 109	Insert 1/2, for 21 beaker up to 250 ml	1	9.803 727
E 110	Insert 1/2, for 10 beakers 250 to 600 ml	1	9.803 728
E 329	Injector carriage 1/1, with 39 nozzles	1	9.803 735
U 874/1	Lower basket, empty	1	9.803 776
A 100	Upper basket for modules	1	6.266 437
A 101	Upper basket / mounting height 160 ±30mm	1	6.266 438
A 102	Upper basket / mounting height 205 ±30 mm	1	6.266 439
A 103	Upper basket for lids and accessories	1	6.266 440
A 150	Lower basket for modules	1	6.266 441
A 151	Lower basket (W x D x H): 529 x 522 x 88mm, mounting height depending on upper basket	1	6.266 442
A 802	Flushing nozzle for injector modules	1	6.266 443
A 202	Carriage for sieve trays	1	6.266 444
A 300	Module for pipettes	1	6.266 445
A 304	Module for vials	1	6.266 446
A 306	Module for graduated cylinders	1	6.266 447
A 200	Carriage for pipettes	1	6.266 448
A 300	Module for laboratory glassware 2 x 4 with spring clips for nozzles	1	6.266 449
A 300/1	Module for laboratory glassware 2 x 4 with plastic support ID	1	6.266 450
A 301	Module for laboratory glassware 3 x 6 with 12 spring clips for nozzles, 6 with plastic support ID	1	6.266 451
A 301/1	Module for laboratory glassware 3 x 6 with spring clips for nozzles	1	6.266 452
A 301/2	Module for laboratory glassware 3 x 6 with plastic support ID	1	6.266 453
A 301/3	Module for laboratory glassware 3 x 6 SD-B injector nozzles for butyrometers	1	6.266 454
A 302	Module for laboratory glassware 4 x 8 with plastic support ID	1	6.266 455
A 302/1	Module for laboratory glassware 4 x 8 with spring clips for nozzles	1	6.266 456
DOS K 85/1	Dosing module for PG 8583/8593 with short suction lance (5-l-container)	1	6.266 457
DOS K 85	Dosing module for PG 8583/8593 with long suction lance (10-l-container)	1	6.266 458
E 385 TA	as E355 but with connection for hot-air drying	1	9.803 723
E 340	Injector carriage 1/2	1	9.803 724
E 414 TA	Injector carriage	1	9.803 732
E 106/1	Insert 1/2, with 28 small hooks	1	9.803 734
E 144	Insert 1/2 for beaker up to 250 ml	1	9.803 736
A 11/1	Frame 1/1, 450 x 450 mm	1	9.803 737
A 3	Net 1/4, for inserts 1/4 metal frame	1	9.803 738
E 355-06	Injector carriage 1/2	1	9.803 740
E 139/1	Insert 1/4, as 103 but for tubes	1	9.803 743

Note: We can supply products from the entire Miele laboratory range, on request.

We can supply this
**manufacturer's whole
 product range !**

partner of the



Miele
PROFESSIONAL

CertoClav 12L/18L tabletop autoclave

CertoClav table top autoclaves are the complete autoclaving solution for small laboratories or a flexible addition to the large volume autoclave. Due to their space saving design they can be placed directly on the laboratory bench. Ideal for culture media preparation, sterilisation of equipment and waste, and quality tests, such as the HAST test.

CertoClav

CertoClav Essential: Autoclave for sterilisation at 121°C (15 Min. holding period). Other temperature/time on request (additional cost). Microprocessor controlled with automatic process control and fractioned venting. Available in 12 or 18 litre volume. Printer port for CertoClav receipt printer (Art. No. 9.842 033).

CertoClav Classic: The robust, time-tested laboratory autoclave for more than 50 years. Controlled via a precision valve and a thermostat. Includes timer. Standard model with alternatively 125°C/140°C.; Alternative model with 115°C/121°C.

CertoClav MultiControl 2: Autoclave with freely programmable controller (room temperature to 140°C). Standard programs for sterilisation pre-installed. Controller unit has a printer port for the CertoClav receipt printer (Art. No. 9.842 033), and a USB port for PC connection. Basic version of PC software for data monitoring included (professional license required for advanced programming functions).

