

Miele

Top-class safety, cleanliness and material compatibility.
Laboratory glassware washers.

Miele Professional. Immer Besser.



A systematic approach from Miele Professional

A clear decision in favor of Miele



In developing reprocessing solutions for laboratory glassware, Miele Professional has always placed its focus on close cooperation with the experts in industry, with research laboratories and with highly reputable glassware manufacturers. The result of this cooperation based on trust and innovation are machines and processes which convince discerning users all along the line.

Quality

Reproducible analyses require quality - quality in terms of laboratory glassware and its reprocessing. Miele's proverbial standards of quality can be relied on at all times: Sophisticated design and high-quality materials underline the first-class reputation of Miele Professional in laboratories. And this is equalled by the quality of service which has won Miele numerous awards over the years.

Performance

Laboratory glassware washers from Miele Professional have a proven ability to stand up to the stresses and strains of everyday laboratory life. Their insatiable appetite for work, a wide range of accessories and practical processes ensures perfect results and a high throughput capacity each time round, even when reprocessing special loads. Valuable laboratory glassware is ready for re-use again within next to no time.

Efficiency

Profit daily from excellent efficiency: Machines from Miele Professional are thorough and fast, affording top-rate protection to materials in the process. Thanks to their high quality, they also require little maintenance and are highly durable, safeguarding your investments in many respects. The efficient use of water and chemicals also equates to low running costs.



Miele Professional is a decision in favour of top performance, quality and efficiency. High-quality machines which reliably meet the expectations of the discerning, day in and day out, underline the trust placed by commercial users in Miele: 97% of all clients* would buy from Miele again next time round.

Dependability

For four generations, Miele has carried a special responsibility as a family-run company towards its customers, its business partners and its employees as well as for its products, processes and natural resources.

- Product development with a clear focus on quality, durability and sustainability
- Innovations 'Made in Germany' which have set their stamp on the industry
- Award-winning ergonomics, functionality and product design
- Entire systems from a single supplier
- Lower operating costs over entire product life cycle (Total Cost of Ownership)
- Highly commended after-sales service offering blanket coverage and a fast response

55
YEARS Laboratory
Technology

* Survey conducted by independent 'Mercuri International' institute



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Compact laboratory glassware washers

PG 8583, PG 8593, PG 8583 CD

Laboratory glassware washers from Miele Professional represent a commercial-grade solution for laboratory glassware for analytical experiments. This approach is particularly gentle on materials and is recommended by leading manufacturers of laboratory glassware

Developed for perfect laboratory glassware reprocessing:
Extended Care Program:

Competent Machinery

Miele's state-of-the-art stainless steel washers have powerful pumps and heating elements delivering consistent precision cleaning and analytically clean results year after year.

Dedicated Service

Miele's nationwide service network is comparable to none and offers free-of-charge Call Center support. As an international leader in critical cleaning systems, Miele makes parts replacement and availability a priority. Genuine Miele parts are stocked in the U.S., quality inspected and backed by our 90 day warranty.

Chemistry and Detergents

ProCare Lab and neodisher® detergent packages are tailored to the needs of the customer. They ensure proven results, and help to extend the life of the Miele glassware washer.

Application Support

Exclusive application laboratory in Princeton provides complimentary, world-class application assistance for the life of the machine.



Product benefits

PG 8583, PG 8593, PG 8583 CD lab washers

Competent and innovative



recommended by



- Intensive development work and close cooperation
- Trend-setting process development and product specifications



Greater capacity

- High capacity (e.g. up to 260 injector nozzles in combination with the modules for pipettes and laboratory glassware), achieved through optimised chamber dimensions and a completely redesigned range of load carriers, saves time, storage space and costs.
- Rear basket docking enables full use of space in load carriers. Laboratory glassware turnaround is increased and work is speeded up at peak hours.



Greater purity

- Excellent cleaning performance.
- Variable-speed pump for perfect spray pressure in all program phases.
- Laser technology is used to weld the chamber sections to give a perfectly smooth, crevice-free finish for the ultimate in hygiene.
- No more heater elements in the wash chamber.
- Multi-stage filtration system is highly efficient in removing particulate soil from water in circulation.
- Spray pressure and spray arm monitoring detects any loss in pressure as well as load items preventing spray arm rotation.
- Conductivity monitoring ensures required rinsing results.



Greater flexibility

- A new, modular basket concept offers maximum flexibility and intuitive operation as modules can be used in different combinations and can easily be reconfigured.
- Wide range of combination options guarantees flexibility in catering for different loads.
- Reduction in number of load carriers needed saves both on investments and storage space.
- In addition to a broad selection of standard programs, client-specific cycles ensure that reprocessing suits the type of soil and the type and quantity of laboratory glassware.

Overview of further product benefits

PG 8583, PG 8593, PG 8583 CD laboratory glassware washers



Design and user interface

The modern design and the intuitive user interface make for the incredibly simple use of laboratory glassware washers.

- The new control panel is the central design element and represents an intelligent combination of door handle and control panel. It consists of a single, flush stainless-steel surface with embedded 'touch-on-steel' controls.
- Inclined control panel for improved legibility.
- 3-line text display and intuitive user interface for hassle-free operation.
- Programs catering for all types of glassware and soils and vacant program slots for user-specific programs.
- Freely assignable direct-access buttons and individually selectable program names for fast access to routine tasks.
- Flush, smooth control panel and handle surfaces for simple wipe cleaning.



Ergonomics

An easily accessible salt container in the door and the AutoClose functions simplify the work of those operating these machines.

- The patented door salt container has a capacity of approx. 2 kg. Replenishing the salt no longer requires bending or stooping as the job can be performed standing upright. Similarly, there is no longer any need to remove heavy baskets and load carriers to access the salt container.
- AutoClose: Slight contact between the door and the machine is sufficient to automatically close the door. As a result, only a minimum of effort is required to reliably close and lock the door.



Highly efficient drying

Depending on the model, the new laboratory glassware washers feature DryPlus hot-air drying or EcoDry to assist drying by releasing steam.

- EcoDry: The door of the PG 8583 opens automatically at the end of a program once the temperature in the chamber drops below 70°C. This releases hot, moisture-laden air, allowing the load to dry and cool down faster.
- DryPlus hot-air drying on the PG 8593/PG 8583 CD represents an ideal solution when dealing with intricate and narrow-lumened laboratory glassware and equipment. An upstream Class H13/H14 HEPA filter ensures the reliable removal of particles from the air taken in for drying. The filter is easily accessible for servicing via a hatch in the machine toe-kick panel (PG 8593) or in the side unit (PG 8583 CD).



Hygienic chamber

A completely redesigned chamber on the new laboratory glassware washers enables high standards of hygiene and purity for analytical experiments.

- Laser technology is used to weld the chamber sections to give a perfectly smooth, crevice-free finish offering no nooks or crannies where blood or soil can accumulate.
- The removal of heater elements from the chamber removes a further potential source of a build-up of contamination and eliminates the risk of damage to plastic items.
- Greater space in the chamber facilitates a higher capacity per cycle (e.g. 128 laboratory vials or 98 pipettes together with other laboratory glassware).



Rear basket docking system

The relocation of the docking system for upper and lower baskets and load carriers to the rear of the chamber guarantees a more streamlined water and air circuit and improves the use of resources.

- Shorter circulation paths help minimise pressure losses and reductions in water temperature.
- Automatically self-sealing valves when not in use ensure uniformly high spray pressure.
- Use of same docking system to supply load carriers with water and hot air for internal drying.



Optimised spray arms

The new spray arm design consistently improves on progress made on previous model series and ensures the ultimate in reprocessing reliability.

- Different nozzle forms ensure the forceful removal of persistent soil and the uniform wetting of wash loads.
- Full spray jet coverage thanks to new arrangement of nozzles on spray arms.
- Lower water consumption per cycle without any trade-off in terms of cleaning performance.



Safety through constant checks

The new laboratory glassware washers feature spray pressure and spray arm monitoring and some models also monitor water conductivity. These advanced sensors make a considerable contribution towards ensuring the reliability of reprocessing.

- Blockages caused by protruding load items are immediately detected
- Spray pressure losses as a result, for example, of excessive foaming is reliably detected.
- Deviations from the selected conductivity level in the final rinse water are reliably detected. Range 0 $\mu\text{S}/\text{cm}$ - 1 mS/cm
- Thanks to integrated sensors, deviations from the program parameters are immediately recognised, allowing rapid intervention on the part of users.

