

Miele

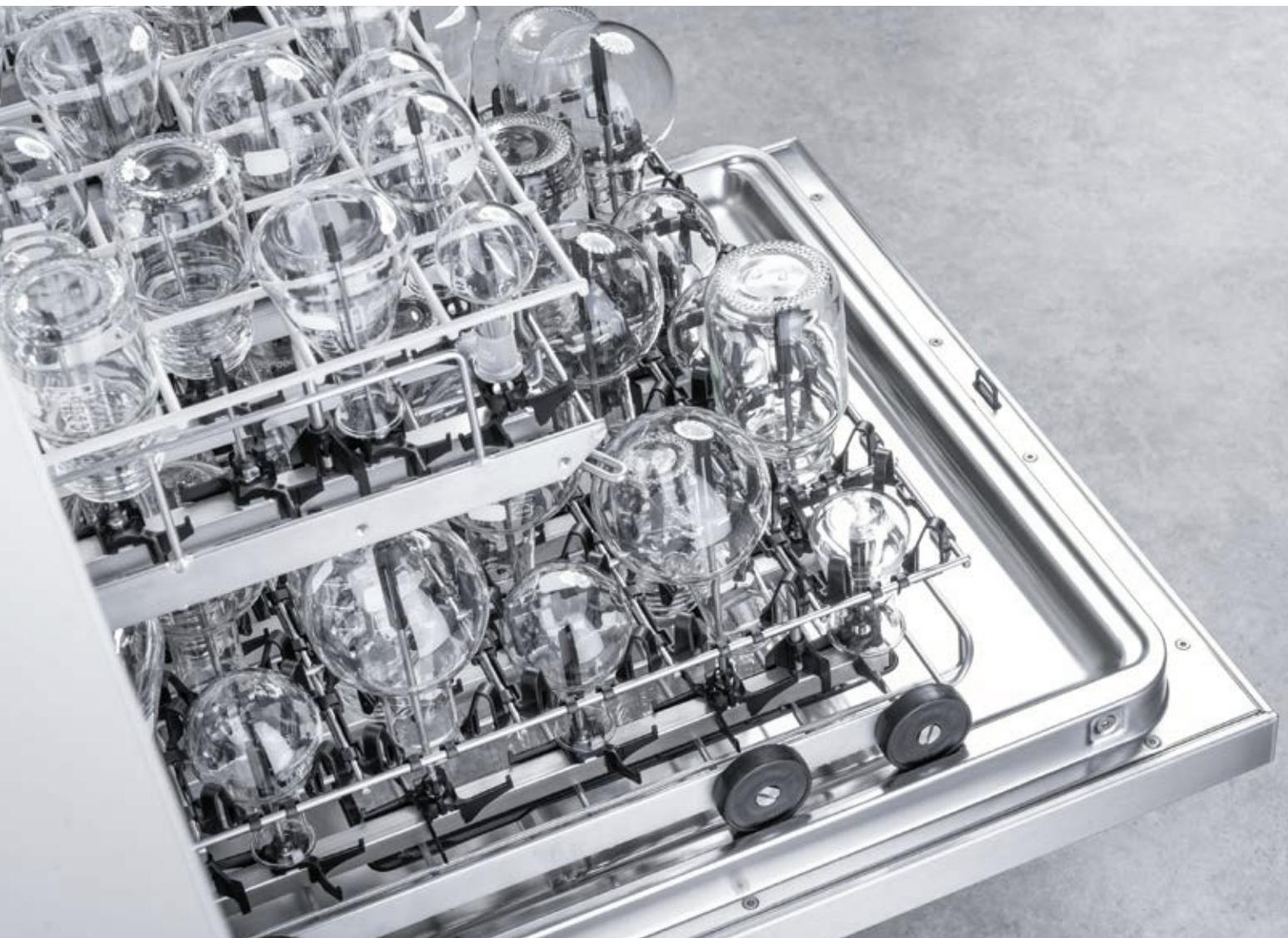
Product Overview

Solutions for Laboratories

Miele Professional. Immer Besser.

Edition 1 | January 2026

360
PRO



Always at Your Side
With Reliable and Sustainable Solutions.



Explore Our Solutions

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Find all information here:
www.miele.co.uk/p/

With Miele Professional, you are choosing reliable solutions that stand for quality and longevity.

As a family company now run by its fourth generation, Miele remains true to its responsibility to its products and processes, its employees and business partners and towards conserving our natural resources. This is reflected in the materials we choose as well as in the design and production of our machines. All of our customers benefit from innovations “Made in Germany” which set standards throughout the industry as well as from award-winning product design for ergonomics and functionality, combined with low consumption and running costs.

Miele Professional develops solutions tailored to specific target groups which inspire our customers while simplifying workflows and streamlining processes. Our guiding principle of “Immer Besser” (“Forever better”) has been at our core for the last 125 years, and continues to be at the heart of what we do, ensuring reliability and quality for all of our solutions.

Markus Miele Reinhard Zinkann

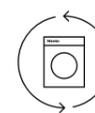
Dr Markus Miele
Executive Director and Co-Proprietor
Miele Cie. KG

Dr Reinhard Zinkann
Executive Director and Co-Proprietor
Miele Cie. KG

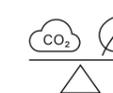


Our pledges for the planet

The race to save our only planet is ever-accelerating. Our commitment to evolve our ambitions is too. With these pledges, we intend to continue along the path we have already embarked on:



Sustainability at every level
We are continually working towards making sustainability an essential component of every phase of the product or service life cycle – throughout the entire value creation chain and in the homes and businesses of our customers.



Make machines that won't leave a mark
Miele is dedicated to producing the best possible products and services with the least impact on the environment, with the ultimate aim of making them 100% carbon-neutral.



End waste by giving our machines new life
We are working towards creating a circular economy with net-zero waste, where all materials used in our machines re-enter the loop at the end of their service life.

360PRO – The Holistic and Sustainable Solution for All Your Business Needs

You can rely on our unrivalled support when it comes to all of your reprocessing needs thanks to our tried-and-tested holistic solutions. Miele Professional provides you with the ideal solutions to meet the many demands of your business. From planning and calculation through to implementation and maintenance, we ensure that you can fully focus on your daily work, all with total peace of mind. **We call this 360PRO.**



Service solutions you can depend on

Our PROtect service combines comprehensive services, maximum cost control and the easy availability of spare parts. Our specially trained technicians perform and document service work according to Miele standards and templates and in full compliance with legal requirements. This guarantees process security and preserves the value of your machines in the long term. We provide transparent advice specific to your industry, coordinate appointments and guarantee the availability of suitable spare parts – even 15 years after machines are discontinued. Our comprehensive service network protects your machines and your business, giving you total peace of mind.



More information about PROtect:
www.miele.co.uk/pro/protect



Miele MOVE stands for digitalisation and progress

Make organising your daily work routines easier, more structured and more efficient with the digital solutions from Miele Professional. Start with the free Miele MOVE Connect basic module and, if you need to, add extra modules with extended functions that are specifically designed for your industry. Take a step towards a digital future with us. More information at:
www.miele-move.com



Innovation for optimum loading

With EasyLoad, Miele Professional has reinvented the loading of lab washers. The innovative system makes loading faster and more reliable as expensive load items are automatically and properly positioned in the load carrier. Newly developed injector nozzles guarantee thorough cleaning of internal glass surfaces – even the surfaces which rest on the tips of nozzles. In addition to this, much more efficient use is made of the space in the wash cabinet. EasyLoad allows configurations to suit individual needs – and can be retrofitted with ease at any time.

- New injector system for all common injector modules and a wide range of additional load carriers
- Optimum use of available vertical clearance
- Particularly fast and simple arrangement of load items
- Thorough internal cleaning of glassware of all shapes and sizes
- Secure hold and exceptional protection of materials during a wash cycle

Find out more about EasyLoad:



Glitch-free and fast experiments and analyses are a quality feature in any laboratory. Reliably cleaned laboratory glassware is a prerequisite: only this approach is able to guarantee reproducibly good results. Manual cleaning, however, is hardly able to ensure consistently good results in the reprocessing of glassware. And there are numerous other downsides. Only machine-based reprocessing ensuring analytical levels of quality guarantee the consistency and precision required in everyday laboratory life.

Learn more about the benefits of machine-based laboratory glassware reprocessing:



Optimum use of space

- New design of racks for greater vertical clearance
- Secure hold thanks to wider supports



Reliable cleaning results

- Reliable cleaning results, even on glassware not placed over nozzles



Fast and simple loading

- No manual height adjustment required thanks to intelligent design of nozzles and holder racks
- Correct and automatic positioning of glassware thanks to flexible holder racks

Benefits of machine-based cleaning



- First-class and safe cleaning producing consistent and validatable results
- Faster reprocessing using machine-based systems v. manual cleaning: 60 glasses in 24 minutes v. 1 glass per minute
- Reduced consumption of energy, water and detergents
- Extended service life of laboratory glassware
- An investment in a laboratory washer can pay its way in less than two years

Disadvantages and risks of manual cleaning



- Hand washing at the sink is not ergonomic, is an unpleasant chore and takes up a great deal of time and effort
- High risk of damage to valuable laboratory glassware
- Considerable imprecision in regard to key factors: dispensing of detergents, size and shape of cleaning brushes, duration of cleaning and pressure applied
- Health risk through inhaling aerosols, contact with chemicals and injuries from splinters

Laboratory Washers



ExploreLine laboratory washers

PLW 8604

ExpertLine laboratory washers

PLW 8683, PLW 8693, PLW 8683 CD
PLW 8636

SlimLine laboratory washers

PLW 7111

Large-chamber laboratory washers

PLW 8615, PLW 8616, PLW 8617

ExploreLine Laboratory Washer

PLW 8604

Miele benefits with a payback

ExploreLine



Additional information about ExploreLine can be found on our new products page:



Easy

- Intuitive menu navigation thanks to clear touch display
- Quick access to predefined standard programmes



Flexible

- Use of two EasyLoad modules on one level. Use of second level for various inserts. This ensures maximum flexibility when reprocessing a wide range of laboratory glassware
- The modular approach to baskets offers a large number of combination options for intuitive operation



Sustainable

- Compared to manual cleaning, valuable resources are saved which protects the environment and reduces costs in the long term:
 - Up to 63 %* less water
 - Up to 59 %* less time
 - Up to 150 % more throughput



Cost-effective

- Cost-effective organisation of work processes, as up to 60 laboratory glasses can be cleaned in 24 minutes
- Employees can use this time for other things and work more efficiently



Safe

- Standardised, reproducible cleaning process for the analytical purity of the laboratory glassware
- Reduction of health risks to employees thanks to a reduction in the amount of aerosols inhaled, exposure to chemicals and the risk of injury through broken glass



Durable and hygienic

- Ensures a long service life of glasses by protecting the material and reducing glass breakage
- The wash cabinet is seamlessly welded using laser technology and provides no chance for dirt deposit build-up. The relocation of heater elements to outside the wash cabinet guarantees even greater hygiene

* Savings with PLW 8604, heating: 8.5 kW (3N AC 400 V 50 Hz), connection to cold water and demineralised water (15 °C). Other technical framework conditions may result in different values.

ExploreLine Laboratory Washer

PLW 8604

Freestanding machine, can be built-under



Laboratory washers	PLW 8604
Width	600
Height, depth [mm]	835 (820 ¹), 600 ²
Shortest programme running time ³ [min]	19
Capacity: laboratory bottles	64
Capacity: pipettes	–
Capacity: mixed load consisting of laboratory bottles and pipettes	–
Capacity: mixed load consisting of laboratory glassware and vials	130
Drying	–
Conductivity monitoring	–
Integrated dispensing pump	–
Powder dispensing	◆
Special version for oil-based applications	–
Integrated feed pump for demineralised water	–
Drawer for containers (3 x 5 l or 2 x 10 l)	–
Electrical connection 3N AC 400 V, 50 Hz	◆
Total rated load [kW]	9.3

¹ Built-under machines

² Freestanding machine with lid (optional) H 835, D 700 mm

³ Short programme

Customise your laboratory washers with:

- Baskets and further components from Page 51
- Detergents from Page 87
- Process documentation from Page 95

Version Overview, Programmes, Running Times and Consumption Data

ExploreLine

PLW 8604

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 8604	SST	600 mm	AC 230V 50HZ 13 A	12797650	62860414GB	4002516882961
PLW 8604 [ADP]	SST	600 mm	AC 230V 50HZ 13 A	12797660	62860422GB	4002516882978

PLW 8604	Cleaning				Drying		
	Running time [min]	CW [l]	HW [l]	DW [l]	Energy [kWh]	Running time [min]	Energy [kWh]
Short	19	10.0	-	9.0	1.5	-	-
Medium	24	18.0	-	9.0	1.6	-	-
Long	30	27.0	-	9.0	2.0	-	-

Heating: 8.5 kW (3N AC 400 V 50 Hz), connection to cold water (15 °C), hot water (65 °C), demineralised water (15 °C)

PLW 8604

PLW 8604

Laboratory washers	PLW 8604
Built-under/freestanding machine with lid	◆
Circulation pump [Qmax. l/min]	500
Controls/programmes	
TouchControl/No. of programmes + vacant programme slots	6 + 4
Max. wash temperature [°C]	70
Max. no. of injector modules	2
AutoClose – automatic door lock	–
Buzzer, acoustic signal at end of programme	◆
WiFi communication module	◆
Ethernet communication module	–
Water connections	
1 x cold water, 2.0–10 bar flow pressure (200–1000 kPa) ¹	◆
1 x demineralised water, 2.0–10 bar flow pressure (200–1000 kPa) ¹	◆
(optional ADP version: connection for hose with 13 mm internal diameter)	◆
1 x hot water, 2.0–10 bar flow pressure (200–1000 kPa) ¹	–
No. of inlet hoses, ½" with ¾" threaded union, l = approx. 2.0 m	2 (1 on ADP version)
Drain pump Ø 22, delivery head: max. 100 cm	◆
Waterproof system (WPS)	◆
Electrical connection	
3N AC 400 V 50 Hz convertible to AC 230 V 50 Hz, mains connection cable, approx. 2.0 m, 5 x 2.5 mm ² incl. plug	◆
Heating [kW]	8.5
Circulation pump [kW]	0.8
Total rated load [kW]	9.3
Fuse rating [A]	3 x 16
Dispensing systems	
1 door dispenser for powder cleaning agent	◆
1 dispensing pump for liquid cleaning agent (suction lance length: 352 mm)	–
1 dispensing pump for neutralising agent (suction lance length: 352 mm)	–
Third internal liquid dispensing pump optional, fourth pump not possible	–
Drawer for detergents (3 x 5 l or 2 x 10 l)	–
Connection options	
DOS K 85 flex, DOS K 85/1 flex, DOS K 85 comfort or DOS K 85/1 comfort for liquid media	–
DOS G 80 Flex, DOS G 80/1 Flex, DOS G 80 Comfort or DOS G 80/1 Comfort for liquid media	1
Water softener	
For hot and cold water, max 65 °C	◆
Steam condenser	
Aerosol	–
Drying unit/Radial fan	
Fan [kW]	–
Heater bank [kW]	–
Total rated load [kW]	–
Air throughput [m ³ /h]	–
Temperature setting in 1 °C increments [°C]	–
Time setting in 1-minute increments [min]	–
Pre-filter/filtration efficiency (DIN EN 1822)/filter life	–
Particulate filter/HEPA filter/filtration efficiency (DIN EN 1822)/filter life	–
Dimensions, weight	
External dimensions H/W/D [mm]	835 (without lid 820)/600/600
Wash cabinet dimensions H/W/D [mm]	522/536/U=518 L=523 ¹
Weight [kg]	74
Casing options	
Lotus white (LW)	◆
Stainless steel (SST)	◆
Compliance	
Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU	◆
Test certificates	
IP 21	◆
CE	◆

¹ O: in the upper basket area, U: in the lower basket area



Entry level

- APLW 214 set consisting of:
 - ◊ A 101 upper basket with spray arm
 - ◊ A 11/2 insert, for the gentle cleaning of delicate load items by interrupting the water jet
 - ◊ A 150 lower basket for injector modules
 - ◊ 2 x A 301/5 injector module with 18 injector nozzles

Standard

- A 101 upper basket with spray arm
- 2 x AK 12/1 insert
- A 150 lower basket for injector modules
- A 300/3 injector module with 8 injector nozzles
- A 860 holder rack for A 300/3
- A 301/5 injector module with 18 injector nozzles
- A 861 holder rack for A 301/5

Overview of Components

PLW 8604

Items	Description	Mat. no.
Baskets		
A 100	Upper basket, for injector modules or inserts.	12642640
A 101	Upper basket, height adjustable, for inserts.	12645590
A 102	Upper basket, height adjustable, for inserts.	12645600
A 103	Upper basket, for inserts.	12664750
A 150	Lower basket, for injector modules or inserts.	12666330
A 151	Lower basket, for various standard DIN mesh trays and various inserts.	12666340
A 202	Mobile unit, for 4 DIN mesh trays.	12667130
A 200	Mobile unit, for 38 pipettes.	12667060
EasyLoad		
A 300/3	Injector module, for laboratory glassware – equipped with 8 nozzles.	11116900
A 301/5	Injector module, for laboratory glassware – equipped with 18 nozzles.	11116950
A 302/3	Injector module, for laboratory glassware – equipped with 32 nozzles.	11116960
A 860	Holder rack, for A 300/2 and A 300/3 injector module	12665410
A 861	Holder rack, for A 301/4 and A 301/5 injector module	12665440
A 862	Holder rack, for A 302/2 and A 302/3 injector module	12665480
A 300/2	Injector module, for laboratory glassware – can be equipped with 8 nozzles.	12668780
A 301/4	Injector module, for laboratory glassware – can be equipped with 18 nozzles.	12668790
A 302/2	Injector module, for laboratory glassware – can be equipped with 32 nozzles.	12669210
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 piece.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 piece	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 piece	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 piece	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 piece.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 piece.	11056670
A 303	Injector module, for max. 98 pipettes.	12669220
A 304	Injector module, for max. 98 vials.	12669230
A 306/1	Injector module, for large-volume laboratory glassware.	12683100
A 313	Injector module, for reprocessing large-volume laboratory glassware.	11055970
A 846	Injector nozzle, with support, for cleaning laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for cleaning Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for cleaning measuring cylinders.	11025610
A 312	Injector module, for reprocessing viscometers.	11054470
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff).	12151110
Inserts		
AK 12/1	Insert, for various utensils.	11131690
A 14/1	Lid, for securing delicate load items.	11131560
E 149	Insert, for 80 test tubes, 16 x 105 mm.	3808800
A 13	Lid, for securing delicate load items.	3810200
E 103/1	Insert, for test tubes, max. 12 x 75 mm.	12667340
E 104/1	Insert, for test tubes, max. 12 x 105 mm.	12667370
E 105/1	Insert, for test tubes, max. 12 x 165 mm.	12667380
E 139/1	Insert, for test tubes, max. 12 x 200 mm.	12667390
E 106	Insert, for wide-necked glassware, measuring cylinders, etc.	3808310
E 106/1	Insert, for wide-necked glassware, measuring cylinders, etc.	3808320
E 106/2	Insert, for wide-necked glassware, measuring cylinders, etc.	3808330
E 109	Insert, for beakers, max. 250 ml.	3808360
E 110	Insert, for beakers, max. 250–600 ml.	3808390

Items	Description	Mat. no.
E 111	Insert, for beakers, max. 600–1000 ml.	3808420
E 144	Insert, for max. 18 beakers.	3808710
E 118	Insert, for half Petri dishes.	3830270
E 136	Insert, for 56 half Petri dishes.	3830280
E 137	Insert, for 56 half Petri dishes.	3830290
E 402	Insert, for max. 44 watch glasses.	3830420
E 403	Insert, for max. 105 watch glasses.	3830430
E 134	Insert, for 210 slides.	3808600
E 494	Insert, for 5 microtiter plates.	12669920
Further components		
A 802	Nozzle, for optimum cleaning of the dispensing compartment.	9863070
A 2	Cover net, for securing delicate load items.	3830460
A 3	Cover net, as a cover for load items in inserts.	3830470
A 11/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11239130
A 12/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11238030
E 319/4	Surface filter, retains labels and glass splinters.	11237950
A 838	Tool set, for adjusting basket heights and installing/removing injector nozzles.	11054290
E 336	Irrigation sleeve, for pipettes/MIS instruments in mobile injector units.	3809390
E 351	Injector nozzle, for optimum cleaning of load items. Dimensions: 4 x 160 mm.	3809500
E 352	Injector nozzle, for optimum cleaning of load items.	3809510
E 353	Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.	3809530
E 354	Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.	3809540
E 470	Injector nozzle, for mobile injector unit, Ø 2.5 x 90 mm.	5701580
ID 90	Injector nozzle, with plastic support, Ø 3 mm, length 90 mm.	3810320
ID 110	Injector nozzle, with plastic support, Ø 3 mm, length 110 mm.	3810330
ID 140	Injector nozzle, with plastic support, Ø 4 mm, length 140 mm.	3810340
ID 160	Injector nozzle, with plastic support, Ø 4 mm, length 160 mm.	3810350
ID 180	Injector nozzle, with plastic support, Ø 4 mm, length 180 mm.	3810360
ID 200	Injector nozzle, with plastic support, Ø 6 mm, length 200 mm.	3810380
ID 220	Injector nozzle, with plastic support, Ø 6 mm, length 220 mm.	3810390
ID 240	Injector nozzle, with plastic support, Ø 6 mm, length 240 mm.	3810400
SD-B	Injector nozzle, for butyrometers.	3583540
E 362	Blanking screw, for sealing connections on load carriers.	3809630

Further technical information on the products listed in the table is provided on Page 51.