CertoClav MultiControl 2 Touch: Like model CertoClav MultiControl 2, but with high-res touch screen. All user tasks are explained with videos on the machine. Virtually no training requirements for new users. Easy compliance with GLP documentation requirements possible via CertoCloud, where all user information and cycle data is safely stored for 10 years and can be accessed from any web browser. 6 month free CertoCloud trial period included with purchase.

CertoClav Connect: Fully automatic laboratory autoclave with 7 inch high-res touch screen and intuitive user interface. Max 140°C sterilisation temperature. All user tasks are explained with videos on the machine. Virtually no training requirements for new users. Easy compliance with GLP documentation requirements possible via CertoCloud, where all user information and cycle data is safely stored for 10 years and can be accessed from any web browser. 6 month free CertoCloud trial period included with purchase. Integration in laboratory data management systems possible. Construction corresponds to a class N and class S (liquids) autoclave according to EN 13060.

CertoClav CultureMedia: Fully automatic autoclave for the sterile preparation of culture media with integrated 10 liter culture media vessel and stirrer and media sensor. 7 inch high-res touch screen and intuitive user interface (same as CertoClav Connect).

All models:

TUEV certified. CE marked. Stainless steel (Model Essential Aluminium). No water connection required. 1300 Watt (Essential 1900 Watt), 230V, 50-60Hz. Venting procedure: stream process. Actual appearance may deviate from picture. Made in Austria.

Type	Capacity Litres	Diam. mm	Int. height mm	PK	Cat. No.
Essential	12	24	260	1	9.842 019 1
Essential	18	24	400	1	9.842 027
Classic	18	26	350	1	9.842 028 2
Classic 115°/121°	18	26	350	1	9.842 029
MultiControl 2	18	26	350	1	9.842 030 3
Connect	18	26	350	1	9.842 031 4
CultureMedia	18	26	350	1	9.842 032



9.842 019



9.842 028



9.842 030



9.842 031



1 | 2 CERTOCLAV-EL 12L/18L tabletop autoclave

The CertoClav EL laboratory autoclave is ready to start after only a few moments thanks to its simple operation. Its versatility and compact construction make the CertoClav -EL laboratory autoclave almost indispensable for research, development and medical applications.

CertoClav

Control and operation

It would be difficult to imagine a workplace without a CertoClav EL after just a few days thanks to its single-button operation and its reliability. The thermostat and the 2-stage control valve ensure that operations and processes are precise. Culture media preparations, quality checks and autoclave processes can be carried out simply and quickly. The precision thermometer and precision pressure gauge with maximum indicator ensures faultless results for all applications. The sterilisations chamber is easy to open and close, simply turn the cover and remove.

For your safety

The CertoClav 4-fold safety system: the overpressure valve, the safety interlock preventing opening under pressure, the safety control valve and the overpressure safety opening enable operation without any hazards.

Including accessories

Stable instrument panel, with 3 feeds and minimum water level indicator

Standards and conformity marks

GS from TÜV Rheinland in accordance with EN 61010 - 1:2001, EN 61010 - 2:040:2005
Expert reports on microbiological and germicidal effectiveness

Operating temperature/pressure: maximum 3 bar = 43.5 psi
 Stage 1: 125°C = 1.4 bar/20.3 psi
 Stage 2: 140°C = 2.7 bar/39.1 psi
 * **Special valve:** Stage 1: 115°C = 0.7 bar/10.1 psi
 Stage2: 121°C = 1.1 bar/ 15.9 psi
 Thermal output: 1900 W
 Heater: integrated in floor/not exposed
 Mains connection: 230V ±10 %/50-60Hz
 Air evacuation: free steam flow process
 Water connection: no water connection necessary
 Housing: Aluminium

Type	Capacity Litres	Diam. mm	Int. height mm	PK	Cat. No.
EL 12L GS	12	240	260	1	9.842 013
EL 18L GS	18	240	400	1	9.842 014

*CertoClav EL 12 and CertoClav EL 18L delivery with valve temperature 125/140°C or 115°/121C. Please regard by your order.

1



2





1 CERTOCLAV MultiControl 12L /18L tabletop autoclaves

CertoClav

Practical, maintenance-free microprocessor-controlled laboratory autoclave with fractionated venting process. Its versatility and compact construction make the CertoClav MC laboratory autoclave almost indispensable for research, development and medical applications.