Model overview

PG 8583, PG 8593, PG 8583 CD



	PG 8583	PG 8593	PG 8583 CD
Dimensions (with lid) H x W x D	32 7/8" x 23 5/8" x 23 5/8" 835 mm x 600 mm x 600 mm	32 7/8" x 23 5/8" x 23 5/8" 835 mm x 600 mm x 600 mm	32 7/8" x 35 7/16" x 27 9/16" 835 mm x 900 mm x 700 mm
Dimensions (without lid) H x W x D	32 5/16" x 23 9/16" x 23 9/16" 820 mm x 598 mm x 598 mm	32 5/16" x 23 9/16" x 23 9/16" 820 mm x 598 mm x 598 mm	32 5/16" x 35 3/8" x 27 1/2" 820 mm x 898 mm x 698 mm
Standard Electric*	3 AC 208V 60 Hz, 3-pole 20 A, 6.2 kW NEMA L15-20	3 AC 208V 60 Hz, 3-pole 20 A, 6.2 kW NEMA L15-20	3 AC 208V 60 Hz, 3-pole 20 A, 6.2 kW NEMA L15-20
Water Connections	1 Hot 2 Cold 1 DI Water	1 Hot 2 Cold 1 DI Water	1 Hot 2 Cold 1 DI Water
Powder Dispensing	•	–	–
Liquid Dispensing	• /– 2/1 internal pumps, 1/2 connection for DOS modules	• 1 internal pump, 2 connections for DOS modules	• 2 internal pumps (3rd pump optional)
Drying	EcoDry**	DryPlus***	DryPlus***
Steam Condenser	•	•	•
Spray Arm Monitoring	•	•	•
Conductivity Meter	–	–	•
Side Cabinet for Detergent Storage	–	–	•
Oil resistant Seals & Gaskets	• /–	–	• /–

*Convertible Electric: 2 AC 208V 60 Hz, 2-pole 30 A, 6.2 kW, NEMA L6-30

**EcoDry: Automatic Door Opening to Assist Drying

***DryPlus: HEPA-Filtered Forced-Air Drying







Innovative load carrier system

Load carriers and inserts offering improved efficiency

In the interests of the safety and retaining the value of laboratory glassware and equipment, Miele Professional offers a wide range of accessories, consisting of upper and lower baskets, load carriers and inserts for a variety of glassware types. The load carrier system has undergone further optimization in order to make loading even simpler. Thanks to SimpleLoad, loading was never simpler!

SIMPLELOAD

Great efficiency and versatility

The new SimpleLoad system utilises the available space in the chamber to a higher degree, allowing more laboratory glassware and equipment and other load items to be washed in each cycle. Another benefit accrues from the redesigned water and air circuit: Wash liquor and drying air is fed along a shorter and streamlined circuit and with minimal pressure losses on the way to the spray arms and injector nozzles. Optimum pressure conditions are also created by the automatically self-sealing docking valves when not occupied. The modular nature of the new load carriers represents a further product benefit, facilitating future extensions.

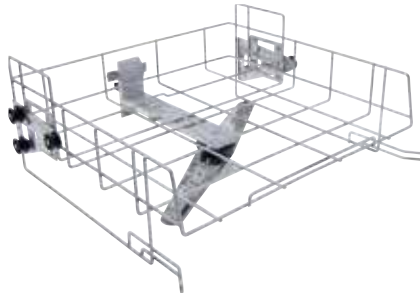
Overview of upper and lower baskets and load carriers

for PG 8583, PG 8593 and PG 8583 CD



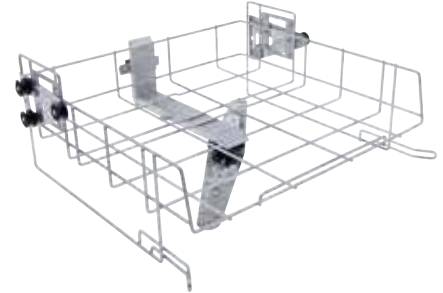
A 100 upper basket for modules

- Upper basket with two docking pipes
- For the connection of up to two injector modules
- Automatically self-sealing docking valves
- H 141, W 528, D 525 mm
- Loading dimensions H 235, W 485, D 435 mm



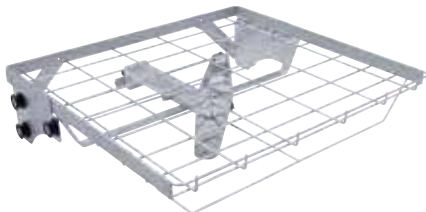
A 101 upper basket/open front

- Open front
- For various inserts
- Height-adjustable
- Built-in spray arm
- H 206, W 528, D 527 mm
- Loading dimensions H 160 +/- 30, W 475, D 443 mm



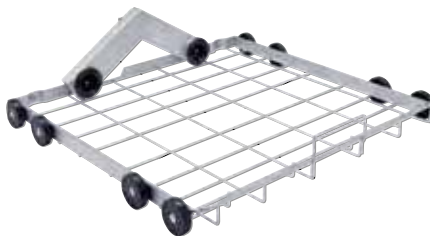
A 102 upper basket/open front

- Open front
- For various inserts
- Height-adjustable
- Built-in spray arm
- H 206, W 528, D 527 mm
- Loading dimensions H 205 +/- 30, W 475, D 443 mm



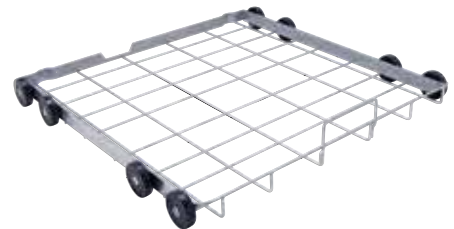
A 103 upper basket/open front

- Open front
- For various inserts
- Built-in spray arm
- Particularly suitable for the reprocessing of shallow loads in combination with A 202 load carrier.
- H 133, W 528, D 528 mm
- Loading dimensions H 95, W 505, D 472 mm



A 150 lower basket for modules

- Lower basket with two docking pipes
- For the connection of up to two injector modules
- Automatically self-sealing docking valves
- H 154, W 529, D 546 mm
- Loading dimensions H 235, (with A 100 upper basket) W 490, D 435 mm



A 151 lower basket/open front

- For various inserts
- H 88, W 529, D 110 mm
- Loading dimensions
 - H with A 100: 235 mm
 - H with A 101: 275 +/- 40 mm
 - H with A 102: 230 +/- 30 mm
 - H with A 103: 305 mm
 - H without upper basket 495
 - W 490, D 489 mm

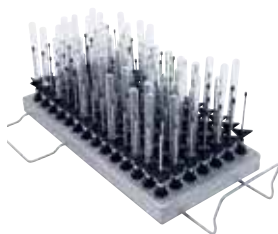
Injector modules and load carriers for pipettes, vials and measuring cylinders

For use with A 100 upper basket and A 150 lower basket



A 303 module for pipettes

- For e.g. 98 measuring and full pipettes
- Height of retaining frame 150 mm
- H 185, W 225, D 471 mm
- Vertical clearance without upper basket: 450 mm (with A 150 lower basket)
- One each for use in A 150 lower basket



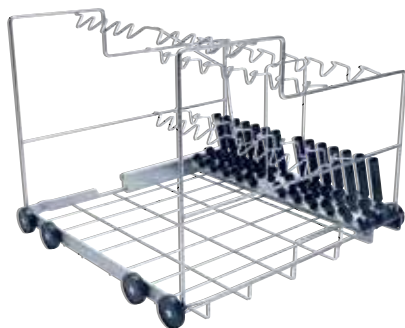
A 304 module for vials

- For 98 tubes, e.g. centrifuge tubes, vials, test tubes or autosampler tubes
- H 130, W 222, D 471 mm
- One each for A 100 upper basket or A 150 lower basket



A 306 module for measuring cylinders

- For laboratory glassware, in particular large measuring cylinders
- Capacity: four 1-2 l measuring cylinders, tall
- Contact surfaces plastic coated
- H 418, W 235, D 471 mm



A 200 load carrier

- For 38 pipettes in 3 rows
- 1st row: 10 pipettes, max. 100 ml, Spacing 20 mm
- 2nd row: 14 pipettes, max. 25 ml, Spacing 26 mm
- 3rd row: 14 pipettes, max. 10 ml, Spacing 26 mm
- H 397, W 529, D 546 mm



A 202 load carrier

- For inserts on 2 levels
- Built-in spray arm
- Loading dimensions, lower level: H 95, W 519, D 485 mm or H 135, W 494, D 500 mm (with/without rack inserts)
- Loading dimensions, upper level: H 135, W 516, D 462
- 6 additional LuerLock connections
- H 223, W 529, D 542 mm



E 802 nozzle

- Applies to laboratory glassware washer with powder dispensing
- For use with injector modules to rinse out powder residue from door dispenser
- H 187, W 30, D 15 mm

SimpleLoad – Fast loading and highly efficient use of chamber space. The new loading system for cleaning laboratory glassware.