Combination Options Injector Modules/Upper and Lower Baskets



PLW 8604

Basket	+ Injector module	+ A 100 upper basket	A 101 upper basket			A 102 upper basket			A 103 upper basket
			Position			Position			
			Bottom	Middle	Top	Bottom	Middle	Top	
A 150	A 300/3 or A 300/2 with EasyLoad nozzles	–	–	◆	◆	–	–	!	◆
	A 301/5 or A 301/4 with EasyLoad nozzles	◆	◆	◆	◆	◆	◆	◆	◆
	A 302/3 or A 302/2 with EasyLoad nozzles	◆	◆	◆	◆	◆	◆	◆	◆
	A 301/4 module with SD-B nozzles	–	–	–	–	–	–	–	◆
	A 303	–	–	–	–	–	–	–	–
	A 304	◆	◆	◆	◆	◆	◆	◆	◆
	A 306/1	–	–	–	–	–	–	–	–
	A 312	–	–	–	–	–	–	–	–
	A 313	–	–	–	–	–	–	–	–

Basket	+ Injector module	Loading recommendation
A 100	A 300/3 or A 300/2 with EasyLoad nozzles	–
	A 301/5 or A 301/4 with EasyLoad nozzles	◆
	A 302/3 or A 302/2 with EasyLoad nozzles	◆
	A 301/4 module with SD-B nozzles	–
	A 303	–
	A 304	◆
	A 306/1	!
	A 312	!
	A 313	!

◆ Recommended combination
 - Combination not recommended
 ! Combination not possible

ExpertLine Laboratory Washers

PLW 8683, PLW 8693, PLW 8683 CD

Miele benefits with a payback

ExpertLine



Additional information about ExpertLine can be found on our new products page:



Convenient operation

- Intuitive and user-friendly colour touch display with quick access to favourite programmes and programme status overview
- Simplified loading thanks to wash cabinet lighting and monitoring of the cleaning process thanks to optional glass door



More efficient

- Outstanding cleaning performance thanks to variable-speed pump, maximum process reliability thanks to sensor technology and hygiene thanks to gap-free wash cabinet and multi-stage filter system
- Optimised commissioning and service-friendly positioning of relevant components



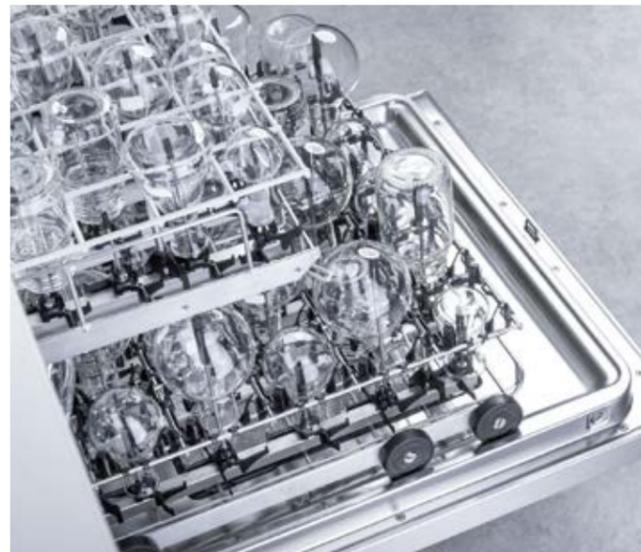
More sustainable

- Economical programmes designed for the application in question, short running times and resource-saving technologies, such as the integrated dispensing pumps for automatic dispensing of detergents – all this allows you to conserve water, energy and detergents and protects the environment



More durable

- Tested for 15,000 operating hours and 15-year availability of spare parts
- Specially developed programmes ensure long life cycles for laboratory glassware and machine



High capacity

- High capacity (e.g. up to 260 injector nozzles in combination with the modules for laboratory glassware/modules for vials), achieved through optimised chamber dimensions and a flexible range of load carriers, saves time, storage space and costs
- Flexible thanks to the EasyLoad accessory system. The versatile combination options reduce both the procurement costs and the storage space required



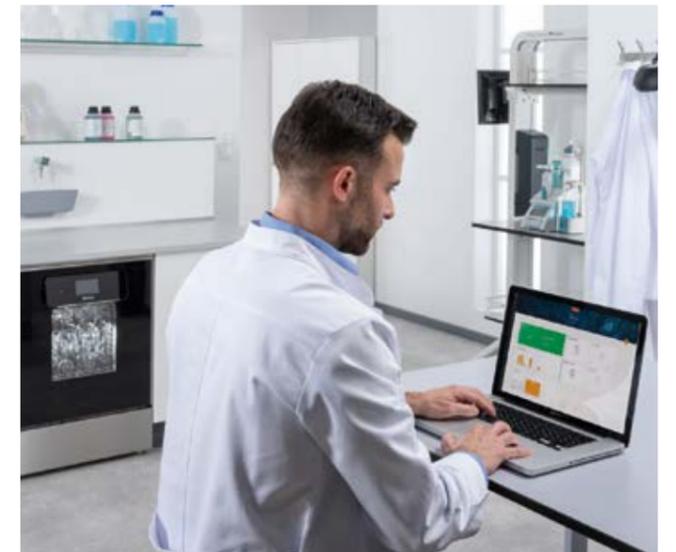
Various drying options

- EcoDry: after the programme ends, the door of the PLW 8683 opens automatically thanks to the AutoOpen function. This releases residual moisture out of the wash cabinet, allowing the load items to dry faster
- DryPlus: active hot air drying on PLW 8693 (with an upstream HEPA 13 filter)/PLW 8683 CD (HEPA 14 filter) is the ideal solution for drying narrow-lumened laboratory glassware and more complex geometries on the inside



More international and helpful

- Simple language selection via a special button on the control panel – can also be changed during the cleaning process
- If required, how-to sequences on the display help you to use the machine more efficiently



More digital

- Networking with Miele MOVE Connect: view machine data, check hygiene regulations, machine updates, full transparency of process data for cleaning programmes, direct service support and much more

ExpertLine Laboratory Washers

PLW 8683, PLW 8693, PLW 8683 CD
Freestanding machine, can be built-under



Laboratory washers	PLW 8683	PLW 8693	PLW 8683 CD
Width	600	600	900
Built-under machine, height, depth [mm]	820, 600	820, 600	820, 600
Freestanding machine, height, depth [mm]	835, 600 (603 with glass door)	835, 600	835, 700 ¹
Glass door with viewing window	Optional	–	Optional
Shortest programme running time ² [min]	20	20	20
Capacity: laboratory bottles	128	128	128
Capacity: pipettes	98	98	98
Capacity: mixed load consisting of laboratory bottles and pipettes	130	130	130
Capacity: mixed load consisting of laboratory glassware and vials	260	260	260
Drying	EcoDry	DryPlus	DryPlus
Conductivity monitoring	–	Optional	◆
Integrated dispensing pump (depending on variant ³)	1 or 2	1	2
Powder dispensing	◆	–	–
Special version for oil-based applications	Optional	Optional	Optional
Integrated feed pump for demineralised water	Optional	Optional	Optional
Drawer for containers (3 x 5 l or 2 x 10 l)	–	–	◆
Electrical connection 3N AC 400 V, 50 Hz	◆	◆	◆
Total rated load [kW]	9.3	9.3	9.3

¹ Freestanding machine with lid (optional) H 835, D 700 mm, glass door version with lid depth 603 mm also available

² Extra short programme

⁴ Length of suction lance: 333 mm for 5 l and 10 l media canisters

Customise your laboratory washers with:

- Baskets and further components from Page 51
- Detergents from Page 87
- Process documentation from Page 95

Version Overview

PLW 8683, PLW 8693, PLW 8683 CD

ExpertLine

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 8683 [ADP LD DC10]	SST	600 mm	AC 230V 50HZ 32 A	12798770	62868328GB	4002516883968
PLW 8683 [LD DC10]	SST	600 mm	AC 230V 50HZ 32 A	12798760	62868338GB	4002516883951
PLW 8683 [OIL LD DC10]	SST	600 mm	AC 230V 50HZ 32 A	12798790	62868324GB	4002516883975

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 8693 [DC10]	SST	600 mm	AC 230V 50HZ 32 A	12800370	62869354GB	4002516885047

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 8683 CD [ADP DC5 CM]	SST	900 mm	AC 230V 50HZ 32 A	12799710	6286C322GB	4002516884439
PLW 8683 CD [DC5 CM]	SST	900 mm	AC 230V 50HZ 32 A	12799700	6286C324GB	4002516884422
PLW 8683 CD [OIL DC5 CM]	SST	900 mm	AC 230V 50HZ 32 A	12799720	6286C326GB	4002516884446

PLW 8683	Cleaning					Drying	
	Running time [min]	CW [l]	HW [l]	DW [l]	Energy [kWh]	Running time [min]	Energy [kWh]
Universal	34	4.5	31.5	18.5	1.7	3	–
Standard	29	5.0	14.0	18.5	1.7	2	–
Standard Eco	29	5.0	14.0	18.0	1.2	–	–
Intensive	36	4.5	23.5	27.5	1.9	3	–
Cold water rinse	5	10.0	–	–	–	–	–
Inorganic	39	5.0	24.0	27.5	1.8	2	–
Organic	40	–	37.0	18.5	2.0	3	–
Oil	41	–	47.0	18.5	1.9	3	–
Agar	53	–	37.0	18.5	4.1	2	–
Plastics	36	36.0	–	18.5	1.5	–	–
Extra short	20	–	19.0	9.5	2.3	–	–
Injector Plus	40	6.0	42.0	24.0	1.8	3	–
Vials	69	6.0	30.0	36.0	2	–	–
Pipettes	43	7.5	37.5	45.0	1.8	2	–
Pasteurise	69	52.0	13.0	–	2.3	2	–
Hygiene 93/10	53	5.0	14.0	18.5	3.4	3	–
Demineralsed water rinse	5	–	–	10.0	–	–	–

PLW 8693, PLW 8683 CD							
Universal	33	4.5	31.5	18.5	2.1	37	0.7
Standard	28	5.0	14.0	18.5	2.8	37	0.7
Standard Eco	29	5.0	14.0	18.0	1.2	37	0.7
Intensive	35	4.5	23.5	27.5	2.3	37	0.7
Cold water rinse	4	10.0	–	–	3.0	–	–
Inorganic	36	5.0	24.0	27.5	2.4	37	0.7
Organic	38	–	37.0	18.5	1.8	37	0.7
Oil	39	–	47.0	18.5	1.6	37	0.7
Agar	53	–	37.0	18.5	4.1	36	0.9
Plastics	33	36.0	–	18.5	1.6	52	0.7
Extra short	18	–	19.0	9.5	2.3	37	0.7
Injector Plus	38	6.0	42.0	24.0	2.0	37	0.7
Vials	44	6.0	30.0	36.0	2.3	46	1.1
Pipettes	40	7.5	37.5	45.0	2.3	47	0.6
Pasteurise	69	52.0	13.0	–	2.3	–	–
Hygiene 93/10	51	11.9	29.6	14.0	1.5	79	1.4
Demineralsed water rinse	6	–	–	10.0	1.6	–	–
Drying	–	–	–	–	–	40	0.7

Heating: 8.5 kW (3N AC 400 V 50 Hz), connection to cold water (15 °C), hot water (65 °C), demineralsed water (15 °C)

	PLW 8683	PLW 8693	PLW 8683 CD
Laboratory washers			
Built-under/freestanding machine with lid	◆	◆	◆
Circulation pump [Qmax. l/min]	500	500	500
Controls/programmes			
TouchControl/No. of programmes + vacant programme slots	19 + 10	20 + 10	20 + 10
Max. rinse temperature [°C]	93	93	93
Max. no. of injector modules	4	4	4
AutoClose – automatic door lock	◆	◆	◆
LEDs for wash cabinet lighting, without/with glass door	2/6	2/–	2/6
Buzzer, acoustic signal at end of programme	◆	◆	◆
WiFi communication module	◆	◆	◆
Ethernet communication module	Optional	Optional	Optional
Water connections			
1 x cold water, 2.0–10 bar flow pressure (200–1000 kPa) ¹	◆	◆	◆
1 x demineralsed water, 2.0–10 bar flow pressure (200–1000 kPa) ¹ (optional ADP version: connection for hose with 13 mm internal diameter)	◆	◆	◆
1 x hot water, 2.0–10 bar flow pressure (200–1000 kPa) ¹	◆	◆	◆
No. of inlet hoses, ½" with ¾" threaded union, l = approx. 2.0 m	3 (2 on ADP version)	3	3 (2 on ADP version)
Drain pump Ø 22, delivery head: max. 100 cm	◆	◆	◆
Waterproof system (WPS)	◆	◆	◆
Electrical connection			
3N AC 400 V 50 Hz convertible to AC 230 V 50 Hz, mains connection cable, approx. 2.0 m, 5 x 2.5 mm ² incl. plug	◆	◆	◆
Heating [kW]	8.5	8.5	8.5
Circulation pump [kW]	0.8	0.8	0.8
Total rated load [kW]	9.3	9.3	9.3
Fuse rating [A]	3 x 16	3 x 16	3 x 16
Dispensing systems (depending on model)			
1 door dispenser for powder cleaning agent (models without glass door only)	◆/–	–	–
1 dispensing pump for liquid cleaning agent (suction lance length: 352 mm)	–/◆	◆	◆
1 dispensing pump for neutralising agent (suction lance length: 352 mm)	◆/◆	–	◆
Suction lances with fill level detection	◆	◆	◆
Third internal liquid dispensing pump optional, fourth pump not possible	–	–	◆
Drawer for detergents (3 x 5 l or 2 x 10 l)	–	–	◆
Connection options (depending on model)			
DOS K 85 Flex, DOS K 85/1 Flex, DOS K 85 Comfort or DOS K 85/1 Comfort	2/1	2	–
Water softener			
For hot and cold water, max 65 °C	◆	◆	◆
Steam condenser			
Aerosol	◆	◆	◆
Drying unit/Radial fan			
Fan	–	0.3	0.3
Heater bank [kW]	–	2.2	2.2
Total rated load [kW]	–	2.5	2.5
Air throughput [m ³ /h]	–	60	60
Temperature setting in 1 °C increments [°C]	–	50–115	50–115
Time setting in 1-minute increments [min]	–	0–120	0–120
Pre-filter/filtration efficiency (DIN EN 1822)/filter life	–	–	G 4/> 90%/100 h
Particulate filter/HEPA filter/filtration efficiency (DIN EN 1822)/filter life	–	H13/>99.95%/200 h	H 14/>99.995%/500 h
Dimensions, weight			
External dimensions H/W (H without lid 820 mm)	835/600	835/600	835/900
External dimensions D, without/with glass door (D without lid with glass door 600 mm)	600/603	600/–	600 or 700/603 or 600
Wash cabinet dimensions H/W/D [mm]	522/536/U=518 L=523 ²	522/536/U=518 L=523 ²	522/536/U=518, L=523 ²
Weight (without/with glass door) [kg]	74/80	78	98/104
Casing options			
Lotus white (LW)	◆	–	–
Stainless steel (SST)	◆	◆	◆
Compliance, test certificates			
Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU, IP 21, CE	◆	◆	◆

¹ Suction break according to EN 1717 ² U = Upper basket, L = Lower basket, ◆ = standard, – = not available

EasyLoad Sample Loads

PLW 8683, PLW 8693, PLW 8683 CD



Overview of Components

PLW 8683, PLW 8693, PLW 8683 CD



Basic

- A 101 upper basket with spray arm
- 2 x AK 12/1 insert
- A 150 lower basket for injector modules
- A 300/3 injector module with 8 injector nozzles
- A 860 holder rack for A 300/3
- A 301/5 injector module with 18 injector nozzles
- A 861 holder rack for A 301/5



High performance

- A 100 upper basket for injector modules
- 2 x A302/3 injector module with 32 injector nozzles
- 2 x A 862 holder rack for A 302/3
- A 150 lower basket for injector modules
- A 300/3 injector module with 8 injector nozzles
- A 860 holder rack for A 300/3
- A 301/5 injector module with 18 injector nozzles
- A 861 holder rack for A 301/5



Large laboratory glassware

- A 150 lower basket for injector modules
- 2 x A 313 module, for reprocessing large-volume laboratory glassware
- 4 x A 846 injector nozzle, with support, for laboratory bottles and round flasks



Measuring cylinders

- A 150 lower basket for injector modules
- 2 x A 306/1 module, for large-volume laboratory glassware



Pipettes and other laboratory glassware

- A 150 lower basket for injector modules
- A 303 module, for up to max. 98 pipettes
- A 301/5 injector module for optimum loading of laboratory glassware – equipped with 18 nozzles
- A 861 holder rack for A 301/4 and A 301/5 injector module



Sedimentation funnels

- A 150 lower basket for injector modules
- 2 x A 300/2 injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles
- 2 x APLW 870 set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff)

Items	Description	Mat. no.
Baskets		
A 100	Upper basket, for injector modules or inserts.	12642640
A 101	Upper basket, height adjustable, for inserts.	12645590
A 102	Upper basket, height adjustable, for inserts.	12645600
A 103	Upper basket, for inserts.	12664750
A 150	Lower basket, for injector modules or inserts.	12666330
A 151	Lower basket, for various standard DIN mesh trays and various inserts.	12666340
A 202	Mobile unit, for 4 DIN mesh trays.	12667130
A 200	Mobile unit, for 38 pipettes.	12667060
EasyLoad		
A 300/3	Injector module, for laboratory glassware – equipped with 8 nozzles.	11116900
A 301/5	Injector module, for laboratory glassware – equipped with 18 nozzles.	11116950
A 302/3	Injector module, for laboratory glassware – equipped with 32 nozzles.	11116960
A 860	Holder rack, for A 300/2 and A 301/5 injector module	12665410
A 861	Holder rack, for A 301/4 and A 301/5 injector module	12665440
A 862	Holder rack, for A 302/2 and A 302/3 injector module	12665480
A 300/2	Injector module, for laboratory glassware – can be equipped with 8 nozzles.	12668780
A 301/4	Injector module, for laboratory glassware – can be equipped with 18 nozzles.	12668790
A 302/2	Injector module, for laboratory glassware – can be equipped with 32 nozzles.	12669210
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 piece.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 piece	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 piece	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 piece	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 piece.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 piece.	11056670
A 303	Injector module, for max. 98 pipettes.	12669220
A 304	Injector module, for max. 98 vials.	12669230
A 306/1	Injector module, for large-volume laboratory glassware.	12683100
A 313	Injector module, for reprocessing large-volume laboratory glassware.	11055970
A 846	Injector nozzle, with support, for cleaning laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for cleaning Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for cleaning measuring cylinders.	11025610
A 312	Injector module, for reprocessing viscometers.	11054470
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff).	12151110
Inserts		
AK 12/1	Insert, for various utensils.	11131690
A 14/1	Lid, for securing delicate load items.	11131560
E 149	Insert, for 80 test tubes, 16 x 105 mm.	3808800
A 13	Lid, for securing delicate load items.	3810200
E 103/1	Insert, for test tubes, max. 12 x 75 mm.	12667340
E 104/1	Insert, for test tubes, max. 12 x 105 mm.	12667370
E 105/1	Insert, for test tubes, max. 12 x 165 mm.	12667380
E 139/1	Insert, for test tubes, max. 12 x 200 mm.	12667390
E 106	Insert, for wide-necked glassware, measuring cylinders, etc.	3808310
E 106/1	Insert, for wide-necked glassware, measuring cylinders, etc.	3808320
E 106/2	Insert, for wide-necked glassware, measuring cylinders, etc.	3808330
E 109	Insert, for beakers, max. 250 ml.	3808360
E 110	Insert, for beakers, max. 250–600 ml.	3808390
E 111	Insert, for beakers, max. 600–1000 ml.	3808420

Items	Description	Mat. no.
E 144	Insert, for max. 18 beakers.	3808710
E 118	Insert, for half Petri dishes.	3830270
E 136	Insert, for 56 half Petri dishes.	3830280
E 137	Insert, for 56 half Petri dishes.	3830290
E 402	Insert, for max. 44 watch glasses.	3830420
E 403	Insert, for max. 105 watch glasses.	3830430
E 134	Insert, for 210 slides.	3808600
E 494	Insert, for 5 microtiter plates.	12669920
Further components		
A 2	Cover net, for securing delicate load items.	3830460
A 3	Cover net, as a cover for load items in inserts.	3830470
A 11/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11239130
A 12/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11238030
E 319/4	Surface filter, retains labels and glass splinters.	11237950
A 838	Tool set, for adjusting basket heights and installing/removing injector nozzles.	11054290
E 336	Irrigation sleeve, for pipettes/MIS instruments in mobile injector units.	3809390
E 351	Injector nozzle, for optimum cleaning of load items. Dimensions: 4 x 160 mm.	3809500
E 352	Injector nozzle, for optimum cleaning of load items.	3809510
E 353	Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.	3809530
E 354	Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.	3809540
E 470	Injector nozzle, for mobile injector unit, Ø 2.5 x 90 mm.	5701580
ID 90	Injector nozzle, with plastic support, Ø 3 mm, length 90 mm.	3810320
ID 110	Injector nozzle, with plastic support, Ø 3 mm, length 110 mm.	3810330
ID 140	Injector nozzle, with plastic support, Ø 4 mm, length 140 mm.	3810340
ID 160	Injector nozzle, with plastic support, Ø 4 mm, length 160 mm.	3810350
ID 180	Injector nozzle, with plastic support, Ø 4 mm, length 180 mm.	3810360
ID 200	Injector nozzle, with plastic support, Ø 6 mm, length 200 mm.	3810380
ID 220	Injector nozzle, with plastic support, Ø 6 mm, length 220 mm.	3810390
ID 240	Injector nozzle, with plastic support, Ø 6 mm, length 240 mm.	3810400
SD-B	Injector nozzle, for butyrometers.	3583540
E 362	Blanking screw, for sealing connections on load carriers.	3809630
A 802	Nozzle, for optimum cleaning of the dispensing compartment.	9863070

Further technical information on the products listed in the table is provided on Page 51.