Control and operation

The MultiControl controller makes autoclaving child's play and saves valuable employee time. One press of a button ensures rapid sequences using 2 permanent programs (138°C/5 min 125°C/15 min) for sterilisation of preparation culture media. The CertoClav MultiControl automatically monitors the process parameters and reports a successful conclusion. Employees no longer have to observe the process. On top of this, complex sequences and long-term cycles of 6 seconds up to 1 week can be implemented using 7 freely definable programs - ideal for material testing and research. With integrated cycle counter and EEPROM Constant Memory. Including RS 232 interface for data evaluation. The sterilisation chamber is easy to open and close, simply turn the cover and remove.

For your safety

The CertoClav 4-fold safety system: the overpressure valve, the safety interlock preventing opening under pressure, safety control valve and the overpressure safety opening enable operation without any hazards.

Including accessories

Stable instrument panel, with 3 feeds and minimum water level indicator

Standards and conformity marks

GS from TÜV Rheinland in accordance with EN 61010 - 1:2001, EN 61010 - 2:040:2005
Expert reports on microbiological and germicidal effectiveness

Temperature:	programmable from room temp. up to 140°C
Thermal output:	1900 W
Heater:	integrated in floor/not exposed
Mains connection:	230 V ±10 %/50 Hz.
Operating pressure:	max. 3 bar/4.5 psi
Venting:	fractionated venting process
Water connection:	no water connection necessary
Housing:	Aluminium

Type	Capacity Litres	Diam. mm	Int. height mm	PK	Cat. No.
Certoclav MultiControl	12	240	260	1	9.842 018
Certoclav MultiControl	18	240	400	1	9.842 017



2 Accessories for portable autoclave CertoClav

Service kit 1: with lid gasket, vavle gasket, gasket for exhaust cock and manometer, steam valve

Service kit 2: with lid gasket, control valve gasket, seals for exhaust cock and pressure gauge, steam valve and safety valve

Description	For	PK	Cat. No.
Printer	MultiControl2 and Essential	1	9.842 033
Wire basket with handle, Ø 23 x 17 cm	CertoClav EL, MultiControl, Essential	1	9.842 025
Wire basket with handle, Ø 25 x 23 cm	Classic, MultiControl, Connect and CultureMedia	1	9.842 035
Media sensor, PT100	only for CertoClav Connect	1	9.842 037
Software Professional License	MultiControl 2	1	9.842 038
Service-Set 1	CertoClav EL, MultiControl, Essential	1	9.842 036
Service-Set 2	Classic, MultiControl 2, Connect, CultureMedia	1	9.842 020

11. Cleanroom, Cleaning and sterilisation

Steam sterilisers - Autoclaves/Instruments

Automatic horizontal autoclave Type AH



1

Raypa



9.851 888

This autoclave is microprocessor controlled and monitored with 5 sterilisation programmes of which 4 are fixed and 1 is freely selectable for the AH-21 s2 dry and 10 sterilisation programmes of which 4 are fixed and 6 are freely selectable for the AHS-75 dry .

- Operating temperature range 100°C to 135°C
- On request also available with B Class
- RS 232 interface
- Fully automatic functions
- With water reservoir, pre-vacuum and drying
- Case and lid shrouding are AISI 304 stainless steel
- Sterilisation chamber, lid and sealing system are AISI 304 stainless steel
- Electrical heating with protected heating elements
- Safety pressure valve
- Safety thermostat
- Automatic steam controlled by microprocessor
- Manual valves for emptying the sterilisation chamber and for draining steam
- Equipped with mesh stand on the chamber base and trays
- On request also available with vacuum and drying
- Supply requirements: 230V 16A single phase

Type	Capacity	Chamber diam. x depth	Rating	Width	Length	Height	PK	Cat. No.
	Litres	mm	W	mm	mm	mm		
AH-21 L	21	250 x 430	2000	680	590	425	1	9.851 898
AHS-50 DRY	50	400 x 400	3200	630	760	630	1	6.267 579
AHS-75 DRY	75	400 x 600	3200	830	760	630	1	9.851 888 1

Automatic vertical autoclaves, AES series



2

Raypa



9.851 894

These autoclaves are microprocessor controlled and monitored with 10 sterilisation programmes of which 4 are fixed and 6 are freely selectable.