Miele reinvents loading: with SimpleLoad

SIMPLELOAD

- New injector system for all common injector modules and a large number of further load carriers
- Optimum use of available vertical clearance
- Particularly fast and simple arrangement of load
- Thorough internal cleaning of glassware of all shapes and sizes
- Secure hold and exceptional material protection during wash cycle

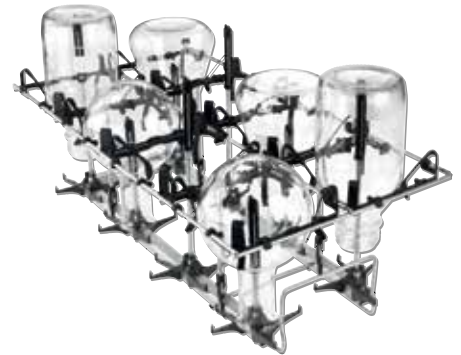
SimpleLoad means efficiency

and a systematic approach to convenience:

- New injector nozzles (3 diameters, 6 lengths)
- New plastic holders and support frames
- New injector modules (8, 18 or 32 injectors)
- New support frames (for 8, 18 or 32 injector positions)
- Available for PG 8583, PG 8583 CD, PG 8593 and PG 8536



Even if a nozzle tip rests against the base of a glass, the new injectors still guarantee thorough cleaning. The new support frame surrounds the injectors in the module or basket, preventing lateral movement without wasting valuable height.



The new support frame provides additional hold. When required, it is placed on top of the injector module, providing a secure hold to even large items of laboratory glassware in a vertical and protected position.

Injector modules for laboratory glassware

For use with A 100 upper basket and A 150 lower basket

SIMPLELOAD



A 300/3 module 2x4

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (250 - 1,000 ml)
- 4x A 840 injector nozzles, 4x A 841 injector nozzles
- H 228, W 208, D 479 mm



A 301/5 module 3x6

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (50 - 250 ml)
- 9x A 842 injector nozzles, 9x A 843 injector nozzles
- H 203, W 229, D 493 mm



A 302/3 module 4x8

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (25 - 100 ml)
- 16x A 844 injector nozzles, 16x A 845 injector nozzles
- H 143, W 240, D 477 mm



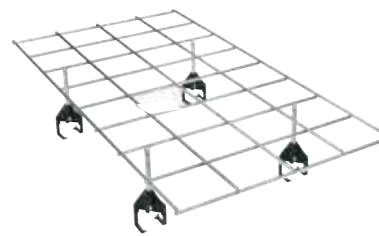
A 860 support frame 2x4

- For improved protection and centering of load items
- For use with A 300/3 und A 300/2 modules



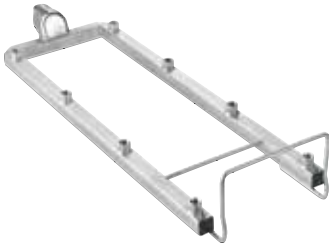
A 861 support frame 3x6

- For improved protection and centering of load items
- For use with A 301/5 und A 301/4 modules



A 862 support frame 4x8

- For improved protection and centering of load items
- For use with A 302/3 und A 302/2 modules



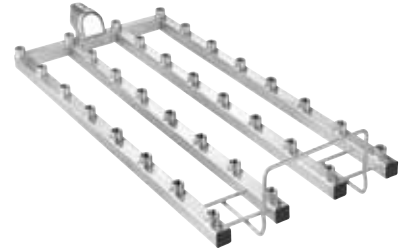
A 300/2 module 2x4 (w/o nozzles)

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders
- For up to 8 injector nozzles (particularly suitable for Ø 6 mm, e.g. A 840 or A 841, other diameters possible depending on application)
- H 73, W 133, D 475 mm



A 301/4 module 3x6 (w/o nozzles)

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders
- For up to 18 injector nozzles (particularly suitable for Ø 4 mm, e.g. A 842 or A 843, other diameters possible depending on application)
- H 73, W 173, D 475 mm



A 302/2 module 4x8 (w/o nozzles)

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders
- For up to 32 injector nozzles (particularly suitable for Ø 2.5 mm, e.g. A 844 or A 845, other diameters possible depending on application)
- H 73, W 195, D 475 mm

Injector nozzles



A 840 injector nozzle Ø 6x130 mm (1 piece)
 A 840/1 injector nozzle Ø 6 x 130 mm (5 pieces)
 A 840/2 injector nozzle Ø 6 x 130 mm (10 pieces)
 A 840/3 injector nozzle Ø 6 x 130 mm (20 pieces)



A 841 injector nozzle Ø 6 x 210 mm (1 piece)
 A 841/1 injector nozzle Ø 6 x 210 mm (5 pieces)
 A 841/2 injector nozzle Ø 6 x 210 mm (10 pieces)
 A 841/3 injector nozzle Ø 6 x 210 mm (20 pieces)



A 842 injector nozzle Ø 4 x 90 mm (1 piece)
 A 842/1 injector nozzle Ø 4 x 90 mm (5 pieces)
 A 842/2 injector nozzle Ø 4 x 90 mm (10 pieces)
 A 842/3 injector nozzle Ø 4 x 90 mm (20 pieces)



A 843 injector nozzle Ø 4 x 185 mm (1 piece)
 A 843/1 injector nozzle Ø 4 x 185 mm (5 pieces)
 A 843/2 injector nozzle Ø 4 x 185 mm (10 pieces)
 A 843/3 injector nozzle Ø 4 x 185 mm (20 pieces)



A 844 injector nozzle Ø 2.5 x 80 mm (1 piece)
 A 844/1 injector nozzle Ø 2.5 x 80 mm (5 pieces)
 A 844/2 injector nozzle Ø 2.5 x 80 mm (10 pieces)
 A 844/3 injector nozzle Ø 2.5 x 80 mm (20 pieces)



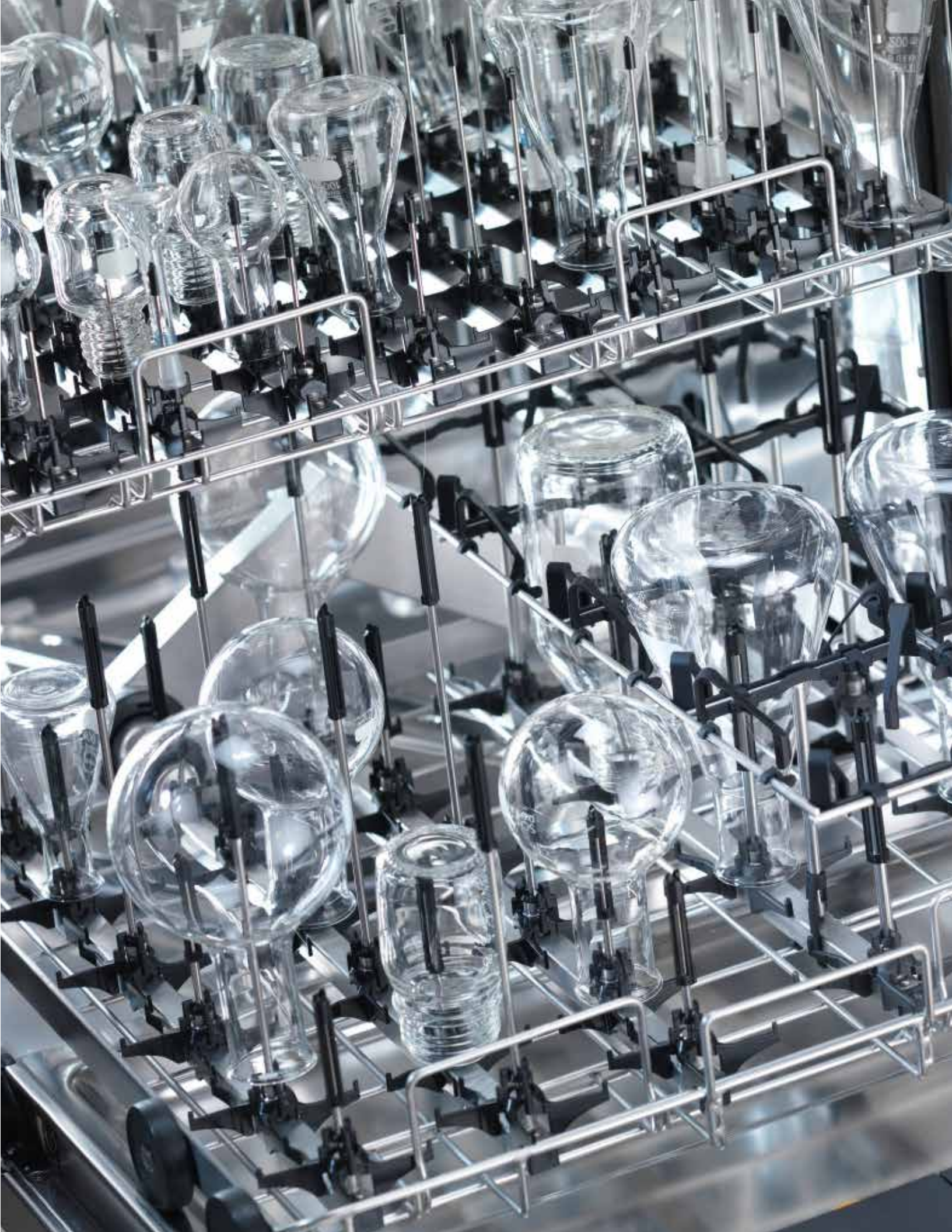
A 845 injector nozzle Ø 2.5 x 125 mm (1 piece)
 A 845/1 injector nozzle Ø 2.5 x 125 mm (5 pieces)
 A 845/2 injector nozzle Ø 2.5 x 125 mm (10 pieces)
 A 845/3 injector nozzle Ø 2.5 x 125 mm (20 pieces)

Compatibility with entire product range

SimpleLoad components



Laboratory glassware washers		Modules	Nozzles	Holder rack
Current model series				
	PG 8583	•	•	•
	PG 8593	•	•	•
Previous model series				
	G 7883	-	•	-
	G 7893	-	•	-



Accessories for reprocessing with fully demineralised water

for PG 8583, PG 8593 and PG 8583 CD



PG 8595 Aqua Purificator

- Housing unit for 2 water demineralization cartridges VE P 2000 / VE P 2800
- Compatible with PG 8583, PG 8593, PG 8583 CD
- Generally recommended quality for final rinse < 19 µS/cm
- H 835 (820), W 300, D 600 mm
- Freestanding unit, can be built under
- Outer panelling in stainless steel or white
- Condition as supplied: Empty housing unit. Cartridges and fittings must be ordered separately.