Combination Options Injector Modules/Upper and Lower Baskets



PLW 8683, PLW 8693, PLW 8683 CD

Basket	+ Injector module	+ A 100 upper basket	A 101 upper basket			A 102 upper basket			A 103 upper basket
			Position			Position			
			Bottom	Middle	Top	Bottom	Middle	Top	
A 150	A 300/3 or A 300/2 with EasyLoad nozzles	-	-	◆	◆	-	-	!	◆
	A 301/5 or A 301/4 with EasyLoad nozzles	◆	◆	◆	◆	◆	◆	◆	◆
	A 302/3 or A 302/2 with EasyLoad nozzles	◆	◆	◆	◆	◆	◆	◆	◆
	A 301/4 module with SD-B nozzles	-	-	-	-	-	-	-	◆
	A 303	-	-	-	-	-	-	-	-
	A 304	◆	◆	◆	◆	◆	◆	◆	◆
	A 306/1	-	-	-	-	-	-	-	-
	A 312	-	-	-	-	-	-	-	-
	A 313	-	-	-	-	-	-	-	-

Basket	+ Injector module	Loading recommendation
A 100	A 300/3 or A 300/2 with EasyLoad nozzles	-
	A 301/5 or A 301/4 with EasyLoad nozzles	◆
	A 302/3 or A 302/2 with EasyLoad nozzles	◆
	A 301/4 module with SD-B nozzles	-
	A 303	-
	A 304	◆
	A 306/1	!
	A 312	!
	A 313	!

◆ Recommended combination
- Combination not recommended
! Combination not possible





Additional information about ExpertLine can be found on our new products page:



Flexible operation

- Maintain an overview even when processes are complex – thanks to the PLC controls and the large colour touch display
- With intuitive operation, you can easily select from existing programmes or enjoy total freedom to create your own user programmes



Intuitive EasyLoad accessory system

- With suitable modules and injector nozzles, the innovative EasyLoad accessory system can also be flexibly customised to meet your needs with ease



Extremely powerful and durable

- Incredibly powerful circulation pump with individually adjustable speed and customisable programme parameters for the best cleaning results
- Extremely durable – having been tested to 15,000 cleaning cycles



Perfect results

- Reliable cleaning even at maximum load thanks to the perfect interplay of optimised spray arms and powerful circulation pump
- The powerful drying unit also delivers excellent drying results, even for the most complex laboratory glassware



Helping to provide an overview

- Monitoring package for process monitoring
- Optimised process documentation with LAN interface – ensures access to digital machine data for full transparency



Safety through monitoring

- Intelligent power control delivers load-dependent power optimisation – in every cleaning cycle.
- Ideal dispensing and exact dispensing monitoring – even for the most demanding cleaning processes – is ensured thanks to precise dispensing pumps and sensors



Convenient operation

- Optimum working height and ergonomics make things easier for your team
- Clever storage options for detergents with automatic dispensing



Very service-friendly

- Improved accessibility for faster maintenance and higher availability

ExpertLine Laboratory Washers

PLW 8636

Freestanding machine, wide



Laboratory washers	PLW 8636 [LAB] / PLW 8636 [LAB MON]
Width [mm]	900
Height [mm]	1430
Depth [mm]	700 + 100 wall gap
Net weight [kg]	200
Casing	Stainless steel
Useable cabinet dimensions H/W/D [mm]	520/530/520
Narrow-necked glassware per cycle [number]	128
Test tubes per cycle [number]	196
Laboratory bottles per cycle [number]	128
Pipettes per cycle [number]	98
Plus additional laboratory glassware	◆
Mixed load of test tubes or vials and pipettes per cycle [number]	130
Mixed load of laboratory glassware and test tubes or vials per cycle [number]	260
Drying	DryPlus
Integrated dispensing pump/max. possible	2/4
Drawer with space for 3 x 5 l or 2 x 10 l	◆
Electrical connection: 3N AC 400 V 50 Hz	◆
Total rated load [kW]	9.2

Programmes, Running Times, Consumption Data, Version Overview

ExpertLine

PLW 8636

PLW 8636 [LAB] and PLW 8636 [LAB MON]	Cleaning						Drying			Total	
	CW [l]	HW [l]	DW [l]	DK [l]	Energy [kWh]	Time [min]	DK [l]	Energy [kWh]	Time [min]	Energy [kWh]	Time [min]
Mini	1	31	15	0	1.3	28	3	0.9	34	2.2	62
Mini Plus	1	37	18	0	1.4	29	3	1.1	39	2.4	68
Standard	9	37	17	0	1.9	37	8	0.9	38	2.9	76
Standard Plus	11	44	20	0	2.5	42	8	1.1	43	3.5	85
Universal	9	37	29	0	2.2	43	8	0.9	38	3.1	81
Universal Plus	11	44	35	0	2.6	47	8	1.1	43	3.7	90
Intensive	9	51	31	2	2.4	50	8	0.9	38	3.3	88
Intensive Plus	11	61	37	2	2.9	54	8	1.1	43	3.9	97
Inorganic	9	38	45	0	2.3	51	8	0.9	38	3.2	89
Inorganic Plus	11	45	54	0	2.6	55	8	1.1	43	3.7	98
Organic	1	46	29	4	2.7	48	8	0.9	38	3.6	86
Organic Plus	1	55	35	4	3.3	52	8	1.1	43	4.3	96
Oil	9	53	29	4	2.8	54	8	0.9	38	3.7	92
Oil Plus	11	63	35	4	3.3	59	8	1.1	43	4.4	102
Agar	1	46	29	6	3.1	52	8	0.9	38	4.0	90
Agar Plus	1	55	35	7	3.7	57	8	1.1	43	4.8	101
Plastic	45	1	29	0	2.0	43	3	0.7	49	2.8	92
Plastics Plus	54	1	35	0	2.5	47	3	0.7	49	3.2	97
Vials	23	49	36	0	2.7	56	9	0.9	38	3.6	95
Vials Plus	30	64	47	0	3.5	64	8	1.1	43	4.6	108
Pipettes	26	56	41	0	2.6	58	8	1.5	68	4.1	126
Hygiene	8	36	16	9	3.2	51	8	0.9	38	4.2	90
Hygiene Plus	10	43	19	9	3.8	56	8	1.1	43	4.8	99
Pasteurise	62	12	0	0	1.5	62	–	–	–	1.5	63

Heating: 7 kW (3N AC 400 V 50 Hz)

Connection to CW cold water (15 °C), HW hot water (60 °C), DI demineralised water (15 °C) and DK steam condenser water (approx. 15 °C)

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 8636 [LAB]	SST	900 mm	3N AC 400V 50HZ 16 A	12637690	62863601GB	4002516824428
PLW 8636 [LAB MON]	SST	900 mm	3N AC 400V 50HZ 16 A	12637710	62863602GB	4002516824435

Optional retrofitting kits

Items	Description	Material number	Article number	EAN
APLW 916	Retrofitting kit for spray arm monitoring, for installation in machines in series PLW 8636 [Lab].	12760910	69691600D	4002516871606
APLW 882	Retrofitting kit potential-free contacts for activating external signal receivers for PLW 8636.	12426880	69688200D	4002516744597
APLW 887	Retrofitting kit additional suction lance, for external 10–20 l canisters for PLW 8636.	12426920	69688700D	4002516745082
APLW 885	Retrofitting kit extra disp. membrane pump & suction lance, ext. 10–20 l canisters for PLW 8636.	12426770	69688500D	4002516745525
APLW 884	Retrofitting kit extra disp. membrane pump & suction lance, ext. 5–10 l canisters for PLW 8636.	12426740	69688400D	4002516745518
APLW 883	Retrofitting kit extra disp. membrane pump & suction lance, int. 5–10 l canisters for PLW 8636.	12426680	69688300D	4002516744603

Laboratory washers	PLW 8636 [LAB]	PLW 8636 [LAB MON]
Frontloading machine with hinged door, without baskets	◆	◆
Freestanding machine with lid	◆	◆
Fresh water system, max. temperature 93 °C	◆	◆
Variable-speed circulation pump [Qmax. l/min]	600	600
Controls/programmes		
PLC, freely programmable, 24 programmes as standard, 50 freely programmable customer programmes	◆	◆
Spray arm monitoring	◇	◆
Conductivity monitoring	–	◆
Network interface for process documentation software	◆	◆
Electric door lock	◆	◆
Connection options		
Ethernet interface	◆	◆
USB Customer Service interface	◆	◆
Water connections		
1 x cold water incl. water for the steam condenser, flow pressure	(200–1000 kPa)	(200–1000 kPa)
1 x hot water, flow pressure	(200–1000 kPa)	(200–1000 kPa)
1 x demineralised water, flow pressure	(200–1000 kPa)	(200–1000 kPa)
Connection for external recycling tank	◇	◇
3 inlet hoses with 3/4" threaded union, l = approx. 1.3 m	◆	◆
Drain pump Ø 22 mm, max. delivery head: 1.7 m	◆	◆
Water drainage for steam condenser (DN 22)	◆	◆
Waterproof system (WPS)	◆	◆
Electrical connection		
3N AC 400 V 50 Hz, mains connection cable approx. 2.7 m, 5 x 2.5 mm ² , CEE 16 A plug	◆	◆
Heating [kW]	7	7
Total rated load [kW]	9.2	9.2
Fuse rating [A]	3 x 16	3 x 16
Dispensing systems		
2 membrane pumps incl. suction lance with empty sensing	◆	◆
Dispensing monitoring with oval-wheel counter	◇	◆
Options for expanding the dispensing system		
Can be retrofitted by Customer Service	2 membrane pumps 4 oval-wheel counters	2 membrane pumps 2 oval-wheel counters
Water softener		
For hot and cold water, max 65 °C	◆	◆
Steam condenser		
Aerosol	◆	◆
Drying unit/Radial fan		
Fan [kW]	0.3	0.3
Heater bank [kW]	2.3	2.3
Total rated load [kW]	2.6	2.6
Air throughput [m ³ /h]	66	66
Temperature setting in 1 °C increments [°C]	50–115	50–115
Time selection in 1-minute increments [min]	1–240	1–240
Pre-filter class G 4, filtration efficiency > 60 %, filter life 100 h	◆	◆
Particulate filter/HEPA filter H 14, filtration efficiency > 99.995 % (DIN EN 1822), filter life 500 h	◆	◆
Test certificates		
CE labelling/Machinery Directive 2006/42/EC	◆	◆
RoHS Directive 2011/65/EU	◆	◆
EMC in accordance with EN 61326-1	◆	◆
VDE radio suppression, EMC equipment class (according to DIN EN IEC 55011)	A	A
Protection category (according to IEC 60529)	IP 21	IP 21
Degree of soiling (according to IEC/EN 61010-1)	P2	P2
Overvoltage category (according to IEC 60664)	II	II
Sound pressure level LpA during cleaning and drying	< 65 dB(A) re 20 µPa	< 65 dB(A) re 20 µPa
VDE electrical safety (IEC 61010-1, IEC 61010-2-040)	◆	◆

◆ = Standard, ◇ = Option, – = Not available

Items	Description	Mat. no.
Baskets		
A 100	Upper basket, for injector modules or inserts.	12642640
A 101	Upper basket, height adjustable, for inserts.	12645590
A 102	Upper basket, height adjustable, for inserts.	12645600
A 103	Upper basket, for inserts.	12664750
A 150	Lower basket, for injector modules or inserts.	12666330
A 151	Lower basket, for various standard DIN mesh trays and various inserts.	12666340
A 202	Mobile unit, for 4 DIN mesh trays.	12667130
A 200	Mobile unit, for 38 pipettes.	12667060
EasyLoad		
A 300/3	Injector module, for laboratory glassware – equipped with 8 nozzles.	11116900
A 301/5	Injector module, for laboratory glassware – equipped with 18 nozzles.	11116950
A 302/3	Injector module, for laboratory glassware – equipped with 32 nozzles.	11116960
A 860	Holder rack, for A 300/2 and A 300/3 injector module	12665410
A 861	Holder rack, for A 301/4 and A 301/5 injector module	12665440
A 862	Holder rack, for A 302/2 and A 302/3 injector module	12665480
A 300/2	Injector module, for laboratory glassware – can be equipped with 8 nozzles.	12668780
A 301/4	Injector module, for laboratory glassware – can be equipped with 18 nozzles.	12668790
A 302/2	Injector module, for laboratory glassware – can be equipped with 32 nozzles.	12669210
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 piece.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 piece	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 piece	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 piece	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 piece.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 piece.	11056670
A 303	Injector module, for max. 98 pipettes.	12669220
A 304	Injector module, for max. 98 vials.	12669230
A 306/1	Injector module, for large-volume laboratory glassware.	12683100
A 313	Injector module, for reprocessing large-volume laboratory glassware.	11055970
A 846	Injector nozzle, with support, for cleaning laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for cleaning Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for cleaning measuring cylinders.	11025610
A 312	Injector module, for reprocessing viscometers.	11054470
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff).	12151110
Inserts		
AK 12/1	Insert, for various utensils.	11131690
A 14/1	Lid, for securing delicate load items.	11131560
E 149	Insert, for 80 test tubes, 16 x 105 mm.	3808800
A 13	Lid, for securing delicate load items.	3810200
E 103/1	Insert, for test tubes, max. 12 x 75 mm.	12667340
E 104/1	Insert, for test tubes, max. 12 x 105 mm.	12667370
E 105/1	Insert, for test tubes, max. 12 x 165 mm.	12667380
E 139/1	Insert, for test tubes, max. 12 x 200 mm.	12667390
E 106	Insert, for wide-necked glassware, measuring cylinders, etc.	3808310
E 106/1	Insert, for wide-necked glassware, measuring cylinders, etc.	3808320
E 106/2	Insert, for wide-necked glassware, measuring cylinders, etc.	3808330
E 109	Insert, for beakers, max. 250 ml.	3808360
E 110	Insert, for beakers, max. 250–600 ml.	3808390
E 111	Insert, for beakers, max. 600–1000 ml.	3808420

Items	Description	Mat. no.
E 144	Insert, for max. 18 beakers.	3808710
E 118	Insert, for half Petri dishes.	3830270
E 136	Insert, for 56 half Petri dishes.	3830280
E 137	Insert, for 56 half Petri dishes.	3830290
E 402	Insert, for max. 44 watch glasses.	3830420
E 403	Insert, for max. 105 watch glasses.	3830430
E 134	Insert, for 210 slides.	3808600
E 494	Insert, for 5 microtiter plates.	12669920
Further components		
A 2	Cover net, for securing delicate load items.	3830460
A 3	Cover net, as a cover for load items in inserts.	3830470
A 11/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11239130
A 12/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11238030
E 319/4	Surface filter, retains labels and glass splinters.	11237950
A 838	Tool set, for adjusting basket heights and installing/removing injector nozzles.	11054290
E 336	Irrigation sleeve, for pipettes/MIS instruments in mobile injector units.	3809390
E 351	Injector nozzle, for optimum cleaning of load items. Dimensions: 4 x 160 mm.	3809500
E 352	Injector nozzle, for optimum cleaning of load items.	3809510
E 353	Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.	3809530
E 354	Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.	3809540
E 470	Injector nozzle, for mobile injector unit, Ø 2.5 x 90 mm.	5701580
ID 90	Injector nozzle, with plastic support, Ø 3 mm, length 90 mm.	3810320
ID 110	Injector nozzle, with plastic support, Ø 3 mm, length 110 mm.	3810330
ID 140	Injector nozzle, with plastic support, Ø 4 mm, length 140 mm.	3810340
ID 160	Injector nozzle, with plastic support, Ø 4 mm, length 160 mm.	3810350
ID 180	Injector nozzle, with plastic support, Ø 4 mm, length 180 mm.	3810360
ID 200	Injector nozzle, with plastic support, Ø 6 mm, length 200 mm.	3810380
ID 220	Injector nozzle, with plastic support, Ø 6 mm, length 220 mm.	3810390
ID 240	Injector nozzle, with plastic support, Ø 6 mm, length 240 mm.	3810400
SD-B	Injector nozzle, for butyrometers.	3583540
E 362	Blanking screw, for sealing connections on load carriers.	3809630
A 802	Nozzle, for optimum cleaning of the dispensing compartment.	9863070

Further technical information on the products listed in the table is provided on Page 51.

SlimLine Laboratory Washers

PLW 7111

Miele benefits with a payback

SlimLine



More information about SlimLine is available on our product website:



Compact machine dimensions combined with large wash cabinet capacity

- Small footprint with a width of just 650 mm and 3 levels with injector nozzles possible
- 98 pipettes and 108 bottles (250 ml) in one cycle or also for large bottles with a volume of up to 50 l

Intuitive and safe operation

- Intelligent controls with 7" colour touch display
- Optimised programmes for a wide range of applications and 20 free programme slots

Wide range of load carriers

- Maximum flexibility combined with intuitive use
- Wide range of standard and configurable loading options – specially developed for the laboratories

Time and resource savings

- High-performance and intelligent pump system with variable-speed pump
- Maximum performance when needed and water savings when possible



Thorough and efficient cleaning processes

- Wash cabinet, spray arms and tank filters made from high-grade, electro-polished stainless steel (DIN 1.4404/AISI 316L)
- Conductivity monitoring for high-level process quality*
- H14 HEPA fine filter for germ-free drying air
- Integrated water softener*
- Pre-heating tank for shorter cycle times*

Visual monitoring of wash cabinet

- Process monitoring thanks to full-glass door
- Automatic door lock

Ready for digital networking

- Ready for connection to Miele MOVE and connection to process documentation software
- USB interface integrated in machine front, Ethernet and WiFi as standard

Spotless results through combination of programme cycle and detergents

- ProCare Lab cleaning agents in various container sizes for optimum results
- Thorough cleaning combined with maximum protection of materials

* depending on the model, running times are longer for models with integrated water softener.

SlimLine Laboratory Washers

PLW 7111

Freestanding, 1 glazed hinged door



SlimLine laboratory washers	PLW 7111
External dimensions [width x height x depth mm]	650, 1940, 702
Wash cabinet dimensions [width x height x depth mm]	570, 717, 590
Usable capacity [l]	241
Load concept	Rack system with max. 3 baskets in 4 different positions
Programmes	23
Vacant programme slots	20
Programme selection	7" colour touch display

Features	
Single-door model	◆
Full-glass, hinged door	◆
Chamber material	1.4404/316L (electro-polished)
Dispensing pumps [number]	2
Variable-speed pump	◆
Water connections	HW, CW, demineralised water
Electrical connection 3N AC 400 V, 50 Hz	◆
Total rated load [kW]	10.1
WiFi	◆
USB port	◆
Cleaning agent capacity	3 x 5 l
Ethernet interface	◆
Leakage sensor	◆

Load capacity	
100 ml laboratory bottles	192
250 ml laboratory bottles	108
1000 ml laboratory bottles	32
Pipettes	98

* Models with integrated water softener have longer running times.