- Operating temperature range 100°C to 139°C
- On request also available with B Class
- Agar modus (40°C to 80°C)
- RS 232 interface
- Timer
- Programmable auto-start (24h)
- Fully automatic functions
- Case and lid shrouding are AISI 304 stainless steel
- Sterilisation chamber, lid and sealing system are AISI 304 stainless steel
- Electrical heating with protected heating elements in the interior of the chamber
- Safety pressure valve
- Safety thermostat
- Automatic steam controlled by microprocessor
- Manual valves for emptying the sterilisation chamber and for draining steam
- **Supply requirements:**

AES-12 and AES-75: 230 V 16 A single phase
AES-110 and AES-150: 400 V + Neutral (3-phase)

Type	Capacity	Chamber diam. x depth	Rating	Width	Length	Height	PK	Cat. No.
	Litres	mm	W	mm	mm	mm		
AES-12	12	250 x 270	1000	490	500	520	1	9.851 893
AES-28	28	300 x 400	2000	510	560	1010	1	9.851 894 2
AES-50	50	300 x 700	3200	510	560	1270	1	6.267 578
AES-75	75	400 x 600	3200	620	730	1090	1	9.851 895
AES-110	110	400 x 850	4500	630	730	1330	1	9.851 896
AES-150	150	500 x 750	6000	760	850	1310	1	9.851 897

On request also available with vacuum and drying.

3 Thermoprinter for Automatic autoclaves AH/AES series

3

Printer with plain paper reel prints the programme i.d., cycle number, temperature, date and time of each sterilisation. Also prints any errors or warning messages. If everything has proceeded correctly by the end of the sterilisation cycle, the following message is printed: **Sterilisation O.K.**

Type	PK	Cat. No.
Thermoprinter	1	9.851 871





1 Accessory baskets for Automatic vertical autoclaves, AES series

Type	For	Diam.	Height	Baskets per autoclave	PK	Cat. No.
		mm	mm			
Mesh basket	AE / AES 12	225	215	1	1	9.851 885
Mesh basket	AE / AES 28 - 50	280	200	2 / 3	1	9.851 872
Mesh basket	AE / AES 75 - 110	380	260	2 / 3	1	9.851 873
Mesh basket	AE / AES 150	475	360	2	1	9.851 875
Solid basket	AE / AES 12	225	215	1	1	9.851 886
Solid basket	AE / AES 28 - 50	280	200	2 / 3	1	9.851 876
Solid basket	AE / AES 75 - 110	380	260	2 / 3	1	9.851 877
Solid basket	AE / AES 150	475	360	2	1	9.851 879

2 Laboratory autoclaves B-line

- Extensive features and equipment varieties cover all applications used in research institutes, universities and the pharmaceutical, biotechnological, chemical and food industry. The autoclaves are adapted for
- Sterilization of liquids in combination with different cooling systems
- Sterilization of pipettes and glass
- Sterilization of wrapped/unwrapped instruments
- Sterilization of (biohazard) waste
- Preparation of nutrient media

Tuttnauer

Features

- EL = horizontal loading
- ELV = vertical loading
- High precision control system for perfect sterilization results
- Password protection for user access control
- Independent temperature and pressure monitoring
- Cycle information recovery in the case of power failure or cycle interruption
- Fail Alert - Indicates cycle failure or interruption
- Door Alert - Indicates the door is unlocked
- RS232 interface
- Pulsative heating-up
- Validation port

Options available

- Fast cooling technology for rapid cooling of liquids
- Fast cooling technology and ventilator to reduce cooling time additionally
- Vacuum pump to evacuate residual air
- Exhaust air filtration
- Lifting device to elevate/to lower heavy sterilization goods
- Printer to document the performed cycle
- ADMC software allows complete control and monitoring of the autoclave
- Other options on request



Type	Chamber diam. x depth mm		Capacity litres	Dimensions (W x D x H) mm	PK	Cat. No.
2540 ELV-B	250 x 400	23	495 x 335 x 645	1	9.842 811	
3150 ELV-B	310 x 500	40	580 x 415 x 780	1	9.842 813	
3170 ELV-B	310 x 700	55	580 x 415 x 960	1	9.842 814	
3850 ELV-B	380 x 490	62	650 x 500 x 745	1	9.842 815	
3870 ELV-B	380 x 690	85	650 x 500 x 925	1	9.842 817	
5050 ELV-B	500 x 500	110	880 x 700 x 780	1	9.842 819	
5075 ELV-B	500 x 750	160	880 x 700 x 1010	1	9.842 820	
2540 EL-B	250 x 420	23	510 x 545 x 365	1	9.842 801	
3150 EL-B	310 x 500	40	600 x 695 x 450	1	9.842 803	
3850 EL-B	380 x 510	62	660 x 695 x 525	1	9.842 804	
3870 EL-B	380 x 690	85	660 x 875 x 525	1	9.842 806	
5050 EL-B	500 x 500	110	880 x 767 x 700	1	9.842 808	
5075 EL-B	500 x 750	160	880 x 967 x 700	1	9.842 809	