CM/1 ConductivityMeter

- Conductivity module for water demineralization cartridges VE P 2000 and VE P 2800
- • Single-line display
- 10-point measurement in 0 - 199.9 µS/cm range: 1/3/5/10/15/20/50/75/100/199.9 µS/cm
- Optical and acoustic 'change cartridge' indicator
- Optical and acoustic fault indicator
- Wall bracket
- Connection to external LED (optional)
- Manual calibration on site
- H 110, W 125, D 52 mm
- Input: 110 - 240V, 50/60 Hz, 85 mA;
- Output: 9V, 400 mA, 3.6 VA
- Includes: Sensor cell with LED indicator and connection lead (length 1.0 m), 1 pressure hose 3/4" (length 1.94 m), 1 hose 3/4" (length 1.5 m)



LP 2800 demineralization cartridge, empty

- Can be charged with 19 l of single-use resin

E 315 disposable resin

- 20 l homogenous, mixed-bed resins for LP 2800
- Box with 2 x 10 l bags, vacuum-sealed in plastic bags
- Replacement filter bag

E 316 refill set

- Plastic barrel with lid and funnel for 30 l of disposable resin

SK fast-action coupling for water demineralization cartridges

- Conversion kit for simple replacement of cartridges consisting of:
 - 2 x VA adapters from 3/4" to fast-action for direct connection to cartridge
 - 2 x fast-action couplings with 3/4" PVC double nipple including gaskets for existing set of hoses.

UfZ conversion kit for spare cartridges

- If two cartridges are used, the 2 x VA 3/4" connections can be screwed onto the second cartridge. This avoids the need to change fittings.



VE P 2800 water demineralization cartridge, charged

- Pressure-proof stainless-steel cartridge
- Throughflow max. 800 l/h
- Delivery capacity can be monitored with conductivity module (ConductivityMeter CM/1)
- Complete with vent and pressure relief valve
- Pressure range 0.5 - 10 bar
- Contains 19 l of mixed, reactivatable resin
- Connection 3/4"
- Stainless-steel casing
- Dimensions: Ø 230 mm, H 570 mm +/- Hose connection radius (installation on either side of PG 8595 / PG 8596 possible)
- Max. supply temperature 40°C



VE P 2000 water demineralization cartridge, charged

- Pressure-proof stainless-steel cartridge
- Throughflow max. 450 l/h
- Delivery capacity can be monitored with conductivity module (ConductivityMeter CM/1)
- Complete with vent and pressure relief valve
- Pressure range 0.5 - 10 bar
- Contains 12.5 l of mixed, reactivatable resin
- Connection 3/4"
- Stainless-steel casing
- Dimensions: Ø 230 mm, H 410 mm +/- hose connection radius
- Max. supply temperature 40°C

Capacity in litres between cartridge reactivation cycles

°d German hardness	5	10	15	20	25	30
µS/cm	150	300	450	600	750	900
VE P 2800	5,600	2,800	1,850	1,400	1,120	930
VE P 2000	4,000	2,000	1,330	1,000	800	660

1°d corresponds to approx. 30 µS/cm.
The information provided in this chart is intended as a guide only.

Dispensing accessories

for PG 8583, PG 8593 and PG 8583 CD



PG 8596 dispenser unit

- Housing unit for process chemicals and dispenser modules
- H 835 (820), W 300, D 600 mm
- Compatible with PG 8583, PG 8593
- Freestanding unit, can be built under
- Unit with removable door
- Outer panelling in stainless steel or white
- Interior dimensions: H 690 / 380 / 285 mm (top drawer removed / lower / upper drawer), W 250 mm, D 555 / 425 mm (without / with drip tray and dispenser modules)

2 levels:

Removable telescopic drawers with drip tray liners for canisters containing process chemicals

Canister sizes:

Accommodates a total of 6 x 5 l canisters (L 245 x W 145 x H 225 mm*).

Lower drawer offers space for larger canisters:

- 2 x 10 l, 140 x 193 x 307 mm
- 2 x 10 l, 223 x 203 x 321 mm
- 2 x 10 l, 229 x 193 x 323 mm
- 2 x 10 l, 194 x 204 x 353 mm
- 1 x 20 l, 289 x 233 x 396 mm
- 1 x 25 l, 288 x 234 x 456 mm

* Only possible with DOS K 85/1 dispenser unit with short siphon



DOS K 85/1 dispenser module

- For liquid alkaline detergents and chemical disinfectants, neutralising agent
- Peristaltic pump, adjustable via machine's electronic controls
- Integrated dispenser monitoring function ensuring high level of process security
- Short siphon (200 mm) for 5 l canister, incl. level fill monitoring
- Length of connection cable: 3.00 m
- Length of suction hose: 1.80 m



DOS K 85 dispenser module

- As DOS K 85/1
- But with long siphon (300 mm) for 5 l and 10 l canisters
- Option: Conversion kit for siphon (10-30 l containers) available from Spares.

Bases

for PG 8583, PG 8593 and PG 8583 CD



UG 30-60/60-85 base

- For use on PG 8583 and PG 8593
- Stainless-steel base, bolted to machine
- H 300, W 600, D 600 mm



UG 30-90/60-85 base

- For use on PG 8583 and PG 8593 in combination with PG 8595 or PG 8596 (installation on either side of PG 8595 / PG 8596 possible)
- Stainless-steel base, bolted to machine
- H 300, W 900, D 600 mm



UG 30-90/70-85 base

- For use with PG 8583 CD
- Stainless-steel base, bolted to machine
- H 300, W 900, D 700 mm



UG 70-60/80

- For use on PG 8583 and PG 8593
- Stainless-steel base with door, bolted to machine
- Fitted with floor tray, door with lock and key, bracket for conductivity meter and flowmeter, fixture for status LED in door frame
- Possible load configurations
 - 2 new-generation dispenser modules (e.g. DOS K 85) 2 canisters for liquid products, max. 10 l, 2 full demineralization cartridges (e.g. VE P 2800), 1 conductivity module
- H 700, W 600, D 550 mm



UGT 44-60/85

- For use on PG 8583 and PG 8593
- Stainless-steel base with door, bolted to machine
- Option to use extension feet UGT F10
- H 440, W 600, D 600 mm

UGT F10

- Extension feet to base UGT 44-60/85
- H 100 mm





Laboratory glassware washers

PG 8536

Miele Professional has set innovative milestones for more than five decades and stands for the efficient and safe machine-based reprocessing of laboratory glassware. The PG 8536 laboratory washer excels by offering added value: greater cleaning performance, improved process security and better efficiency.