Feature List

PLW 7111 versions

SlimLine

Type	Electric	Electric/Steam	Drying	Steam condenser	Drain pump	Drain valve	Water softener	Pre-heating tank	Printer	Conductivity meter	Oil version	Drain water cooling	Demineralised water pump
PLW 7111 [B-1003]	◆	—	—	—	◆	—	◆	—	—	—	—	◆	—
PLW 7111 [S-1001]	◆	—	◆	◆	◆	—	—	—	—	—	—	—	—
PLW 7111 [S-1002]	◆	—	◆	◆	◆	—	◆	—	—	—	◆	—	—
PLW 7111 [S-1003]	◆	—	◆	◆	◆	—	◆	—	—	—	—	—	—
PLW 7111 [S-1004]	◆	—	◆	◆	◆	—	◆	—	◆	◆	—	—	—
PLW 7111 [S-1007]	◆	—	◆	◆	◆	—	—	—	◆	◆	—	—	—
PLW 7111 [S-1008]	◆	—	◆	◆	◆	—	◆	—	◆	◆	—	—	—
PLW 7111 [S-1009]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	—	—	—
PLW 7111 [S-1011]	◆	—	◆	◆	◆	—	—	—	—	—	—	—	—
PLW 7111 [S-1012]	◆	—	◆	◆	◆	—	◆	—	—	—	—	—	—
PLW 7111 [S-1013]	◆	—	◆	◆	◆	—	◆	—	—	◆	—	—	—
PLW 7111 [S-1014]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	—	—
PLW 7111 [S-1017]	◆	—	◆	◆	◆	—	◆	◆	—	—	—	—	—
PLW 7111 [S-1018]	◆	—	◆	◆	◆	—	◆	—	—	◆	◆	—	—
PLW 7111 [S-1020]	—	◆	◆	◆	◆	—	◆	—	—	—	—	—	—
PLW 7111 [S-1021]	◆	—	◆	◆	◆	—	◆	◆	—	◆	—	—	—
PLW 7111 [S-1022]	—	◆	◆	◆	◆	—	◆	◆	—	◆	—	—	—
PLW 7111 [S-1023]	◆	—	◆	◆	◆	—	◆	—	—	—	◆	—	—
PLW 7111 [S-1024]	—	◆	◆	◆	◆	—	◆	—	—	—	◆	—	—
PLW 7111 [S-1026]	◆	—	◆	◆	◆	—	◆	◆	—	◆	◆	—	—
PLW 7111 [S-1027]	◆	—	◆	◆	◆	—	—	—	—	◆	—	—	—
PLW 7111 [S-1028]	◆	—	◆	◆	◆	—	◆	—	◆	—	◆	—	—
PLW 7111 [S-1029]	◆	—	◆	◆	◆	—	◆	◆	◆	—	—	—	—
PLW 7111 [S-1031]	◆	—	◆	◆	◆	—	◆	—	—	—	—	—	◆
PLW 7111 [S-1032]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	◆	—
PLW 7111 [S-1033]	◆	—	◆	—	◆	—	◆	—	◆	◆	—	◆	—
PLW 7111 [S-1035]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	◆	—
PLW 7111 [S-1036]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	◆	—
PLW 7111 [S-1040]	—	◆	◆	◆	◆	—	—	◆	—	—	—	—	—
PLW 7111 [S-1041]	◆	—	◆	◆	◆	—	—	—	—	—	◆	—	—
PLW 7111 [S-1042]	◆	—	◆	◆	◆	—	—	◆	—	◆	—	—	—
PLW 7111 [S-1043]	◆	—	◆	◆	◆	—	—	◆	—	◆	—	—	—
PLW 7111 [S-1044]	◆	—	◆	◆	◆	—	—	—	—	—	—	—	—
PLW 7111 [S-1045]	—	◆	◆	◆	◆	—	—	—	—	—	—	—	—
PLW 7111 [S-1046]	—	◆	◆	◆	◆	—	—	◆	—	—	—	—	—
PLW 7111 [S-1047]	—	◆	◆	◆	◆	—	—	—	—	—	◆	—	—
PLW 7111 [S-1048]	—	◆	◆	◆	◆	—	—	◆	—	◆	—	—	—

Customise your laboratory washers with:

- Baskets and further components from Page 54
- Detergents from Page 87
- Process documentation from Page 95

Features (depending on model)

- Electric heating
- Electric/steam heating
- Pre-heating tank
- Drain valve
- Drain pump
- Drying incl. HEPA H14 filter
- Steam condenser
- Water softener*
- Conductivity meter
- Printer
- Specifications for oil-based applications
- Drain water cooling
- Demineralised water pump

Optional modules (can be retrofitted)

- Potential-free contacts
- Additional dispensing pumps
- Conductivity meter
- Suction lances for 10 l media canisters

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 7111 [S-1001]	AE	650 mm	3N AC 380-415V 50HZ 16 A	11879730	62711101GB	8051520001406
PLW 7111 [S-1002]	AE	650 mm	3N AC 380-415V 50HZ 16 A	11879740	62711102GB	8051520001413
PLW 7111 [S-1003]	AE	650 mm	3N AC 380-415V 50HZ 16 A	11879750	62711103GB	8051520000829
PLW 7111 [S-1004]	AE	650 mm	3N AC 380-415V 50HZ 16 A	11879760	62711104GB	8051520001420

Optional retrofitting kits

Items	Description	Material number	Article number	EAN
APLW 891	Retrofitting kit Conductivity module for installing in PLW 7111.	12506460	69242013D	4002516779414
APLW DS711	Retrofitting kit liquid dispensing for retrofitting of the PLW 7111 with a third dispensing pump.	11993930	69242001D	4002516648697
APLW 895	Retrofitting kit drain water cooling for retrofitting in the PLW 7111.	12616020	69242016D	4002516888062
APLW 896	Retrofitting kit external valve box for drain water control.	12616030	69242017D	4002516894124
APLW 905	Built-in report printer retrofitting kit for printing process protocols.	12685170	69242019D	4002516915027
APLW 906	Retrofitting kit potential-free contact for activating external signal receivers.	12677910	69242018D	4002516905066
APLW 908	Retrofitting kit for dosing lance, 10 litre canister (blue, cleaner)	12755370	69242020D	4002516930037
APLW 909	Retrofitting kit for dosing lance, 10 litre canister (red, neutraliser)	12755470	69242021D	4002516930044



High capacity on 3 levels

- 3 x APLW 106 basket for injector modules
- 6 x A 301/5 injector module with 18 injector nozzles

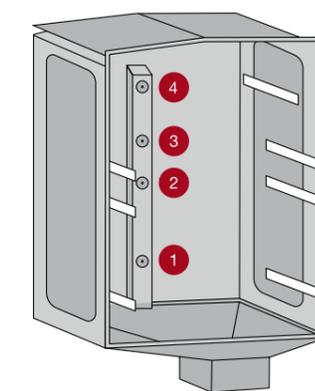


Large bottles, max. 50 l

- APLW 106 basket for injector modules
- APLW 215 injector module for large-volume laboratory glassware

	Reprocessing with spray arm (3 levels)		Reprocessing with spray arm (2 levels)		Mixed loads with spray arm and injector nozzles ¹ (3 levels)	
	Basket	Vertical clearance [mm]	Basket	Vertical clearance [mm]	Basket	Vertical clearance [mm]
Level 4	APLW 107	158 ± 30	–	278 ± 30	APLW 107	158 ± 30
Level 3	–	178 ± 30	APLW 107		–	244 ± 30
Level 2	APLW 107		–	354 ± 30	APLW 106	
Level 1	APLW 152	234	APLW 152		APLW 106	

	Reprocessing with injector nozzles ¹ (3 levels)		Reprocessing with injector nozzles ¹ (2 levels)		Reprocessing with spray arm / injector nozzles ¹ (1 level)	
	Basket	Vertical clearance [mm]	Basket	Vertical clearance [mm]	Basket	Vertical clearance [mm]
Level 4	APLW 106	224	–	344	–	–
Level 3	–	220	APLW 106		–	
Level 2	APLW 106		–	330	–	APLW 152 / APLW 106
Level 1	APLW 106	210	APLW 106		690	



¹ Height of injector modules must also be considered. Height of A 300/x, A 301/x, A 302/x modules including nozzle support: 18 mm

Overview of Components

PLW 7111

Items	Description	Mat. no.
Baskets		
APLW 106	Basket, for injector modules or inserts.	11854610
APLW 107	Basket, height adjustable, for optimum loading of inserts.	11854290
APLW 152	Baskets, for various inserts.	11854310
EasyLoad		
A 300/3	Injector module, for laboratory glassware – equipped with 8 nozzles.	11116900
A 301/5	Injector module, for laboratory glassware – equipped with 18 nozzles.	11116950
A 302/3	Injector module, for laboratory glassware – equipped with 32 nozzles.	11116960
A 860	Holder rack, for A 300/2 and A 300/3 injector module	12665410
A 861	Holder rack, for A 301/4 and A 301/5 injector module	12665440
A 862	Holder rack, for A 302/2 and A 302/3 injector module	12665480
A 300/2	Injector module, for laboratory glassware – can be equipped with 8 nozzles.	12668780
A 301/4	Injector module, for laboratory glassware – can be equipped with 18 nozzles.	12668790
A 302/2	Injector module, for laboratory glassware – can be equipped with 32 nozzles.	12669210
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 piece.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 piece	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 piece	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 piece	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 piece.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 piece.	11056670
A 303	Injector module, for max. 98 pipettes.	12669220
A 304	Injector module, for max. 98 vials.	12669230
A 306/1	Injector module, for large-volume laboratory glassware.	12683100
A 313	Injector module, for reprocessing large-volume laboratory glassware.	11055970
A 846	Injector nozzle, with support, for cleaning laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for cleaning Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for cleaning measuring cylinders.	11025610
A 312	Injector module, for reprocessing viscometers.	11054470
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff).	12151110
APLW 215	Injector module, ideal for large-volume laboratory glassware and bottles up to 50 l	11853940
Inserts for test tubes, funnels, beakers, wide-necked glassware, measuring cylinders		
A 13	Lid, for securing delicate load items.	3810200

Items	Description	Mat. no.
A 14/1	Lid, for securing delicate load items.	11131560
A 321	Insert, for various utensils.	11309380
A 322	Lid, for securing delicate load items.	11874380
AK 12/1	Insert, for various utensils.	11131690
E 149	Insert, for 80 test tubes, 16 x 105 mm.	3808800
E 103/1	Insert, for test tubes, max. 12 x 75 mm.	12667340
E 104/1	Insert, for test tubes, max. 12 x 105 mm.	12667370
E 105/1	Insert, for test tubes, max. 12 x 165 mm.	12667380
E 139/1	Insert, for test tubes, max. 12 x 200 mm.	12667390
APLW 040	Insert, for test tubes, height 100 mm.	11105000
APLW 041	Insert, for test tubes, height 130 mm.	11105010
APLW 042	Insert, for test tubes, height 200 mm.	11105020
APLW 043	Lid for APLW 040–042 inserts	11105030
APLW 044	Separation net, for dividing base in APLW 040 to APLW 042.	11105040
E 106	Insert, for wide-necked glassware, measuring cylinders, etc.	3808310
E 106/1	Insert, for wide-necked glassware, measuring cylinders, etc.	3808320
E 106/2	Insert, for wide-necked glassware, measuring cylinders, etc.	3808330
APLW 038	Insert, for wide-necked Erlenmeyer flasks and measuring cylinders.	11104980
E 109	Insert, for beakers, max. 250 ml.	3808360
E 110	Insert, for beakers, max. 250–600 ml.	3808390
E 111	Insert, for beakers, max. 600–1000 ml.	3808420
E 144	Insert, for max. 18 beakers.	3808710
Inserts for Petri dishes, watch glasses, microtiter plates, etc.		
E 118	Insert, for half Petri dishes.	3830270
E 402	Insert, for max. 44 watch glasses.	3830420
E 494	Insert, for 5 microtiter plates.	12669920
E 136	Insert, for 56 half Petri dishes.	3830280
E 403	Insert, for max. 105 watch glasses.	3830430
E 136	Insert, for 56 half Petri dishes.	3830280
E 403	Insert, for max. 105 watch glasses.	3830430
E 137	Insert, for 56 half Petri dishes.	3830290
APLW 039	Insert, for half Petri dishes.	11104990
E 134	Insert, for 210 slides.	3808600
Further components		
A 2	Cover net, for securing delicate load items.	3830460
A 3	Cover net, as a cover for load items in inserts.	3830470
A 11/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11239130
A 320	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11295510
A 838	Tool set, for adjusting basket heights and installing/removing injector nozzles.	11054290
E 336	Irrigation sleeve, for pipettes/MIS instruments in mobile injector units.	3809390
SD-B	Injector nozzle, for butyrometers.	3583540
E 362	Blanking screw, for sealing connections on load carriers.	3809630

Further technical information on the products listed in the table is provided on Page 54.



Large-Chamber Laboratory Washers

PLW 8615, PLW 8616 and PLW 8617

Miele benefits with a payback

Further information about large-chamber laboratory washers is available on our product website:



Two machine widths for optimum installation and performance

- 900 mm and 1150 mm wide machines using the same load carriers
- Specific, optimised load carriers and modules for a wide range of laboratory glassware in combination with EasyLoad system



Unique pump combination with variable-speed pump

- 2-pump system for maximum performance
- Variable-speed pump for optimum adjustment of the wash pressure to the load size and process requirements and second pump which exclusively serves the machine spray arms



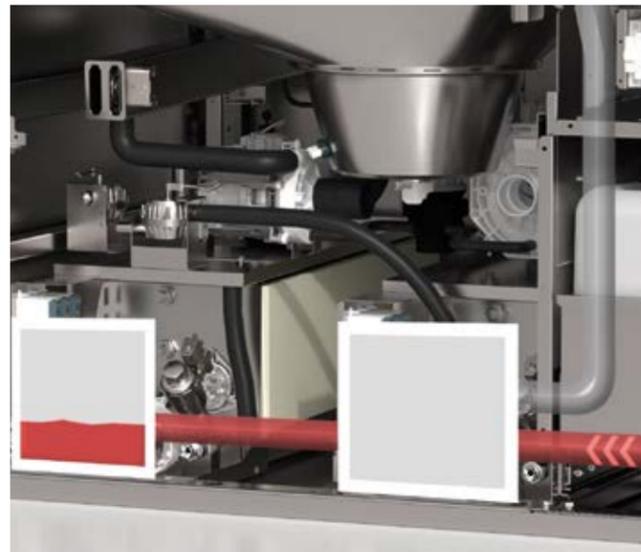
Intuitive operation and programmable controls

- 7" colour touch display for intuitive user interface and simple process control, flush-fit for safe cleaning
- Pre-installed programmes, modifiable to suit individual needs (200 programme slots)



Multi-colour wash cabinet lighting with status indicator

- Visual control of reprocessing procedure
- Simple visualisation of machine status indicated by wash cabinet lighting and visible from a distance (white, green, red)



Machine options for efficiency and the sparing use of resources

- Pre-heating tank for shorter process cycles
- Recycling tank to conserve water and energy
- Water volume adjusted to load size



High-performance drying

- Two drying units for optimum drying results
- HEPA H14 filter for maximum safety, which is located directly at the entrance to the chamber so as to reliably remove particles released upstream by the fan and heater elements



Intelligent filter design with self-cleaning effect

- 2-component filter with coarse and fine filter (fine filter with 0.2 mm mesh for reliable removal of even the smallest particles)
- Reduced effort involved in cleaning filters thanks to self-cleaning effect during drainage



Conductivity sensor and spray arm monitoring

- Process control and residue-free final rinse thanks to integrated conductivity sensor
- Monitoring of spray arm speed for reproducible cleaning results

Large-Chamber Laboratory Washers

PLW 8615, PLW 8616, PLW 8617

Freestanding machine, single-door or 2 doors, glass vertical sliding door



Laboratory washers	PLW 8615	PLW 8616	PLW 8617
Load capacity			
Bottles, 1000 ml, Ø 100 mm	60	60	60
Bottles, 250 ml, Ø 70 mm	180	180	180
Bottles, 100 ml, Ø 56 mm	324	324	324
Pipettes	294	294	294
Vials	588	588	588
Features (basic version)			
External dimensions [width x height ¹ x depth mm]	900 x 2495 x 990	900 x 2495 x 990	1150 x 2495 x 990
Wash cabinet dimensions [width x height x depth mm]	650 x 675 x 800	650 x 675 x 800	650 x 675 x 800
Usable capacity [l]	351	351	351
Programmes	Max. 200	Max. 200	Max. 200
Programme selection	7" colour touch display	7" colour touch display	7" colour touch display
Drain valve	◆	◆	◆
3-colour wash cabinet lighting as status indicator	◆	◆	◆
Two-pump technology with variable-speed pump	◆	◆	◆
2-component filter with fine filter (0.2 mm mesh)	◆	◆	◆
Voltage	3 N AC 400 V 50 Hz	3 N AC 400 V 50 Hz	3 N AC 400 V 50 Hz
Single-door model	◆	–	◆
Barrier (2-door) model	–	◆	–
Full-glass automatic door	◆	◆	◆
Chamber material	1.4404 / 316 L	1.4404 / 316 L	1.4404 / 316 L
Dispensing pumps [number]	2	2	2
Dispensing pumps, retrofittable [number]	4	4	4
Cleaning agent capacity	4 x 5 l or 2 x 5 l + 1 x 10 l	4 x 5 l or 2 x 5 l + 1 x 10 l	4 x 10 l
Conductivity meter	◆	◆	◆
Spray arm monitoring	◆	◆	◆
Features (depending on model)			
Electric heating	◆	◆	◆
Electric/steam heating	◆	◆	◆
Pre-heating tank	–	–	◆
Recycling tank	–	–	◆
Combi tank (Pre-heating / Recycling)	◆	◆	–
Optional modules			
Drain pump	◆	◆	◆
Hot-air drying, electric incl. HEPA H14 filter	◆	◆	◆
Steam condenser ²	◆	◆	◆
Printer	◆	◆	◆
Plinth / Floor tray	–	◆	–
Roller plinth / floor tray	◆	–	◆

¹ incl. plinth floor tray, 100 mm, ² only in combination with hot air drying

Large-Chamber Laboratory Washers

PLW 8615, PLW 8616, PLW 8617

Type	Doors		Heating		Tank features		
	1 door	2 doors	Electric	Electric/Steam	Pre-heating tank	Recycling tank	Combi tank
PLW 8615 [EL]	◆	–	◆	–	–	–	–
PLW 8615 [EL CT]	◆	–	◆	–	–	–	◆
PLW 8615 [EL/S]	◆	–	–	◆	–	–	–
PLW 8615 [EL/S CT]	◆	–	–	◆	–	–	◆
PLW 8616 [EL]	–	◆	◆	–	–	–	–
PLW 8616 [EL CT]	–	◆	◆	–	–	–	◆
PLW 8616 [EL/S]	–	◆	–	◆	–	–	–
PLW 8616 [EL/S CT]	–	◆	–	◆	–	–	◆
PLW 8617 [EL]	◆	–	◆	–	–	–	–
PLW 8617 [EL TH]	◆	–	◆	–	◆	–	–
PLW 8617 [EL RT]	◆	–	◆	–	–	◆	–
PLW 8617 [EL TH RT]	◆	–	◆	–	◆	◆	–
PLW 8617 [EL/S]	◆	–	–	◆	–	–	–
PLW 8617 [EL/S TH]	◆	–	–	◆	◆	–	–
PLW 8617 [EL/S RT]	◆	–	–	◆	–	◆	–
PLW 8617 [EL/S TH RT]	◆	–	–	◆	◆	◆	–

Optional modules

Items	Description	Mat. no.	Article number	EAN
DU 900 RV	Drying unit, with ventilation slots, electric For appliances 900 mm wide and optimum internal and external drying of loads.	11324820	69250006D	4002516265139
DU 1150 RV	Drying unit, with ventilation slots, electric for appliances 1150 mm wide and optimum internal and external drying of loads.	11324850	69250007D	4002516265146
DP [50Hz]	Drain pump For converting machines with drain valves to drain pumps.	10931330	69240003D	4002516024057
PR	Built-in report printer For printing process protocols.	10931290	69247003D	4002516024040
PR 900	Built-in report printer For printing process protocols.	11491220	69247004D	4002516362081
DS 5	Membrane pump For 5-litre containers, for dispensing liquid media.	10880860	69249001D	4002515992234
DS 10	Membrane pump For 10-litre containers, for dispensing liquid media.	10880870	69249101D	4002515992241
LDTT 86	Collection bottle With frame for collecting drained liquids from the TT 86.	11293740	69200120D	4002516271864
RF MF27/28	Adapter for using the MF 27/28 transfer trolley with the PLW 8615/16/17 model series.	11499280	69249201D	4002516352471