1 Laboratory autoclaves D-line

The new D-line from tuttner represents a further stage of the well-known EL and ELV B-line. The features of the laboratory autoclave line are specifically designed for most common laboratory applications and can be used for the sterilization of liquids, instruments, glass, waste and for the preparation of nutrient media.

Tuttner

Features

- EL = horizontal loading
- ELV = vertical loading
- Stores the last 200 cycles in built-in memory
- Option: second flexible Pt 100 probe
- 30 Identification Codes and Passwords for access level control
- The controller and software comply with the 21 CFR part 11 standard
- Filter replacement notifications based on the number of cycles
- Data archiving via USB interface
- Double sterilization time monitoring
- In/Out test (enables technicians to check each system component separately)
- Sterilization temperature range up 110°C to 136°C
- Optional Disinfection/Isothermal Temperature range from 60°C to 105°C
- Optional Independent Recording for cross-checking cycle measurements
- F₀ software control

Options available

- Fast cooling technology for rapid cooling of liquids
- Fast cooling technology and ventilator to reduce cooling time additionally
- Vacuum pump to evacuate residual air
- Exhaust air filtration
- Lifting device to elevate/to lower heavy sterilization goods
- Printer to document the performed cycle (Please order separately)
- ADCM software allows complete control and monitoring of the autoclave
- Other options on request



Type	Chamber diam. x depth mm	Capacity litres	Dimensions (W x D x H) mm	PK	Cat. No.
2840 ELV-C-G-D	280 x 400	28	540 x 450 x 975	1	9.842 812
3850 ELV-C-G-D	380 x 490	72	730 x 550 x 850	1	9.842 816
3870 ELV-C-G-D	380 x 690	94	730 x 550 x 1000	1	9.842 818
5075 ELV-C-G-D	500 x 750	160	870 x 750 x 1010	1	9.842 821
2840 EL-C-G-D	280 x 400	28	530 x 630 x 400	1	9.842 802
3850 EL-C-G-D	380 x 490	72	720 x 750 x 530	1	9.842 805
3870 EL-C-G-D	380 x 690	94	720 x 940 x 540	1	9.842 807
5075 EL-C-G-D	500 x 750	160	855 x 1120 x 805	1	9.842 810

2 Benchtop-Autoclave HMT 232N



2

The HMT 232N is an easy-to-use, semi-automatic autoclave with high rating, reliability and safety.

HMC-EUROPE

- For use in non medical laboratories for sterilizing liquids, objects, etc. The chamber consists of easy-to-clean stainless steel.
- Different programs to choose from.
- Temperatures available: 121°C and 134°C, sterilization pressure adjustable from 0.9 to 2.1 bar.
- For sterilization the following settings are available: 4 minutes/15 min/30 min.
- Equipped with digital sterilisation cyler recorder (SD and USB)
- Automatic control by the end of the sterilization process, the entire sterilization process is microprocessor controlled and monitored
- The chamber is filled manually with feedwater from the integrated water tank and the water is returned manually in the chamber.



Safety:

- It features a low water protection, safety and venting valve, pressure switch and over-temperature protection.
- Cover-impact backup
- Each element is equipped with an independent thermal overload switch.
- CE certified

Type	Capacity Litres	Chamber diam. x depth mm	Length mm	Width mm	Height mm	Rating kW	PK	Cat. No.
HMT 232N	16	230 x 390	537	501	406	1.5	1	6.266 840



7.980 101



4.655 162



4.655 164

Benchtop-Autoclaves HMT FA/-MA and -MB series

NEW!