Product benefits

PG 8536



PerfectTouchControl –

Simple operation and cleaning

- Controls with flush, uninterrupted touch glass screen
- Reliable operation possible even when wearing gloves
- Chemical-proof surface is flush with machine front
- Simple and effective wet-wipe disinfection

**Exclusive
to Miele**



PerfectPureSensor –

Residue-free rinsing

- Patented conductivity monitoring system
- Detection and removal of undesirable substance from process water (e.g. dissolved salts from alkaline or acidic process chemicals)
- Individually definable limits
- Low-maintenance and precise system thanks to contact-free conductivity monitoring
- Reliable documentation and reproduction of validated reprocessing results

**Exclusive
to Miele**



PerfectFlowSensor –

Dispensing control

- Ultrasound volumetric control for highest process security
- Precise dispensing of liquid chemicals
- Measuring system independent of viscosity and ambient temperature
- Use of particularly durable bellows-type dispenser pumps

Competent and innovative

Miele

recommended by



DURAN
WHEATON
KIMBLE

- Intensive development work and close cooperation
- Trend-setting process development and product specifications

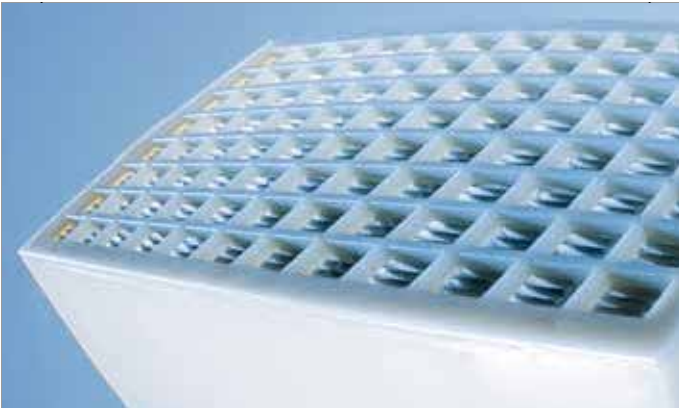


PerfectSpeedSensor –

Spray arm monitoring

- Precise speed control for safe reprocessing results
- Monitoring of all spray arms in machine and on baskets and load carriers
- Hygienic contact-free system with sensor outside chamber
- Safe reproduction of validated reprocessing results through early detection of excessive foaming or blockages

**Exclusive
to Miele**



PerfectHEPA Drying

- Exceptional cleanliness, including during the drying phase, is guaranteed by PerfectHepaDrying.
- Highly temperature-resistant HEPA-grade Class 13 filters able to filter out more than 99.95% of particles.
- Upstream position at entrance to cabinet prevents unwanted particles entering with drying air
- Streamlined air flow: All parts of cabinet are reliably reached by stream of hot air

Model overview

PG 8536

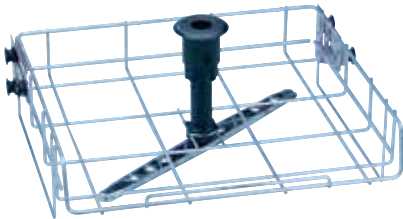


Laboratory glassware washers	PG 8536
Width [mm]	900
Height, Depth [mm]	1175, 700
Duration / VarioTD** [mins.]	41
Capacity: Vials	128
Capacity: Pipettes	98
+ other laboratory glassware	•
Drying	DryPlus
Integrated dispenser pump	2
Capacity of drawer for supply canisters, 5 l	4
Electrical connection 3 AC 208 V, 60 Hz	•
Total connected load [kW]	6.6



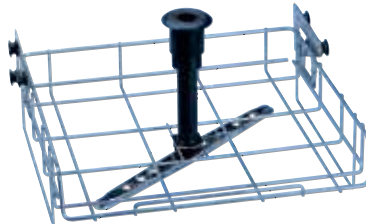
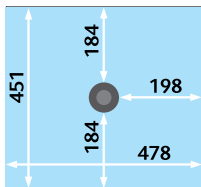
Upper and lower baskets

for PG 8536



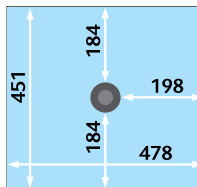
O 188/2 upper basket/open front

- Open front
- For various inserts
- Vertical clearance 165 mm
- Height adjustment range +/- 20 mm
- Built-in spray arm with magnetic tip for spray arm sensing
- H 215, W 531, D 475 mm



O 190/2 upper basket/open front

- As O 188/2
- Vertical clearance 215 mm
- Built-in spray arm with magnetic tip for spray arm sensing
- H 265, W 531, D 475 mm



O 175 upper basket/injector unit with drying connector

- For narrow-necked laboratory glassware
- 33 injector nozzles
- Vertical clearance 170 mm*
- Connection for hot-air drying unit
- • H 250, W 531, D 475 mm, H with drying connection 412 mm
- Powder dispensing not possible

Supplied as standard with:

- 33 nozzles (E 351), Ø 4 x 160 mm
- 33 clips for nozzles 4 x 160 mm (E 353)

* Clearance may be less, depending on type of laboratory glassware

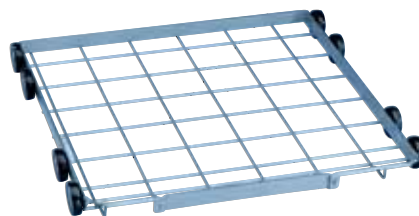


O 184 upper basket/injector unit with drying connector

- For items such as centrifuge tubes, vials, test tubes for fraction collectors or autosampler tubes
- 96 injector nozzles
- Vertical clearance 170 mm
- Connection for hot-air drying unit
- H 260 (468 with drying connector), W 531, D 475 mm
- Powder dispensing not possible

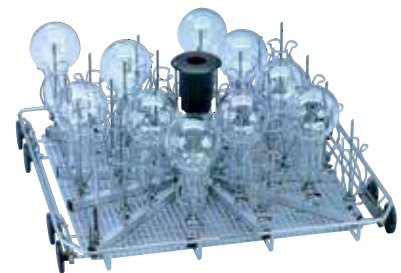
Supplied as standard with:

- 96 nozzles, Ø 2.5 x 110 mm with plastic support



U 874/1 lower basket/open front

- Open front
- For various inserts
- Clearance heights in combination with upper basket:
 - O 175 TA approx. 230 mm +/- 20 mm
 - O 184 approx. 205 mm +/- 20 mm
 - O 187 approx. 225 mm +/- 20 mm
 - O 188/2 approx. 270 mm +/- 20 mm
 - O 190/2 approx. 220 mm +/- 20 mm



U 175/1 lower basket/injector unit

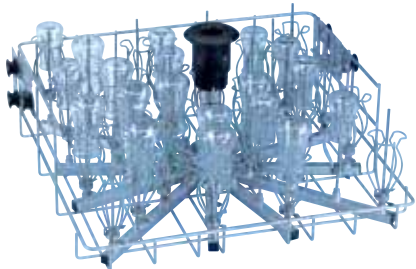
- For narrow-necked glassware
- 33 injector nozzles
- Vertical clearance approx. 170 mm
- Only in conjunction with

O 175/O 187/O 184 upper baskets

- H 250, W 531, D 475 mm

Supplied as standard with:

- 33 nozzles (E 351), Ø 4 x 160 mm
- 33 clips for nozzles (E 353), 4 x 160 mm
- 1 irrigation nozzle



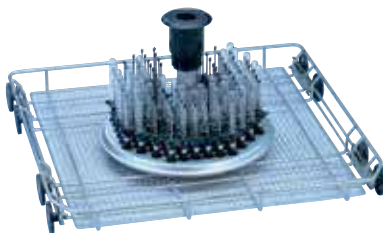
O 187 upper basket/injector unit

- For narrow-necked laboratory glassware
- 34 injector nozzles
- Vertical clearance 170 mm*
- H 250, W 531, D 475 mm
- Powder dispensing not possible

Supplied as standard with:

- 34 nozzles (E 351), Ø 4 x 160 mm
- 34 clips for nozzles 4 x 160 mm (E 353)

* Clearance may be less, depending on type of laboratory glassware



U 184/1 lower basket/injector unit

- For items such as centrifuge tubes, vials, test tubes for fraction collectors or autosampler tubes
- 96 injector nozzles
- Only in conjunction with

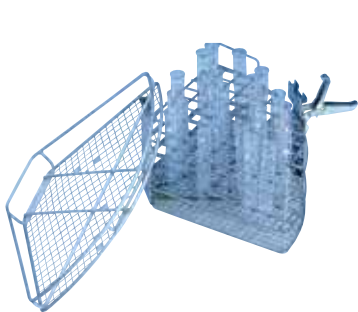
O 175/O 187/O 184 upper baskets

- Vertical clearance approx. 170 mm
- H 250, W 531, D 515 mm

Supplied as standard with:

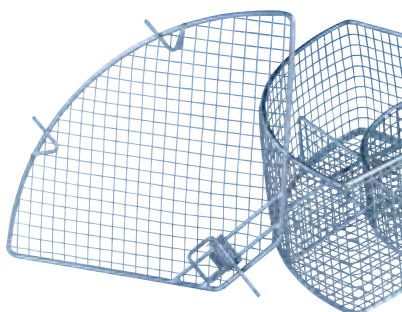
- 96 nozzles 2.5 x 90 mm with plastic supports

Inserts for test tubes, funnels, beakers, wide-necked glassware for PG 8583, PG 8593, PG 8583 CD and PG 8536



E 149 insert 1/4

- For 80 test tubes, max. 16 x 105 mm, incl. A 13 lid
- 80 compartments, 18 x 18 mm
- Mesh size on base 8 x 8 mm
- Lid available from Spares, Mat. no.: 05618390
- H 132 (152), W 200, D 320 mm



A 13 lid

- As replacement for E103, E104, E105 and E139 inserts
- Stainless steel
- 1 mm wire mesh
- 8 mm mesh gauge
- 4 mm all-round frame



E 103/1 insert 1/4

- For approx. 200 test tubes, max. 12 x 75 mm
- 6 compartments, incl. A 13 lid
- Mesh size 8 x 8 mm
- H 102 (122), W 200, D 320 mm

E 104/1 insert 1/4

- As E 103, but for test tubes, max. 12 x 105 mm, incl. A 13 lid
- Mesh size 8 x 8 mm
- H 132 (152), W 200, D 320 mm