Large-Chamber Laboratory Washers

PLW 8615, PLW 8616, PLW 8617

Items	Casing	Machine width	Electrical connection & Fuse rating	Material number	Article number	EAN
PLW 8615 [EL]	AE	900 mm	3N AC 400V 50HZ 32-35 A	11175170	62861501GB	4002516145011
PLW 8615 [EL CT]	AE	900 mm	3N AC 400V 50HZ 32-35 A	11175180	62861502GB	4002516145028
PLW 8615 [EL/S CT]	AE	900 mm	3N AC 400V 50HZ 32-35 A	11175200	62861504GB	4002516145042
PLW 8616 [EL]	AE	900 mm	3N AC 400V 50HZ 32-35 A	11175210	62861601GB	4002516145059
PLW 8616 [EL CT]	AE	900 mm	3N AC 400V 50HZ 32-35 A	11175230	62861602GB	4002516145066
PLW 8617 [EL]	AE	1.150 mm	3N AC 400V 50HZ 32-35 A	11175280	62861701GB	4002516145097
PLW 8617 [EL TH]	AE	1.150 mm	3N AC 400V 50HZ 32-35 A	11175460	62861702GB	4002516145103
PLW 8617 [EL RT]	AE	1.150 mm	3N AC 400V 50HZ 32-35 A	11175490	62861703GB	4002516145110

Customise your laboratory washers with:

- Baskets and further components from Page 55
- Detergents from Page 87
- Process documentation from Page 95

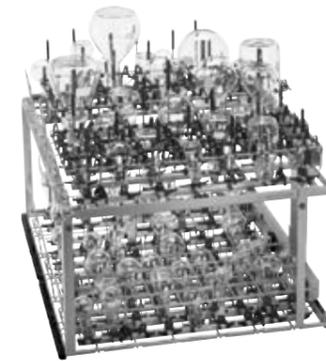
EasyLoad Sample Loads

PLW 8615, PLW 8516, PLW 8617



Injector modules on 3 levels

- APLW 511 mobile unit with up to 3 levels
- 6 x A 622 injector modules with 36 injector positions
- 6 x A 852 holder rack for A 622
- 108 x A 844 injector nozzle (Ø 2.5 x 80 mm)
- 108 x A 845 injector nozzle (Ø 2.5 x 80 mm)
- 3 x A 620 injector modules with 10 injector positions
- 3 x A 850 holder rack for A 620
- 15 x A 840 injector nozzle (Ø 6 x 130 mm)
- 15 x A 841 injector nozzle (Ø 6 x 210 mm)



150 positions for injector nozzles on 2 levels

- A 503 mobile unit with up to 2 levels
- 3 x A 621 injector modules with 20 injector positions
- 3 x A 851 holder rack for A 621
- 30 x A 842 injector nozzle (Ø 4 x 90 mm)
- 30 x A 843 injector nozzle (Ø 4 x 185 mm)
- 2 x A 622 injector modules with 36 injector positions
- 2 x A 852 holder rack for A 622
- 36 x A 844 injector nozzle (Ø 2.5 x 80 mm)
- 36 x A 845 injector nozzle (Ø 2.5 x 80 mm)
- A 620 injector module with 10 injector positions
- A 850 holder rack for A 620
- 5 x A 840 injector nozzle (Ø 6 x 130 mm)
- 5 x A 841 injector nozzle (Ø 6 x 210 mm)



294 positions for pipettes

- A 503 mobile unit with up to 2 levels
- 3 x A 613 injector module for up to 98 pipettes



Measuring cylinders, large laboratory glassware and pipettes

- A 503 mobile unit with up to 2 levels
- A 613 injector module for up to 98 pipettes
- A 612 injector module for large laboratory glassware
- A 623 injector module for up to 4 measuring cylinders

Overview of Components

PLW 8615, PLW 8516, PLW 8617

Items	Description	Mat. no.
Mobile units		
A 500	Mobile unit, with 1 level for cleaning laboratory glassware and utensils.	12684430
A 603	Onsert, adds second level to A 500 mobile unit.	12669820
A 505	Mobile unit, with 3 levels, for cleaning laboratory glassware and utensils.	12685400
A 506	Mobile unit, with 4 levels, for cleaning laboratory glassware and utensils.	12686270
A 501	Mobile unit, with 4 levels, for cleaning laboratory glassware and utensils.	12684440
A 601	Insert, for additional level in A 501 mobile unit.	12669810
A 503	Mobile unit, no levels, for cleaning laboratory glassware and utensils.	12685380
APLW 511	Mobile unit, no levels, for cleaning laboratory glassware and utensils.	11852850
A 606	Module, for laboratory glassware inserts on the top level of A 503 mobile unit	12669930
E 957	Mobile unit, for up to 12 large-volume laboratory glassware items.	12901310
A 857	Conversion kit, allows use of G 7827/28 and PG 8527/28 lab trolleys on PLW 86xx.	11235960
EasyLoad		
A 620	Injector module, for reprocessing laboratory glassware, with 10 injector positions.	12678100
A 621	Injector module, for reprocessing laboratory glassware, with 20 injector positions.	12678110
A 622	Injector module, for reprocessing laboratory glassware, with 36 injector positions.	12678490
A 850	Holder rack for A 620 injector module.	11236630
A 851	Holder rack for A 621 injector module.	11236640
A 852	Holder rack for A 622 injector module.	11236650
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 piece.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 piece	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 piece	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 piece	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 piece.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 piece.	11056670
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff).	12151110
A 613	Injector modules, for optimum reprocessing of volumetric and measuring pipettes.	12670020
A 605	Injector modules, for optimum reprocessing of vials and test tubes, etc.	12669870
A 623	Injector module, for optimum loading of measuring cylinders.	12678510
A 612	Injector module for reprocessing large-volume laboratory glassware.	12670000
A 846	Injector nozzle, with support, for cleaning laboratory bottles and round flasks.	12665100
A 847	Injector nozzle, with support, for cleaning Erlenmeyer flasks.	12665110
A 848	Injector nozzle, with support, for cleaning measuring cylinders.	12665120
Inserts		
E 969	Insert, for various utensils.	5746240
A 19	Lid, for securing delicate load items.	5746210
E 960/1	Insert, for wide-necked Erlenmeyer flasks.	5892360
E 963	Insert, for beakers, max. 250 ml.	5848300
E 965	Insert, for beakers, max. 250–600 ml.	5848290
A 320	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11295510
A 321	Insert, for various utensils.	11309380
A 322	Lid, for securing delicate load items.	11874380

Further technical information on the products listed in the table is provided on Page 55.

Compatibility Within Product Range

PLW 8615, PLW 8616, PLW 8617



Additional rack levels in load carriers

Mobile units	Levels	
	A 601	A 603
A 500	–	1
A 501	2	–

Combination options: modules, injector nozzles and holder racks

Mobile units	Modules	EasyLoad holder racks			EasyLoad injector nozzles						Further injector nozzles		
		A 850	A 851	A 852	A 840	A 841	A 842	A 843	A 844	A 845	A 846	A 847	A 848
A 503	A 605 (max. 6)	–	–	–	–	–	–	–	–	–	–	–	–
	A 606 (max. 1)	–	–	–	–	–	–	–	–	–	–	–	–
	A 612 (max. 6)	–	–	–	–	–	–	–	–	–	4	3	3
	A 613 (max. 3)	–	–	–	–	–	–	–	–	–	–	–	–
	A 620 (max. 6)	1	–	–	10	10	!	!	!	!	–	–	–
	A 621 (max. 6)	–	1	–	!	!	20	20	!	!	–	–	–
	A 622 (max. 6)	–	–	1	!	!	!	!	36	36	–	–	–
	A 623 (max. 3)	–	–	–	–	–	–	–	–	–	–	–	–
	APLW 511	A 605 (max. 3)	–	–	–	–	–	–	–	–	–	–	–
A 606 (max. 2)		–	–	–	–	–	–	–	–	–	–	–	–
A 613 (max. 3)		–	–	–	–	–	–	–	–	–	–	–	–
A 620 (max. 9)		1	–	–	10	10	!	!	!	!	–	–	–
A 621 (max. 9)		–	1	–	!	!	20	20	!	!	–	–	–
A 622 (max. 9)	–	–	1	!	!	!	!	36	36	–	–	–	

! = Use possible, depending on application



Upper/Lower Baskets and Mobile Units

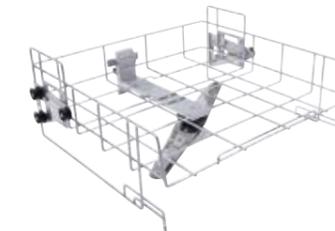
PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636



A 100

Upper basket, for injector modules or inserts.

- Upper basket with two module connections
- For loading up to 2 injector modules or inserts
- Automatic sealing of connections when not in use
- Vertical clearance on module with plastic supports: 190 mm
- Clearances: width 489, length 440 mm
- H 141, W 528, D 525 mm



A 101

Upper basket, height adjustable, for inserts.

- Vertical clearance HWD 160 +/- 30 mm, 475 mm, 443 mm
- With integrated spray arm
- H 206, W 528, D 527 mm



A 102

Upper basket, height adjustable, for inserts.

- Vertical clearance HWD 205 +/- 30 mm, 475 mm, 443 mm
- With integrated spray arm
- H 206, W 528, D 527 mm

Components

Baskets and mobile units

EasyLoad

Inserts and other components

Injector nozzles

Conversion kits

Transfer trolley

Systems for reprocessing with demineralised water

Components for dispensing detergents

Plinths



A 103

Upper basket, for inserts.

- Vertical clearance HWD 95 mm, 505 mm, 472 mm
- Particularly suitable for the reprocessing of DIN mesh trays
- Also suitable for further applications with shallow loads in combination with the A 202 mobile unit
- With integrated spray arm
- H 133, W 528, D 528 mm



A 150

Lower basket, for injector modules or inserts.

- Lower basket with two module connections
- For loading up to 2 injector modules or inserts
- Automatic sealing of connections when not in use
- Clearances H 235, (with A 100 upper basket) W 494, D 440 mm
- H 154, W 529, D 546 mm



A 151

Lower basket, for various standard DIN mesh trays and various inserts.

- Vertical clearance dependent on upper basket
- Clearances
 - 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 mm
 - W 490, D 489 mm
- H 88, W 529, D 522 mm

Items	Description	Mat. no.	Article number	EAN
A 100	Upper basket for the optimum loading of injector modules or inserts.	12642640	69610002D	4002516841296
A 101	Upper basket height adjustable, for the optimum loading of inserts.	12645590	69610101D	4002516828143
A 102	Upper basket height adjustable, for the optimum loading of inserts.	12645600	69610201D	4002516855262
A 103	Upper basket for the optimum loading of inserts.	12664750	69610301D	4002516855040
A 150	Lower basket for the optimum loading of injector modules or inserts.	12666330	69615001D	4002516854449
A 151	Lower basket for holding standard DIN mesh trays as well as various inserts.	12666340	69615101D	4002516853992

Upper/Lower Baskets and Mobile Units

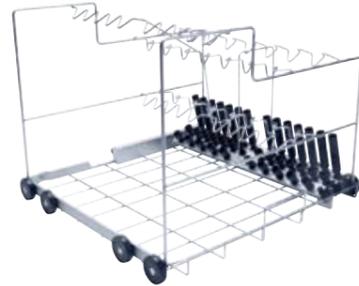
PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636



A 202

Mobile unit, for 4 DIN mesh trays.

- Suitable for 4 DIN mesh trays on 2 levels
- Holding frame: removable for the reprocessing of tall load items
- 6 additional connection options via Luer Lock connection.
- With integrated spray arm
- Clearances on the individual levels differ
- Clearances, lower level:
H 95, W 519, D 485 mm or H 135, W 494, D 500 mm (with/without base inserts)
- Clearances, upper level:
H 135, W 516, D 462 mm
- H 223, W 529, D 542 mm



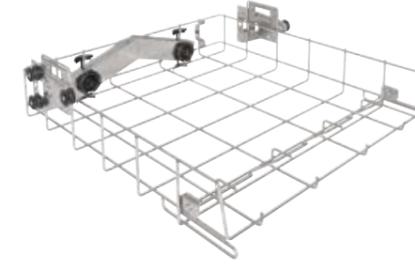
A 200

Mobile unit, for 38 pipettes.

- For 10 x 100 ml pipettes in row 1, spacing 20 mm
- For 14 x 25 ml pipettes in row 2, spacing 26 mm
- For 14 x 10 ml pipettes in row 3, spacing 26 mm
- Not for use in PG 8504
- H 397, W 529, D 546 mm

Standard Baskets

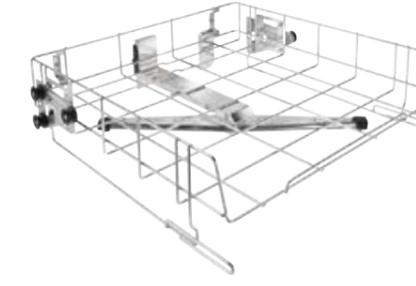
PLW 7111



APLW 106

Basket, for injector modules or inserts.

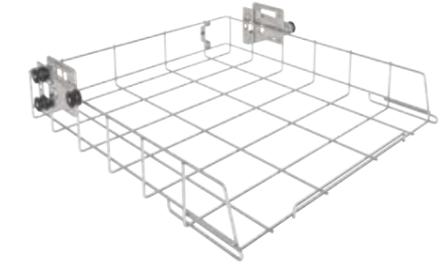
- For use on levels 1 to 4
- Basket with two module connections
- For loading up to 2 injector modules or inserts
- Automatic sealing of connections when not in use
- Clearances: width 507 mm, depth with holding rail 439 mm, without holding rail 525 mm, height dependent on position at which basket is used and on other baskets in use
- H 151.3, W 559.3, D 621.2 mm



APLW 107

Basket, height adjustable, for optimum loading of inserts.

- For use on levels 2 to 4
- Open front
- For optimum loading of inserts
- With integrated spray arm
- Clearances: width 507 mm, depth 545 mm, height-adjustable +/- 30 mm, height dependent on position on which basket is used and on other baskets in use
- H 150.5, W 559.3, D 594.4 mm



APLW 152

Baskets, for various inserts.

- For use on level 1
- Vertical clearance dependent on other baskets used
- Clearances: W 507 mm, D 545 mm
- H 151, W 560, D 596 mm

Items	Description	Mat. no.	Article number	EAN
A 202	Mobile unit for the optimum loading of 4 DIN mesh trays.	12667130	69620201D	4002516854043
A 200	Mobile unit for the optimum loading of 38 pipettes.	12667060	69620001D	4002516854012

Items	Description	Mat. no.	Article number	EAN
APLW 106	Basket for optimum loading of injector modules or inserts.	11854610	69610600D	4002516524717
APLW 107	Basket height adjustable, for optimum loading of inserts.	11854290	69610700D	4002516525998
APLW 152	Basket for various inserts.	11854310	69615200D	4002516526001

Mobile Units

PLW 8615, PLW 8616, PLW 8617



A 500

Mobile unit, with 1 level for cleaning laboratory glassware and utensils.

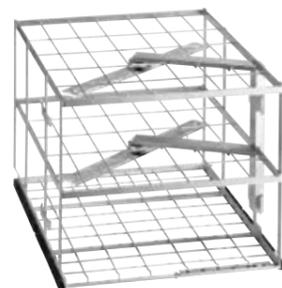
- For holding inserts and mesh trays
- Extendable to 2 levels with A 603
- Clearances on level 1 without A 603: H 670, W 600, D 775 mm
- Clearances with A 603:
 - Level 1: H 305, W 600, D 775 mm
 - Level 2: H 302, W 595, D 770 mm
- H 153, W 650, D 790 mm



A 603

Onsert, adds second level to A 500 mobile unit.

- With spray arm
- H 372, W 611, D 784 mm



A 505

Load carrier, with 3 levels, for laboratory glassware and utensils.

- For holding inserts and mesh trays
- Clearances:
 - Level 1: H 202, W 585, D 780 mm
 - Levels 2: H 202, W 590, D 780 mm
 - Level 3: H 132, W 590, D 780 mm
- H 524, W 640, D 790 mm



A 503

Mobile unit, no levels, for cleaning laboratory glassware and utensils.

- For loading modules and inserts
- Depending on the height, up to 6 injector modules can be used on 2 levels
- Upper rail and upper strut can be removed
- Clearances H 670, W 565, D 770 mm
- H 433, W 650, D 790 mm



APLW 511

Mobile unit, no levels, for cleaning laboratory glassware and utensils.

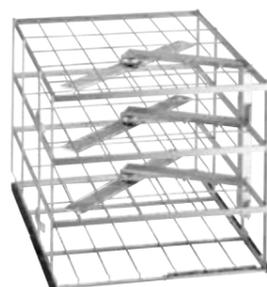
- For loading modules and inserts
- Depending on the height, up to 9 injector modules can be used on 3 levels
- Some rails and struts are removable
- Vertical clearances:
 - Level 1: 205 mm
 - Level 2: 205 mm
 - Level 3: 215 mm
- Clearances without injector modules and racks:
 - H 670, W 565, D 770 mm
 - H 533.5, W 636, D 790 mm



A 606

Module, for laboratory glassware inserts on the top level of A 503 mobile unit

- With spray arm
- H 97, W 603, D 505 mm



A 506

Load carrier, with 4 levels, for laboratory glassware and utensils.

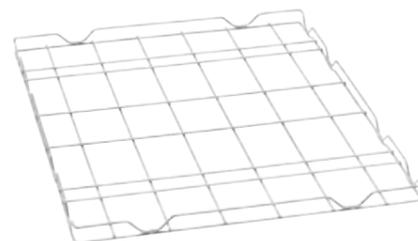
- For holding inserts and mesh trays
- Clearances:
 - Level 1: H 112.5, W 585, D 780 mm
 - Levels 2 and 3: H 112.5, W 595, D 780 mm
 - Level 4: H 114, W 595, D 780 mm
- H 555, W 650, D 790 mm



A 501

Load carrier, with 4 levels, for laboratory glassware and utensils.

- For holding inserts and mesh trays
- Extendable to 5 or 6 levels with A 601 racks
- Extendible with A 601 rack (not included in scope of delivery) as additional rack level
- Clearances without A 601:
 - Level 1: H 168, W 577, D 750 mm
 - Level 2: H 169, W 585, D 750 mm
 - Level 3: H 77, W 585, D 780 mm
 - Level 4: H 80, W 577, D 750 mm
- H 659, W 650, D 710 mm



A 601

Insert, for additional level in A 501 mobile unit.

- Without spray arm
- H 33, W 589, D 773 mm



E 957

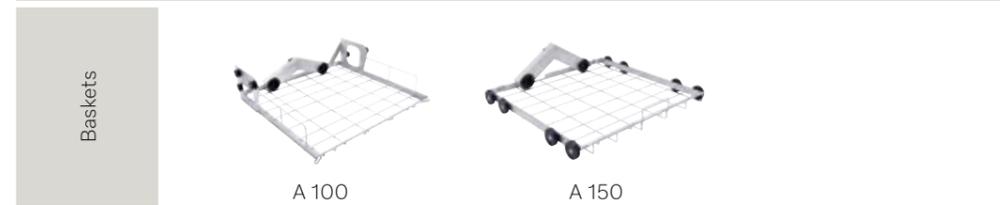
Mobile unit, for up to 12 large-volume laboratory glassware items.