HMC-EUROPE

Innovative and versatile autoclave, which combines compact and elegant design with high performance, reliability and safety

- Auto dry function: To offer the good dry result
- Microprocessor control system: Fully automatic controls from adding water to sterilisation, to drying.
- Double water level check device: One for water tank, and one for chamber water level check
- Pressure door auto-lock device
- Door close indication: All functions stopped and the door light is on, if the door isn't closed completely.
- Cycle complete indication: Auto-check each working steps condition. The "COMPLETE" indicator will light up, after correct completion of the batch.
- Low water alarm and indication: If there isn't enough water, the "LOW-WATER" indicator will light up, and alarm you.
- Pre-heating program: Pre-heating by dry heater, which not only keeps the chamber temperature in balance, but also offers the perfect dry function.
- Chamber pressure with double protection: The chamber is protected by a pressure switch and steam pressure safety valve.
- Vacuum/Pressure release key: Pushing this key, will cut-off the power supply and exhaust the chamber pressure or release the chamber vacuum, at the same time.
- Safety functions such as door lock, over heat protection, water tank level sensor, chamber water level sensor are equipped as standard
- Power supply: 230V, 50/60Hz
- Inclusive bottom plate

HMT 230FA/HMT 260FA

- Installed 8 programs and special programs for Liquid sterilisation for your selection
- Sterilisation temperature: 105 to 135°C
- HMT 230 FA-R and HMT 260 FA-R are certified according to Medical Device Directive as N-class autoclaves

HMT 230MA/260MA/300MA

- Pre-vacuum function: Offer the excellent sterilisation result.
- Dry-vacuum function: To offer the perfect dry result.
- 24 Installed programs and special programs for Prion sterilisation, Liquid sterilisation, Bowie-Dick test, Pump test programs for your selection.
- Sterilisation temperature: 121 to 134°C
- HMT 230MA-R/HMT 260MA-R/HMT 300MA-R are certified according to Medical Device Directive as S-class autoclaves

HMT 260MB Klasse-B

- Pre-vacuum function: Offer the excellent sterilisation result.
- Dry-vacuum function: To offer the perfect dry result.
- 10 installed programs: 5 sterilisation programs, 1 customized program for your selection, 3 test programs, drying program
- Sterilisation temperature: 105 to 135°C
- HMT 260MB is certified according to Medical Device Directive as B-class autoclaves

Type	Capacity Litres	Chamber diam. x depth mm	Length mm	Width mm	Height mm	Rating kW	PK	Cat. No.
HMT 230FA	16	230 x 410	594	522	410	1.9	1	6.237 578
HMT 230FA-R*	16	230 x 410	594	522	410	1.9	1	4.655 158
HMT 260FA	24	260 x 450	655	533	442	2.4	1	7.980 101 1
HMT 260FA-R*	24	260 x 450	655	533	442	2.4	1	4.655 159
HMT 230 MA	16	230 x 410	594	522	410	1.9	1	4.655 160
HMT 230 MA-R*	16	230 x 410	594	522	410	1.9	1	4.655 161
HMT 260 MA	24	260 x 450	655	533	442	2.4	1	4.655 162 2
HMT 260 MA-R*	24	260 x 450	655	533	442	2.4	1	4.655 163
HMT 300 MA	40	300 x 570	900	620	489		1	4.655 164 3
HMT 300 MA-R*	40	300 x 570	900	620	489		1	4.655 165
HMT 260MB	24	260 x 450	665	553	440	2.7	1	4.655 166 4

*with recorder



4.655 166

11. Cleanroom, Cleaning and sterilisation

Steam sterilisers - Autoclaves/Instruments

Steam sterilizers (autoclaves), HG series

HMC-EUROPE

- fully automatic, microprocessor controlled
- 12 standard programmes installed
- timer-controlled, night programme
- overnight sterilization does not heat up the laboratory
- agar programme with thermostatic heating for agar production
- liquids programme with removal temperature of 95°C
- low feed water consumption
- electronic pressure switch, pressure and temperature control
- exhaust reservoir for condensate this prevents fogging and unpleasant odours
- drain valve for easy cleaning of sterilization chamber
- bottom plate for baskets and cans
- air-cooling at the press of a button
- lid-opening and lid-closing by press-button
- mounted on wheels, cleaning is possible even under the autoclave
- safety: electromechanical safety sealing system, relief vent, low water switch, overpressure safety device, overheat protection power supply cut-out, audible and visual error alarms.
- with USB port
- Loadmaster lifting device available on request



Models with special equipment:

HGS 113/HGS 133: steam generator, automatic water feeding, water cooling
 HGD 113/HGD133: steam generator, automatic water feeding, water cooling, vacuum pump

Specifications

Automatic start: 1 minute to 7 days, Night programme
 Time of sterilization: 1 to 300mins.
 Power supply: 220-240V a.c.
 Sealing: at the push of a button, fully automatic
 Boiler material: SUS304 (rust resistant, stainless steel)

Type	Capacity Litres	Chamber Dimensions (diam. x H) mm	External dimensions (W x D x H) mm	Working Temp. range °C	Pressure bar	Rating W	Weight kg	PK	Cat. No.
HG 50	50	364 x 482	455 x 691 x 890	105 to 135	2.5	3000	62	1	9.842 410
HG 80	80	364 x 730	455 x 691 x 1030	105 to 135	2.5	3800	73	1	9.842 411
HG 113	108	500 x 552	686 x 870 x 930	105 to 135	2.5	4700	137	1	9.842 412 1
HG 133	129	500 x 656	686 x 870 x 1034	105 to 135	2.5	6200	145	1	9.842 413
HGS 113	113	500 x 576	686 x 870 x 930	105 to 135	2.5	6800	153	1	9.842 414
HGS 133	133	500 x 680	686 x 870 x 1034	105 to 135	2.5	7100	161	1	9.842 415
HGD 113	113	500 x 576	686 x 870 x 930	105 to 135	2.5	8400	184	1	9.842 416 2
HGD 133	133	500 x 680	686 x 870 x 1034	105 to 135	2.5	8700	192	1	9.842 417

Accessories for HG series steam sterilisers

NEW!
HMC-EUROPE

Description	Dimensions (dia. x H) mm	PK	Cat. No.
Charging basket A for HG 113/133	470 x 219	1	6.266 417
Charging basket A for HG 113/133, closed bottom	470 x 219	1	6.259 903
Charging basket B for HG 113/133	470 x 269	1	6.266 418
Charging basket B for HG 113/133, closed bottom	470 x 269	1	6.266 419
Charging basket C for HG 113/133	470 x 314	1	7.980 484
Charging basket C for HG 113/133, closed bottom	470 x 314	1	7.980 485
Lifting equipment Loadmaster for HG 113/133		1	6.266 420
Built-in printer HG		1	6.251 590
Flexible temperature sensor		1	9.842 420
Automatic water supply		1	9.842 421
Exhaust air filter for sterilisation		1	9.842 422
Stainless steel sterilising basket	338 x 220	1	9.842 423 3
Stainless steel sterilising basket with bottom	338 x 220	1	9.842 424 4
Stainless steel sterilising can	330 x 185	1	9.842 425 5
Process documentation software, Segosoft®		1	9.842 426

Further accessories for models 113 and 133 available on request.





1 Steam sterilizers (autoclaves), HV series

Sterilizing simply and well.

HMC-EUROPE

Single-wall, vertical steam sterilizers, equipped with a newly developed safety lock. Fully automatic, microprocessor controlled. Programmable. Preset programs, simplest available, programmable, parameters (temperature, time, exhaust) variable.

Liquid program according to TRB 402 and EN61010-2 (flex sensor required).

AGAR program warming cycle. Night program: feed in the evening and found sterilized at the next morning. Steam condenser as standard. Mounted on castors. No connection to water/steam supply or disposal necessary. Power supply: 230V, 50/60Hz

Type	Capacity	Internal dimensions (Ø x H) mm	External dimensions (W x D x H) mm	Working Temp. range °C	Rating	Weight kg	PK	Cat. No.
	Litres				W			
HV-L25	25	240 x 550	480 x 950 x 460	105 to 126	1500	41	1	7.980 025
HV-L50	50	300 x 710	510 x 1040 x 530	105 to 135	2000	57	1	6.232 481
HV-L85	85	420 x 615	660 x 1000 x 650	105 to 128	3000	71	1	9.842 418
HV-L110	110	420 x 795	660 x 1000 x 650	105 to 123	4000	81	1	6.254 337

Accessories for HV series steam sterilisers

HMC-EUROPE

Description	Dimensions (dia. x H) mm	Baskets per autoclave	PK	Cat. No.
Integrated printer			1	9.842 427
Air cooling			1	9.842 428
Exhaust-air filtration			1	9.842 429
Stainless steel sterilising basket for HV-25	225 x 250	2	1	7.980 027
Stainless steel sterilising basket with bottom for HV-25	225 x 250	2	1	9.842 430
Stainless steel sterilising can for HV-25	210 x 255	2	1	9.842 431
Stainless steel sterilising basket for HV-50	280 x 225	3	1	6.232 482
Stainless steel sterilising basket with bottom for HV-50	280 x 225	3	1	9.842 432
Stainless steel sterilising can for HV-50	270 x 220	3	1	9.842 433

Further accessories for Models HV-85 and HV-110 available on request.