E 105/1 insert 1/4

- As E 103, but for test tubes, max. 12 x 165 mm, incl. A 13 lid
- Mesh size 9 x 9 mm
- H 192 (212), W 200, D 320 mm

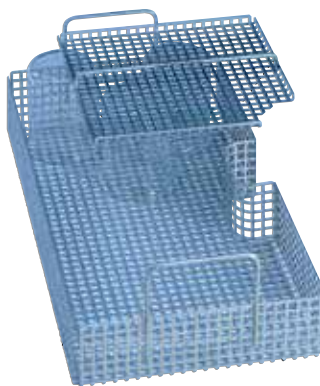
E 139/1 insert 1/4

- As E 103, but for test tubes, max. 12 x 200 mm, incl. A 13 lid
- Mesh size 9 x 9 mm
- H 223 (243), W 200, D 320 mm



AK 12 insert 1/2

- For funnels, beakers, wide-necked glassware, etc.
- H 67/122, W 225, D 434 mm

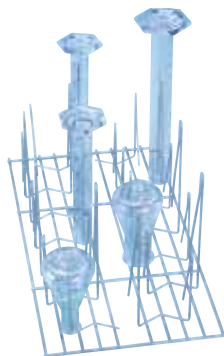


A 14 lid 1/4

- For AK 12 insert
- Stainless steel
- 7 x 7 mm perforations, 3 mm ridge
- H 20, W 210, D 210 mm

Inserts for beakers, wide-necked glassware, measuring cylinders

for PG 8583, PG 8593, PG 8583 CD and PG 8536



E 106 insert 1/2 (illustrated)

- For wide-necked glassware, measuring cylinders, etc.
- 10 spring hooks, H 175 mm
- 16 spring hooks, H 105 mm, spacing approx. 60 mm
- H 186, W 220, D 445 mm

E 106/1 insert 1/2

- 26 small spring hooks, H 105 mm, spacing approx. 60 mm
- H 116, W 220, D 445 mm

E 106/2 insert 1/2

- 13 large spring hooks, H 175 mm, spacing approx. 85 mm
- H 186, W 220, D 445 mm

E 109 insert 1/2 (illustrated)

- For 21 beakers up to 250 ml
- 21 x 3 spikes
- H 155, W 230, D 460 mm

E 110 insert 1/2

- For 10 beakers, 250 ml to 600 ml
- 10 x 3 spikes
- H 175, W 230, D 460 mm

E 111 insert 1/2

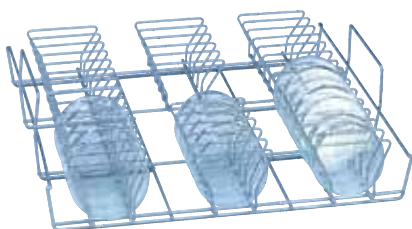
- For 8 beakers, 600 to 1,000 ml
- 8 x 3 spikes
- H 205, W 230, D 460 mm

E 144 insert 1/2

- For 18 beakers up to 250 ml
- 18 x 3 spikes
- H 131, W 200, D 445 mm

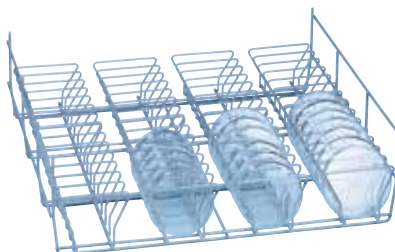
Inserts for Petri dishes, watch glasses, micro-titre plates, etc.

for PG 8583, PG 8593, PG 8583 CD and PG 8536



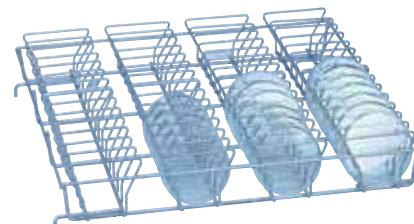
E 118 insert 1/1

- For 38 Petri half-dishes, 100 mm
- 38 holders, Height 70 mm
- Spacing approx. 26 mm
- H 120, W 460, D 445 mm



E 136 insert 1/1

- For 56 Petri half-dishes, 100 mm
- 56 holders, Height 70 mm
- Spacing approx. 26 mm
- H 145, W 485, D 445 mm



E 137 insert 1/1 for E 136

- For 56 Petri half-dishes, 100 mm
- 56 holders, Height 70 mm
- Spacing approx. 26 mm
- H 95, W 485, D 445 mm



E 402 insert 1/2

- For 44 Petri dishes, 80-125 mm
- 23 supports, distance between supports 15 mm
- H 53, W 200, D 445 mm



E 403 insert 1/2

- For 105 Petri dishes, 50-60 mm
- 36 supports, distance between supports 9 mm
- H 35, W 200, D 445 mm



E 134 insert 1/2

- For 210 slides
- 210 compartments 26 x 11 mm
- Wire gauge 3 mm
- H 73, W 200, D 445 mm



E 494 insert 1/2

- For 5 micro-titre plates
- H 35, W 205, D 440 mm

Injector unit for pipettes

for PG 8536



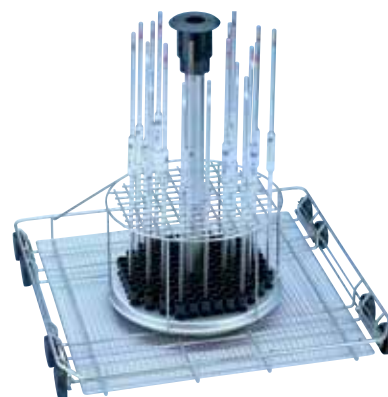
E 404/1 injector unit

- For 38 pipettes in 3 rows:
 - Row 1: 10 pipettes 100 ml (length up to 550 mm), Spacing 20 mm,
 - Row 2: 14 pipettes 25 ml, Spacing 26 mm
 - Row 3: 14 pipettes 10 ml, Spacing 26 mm
- Without holder for ML/2 magnetic strip for automatic load carrier recognition/spray arm sensing



E 405/1 injector unit with drying connection

- As E 404/1
- Connection for hot-air drying unit
- With holder for ML/2 magnetic strip for automatic load carrier recognition/spray arm sensing



E 406 injector unit

- For 116 pipettes up to 450 mm
- Compartment size 16 x 16 mm
- Complete with retaining frame, height 150 mm
- Without holder for ML/2 magnetic strip for automatic load carrier recognition/spray arm sensing



E 408 injector unit with drying connection

- As E 406 but for 96 pipettes
- Connection for hot-air drying unit
- With holder for ML/2 magnetic strip for automatic load carrier recognition/spray arm sensing



Inserts for narrow-necked glassware

for PG 8536



E 355 injector unit 1/2

- For narrow-necked glassware
- 16 injector nozzles
- One half vacant for other inserts

Supplied as standard with:

- 7 x E 351 injector nozzles, Ø 4.0 x 160 mm
- 7 x E 353 clips for nozzles, 4.0 x 160 mm
- 9 x E 352 injector nozzles, Ø 6.0 x 220 mm
- 9 x E 354 clips for nozzles, 6.0 x 220 mm
- 1 x rinse nozzle for door powder dispenser



E 385 1/2 injector unit with drying connection

- As per E 355, but with connection for hot air drying unit
- 16 injector nozzles
- Holder for ML/2 magnetic strip for automatic load carrier recognition

Supplied as standard with:

- 7 x E 351 injector nozzles, Ø 4.0 x 160 mm
- 7 x E 353 clips for nozzles, 4.0 x 160 mm
- 9 x E 352 injector nozzles, Ø 6.0 x 220 mm
- 9 x E 354 clips for nozzles, 6.0 x 220 mm
- 1 x rinse nozzle for door powder dispenser



E 340 injector unit 1/2

- For narrow-necked glassware
- 19 injector nozzles
- One half vacant for other inserts

Supplied as standard with:

- 3/3/3 nozzles, Ø 4.0 x 140/160/180 mm
- 3/3/4 nozzles, Ø 6.0 x 200/220/240 mm
- 1 x rinse nozzle for door powder dispenser



E 408 injector unit with drying connection

- As E 350 but with 32 nozzles/clips
- Connection for hot-air drying unit

Supplied as standard with:

- 14 x E 351 injector nozzles, Ø 4.0 x 160 mm
- 14 x E 353 clips for nozzles, 4.0 x 160 mm
- 18 x E 352 injector nozzles, Ø 6.0 x 220 mm
- 18 x E 354 clips for nozzles, 6.0 x 220 mm
- 1 x rinse nozzle for door powder dispenser



E 329 injector unit 1/1

- For narrow-necked glassware
- 39 injector nozzles

Supplied as standard with:

- 4/5 nozzles, Ø 2.5 x 90/110 mm
- 5/5/5 nozzles, Ø 4.0 x 140/160/180 mm
- 5/5/5 nozzles, Ø 6.0 x 200/220/240 mm
- 1 x rinse nozzle for door powder dispenser