- Equipped with 12 nozzles with Ø 10 mm
- Height-adjustable holding frame
- Magnetic strip for automatic mobile unit recognition
- Max. vertical clearance above star support: 615 mm
- Requires A 857 conversion kit (not included) for use in PLW 86
- H 353, W 640, D 790 mm

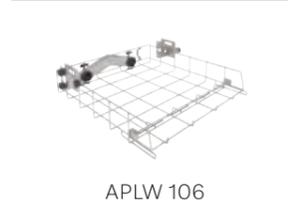
Items	Description	Mat. no.	Article number	EAN
A 500	Mobile unit with 1 level for cleaning laboratory glassware and utensils.	12684430	69650002D	4002516855026
A 603	Attachment for the expansion of the A 500 mobile unit to 2 levels.	12669820	69660302D	4002516854432
A 505	Mobile unit with 3 levels for cleaning laboratory glassware and utensils.	12685400	69650501D	4002516854678
A 506	Mobile unit with 4 levels for cleaning laboratory glassware and utensils.	12686270	69650601D	4002516855200
A 501	Mobile unit with 4 levels for cleaning laboratory glassware and utensils.	12684440	69650102D	4002516855361
A 601	Insert for the addition of another level in mobile unit A 501.	12669810	69660102D	4002516854081

Items	Description	Mat. no.	Article number	EAN
A 503	Mobile unit no levels, for cleaning laboratory glassware/utensils.	12685380	69650302D	4002516854784
APLW 511	Mobile unit no levels, for cleaning laboratory glassware/utensils.	11852850	69650300D	4002516525974
A 606	Module for the use of e.g. lab glassware inserts on the top level of A 503 mobile units	12669930	69660602D	4002516853961
E 957	Mobile unit for the optimum loading of up to 12 large volume laboratory glassware.	12901310	69595702D	4002516949695

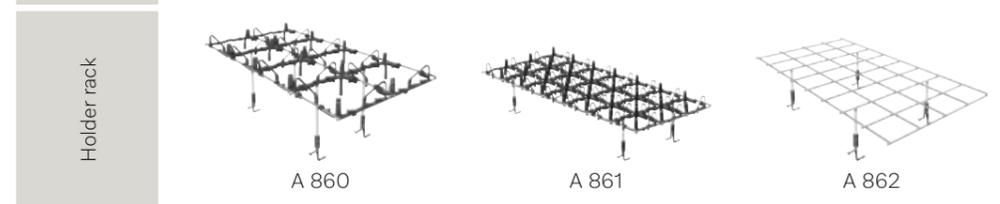
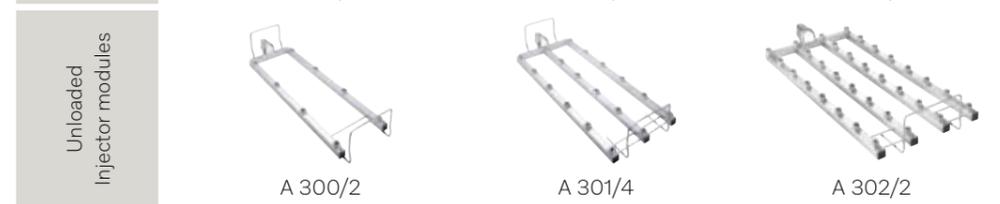
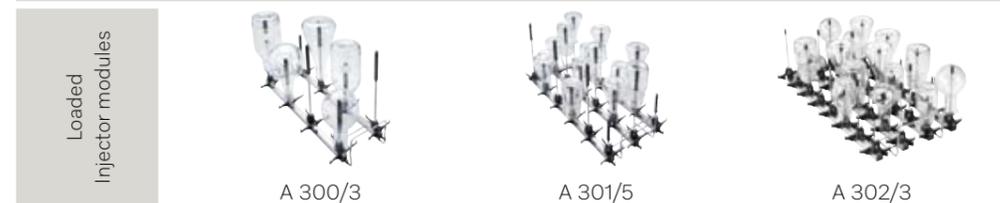
PLW 8683/93/83 CD



PLW 7111



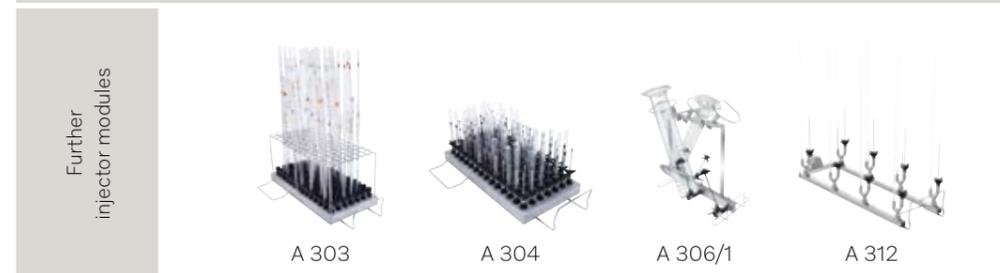
PLW 8683/93/83 CD + PLW 7111



PLW 8683/93/83 CD + PLW 7111 + PLW 861x



PLW 8683/93/83 CD + PLW 7111



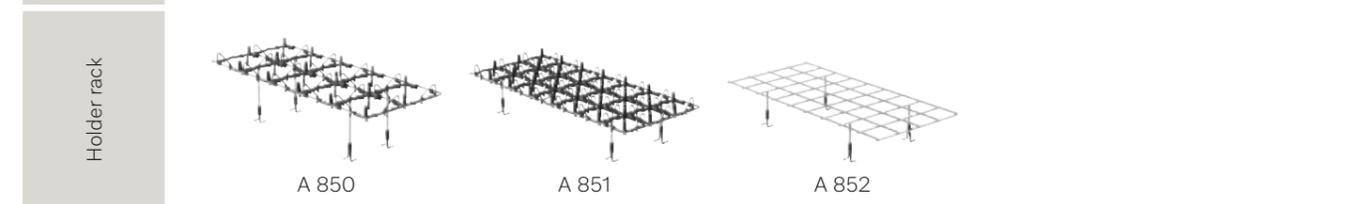
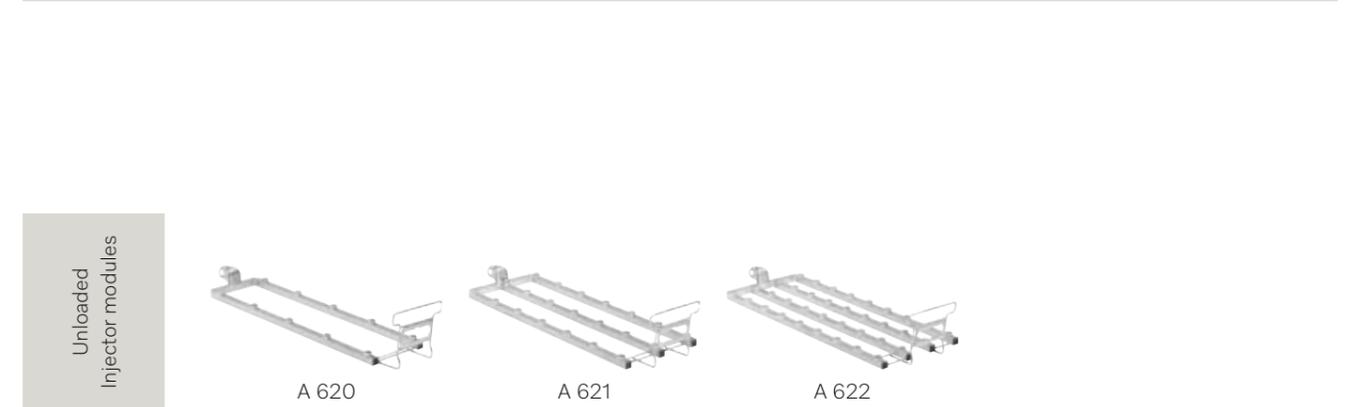
PLW 7111



PLW 861x



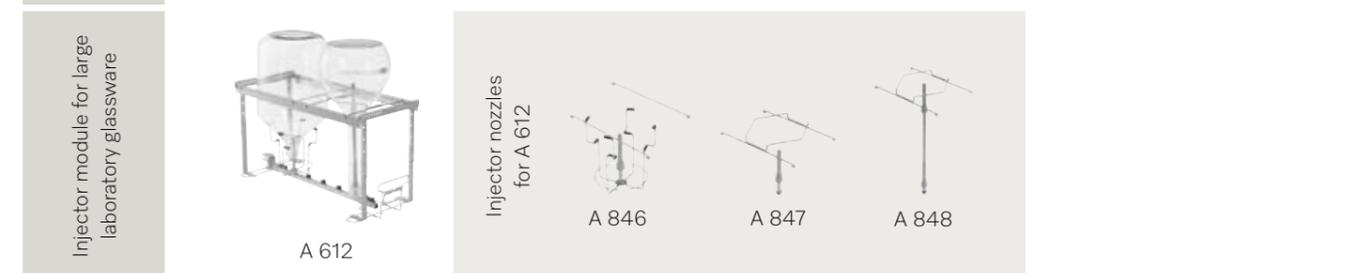
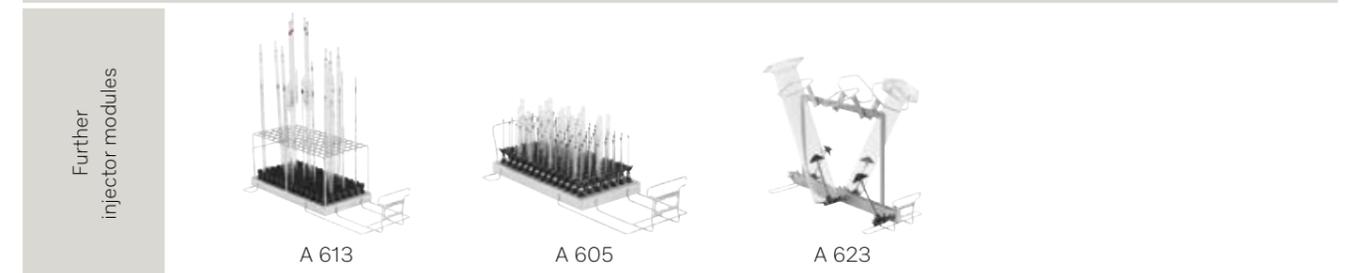
PLW 861x



PLW 8683/93/83 CD + PLW 7111 + PLW 861x



PLW 861x



Compatibility With Entire Product Range

The nozzles of the EasyLoad system in particular can be fitted on virtually all Miele laboratory washers.

Injector Modules for A 100, A 150 and APLW 106



PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111

EasyLoad components				
				
Laboratory washers		Injector modules	Injector nozzles	Holder rack
Current model series				
	PLW 8604	◆	◆	◆
	PLW 8683	◆	◆	◆
	PLW 8693	◆	◆	◆
	PLW 8683 CD	◆	◆	◆
	PLW 8636	◆	◆	◆
SlimLine				
	PLW 7111	◆	◆	◆
Large machine series				
	PLW 8615	◆	◆	◆
	PLW 8616	◆	◆	◆
	PLW 8617	◆	◆	◆
Discontinued model versions				
	G 7825	–	◆	–
	G 7883	–	◆	–
	G 7893	–	◆	–
	G 7883 CD	–	◆	–
	PG 8504	◆	◆	◆
	PG 8527	–	◆	–
	PG 8535	–	◆	–
	PG 8536	–	◆	–
	PG 8583	◆	◆	◆
	PG 8583 CD	◆	◆	◆
	PG 8593	◆	◆	◆
	PLW 6011	–	–	–
	PLW 6111	–	–	–

Note: modules and holder racks for standard and large-chamber units are model-specific and cannot be used on other models



A 300/3

Injector module, for laboratory glassware – equipped with 8 nozzles.

- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (250–1000 ml).
- Equipped with 4 A 840 nozzles and 4 A 841 nozzles
- Part of the EasyLoad system
- Nozzle spacing 118 mm across the width, 118 mm across the depth
- H 228, W 208, D 479 mm

Companion pack:

- A 840, injector nozzle Ø 6 mm, length 130 mm [number]: 4
- A 841, injector nozzle Ø 6 mm, length 210 mm [number]: 4



A 300/2

Injector module, for laboratory glassware – can be equipped with 8 nozzles.

- Suitable for laboratory glassware incl. Erlenmeyer and round flasks.
- Module without injector nozzles – equipped based on individual needs
- For up to 8 injector nozzles
- Particularly suitable for Ø 6 mm injectors, e.g. A 840 or A 841, other diameters possible depending on application
- Part of the EasyLoad system
- Nozzle spacing 118 mm across the width, 118 mm across the depth
- H 72, W 133, D 479 mm



A 301/5

Injector module, for laboratory glassware – equipped with 18 nozzles.

- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (50–250 ml).
- Equipped with 9 A 842 nozzles and 9 A 843 nozzles
- Part of the EasyLoad system
- Nozzle spacing 78 mm across the width, 78 mm across the depth
- H 203, W 232, D 479 mm

Companion pack:

- A 842, injector nozzle Ø 4 mm, length 90 mm [number]: 9
- A 843, injector nozzle Ø 4 mm, length 185 mm [number]: 9



A 301/4

Injector module, for laboratory glassware – can be equipped with 18 nozzles.

- Suitable for laboratory glassware incl. Erlenmeyer and round flasks.
- Module without injector nozzles – equipped based on individual needs
- For up to 18 injector nozzles
- Particularly suitable for Ø 4 mm injectors, e.g. A 842 or A 843, other diameters possible depending on application
- Part of the EasyLoad system
- Nozzle spacing 78 mm across the width, 78 mm across the depth
- H 72, W 173, D 479 mm



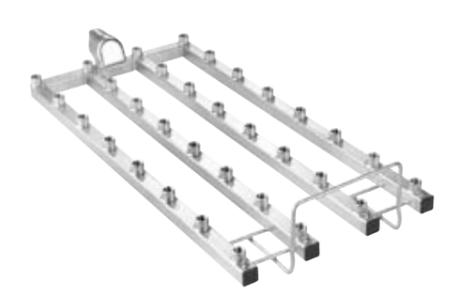
A 302/3

Injector module, for laboratory glassware – equipped with 32 nozzles.

- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (25–100 ml).
- Equipped with 16 A 844 nozzles and 16 A 845 nozzles
- Part of the EasyLoad system
- Nozzle spacing 60 mm across the width, 57 mm across the depth
- H 143, W 238, D 479 mm

Companion pack:

- A 844, injector nozzle Ø 2.5 mm, length 80 mm [number]: 16
- A 845, injector nozzle Ø 2.5 mm, length 125 mm [number]: 16



A 302/2

Injector module, for laboratory glassware – can be equipped with 32 nozzles.

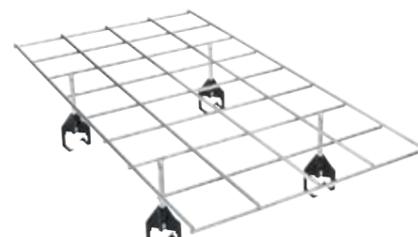
- Suitable for laboratory glassware incl. Erlenmeyer and round flasks.
- Module without injector nozzles – equipped based on individual needs
- For up to 32 injector nozzles
- Particularly suitable for Ø 2.5 mm injectors, e.g. A 844 or A 845, other diameters possible depending on application
- Part of the EasyLoad system
- Nozzle spacing 60 mm across the width, 57 mm across the depth
- H 72, W 195, D 479 mm

Items	Description	Mat. no.	Article number	EAN
A 300/3	Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.	11116900	69630003D	4002516188964
A 301/5	Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.	11116950	69630105D	4002516188971
A 302/3	Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.	11116960	69630203D	4002516188988
A 300/2	Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.	12668780	69630004D	4002516853954
A 301/4	Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.	12668790	69630106D	4002516854739
A 302/2	Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.	12669210	69630204D	4002516854098

Holder Racks for Injector Modules A 300/x, A 301/x and A 302/x



PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



A 860
Holder rack, for A 300/2 and A 300/3 injector module
 • Grid: 2 x 4 compartments
 • For use on A 300/2 and A 300/3 injector modules
 • For optimum positioning of laboratory glassware
 • Part of the EasyLoad system

A 861
Holder rack, for A 301/4 and A 301/5 injector module
 • Grid: 3 x 6 compartments
 • For use on A 301/4 and A 301/5 injector modules
 • For optimum positioning of laboratory glassware
 • Part of the EasyLoad system

A 862
Holder rack, for A 302/2 and A 302/3 injector module
 • Grid: 4 x 8 compartments
 • For use on A 302/2 and A 302/3 injector modules
 • For optimum positioning of laboratory glassware
 • Plastic-coated

Items	Description	Mat. no.	Article number	EAN
A 860	Holder rack for A 300/2 and A 300/3 injector modules.	12665410	69686001D	4002516855118
A 861	Holder rack for A 301/4 and A 301/5 injector modules.	12665440	69686101D	4002516854876
A 862	Holder rack for A 302/2 and A 302/3 injector modules.	12665480	69686201D	4002516854203

Injector Modules and Holder Racks for A 503 and APLW 511



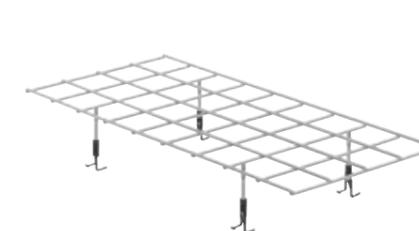
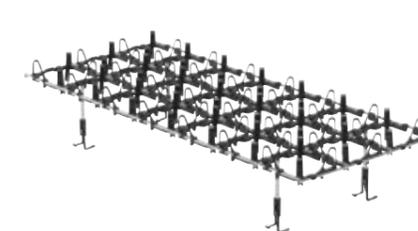
PLW 8615, PLW 8616, PLW 8617



A 620
Injector module, for reprocessing laboratory glassware, with 10 injector positions.
 • Can be equipped with up to 10 nozzles based on individual needs
 • Particularly suitable for Ø 6 mm injectors, e.g. A 840 or A 841, other diameters possible depending on application
 • For use in A 503 and APLW 511 mobile units
 • Part of the EasyLoad system
 • H 113, W 133, D 608 mm

A 621
Injector module, for reprocessing laboratory glassware, with 20 injector positions.
 • Can be equipped with up to 20 nozzles based on individual needs
 • Particularly suitable for Ø 4 mm injectors, e.g. A 842 or A 843, other diameters possible depending on application
 • For use in A 503 and APLW 511 mobile units
 • Part of the EasyLoad system
 • H 113, W 173, D 608 mm

A 622
Injector module, for reprocessing laboratory glassware, with 36 injector positions.
 • Can be equipped with up to 36 nozzles based on individual needs
 • Particularly suitable for Ø 2.5 mm injectors, e.g. A 844 or A 845, other diameters possible depending on application
 • For use in A 503 and APLW 511 mobile units
 • Part of the EasyLoad system
 • H 113, W 204, D 608 mm



A 850
Holder rack for A 620 injector module.
 • Grid: 2 x 5 compartments
 • For use on A 620 injector module
 • For optimum positioning of laboratory glassware
 • Part of the EasyLoad system
 • H 161, W 245, D 579 mm

A 851
Holder rack for A 621 injector module.
 • Grid: 3 x 7 compartments
 • For use on A 621 injector module
 • For optimum positioning of laboratory glassware
 • Part of the EasyLoad system
 • H 120, W 244, D 580 mm

A 852
Holder rack for A 622 injector module.
 • Grid: 4 x 9 compartments
 • For use on A 622 injector module
 • For optimum positioning of laboratory glassware
 • Part of the EasyLoad system
 • H 90, W 256, D 562 mm

Items	Description	Mat. no.	Article number	EAN
A 620	Injector module for the optimum reprocessing of laboratory glassware, 10 injector positions.	12678100	69662001D	4002516853909
A 621	Injector module for the optimum reprocessing of laboratory glassware, 20 injector positions.	12678110	69662101D	4002516855125
A 622	Injector module for the optimum reprocessing of laboratory glassware, 36 injector positions.	12678490	69662201D	4002516854531
A 850	Holder rack for injector module A 620.	11236630	69685000D	4002516200703
A 851	Holder rack for injector module A 621.	11236640	69685100D	4002516201915
A 852	Holder rack for injector module A 622.	11236650	69685200D	4002516201922

Injector Nozzles



PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111, PLW 8615, PLW 8616, PLW 8617



A 840

Injector nozzle with plastic support, nozzle diameter 6 mm, length 130 mm

- Suitable for mobile injector units and baskets, screw connection
- Ideal for load items with neck diameters of between 12 mm and 85 mm
- Diameter of cap at top: 11 mm
- Part of the EasyLoad system
- H 130, W 92, D 86 mm



A 841

Injector nozzle with plastic support, nozzle diameter 6 mm, length 210 mm

- Suitable for mobile injector units and baskets, screw connection
- Ideal for load items with neck diameters of between 12 mm and 85 mm
- Diameter of cap at top: 11 mm
- Part of the EasyLoad system
- H 210, W 92, D 86 mm



A 842

Injector nozzle with plastic support, nozzle diameter 4 mm, length 90 mm

- Suitable for mobile injector units and baskets, screw connection
- Ideal for load items with neck diameters of between 10 mm and 70 mm
- Diameter of cap at top: 9 mm
- Part of the EasyLoad system
- H 90, W 76, D 71 mm



A 843

Injector nozzle with plastic support, nozzle diameter 4 mm, length 185 mm

- Suitable for mobile injector units and baskets, screw connection
- Ideal for load items with neck diameters of between 10 mm and 70 mm
- Diameter of cap at top: 9 mm
- Part of the EasyLoad system
- H 185, W 76, D 71 mm



A 844

Injector nozzle with plastic support, nozzle diameter 2.5 mm, length 80 mm

- Suitable for mobile injector units and baskets, screw connection
- Ideal for load items with neck diameters of between 6 mm and 55 mm
- Diameter of cap at top: 5 mm
- Part of the EasyLoad system
- H 80, W 60, D 55 mm



A 845

Injector nozzle with plastic support, nozzle diameter 2.5 mm, length 125 mm

- Suitable for mobile injector units and baskets, screw connection
- Ideal for load items with neck diameters of between 6 mm and 55 mm
- Diameter of cap at top: 5 mm
- Part of the EasyLoad system
- H 125, W 60, D 55 mm