2 Autoclave deodorant Anabac®

Laboratories are very concerned about hygiene, cleanliness and comfort in the workplace. Try Anabac® autoclave deodorant balls to improve the working environment in the laboratory. These autoclave deodorant balls bring a discrete scent that speaks of cleanliness.

interscience

Type	Description	PK	Cat. No.
Classic	Mint and eucalyptus fragrance	100	6.228 599
Poma	Apple fragrance	100	6.231 161
Citrus	Lemon fragrance	100	6.231 720
Floral	Flower fragrance	100	7.626 764
Peach	Peach fragrance	100	7.626 766



3 Indicator tape for steam, hot air and gas sterilisation

Crepe paper, adhesive. With heat-sensitive dyes. Colour changes according to DIN EN ISO 11140-1. Rolls of 50m.

With	Width mm	Figure	PK	Cat. No.
Steam indicator, lead free	18	a	1	9.140 787
Steam indicator, lead free	24	a	1	9.140 788
Steam indicator	19	b	1	9.140 784
Steam indicator	25	b	1	9.140 789
Steam indicator, strongly adhesive, for non-woven fabric	19	c	1	9.140 790
Steam indicator, strongly adhesive, for non-woven fabric	25	c	1	9.140 791
Ethylene oxide indicator	19	d	1	9.140 792
Hot air indicator	19	e	1	6.240 223

1 polySteribox® sterilisation containers with permanent filter



Ritter GmbH

The polySteribox® from Ritter Medical for sterilisation of instruments, storage and transportation of sterile goods is a secure solution in line with the requirements of validated processes in sterile goods provision. The polySteribox® is available in 4 different standardized sizes (SH, M, L and XL) which are suitable for all current sterilisation automats. polySteribox® is produced out of a transparent, dimensionally stable and high temperature resistant (up to 150 degrees celcius) material. It is therefore suitable for autoclave vacuum sterilisation at 121°C or 134°C depending on the sterilisation method recommended by relevant authorities such as the Robert Koch Institute in Germany. In addition the polySteribox® can be used for plasma sterilisation (STERRAD®) as well as for gas sterilisation (formaldehyde and ethylene oxide) at a maximum of 65°C. Lid and bottom close hermetically and include a built-in bacteria barrier. The patented interlocking system is compatible within all different models and prevents from accidental opening of the box. The boxes are space-saving and easy to stack, therefore they are well suited for storage of sterile goods.



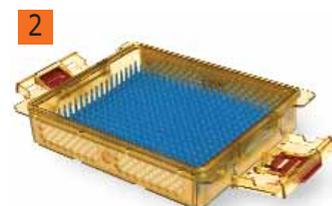
Type	Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	PK	Cat. No.
polySteribox® SH with permanent filter	177 x 76 x 45	208 x 111 x 54	1	6.267 058
polySteribox® M with permanent filter	155 x 123 x 32	184 x 144 x 59	1	6.267 059
polySteribox® L with permanent filter	261 x 164 x 65	290 x 183 x 74	1	6.267 060
polySteribox® XL with permanent filter	465 x 95 x 55	498 x 118 x 63	1	6.267 061

2 Accessories for polySteribox®



Ritter GmbH

Description	PK	Cat. No.
Filter set S/SH	1	9.284 281
Filter set M	1	9.284 282
Filter set L/XL	1	9.284 283
Silicone positioning mat for box S, SH	1	9.284 288
Silicone positioning mat for box L	1	9.284 292
Silicone positioning mat for box M	1	9.284 293
Safety seals	1000	9.284 285
Sterilisation seal for box SH, M, L, XL	1000	9.284 287
Stainer for the Polysteribox L	1	9.284 294
Stainer for the Polysteribox XL	1	6.266 241



➔ For disposal bags, please see page 243.