E 414 1/1 injector unit with drying connection

- As E 329, but with 37 nozzles
- Connection for hot-air drying unit
- With holder for ML/2 magnetic strip for automatic load carrier recognition/spray arm sensing

Supplied as standard with:

- 4/3 nozzles, Ø 2.5 x 90/110 mm
- 5/5/5 nozzles, Ø 4.0 x 140/160/180 mm
- 5/5/5 nozzles, Ø 6.0 x 200/220/240 mm
- 1 x rinse nozzle for door powder dispenser



E 350 injector unit 1/1

- For narrow-necked glassware
- 33 injector nozzles

Supplied as standard with:

- 15 x E 351 injector nozzles, Ø 4.0 x 160 mm
- 15 x E 353 clips for nozzles, 4.0 x 160 mm
- 18 x E 352 injector nozzles, Ø 6.0 x 220 mm
- 18 x E 354 clips for nozzles, 6.0 x 220 mm
- 1 x rinse nozzle for door powder dispenser



E 331 injector unit 1/1

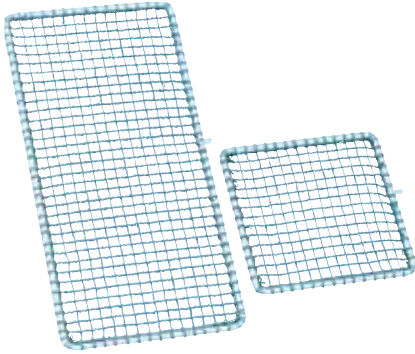
- For butyrometers
- 39 injector nozzles

Supplied as standard with:

- 39 SD-B injector nozzles for butyrometers
- 1 x rinse nozzle for door powder dispenser

Accessories

for PG 8583, PG 8593, PG 8583 CD and PG 8536

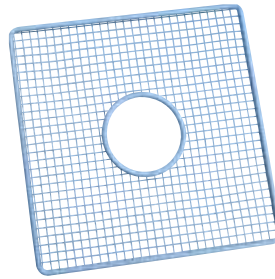


A 2 cover net 1/2 (similar to photo)

- Plastic-coated metal frame with plastic netting
- For 1/2 inserts
- 216 x 456 mm

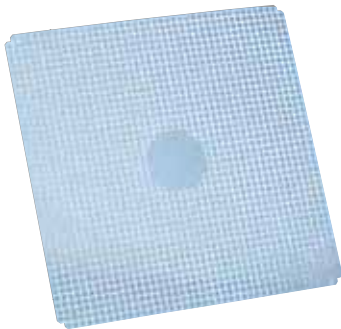
A 3 cover net 1/4 (similar to photo)

- Plastic-coated metal frame with plastic netting
- For 1/4 inserts
- 206 x 206 mm



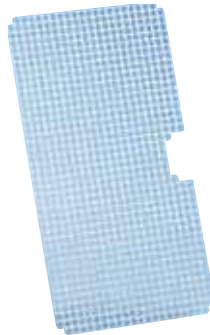
A 5 cover

- Stainless-steel frame with plastic net (material quality PA 12)
- For O and U 184, E 747, E 947
- H 8, W 280, D 280 mm



A 11/1 insert 1/1 underframe

- With perforations 7 x 7 mm
- For upper or lower basket
- Stainless steel
- W 429, D 429 mm



A 12/1 insert 1/2 underframe

- With perforations 7 x 7 mm
- For upper or lower basket
- Stainless steel
- W 429, D 224 mm



E 336 irrigation sleeve

- Plastic, with screw fitting
- For pipettes (max. length 445 mm) in injector units
- Ø 11 mm
- Length 121 mm



SD-B injector nozzle for butyrometers

- For E 331 load carrier
- L 240 mm incl. thread, 4 x 140 mm plus welded, compressed nozzle, 1.5 x 100 mm



E 362 blanking screw

- M 8 x 1 thread, to seal connectors on load carriers





Process chemicals

ProCare Lab

Miele Professional has designed a comprehensive and systematic approach to the thorough and effective reprocessing of laboratory glassware and utensils. Alongside laboratory glassware washers and tailored programs, this system also comprises process chemicals - a critical factor in cleaning. Geared meticulously to the requirements of individual program phases, specially formulated detergents and neutralising agents guarantee thorough, fast and gentle process cycles.

Quality from Miele Professional:

Process chemicals for the perfect reprocessing of laboratory glassware and equipment



ProCare Lab process chemicals are ideally suited to a multitude of applications, ensuring the trace-free removal of a wide range of soils in laboratory glassware washers. At the same time, the process takes extreme care of loads. That is why Miele Professional is recommended by leading manufacturers of laboratory glassware.

The new ProCare Lab process chemicals have undergone extensive laboratory tests to ensure that they match the performance of high-performance lab washers from Miele Professional. Consequently, users profit highly from immaculate reprocessing for their analytical experiments, benefit from the value of their equipment being maintained and from fast glassware turnaround times.

A broad range of powder and liquid detergents is available to cover the various relevant applications. The packaging of the various products is color-coded in order to reduce the risk of mix-ups. Even in the hustle and bustle of laboratory life, fast and error-free reprocessing is guaranteed.



- ProCare Lab 11 AP
- Alkaline detergent
- Powder
- Container size 10 kg



- ProCare Lab 10 MA
- Alkaline detergent
- Liquid
- Container sizes 5 l, 10 l



- ProCare Lab 10 AP
- Alkaline detergent
- Liquid
- Container sizes 5 l, 10 l



- ProCare Lab 10 AT
- Alkaline detergent
- Liquid
- Container sizes 5 l, 10 l



- ProCare Lab 10 AO*
- Alkaline detergent
- Liquid
- Container sizes: 5 l



- ProCare Lab 30 C
- Acidic neutralising agent based on citric acid
- Liquid
- Container sizes 5 l, 10 l



- ProCare Lab Universal 61
- Coarse special salt
- Container size 6 kg



- Canister key
- Simplifies the opening of firmly tightened safety caps

*Note: When using detergents with active chlorine, increased wear of organic materials such as plastics and elastomers in the laboratory glassware washer is to be expected. A temperature of 75°C should therefore not be exceeded in main wash cycles when using detergents containing higher concentrations of chlorine. In order to prevent such wear and tear, Miele recommends that machines be serviced annually or after 1000 operating hours. A failure to perform regular maintenance may invalidate guarantee and warranty claims. Please contact Miele Service or request an offer for a maintenance contract.

Note: Additional detergents available - please contact your Miele representative for more info.

ProCare Lab

Properties

Product	Container size	Properties	Ingredients	pH range
Main wash				
● ProCare Lab 11 AP	10 kg	Powder, alkaline Oxidative Free from: Phosphates,	Oxygen bleach Tensides	11.5-11.7 ¹
● ProCare Lab 10 MA	10 l	Liquid, alkaline Free from: Tensides and oxidative agents	Alkali hydroxide Phosphates Silicates	11.6-11.8 ²
● ProCare Lab 10 AP	5 l, 10 l	Liquid, alkaline Free from: Tensides, Phosphates and oxidative agents	Alkali hydroxide Polycarboxylates	12.5-12.7 ²
● ProCare Lab 10 AT	5 l	Liquid, alkaline contains tensides Free from: Phosphates, silicates and oxidative agents	Alkali hydroxide Polycarboxylates Tensides	12.2-12.5 ²
● ProCare Lab 10 AO*	5 l	Liquid, alkaline Oxidative Free from: Tensides,	Alkali hydroxide Phosphates Chlorine bleach	11.8-12.1 ²
Neutralization				
● ProCare Lab 30 C	5 l, 10 l	Liquid Acidic (based on citric acid) Free from: Tensides and phosphates	Citric acid	2.9 -2.5 ³
Reactivating				
● ProCare Lab Universal 61	6 kg	Coarse special salt for reactivation of built-in water softener		