Items	Description	Mat. no.	Article number	EAN
A 840	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 item.	11056100	69684000D	4002516188742
A 841	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 item	11056190	69684100D	4002516188759
A 842	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 item	11056330	69684200D	4002516188766
A 843	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 item	11056440	69684300D	4002516188773
A 844	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 item.	11056600	69684400D	4002516188780
A 845	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 item.	11056670	69684500D	4002516188797

Injector Nozzles



PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111, PLW 8615, PLW 8616, PLW 8617

Items	Description	Mat. no.	Article number	EAN
A 840	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 item.	11056100	69684000D	4002516188742
A 841	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 item	11056190	69684100D	4002516188759
A 842	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 item	11056330	69684200D	4002516188766
A 843	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 item	11056440	69684300D	4002516188773
A 844	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 item.	11056600	69684400D	4002516188780
A 845	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 item.	11056670	69684500D	4002516188797
A 840/1	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 130 mm, 5 items.	11112600	69684001D	4002516188803
A 841/1	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 210 mm, 5 items	11113130	69684101D	4002516188810
A 842/1	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 90 mm, 5 items	11113590	69684201D	4002516188865
A 843/1	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 185 mm, 5 items	11113720	69684301D	4002516188889
A 844/1	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 5 items.	11115470	69684401D	4002516188919
A 845/1	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 5 items.	11116120	69684501D	4002516188940
A 840/2	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 130 mm, 10 items.	11113160	69684002D	4002516188841
A 841/2	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 210 mm, 10 items	11113140	69684102D	4002516188827
A 842/2	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 90 mm, 10 items	11113630	69684202D	4002516188872
A 843/2	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 185 mm, 10 items	11113730	69684302D	4002516188896
A 844/2	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 10 items.	11115500	69684402D	4002516188926
A 845/2	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 10 items.	11116130	69684502D	4002516119685
A 840/3	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 130 mm, 20 items.	11113170	69684003D	4002516188858
A 841/3	Injector nozzle with plastic supports, nozzle diameter 6 mm, length 210 mm, 20 items	11113150	69684103D	4002516188834
A 842/3	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 90 mm, 20 items	11113670	69684203D	4002516195597
A 843/3	Injector nozzle with plastic supports, nozzle diameter 4 mm, length 185 mm, 20 items	11113760	69684303D	4002516188902
A 844/3	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 20 items.	11115520	69684403D	4002516188933
A 845/3	Injector nozzle with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 20 items.	11116140	69684503D	4002516188957

Additional Injector Modules for A 100, A 150 and APLW 106



PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



- A 304**
Injector module, for max. 98 vials.
- Suitable for 98 centrifuge tubes, vials, test tubes, for example
 - Vertical clearances differ depending on position
 - 1 unit can be inserted into each of the baskets A 100, A 150 and APLW 106
 - H 130, W 222, D 471 mm

- APLW 870**
Set of injector nozzles, with supports, for cleaning sedimentation funnels (Imhoff).
- Set consists of 4 special nozzles with holders
 - Max. diameter 120 mm, max. height 470 mm
 - For use with separately available injector module A 300/2
 - For use with separately available injector module A 300/3
 - For use with separately available injector module A 620
 - Part of the EasyLoad system
 - H 290, W 125, D 125 mm

PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



- A 303**
Injector module, for max. 98 pipettes.
- Suitable for 98 measuring and volumetric pipettes, for example
 - Height of holding frame: 150 mm
 - 1 unit can be inserted into each of the baskets A 150 and APLW 106
 - Vertical clearance without upper basket: 450 mm (with A 150 lower basket)
 - H 185, W 222, D 471 mm

- A 306/1**
Injector module, for large-volume laboratory glassware.
- Suitable for 4 x 1–2 l measuring cylinders, tall form
 - Suitable for 2 x 1–2 l measuring cylinders, short and 2 tall
 - Plastic-coated contact surfaces
 - Measuring cylinders even removable when module is in machine
 - Maximum length of the measuring cylinders in the A 150 lower basket: 500 mm
 - Up to 2 modules can be inserted in the baskets A 150 and APLW 106
 - H 433, W 249, D 475 mm

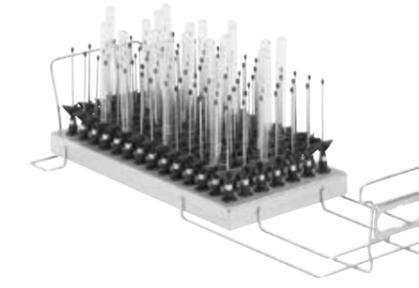
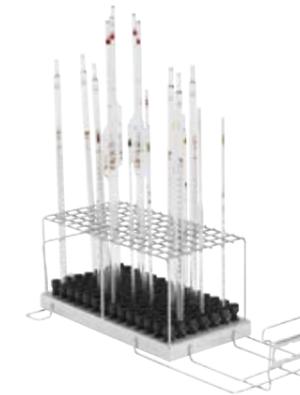
- A 312**
Injector module, for reprocessing viscometers.
- Suitable for up to 8 viscometers
 - Equipped with 8 x A 867 special nozzles
 - Nozzle spacing 118 mm across the width, 118 mm across the depth
 - H 395, W 164, D 475 mm

Items	Description	Mat. no.	Article number	EAN
A 304	Module for the optimum loading of up to 98 vials.	12669230	69630401D	4002516854982
APLW 870	Set of injector nozzles with support, for cleaning sedimentation vials (Imhoff cones).	12151110	69687000D	4002516638124
A 303	Module for the optimum loading of up to 98 pipettes.	12669220	69630301D	4002516854746
A 306/1	Module for the optimum loading of large-volume laboratory glassware.	12683100	69630602D	4002516854456
A 312	Module for reprocessing viscometers.	11054470	69631200D	4002516087397

Additional Injector Modules for A 503 and APLW 511



PLW 8615, PLW 8616, PLW 8617



- A 613**
Injector modules, for optimum reprocessing of volumetric and measuring pipettes.
- Equipped with 98 injector nozzles
 - Suitable for measuring pipettes with a volume of 1–50 ml
 - Suitable for volumetric pipettes with a volume of 1–100 ml
 - For use in A 503 and APLW 511 mobile units
 - Capacity dependent on max. diameter of pipettes
 - H 195, W 255, D 614 mm

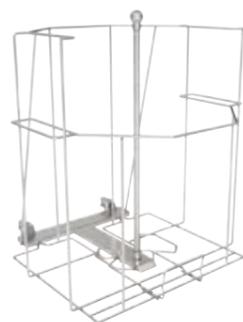
- A 605**
Injector modules, for optimum reprocessing of vials and test tubes, etc.
- Equipped with 98 injector nozzles
 - Max. H 160 mm, max. Ø 20 mm
 - For use in A 503 and APLW 511 mobile units
 - H 160, W 225, D 611 mm

- A 623**
Injector module, for optimum loading of measuring cylinders.
- Equipped with 4 nozzles
 - For measuring cylinders with 1–2 l capacity
 - Suitable for two 1–2 l measuring cylinders, short and 2 tall
 - Pivoting supports for ease of use
 - Plastic-coated contact surfaces
 - H 437, W 255, D 608 mm

Items	Description	Mat. no.	Article number	EAN
A 613	Module for optimum reprocessing of volumetric and measuring pipettes.	12670020	69661301D	4002516854128
A 605	Module for optimum reprocessing of vials and test tubes, etc.	12669870	69660501D	4002516854074
A 623	Module for the optimum loading of measuring cylinders.	12678510	69662301D	4002516853893

Injector Modules for Large Items of Laboratory Glassware

PLW 7111



APLW 215

Injector module, ideal for large-volume laboratory glassware and bottles up to 50 l.

- For use on level 1
- Equipped with a special injector nozzle
- Equipped with a holding frame
- Max. bottle diameter: 380 mm
- Bottle height: 560–620 mm
- Bottle neck diameter: min. 30 mm internal, max. 80 mm external
- H 532, W 505, D 526 mm

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



A 313

Injector module for reprocessing large-volume laboratory glassware.

- Laboratory bottles, max. 10 l
- Round flasks, max. 6 l
- Erlenmeyer flasks, max. 5 l
- Measuring flasks, max. 5 l
- Can be equipped with nozzles and holders based on individual needs
- Equipped with 5 injector positions
- Depending on the diameter, for 2 or 3 load items
- H 221, W 234, D 495 mm

Items	Description	Mat. no.	Article number	EAN
APLW 215	Module for reprocessing large-volume laboratory glassware and bottles up to 50 l.	11853940	69621500D	4002516525981
A 313	Module for reprocessing large-volume laboratory glassware.	11055970	69631300D	4002516087854

Injector Modules for Large Items of Laboratory Glassware

PLW 8615, PLW 8616, PLW 8617



A 612

Injector module for reprocessing large-volume laboratory glassware.

- Can be equipped with A 846, A 847 and A 848 injector nozzles based on individual needs
- Suitable for 2–10 l laboratory bottles, 2–6 l round flasks
- Suitable for 2–5 l Erlenmeyer flasks, 2–5 l measuring flasks
- For use in A 503 and APLW 511 mobile units
- Depending on the diameter, for 2, 3 or 4 load items
- H 361, W 255, D 614 mm

Injector nozzles for A 313 and A 612 injector modules



A 846

Injector nozzle, with support, for cleaning laboratory bottles and round flasks.

- For laboratory bottles, max. 10 l, and round flasks, max. 6 l
- Nozzle length: 127 mm, Nozzle length with holder: 158 mm
- Nozzle Ø: 10 mm
- For injector modules A 313 and A 612
- H 158, W 110, D 110 mm



A 847

Injector nozzle, with support, for cleaning Erlenmeyer flasks.

- For Erlenmeyer flasks, max. 5 l
- Nozzle length: 127 mm
- Nozzle Ø: 10 mm, Support Ø: 142 mm
- For injector modules A 313 and A 612



A 848

Injector nozzle, with support, for cleaning measuring cylinders.

- Nozzle length: 350 mm
- Nozzle Ø: 10 mm, Support Ø: 142 mm
- For injector modules A 313 and A 612

Items	Description	Mat. no.	Article number	EAN
A 612	Module for the optimum reprocessing of large-volume laboratory glassware.	12670000	69661201D	4002516854173
A 846	Injector nozzle with support, for cleaning laboratory flasks and round flasks.	12665100	69684601D	4002516855088
A 847	Injector nozzle with support, for cleaning Erlenmeyer flasks.	12665110	69684701D	4002516855101
A 848	Injector nozzle with support, for cleaning measuring cylinders.	12665120	69684801D	4002516854234

Inserts for Beakers, Funnels, Test Tubes, Wide-Necked Glassware and Measuring Cylinders

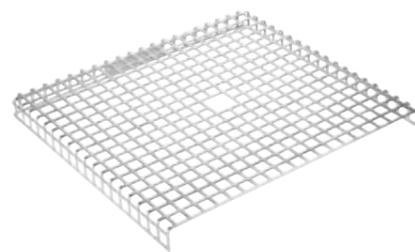
PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



AK 12/1

Insert, for various utensils.

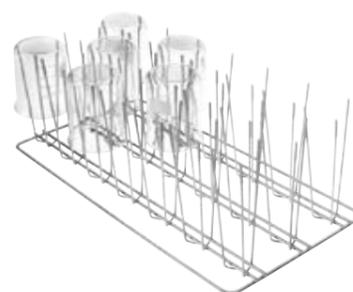
- Suitable for beakers, funnels, breast milk pumps
- With flexible handles
- Suitable for many upper and lower baskets as well as mobile units
- H 120, W 229, D 427 mm



A 14/1

Lid, for securing delicate load items.

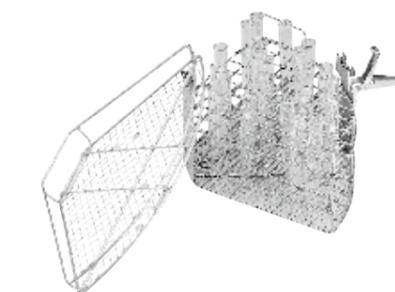
- Stainless steel lid
- 8 x 8 mm perforations, 3 mm edge
- Covers half of AK 12/1 insert
- H 19, W 207, D 224 mm



E 109

Insert, for beakers, max. 250 ml.

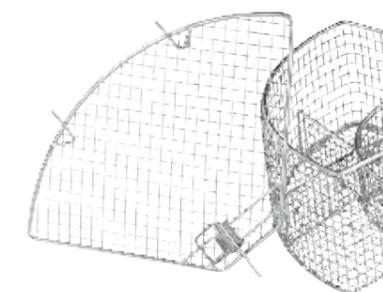
- Suitable for 21 glass beakers, max. 250 ml
- Equipped with 21 x 3 stay bars
- For use in upper and lower basket
- H 155, W 230, D 460 mm



E 149

Insert, for 80 test tubes, 16 x 105 mm.

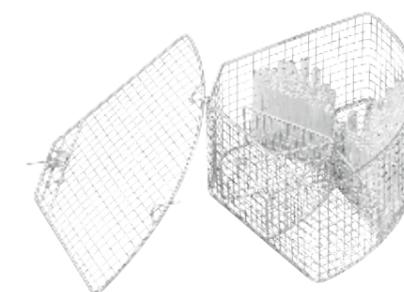
- Suitable for 80 test tubes, max. 16 x 105 mm
- Additionally equipped with A 13 lid
- 80 compartments, 18 x 18 mm
- Mesh size on base 8 x 8 mm
- H 152, W 200, D 320 mm



A 13

Lid, for securing delicate load items.

- Stainless steel lid
- 1 mm wire mesh, 8 mm mesh gauge, 4 mm all-round frame
- As replacement for E 103, E 104, E 105 and E 139 inserts
- H 20, W 200, D 320 mm



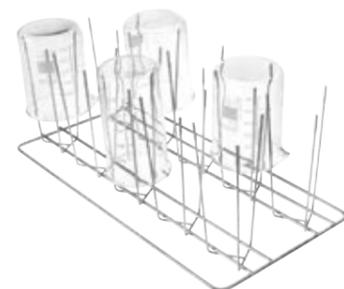
E 103/1

Insert, for test tubes, 12 x 75 mm.

- Suitable for approx. 200 test tubes, (max. 12 x 75 mm)
- 6 compartments
- Mesh width: 8 x 8 mm
- Incl. A 13 lid
- H 122, W 200, D 320 mm

Companion pack:

- A 13 lid, for securing delicate load items [number]: 1



E 110

Insert, for beakers, max. 250–600 ml.

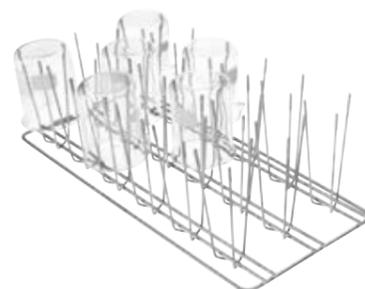
- Suitable for 10 glass beakers between 250–600 ml
- Equipped with 10 x 3 stay bars
- For use in lower basket
- H 175, W 230, D 460 mm



E 111

Insert, for beakers, max. 600–1000 ml.

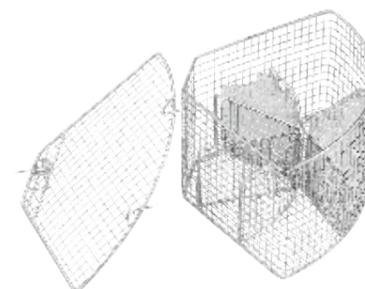
- Suitable for 8 glass beakers between 600–1000 ml
- Equipped with 8 x 3 stay bars
- For use in lower basket
- H 205, W 230, D 460 mm



E 144

Insert, for max. 18 beakers, max. 250 ml.

- Suitable for 18 glass beakers
- Equipped with 18 x 3 stay bars
- For use in upper and lower basket
- H 131, W 200, D 445 mm



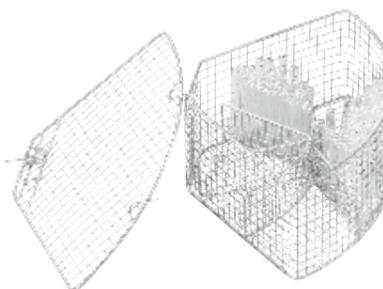
E 104/1

Insert, for test tubes, 12 x 105 mm.

- Suitable for approx. 200 test tubes, (max. 12 x 105 mm)
- Incl. A 13 lid
- Mesh width: 8 x 8 mm
- H 152, W 200, D 320 mm

Companion pack:

- A 13 lid, for securing delicate load items [number]: 1



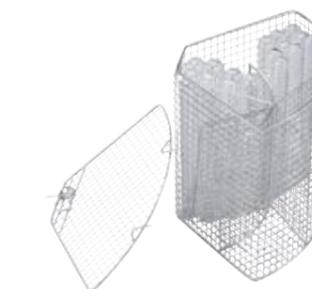
E 105/1

Insert, for test tubes, 12 x 165 mm.

- Suitable for approx. 200 test tubes, (max. 12 x 165 mm)
- Incl. A 13 lid
- Mesh width: 9 x 9 mm
- H 212, W 200, D 320 mm

Companion pack:

- A 13 lid, for securing delicate load items [number]: 1



E 139/1

Insert, for test tubes, 12 x 200 mm.

- Suitable for test tubes, max. 12 x 200 mm
- 6 compartments
- Mesh size 9 x 9 mm
- For use in lower basket
- Incl. A 13 lid
- H 243, W 200, D 320 mm

Companion pack:

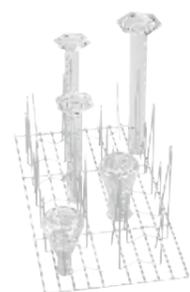
- A 13 lid, for securing delicate load items [number]: 1

Items	Description	Mat. no.	Article number	EAN
AK 12/1	Insert for loading different utensils.	11131690	69501204D	4002516343714
A 14/1	Lid for securing delicate load items.	11131560	69746003D	4002516340126
E 109	Insert for the optimum loading of beakers up to 250 ml.	3808360	69510901D	4002511115729
E 110	Insert for the optimum loading of beakers from 250 to 600 ml.	3808390	69511001D	4002511115736
E 111	Insert for the optimum loading of beakers from 600 to 1,000 ml.	3808420	69511101D	4002511115743
E 144	Insert for the optimum loading of up to 18 beakers.	3808710	69514401D	4002511115996

Items	Description	Mat. no.	Article number	EAN
E 149	Insert for optimum loading of 80 test tubes, 16 x 105 mm.	3808800	69514901D	4002511116016
A 13	Lid for fixing delicate wash items.	3810200	69745001D	4002511117204
E 103/1	Insert for the optimum loading of test tubes up to 12 x 75 mm.	12667340	69510303D	4002516854104
E 104/1	Insert for the optimum loading of test tubes up to 12 x 105 mm.	12667370	69510403D	4002516854111
E 105/1	Insert for the optimum loading of test tubes up to 12 x 165 mm.	12667380	69510503D	4002516853978
E 139/1	Insert for the optimum loading of test tubes up to 12 x 200 mm.	12667390	69513903D	4002516854036

Inserts for Beakers, Funnels, Test Tubes, Wide-Necked Glassware and Measuring Cylinders

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



E 106

Insert, for wide-necked glassware, measuring cylinders, etc.

- Equipped with 10 spring hooks x 175 mm, and 16 x 105 mm
- The distance between the spring hooks is approx. 60 mm
- H 181, W 220, D 445 mm



E 106/1

Insert, for wide-necked glassware, measuring cylinders, etc.

- Equipped with 26 small spring hooks x 105 mm height
- The distance between the spring hooks is approx. 60 mm
- H 116, W 220, D 445 mm



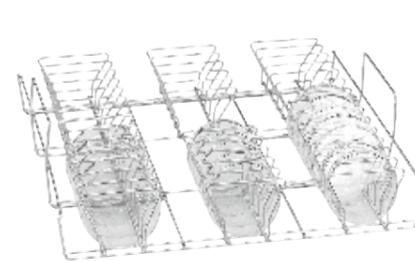
E 106/2

Insert, for wide-necked glassware, measuring cylinders, etc.

- Equipped with 13 x 175 mm large spring hooks
- The distance between the spring hooks is approx. 85 mm
- H 186, W 220, D 445 mm

Inserts for Petri Dishes, Watch Glasses, Microtiter Plates, etc.

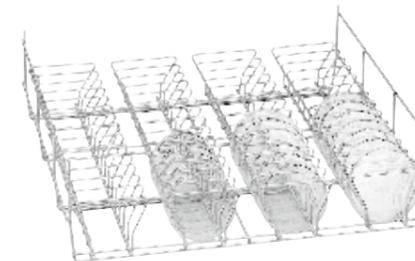
PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



E 118

Insert, for half Petri dishes.