¹ pH value (determined using fully demineralised water at 20°C) 2 to 4 g/l

² pH value (determined using fully demineralised water at 20°C) 2 to 4 g/l

³ pH value (determined using fully demineralised water at 20°C) 1 to 4 g/l

ProCare Lab

Applications

Product	Main applications	Contamination	Material compatibility
Main wash			
● ProCare Lab 11 AP	Water laboratories, serological institutes, laboratories in phosphate industry	Inorganic and organic soils	Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics** (PE, PP, PVDF, PTFE) Not suitable for: Light alloys and non-ferrous metals, aluminium, anodised aluminium
● ProCare Lab 10 MA	Medical, biological and chemical laboratories	Blood, protein, Nutrient residues	Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics** (PE, PP, PVDF, PTFE) Conditionally suitable for: Non-anodised aluminium and non-ferrous metals (preliminary checks required) Not suitable for: Anodised aluminium
● ProCare Lab 10 AP	Medical, biological, micro-biological and chemical laboratories, water laboratories, phosphate industry, laboratories in food processing, cosmetics, pharmaceutical, mineral oil and other industries	Stubborn or dried-on residues	Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics** (PE, PP, PVDF, PTFE) Not suitable for: Light alloys and non-ferrous metals, aluminium, anodised aluminium
● ProCare Lab 10 AT	Laboratories in food, cosmetics, pharmaceutical, mineral oils and other industries	Stubborn residues such as oils, greases, paraffins, resins, organic dyes	Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics** (PE, PP, PVDF, PTFE) Not suitable for: Light alloys and non-ferrous metals, aluminium, anodised aluminium
● ProCare Lab 10 AO*	Micro-biological, virological, nuclear medical laboratories, food industry, paints and coatings	Nutrient residues, blood, protein, radioactive contamination, residues of tissue and cell cultures	Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics** (PE, PP, PVDF, PTFE) Not suitable for: Light alloys and non-ferrous metals, aluminium, anodised aluminium
Neutralization			
● ProCare Lab 30 C	Medical, biological, micro-biological and chemical laboratories, water laboratories, phosphate industry, laboratories in food processing, cosmetics, pharmaceutical, mineral oil and other industries	Residues soluble in acids	Suitable for: Stainless steel, laboratory glassware, ceramics, plastics*** (PE, PP, PVDF, PTFE); additionally suitable for the neutralization of non-anodised aluminium Not suitable for: Alloys and non-ferrous metals, chrome- and nickel-plated parts, anodised aluminium; not suitable for acidic pre-washing of non-anodised aluminium
Reactivating			
● ProCare Lab Universal 61	ProCare Universal 61 prevents scaling and protects loads		

*Note: When using detergents with active chlorine, increased wear of organic materials such as plastics and elastomers in the laboratory glassware washer is to be expected. A temperature of 75°C should therefore not be exceeded in main wash cycles when using detergents containing higher concentrations of chlorine. In order to prevent such wear and tear, Miele recommends that machines be serviced annually or after 1000 operating hours. A failure to perform regular maintenance may invalidate guarantee and warranty claims.

** Plastics suitable for alkaline machine-based wash according to manufacturer.

*** Plastics suitable for acidic machine-based wash according to manufacturer

Cleaning Agents

Effective cleaning in critical applications requires the proper balance of many factors. Process chemicals must be selected with many things in mind including the soils to be removed, the material being cleaned, the cleaning method itself and the water quality. Our ProCare Lab and neodisher® cleaning agents ensure critical cleaning results when properly used.

Cleaning Agent Product Selection Guide

Product	Function	Active Ingredients							
		Bleach	Silicone	Active Oxygen	Caustic Alkali	Alkali Metal Salts	Complexing Agents	Phosphates	Surfactants/Emulsifiers
neodisher® LaboClean A8	Detergent	•			•	•	•	•	
neodisher® LaboClean F	Detergent				•	•	•		
neodisher® LaboClean GK	Detergent	•				•	•	•	•
neodisher® LaboClean LA	Detergent				•	•	•	•	•
ProCare Lab 11 MA	Detergent					•	•	•	•
ProCare Lab 11 AP	Detergent			•		•	•		
ProCare Lab 10 MA	Detergent					•	•	•	
neodisher® LaboClean FT	Detergent	•			•		•	•	
ProCare Lab 10 AP	Detergent				•		•		
ProCare Lab 10 AT	Detergent				•		•		•
MediClean Forte	Detergent								
ProCare Lab 30 P	Neutralizer							•	
ProCare Lab 30 C	Neutralizer								
neodisher® EM	Neutralizer								•

Industry	Powder	Liquid	Notes and Indications
Cosmetic	ProCare Lab 11 MA	ProCare Lab 10 MA	For lightly soiled items with good emulsifying and dispersing action for removal of creams and lotions
Waste Water	ProCare Lab 11 AP	ProCare Lab 10 AP	A phosphate-free detergent ideal for removal of trace metals from laboratory glassware
Environmental	ProCare Lab 11 AP	ProCare Lab 10 AP	Effective in removing metal salt and metal ion trace residues found in environmental glassware
Educational	ProCare Lab 11 AP	ProCare Lab 10 AP	Powerful dirt suspending properties for generalized cleaning
Biotech	neodisher® LaboClean GK	neodisher® LaboClean FT	No surfactants to leave inhibitory residues for cell, tissue and bacterial culture work
Food	neodisher® LaboClean LA	ProCare Lab 11 AT	Has powerful emulsifying and dispersing action for removal of fats, oils and waxes
Chemical	neodisher® LaboClean F	ProCare Lab 11 AP	Intensive cleaner with no phosphates to interfere with crucial analyses. For general chemical containment
Metal	ProCare Lab 11 MA	ProCare Lab 10 MA	Ideal for cleaning stainless steel without any corrosive effects
Inks/Pigments	neodisher® LaboClean F	neodisher® LaboClean FT	Effective in removal of printing inks and felt tip marker inks
Paints	neodisher® LaboClean F	neodisher® LaboClean FT	Good dispersing action, surfactant-free
Medical Instruments		MediClean Forte	For removal of blood and protein residues. Will not damage instruments, is safe to handle and environmentally friendly
Industrial		ProCare Lab 10 AT	For effective cleaning of heavy residue of oils, petroleums and hydrocarbons and other organic greases





Miele
PROFESSIONAL

Service excellence

Maintenance and service contracts



Service to meet professional expectations

Highly qualified service engineers oversee the install and commissioning of machines and are available to perform preventative maintenance over the course of the machine's lifetime. This prevents faults occurring in the first place and offers an opportunity to optimize operating parameters on an ongoing basis. delivery and commissioning of machines and are available to perform various routine checks during the course of the machine's life time. This prevents faults occurring in the first place and offers an opportunity to optimise operating parameters on an ongoing basis.

Additional advantages:

- Regular checks and maintenance safeguards investments.
- First-class service with our network of technicians
- Reliable spares service, key functional parts available for 15 years after series production ceases.

Available Miele service options

- Preventative maintenance
- Full-service maintenance contract
- Machine qualification - IQ/ OQ

Comprehensive service from the very start

Even before a machine is installed, Miele's sales force is available to provide dentists with in-depth advice. Experienced experts assist in selecting the most suitable machines and configurations to suit individual needs. Between our application specialist and experienced call center staff, we are ready to support the product at any stage of its life span.

Preventative maintenance and service contracts

Miele Professional offers laboratories options for having regular preventative maintenance as well as service contracts. Utilizing both of these option provides an analysis of functionality and safety with respect to all key components, including replacement as and when necessary. Scheduled maintenance prevents breakdowns from happening in the first place, increases the life expectancy of machines and contributes towards safeguarding investments. This offer from Miele Service includes a whole range of performance and process checks.

Excellent Miele in-house service operation offering extended coverage. Comprehensive advisory services covering planning, requirement assessment and technical support. Service contracts guaranteeing functional safety and preserving values.





Miele Professional

Top-notch quality and service

Decades of experience, an unerring pursuit of quality and the power of innovation means that Miele sets the benchmark. High-performance laboratory glassware washers from Miele Professional are recommended by leading manufacturers of laboratory glassware. In combination with accessories specific to models and applications, machines from Miele Professional facilitate the fast and simple reprocessing of all types of glassware.

Performance

- Thorough yet gentle reprocessing with dependable results
- Process control perfectly matches machines and laboratory glassware
- All-in system from one single supplier consisting of perfectly matching components (machines, chemicals, software, service)

Quality and economic operation

- Highest-quality materials and workmanship
- Superior product longevity and reduced need for maintenance
- Short cycle times and sparing use of resources

Safety and convenience

- Ergonomic controls simplify everyday laboratory work
- Convenient navigation avoids mistakes on the part of the user
- Large-scale, easy-to-read text display
- Fully automatic protocolling and documentation of reprocessing

Service

- Excellent Miele in-house service operation offering blanket coverage.
- Comprehensive advisory services covering planning, requirement assessment and financing.
- Customised service contracts guaranteeing functional safety and preserving values.

Miele Professional
9 Independence Way
Princeton, NJ 08540

Toll Free: 800-991-9380
Fax: 609-419-4241

proinfo@mieleusa.com
www.mieleusa.com/professional



Forever Better

Since 1899, Miele – a family run company – has subscribed to a clear corporate philosophy condensed into the two words “Forever better.” This far-reaching claim is the bedrock of Miele’s proverbial quality and sustainability and the power of innovation of a brand “Made in Germany.” A brand promise which gives commercial users the certainty of having chosen the right product.

Award-winning

Uncompromising product reliability and service dependability is the reason why customers have repeatedly voted Miele the best and most trustworthy brand. Coveted awards such as the MX Award, the iF and reddot Design Awards and the German Sustainability Prize confirm the distinguished position Miele enjoys with respect to design, quality management and the sparing use of resources.

Proficient

Miele Professional has been developing and manufacturing a broad range of high quality laundry machines, dishwashers, washer-disinfectors and sterilizers for decades. Carefully selected accessories, comprehensive advisory services and a fast-acting Miele service department ensures that machines perform to satisfaction and offer the ultimate in performance and efficiency.