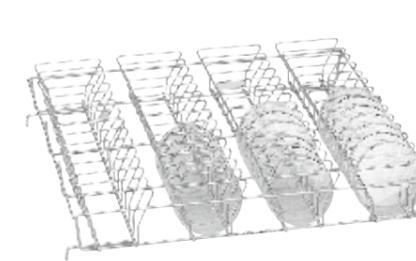
- Suitable for 38 half Petri dishes with Ø 100 mm
- Equipped with 38 holders, height 70 mm, spacing approx. 26 mm
- For use in upper basket
- H 120, W 460, D 445 mm



E 136

Insert, for 56 half Petri dishes.

- Suitable for 56 half Petri dishes with Ø 100 mm
- Equipped with 56 holders, height 70 mm, spacing approx. 26 mm
- For use in lower basket
- The capacity can be doubled with insert E 137
- H 145, W 485, D 445 mm



E 137

Insert, for 56 half Petri dishes.

- Suitable for 56 half Petri dishes with Ø 100 mm
- Equipped with 56 holders, height 70 mm, spacing approx. 26 mm
- For use in lower basket
- For use with insert E 136
- H 95, W 485, D 445 mm



E 402

Insert, for max. 44 watch glasses.

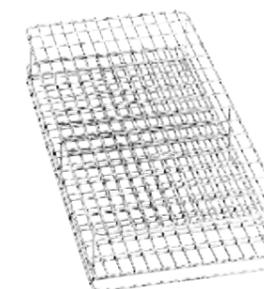
- Suitable for 44 watch glasses, Ø 80–125 mm
- Equipped with 23 bars spaced 15 mm apart
- H 53, W 200, D 445 mm



E 403

Insert, for max. 105 watch glasses.

- Suitable for 105 watch glasses, Ø 50–60 mm
- Equipped with 36 bars spaced 9 mm apart
- H 35, W 200, D 445 mm



E 134

Insert, for 210 slides.

- Suitable for 210 slides
- 26 compartments, 26 x 11 mm, wire thickness 3 mm
- H 73, W 200, D 445 mm

Items	Description	Mat. no.	Article number	EAN
E 106	Insert for the optimum loading of wide neck flasks, measuring cylinders, etc.	3808310	69510601D	4002511115675
E 106/1	Insert for the optimum loading of wide neck flasks, measuring cylinders, etc.	3808320	69510602D	4002511115682
E 106/2	Insert for the optimum loading of wide neck flasks, measuring cylinders, etc.	3808330	69510603D	4002511115699

Items	Description	Mat. no.	Article number	EAN
E 118	Insert for optimum loading of half petri dishes.	3830270	69511801D	4002511115767
E 136	Insert for optimum loading of 56 half petri dishes.	3830280	69513601D	4002511115941
E 137	Insert for optimum loading of 56 half petri dishes.	3830290	69513701D	4002511115958
E 402	Insert for optimum loading of up to 44 watch glasses.	3830420	69540201D	4002511116627
E 403	Insert for optimum loading of up to 105 watch glasses.	3830430	69540301D	4002511116634
E 134	Insert for optimum loading of 210 slides.	3808600	69513401D	4002511115897

Inserts for Petri Dishes, Watch Glasses, Microtiter Plates, etc.

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



E 494

Insert, for 5 microtiter plates.

- H 35, W 205, D 440 mm

Further Components

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



A 2

Cover net, for securing delicate load items.

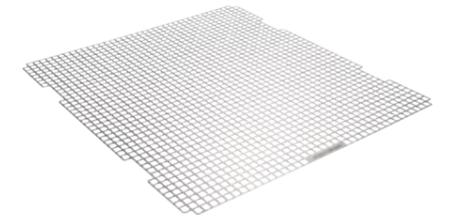
- Suitable for 1/2 inserts
- Plastic-coated metal frame with plastic netting
- Dimensions: 216 x 456 mm



A 3

Cover net, as a cover for load items in inserts.

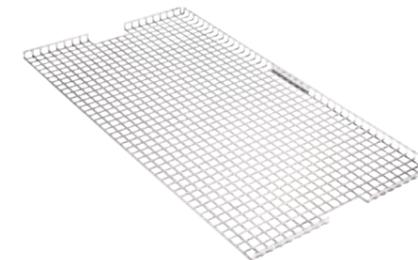
- Plastic-coated metal frame with plastic netting
- Suitable for 1/4 inserts
- 206 x 206 mm



A 11/2

Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.

- With 8 x 8 mm perforations
- For use in upper and lower basket
- H 1, W 476, D 443 mm



A 12/2

Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.

- With 8 x 8 mm perforations
- For use in upper and lower basket
- Covers half of basket
- H 10, W 237, D 449 mm



E 319/4

Surface filter, retains labels and glass splinters.

- Surface filter for coarse soil
- Filters out laboratory glassware labels
- Prevents contamination with splinters of broken glass
- H 39, W 455, D 513 mm

Items	Description	Mat. no.	Article number	EAN
E 494	Insert for the gentle holding of 5 microtiter plates.	12669920	69549402D	4002516853947

Items	Description	Mat. no.	Article number	EAN
A 2	Cover net for fixing delicate wash items.	3830460	69500201D	4002511115590
A 3	Cover net as cover for wash items in inserts.	3830470	69500301D	4002511115606
A 11/2	Insert for the gentle cleaning of delicate load items by interrupting the water jet.	11239130	69501103D	4002516340119
A 12/2	Insert for the gentle cleaning of delicate load items by interrupting the water jet.	11238030	69501205D	4002516237068
E 319/4	Surface filter for optimum protection against contamination from labels or glass splinters.	11237950	69531905D	4002516207429

Inserts and Lids

PLW 7111, PLW 8615, PLW 8616, PLW 8617



A 321

Insert, for various utensils.

- Suitable for beakers, funnels, breast milk pumps
- With flexible handles
- H 80, W 239, D 535 mm



A 320

Insert for gentle cleaning of delicate load items by interrupting the water jet.

- With 8 x 8 mm perforations
- Suitable for use on all levels
- Covers one third of level
- H 11, W 237, D 537 mm



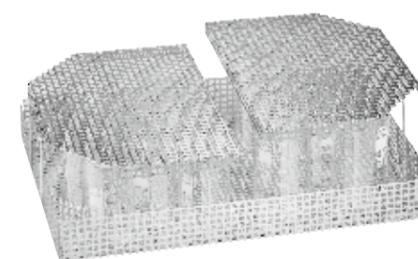
A 322

Lid, for securing delicate load items.

- Stainless steel lid
- 8 x 8 mm perforations, 3 mm edge
- H 18.7, W 262, D 234 mm

Inserts and Lids

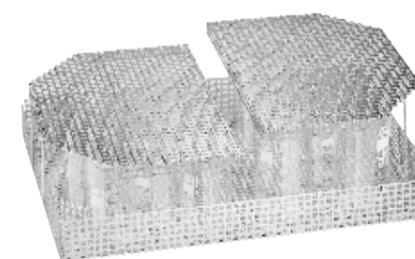
PLW 8615, PLW 8616, PLW 8617



E 969

Insert, for various utensils.

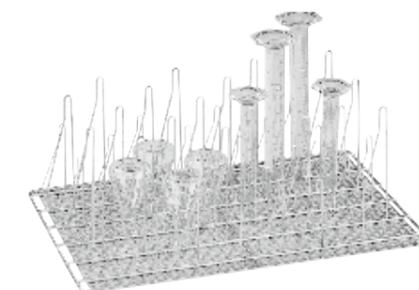
- Perforated sheet-metal plate, 7 x 7 x 3 mm
- Suitable for E 900-4/1, E 935/1, E 975/2, E 941 with E 945
- In E 941 only suitable with E 945.
- H 122, W 363, D 533 mm



A 19

Lid, for securing delicate load items.

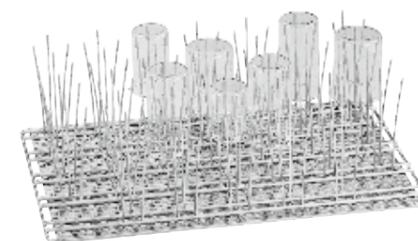
- Perforated sheet-metal plate, 7 x 7 x 3 mm
- Suitable for insert E 969
- H 18, W 251, D 351 mm



E 960/1

Insert, for wide-necked Erlenmeyer flasks.

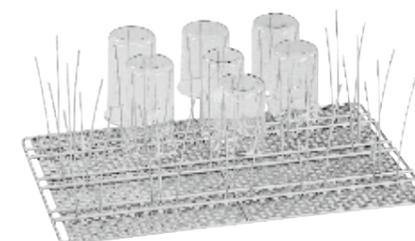
- Equipped with 20 large and 26 small spring hooks
- Suitable for wide-necked Erlenmeyer flasks and measuring cylinders
- H 185, W 357, D 522 mm



E 963

Insert, for beakers, max. 250 ml.

- Equipped with 33 x 3 stay bars for beakers up to 250 ml
- H 155, W 357, D 522 mm



E 965

Insert, for beakers, max. 250–600 ml.

- Equipped with 15 x 3 stay bars for beakers, 250–600 ml
- H 173, W 357, D 522 mm

Items	Description	Mat. no.	Article number	EAN
A 321	Insert for loading different utensils.	11309380	69632100D	4002516237099
A 320	Insert for the gentle cleaning of delicate load items by interrupting the water jet.	11295510	69632000D	4002516237082
A 322	Lid for securing delicate load items.	11874380	69632200D	4002516519355

Items	Description	Mat. no.	Article number	EAN
E 969	Insert for holding different utensils.	5746240	69596901D	4002513298765
A 19	Lid for fixing delicate wash items.	5746210	69796901D	4002513298758
E 960/1	Insert for the optimum loading of wide necked Erlenmeyer flasks.	5892360	69596002D	4002513400953
E 963	Insert for the optimum loading of beakers up to 250 ml.	5848300	69596301D	4002513369236
E 965	Insert for the optimum loading of beakers 250 - 600 ml.	5848290	69596501D	4002513369229

Injector Nozzles and Further Components

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



E 336

Irrigation sleeve for optimum loading of pipettes/ MIS instruments in mobile injector units.

- Secure hold for pipettes, max. 445 mm length
- Plastic, with screw connection
- H 121, W 11, D 11 mm



E 351

Injector nozzle, for optimum cleaning of load items. Dimensions: 4 x 160 mm.

- Suitable for use in mobile injector unit
- Can be combined with E 353 clip
- Ø 4 x 160 mm, with screw connection



E 352

Injector nozzle, for optimum cleaning of load items.

- Suitable for use in mobile injector unit
- Can be combined with E 354 clip
- Ø 6 x 220 mm, with screw connection



E 353

Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.

- Suitable for E 351 injector nozzle
- Height-adjustable clip
- Injector nozzle, e.g. for bottles, Erlenmeyer flasks and round flasks
- H 160, W 4, D 4 mm



E 354

Clip, height-adjustable, for optimum positioning of laboratory glassware on nozzles.

- Suitable for E 352 injector nozzle
- Height-adjustable clip
- Injector nozzle, e.g. for bottles, Erlenmeyer flasks and round flasks
- H 220, W 6, D 6 mm



E 470

Injector nozzle, for mobile injector unit, Ø 2.5 x 90 mm.

- Suitable for mobile injector units, with screw connection
- Injector nozzle, e.g. for bottles, Erlenmeyer flasks and round flasks
- H 90, W 25, D 25 mm

Items	Description	Mat. no.	Article number	EAN
E 336	Irrigation sleeves for the optimum loading of pipettes/MIS instruments in injector units.	3809390	69733601D	4002511117068
E 351	Injector nozzle for the optimum cleaning of the wash items. Size 4 x 160 mm.	3809500	69735101D	4002511117075
E 352	Injector nozzle for the optimum cleaning of the wash items.	3809510	69735201D	4002511117082
E 353	Clamps height-adjustable for optimum positioning of laboratory glassware on the nozzle.	3809530	69735301D	4002511117099
E 354	Clamps height-adjustable for optimum positioning of laboratory glassware on the nozzle.	3809540	69735401D	4002511117105
E 470	Injector nozzle for use in the mobile injector unit, Ø 2.5 x 90 mm.	5701580	69547001D	4002513248814

Injector Nozzles and Further Components

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



ID 90

Injector nozzle with plastic support, Ø 2.5 mm, length 90 mm.

- Suitable for standard mobile injector units and injector baskets
- Suitable e.g. for measuring cylinders, flasks and test tubes



ID 110

Injector nozzle with plastic support, Ø 2.5 mm, length 110 mm.

- Suitable for standard mobile injector units and injector baskets
- Suitable e.g. for measuring cylinders, flasks and test tubes



ID 140

Injector nozzle with plastic support, Ø 4 mm, length 140 mm.

- Suitable for standard mobile injector units and injector baskets
- Suitable e.g. for measuring cylinders, flasks and test tubes



ID 160

Injector nozzle with plastic support, Ø 4 mm, length 160 mm.

- Suitable for standard mobile injector units and injector baskets
- Suitable e.g. for measuring cylinders, flasks and test tubes



ID 180

Injector nozzle with plastic support, Ø 4 mm, length 180 mm.

- Suitable for standard mobile injector units and injector baskets
- Suitable e.g. for measuring cylinders, flasks and test tubes



ID 200

Injector nozzle with plastic support, Ø 6 mm, length 200 mm.

- Suitable for standard mobile injector units and injector baskets
- Suitable e.g. for measuring cylinders, flasks and test tubes

Items	Description	Mat. no.	Article number	EAN
ID 90	Injector nozzle with plastic supports, Ø 3 mm, length 90 mm.	3810320	69709001D	4002511116962
ID 110	Injector nozzle with plastic supports, Ø 3 mm, length 110 mm.	3810330	69711001D	4002511116979
ID 140	Injector nozzle with plastic supports, Ø 4 mm, length 140 mm.	3810340	69714001D	4002511116986
ID 160	Injector nozzle with plastic supports, Ø 4 mm, length 160 mm.	3810350	69716001D	4002511116993
ID 180	Injector nozzle with plastic supports, Ø 4 mm, length 180 mm.	3810360	69718001D	4002511117006
ID 200	Injector nozzle with plastic supports, Ø 6 mm, length 200 mm.	3810380	69720001D	4002511117013

Injector Nozzles and Further Components

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD, PLW 8636, PLW 7111



ID 220
Injector nozzle with plastic support, Ø 6 mm, length 220 mm.
 • Suitable for standard mobile injector units and injector baskets
 • Suitable e.g. for measuring cylinders, flasks and test tubes



ID 240
Injector nozzle with plastic support, Ø 6 mm, length 240 mm.
 • Suitable for standard mobile injector units and injector baskets
 • Suitable e.g. for measuring cylinders, flasks and test tubes



SD-B
Injector nozzle, for butyrometers.
 • Suitable for standard mobile injector units and injector baskets
 • Length 240 mm incl. thread, 4 x 140 mm plus welded, compressed nozzle, 1.5 x 100 mm



E 362
Blanking screw, for sealing connections on load carriers.
 • Thread M 8 x 1



A 838
Tool set, for adjusting basket heights and installing/removing injector nozzles.
 • Set consisting of Torx wrench and open spanner
 • Suitable for Miele upper baskets and mobile units



A 802
Nozzle, for optimum cleaning of the dispensing compartment.
 • For use in laboratory washer-disinfectors with powder dispenser
 • For use with injector modules
 • Suitable for removing powder residues from dispensing compartment
 • H 187, W 30, D 15 mm

Items	Description	Mat. no.	Article number	EAN
ID 220	Injector nozzle with plastic supports, Ø 6 mm, length 220 mm.	3810390	69722001D	4002511117020
ID 240	Injector nozzle with plastic supports, Ø 6 mm, length 240 mm.	3810400	69724001D	4002511117037
SD-B	Injector nozzle for butyrometers.	3583540	69708001D	4002511116955
E 362	Blind stopper for the sealing of fittings to load carriers.	3809630	69736201D	4002511117136
A 838	Key set for adjusting basket heights and installing/removing injector nozzles.	11054290	69783800D	4002516171720
A 802	Jets for the optimum cleaning of the dispenser compartment.	9863070	69680200D	4002515460979

Transfer Trolleys

PLW 8615, PLW 8616, PLW 8617



TT 86
Transfer trolley, for loading and unloading washer-disinfectors and laboratory washers.
 • Equipped with 4 lockable rollers
 • Simple and convenient handling thanks to ergonomic handle
 • Fitted with removable drip tray
 • Height-adjustable
 • Suitable for cleaning in container and trolley washers
 • H 911, W 693, D 990 mm



ATT 86
Transfer trolley, for loading and unloading large-chamber washers, electric height adjustment.
 • Enables ergonomic working
 • Infinite electric height adjustment
 • Also, 3 fixed, freely selectable height positions can be saved
 • Flexible operation thanks to high-performance battery
 • Fitted with removable drip tray
 • Battery included, the charger must be ordered separately
 • H 925.5, W 662, D 1156 mm



APLW 868
APLW 869 battery charging station
 • With CEE7 plug / Europe
 • Includes wall mounting kit
 • H 135, W 167, D 75 mm



APLW 869
Rechargeable battery for use in ATT 86.
 • Recharging time 5 hours
 • Charger available separately.
 • Charging capacity: 2.9 Ah
 • H 239, W 117, D 75 mm

Items	Description	Mat. no.	Article number	EAN
TT 86	Transfer trolley for loading and unloading washer-disinfectors and lab washers.	11178960	69200115D	4002516147725
ATT 86	Transport trolley, automatic for loading & unloading large-scale dishwashers with electric height adjustment.	11621520	69200116D	4002516463030
APLW 868	Charging station for APLW 869 battery.	11936110	69686800D	4002516562009
APLW 869	Battery for use in ATT 86.	11936210	69686900D	4002516562016

Systems for Reprocessing With Demineralised Water

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD



PG 8595

Aqua Purificator, for two full demineralisation cartridges, stainless steel.

- Suitable for VE P 2800 and VE P 2000
- Connection of ConductivityMeter CM/1 possible
- External dimensions: H 835 (820 without lid), W 300, D 600 mm
- H 835, W 300, D 600 mm



PG 8595

Aqua Purificator, for two full demineralisation cartridges, white.

- Suitable for VE P 2800 and VE P 2000
- Connection of ConductivityMeter CM/1 possible
- External dimensions: H 835 (820 without lid), W 300, D 600 mm
- H 835, W 300, D 600 mm



CM/1

ConductivityMeter for measuring conductivity level and cartridge replacement indicator.

- Suitable for full demineralisation cartridges
- Optical and acoustic cartridge replacement indicator
- 10-point measurement in 0–199.9 µS/cm range
- One-line display, connection to external LED possible
- Including wall bracket and power supply unit
- H 110, W 125, D 52 mm



E 316

Plastic barrel for refilling single-use resins

- With lid and funnel for single-use resin
- Refill set, max. 30 l



SK/1

Fast-action coupling, for convenient replacement of demineralisation cartridges.

- 2 x VA plug connectors 3/4", 2 x fast-action coupling 3/4"
- Incl. seals for existing set of hoses.



Utz/1

Conversion kit for second cartridge, for quick replacement with second full/partial demineralisation cartridge

- 2 x VA plug connector 3/4" for installation on second cartridge



VE P 2800/1

Full demineralisation cartridge for water treatment.

- Max. delivery: 800 l/h
- ConductivityMeter CM/1 measures remaining capacity
- Max. water inlet temperature 40 °C – pressure range from 0.5–10 bar
- Resin volume 19 l
- H 560, W 240, D 240 mm



LP 2800/1

Demineralisation cartridge, empty, for manually refilling with single-use resins.

- Max. delivery: 800 l/h
- Max. water inlet temperature 40 °C – pressure range from 0.5–10 bar
- Resin volume 19 l
- H 560, W 240, D 240 mm



E 315/1

Single-use resin for demineralised water, for reactivation of full demineralisation cartridges

- For use in the LP 2800/1 empty cartridge
- 20 l of homogeneously mixed resins
- Carton with 2 x 10 l bags
- Vacuum sealed in plastic bags
- Including replacement filter bag



VE P 2000/1

Full demineralisation cartridge for water treatment.

- Max. delivery: 450 l/h
- ConductivityMeter CM/1 measures remaining capacity
- Max. water inlet temperature 40 °C – pressure range from 0.5–10 bar
- Resin volume 12.5 l
- H 400, W 240, D 240 mm



E 313

Wall fitting for manual delivery of demineralised water.

- Pressure-proof to 10 bar
- Incl. 150 cm pressure hose



E 314

Tap fitting for manual delivery of demineralised water.

- Pressure-proof to 10 bar
- Pressure-proof to 10 bar
- Incl. 150 cm pressure hose
- Incl. 150 cm pressure hose

Items	Description	Mat. no.	Article number	EAN
PG 8595	Aqua purificator for two full or partial demineralisation cartridges, stainless steel.	10087320	69859502D	4002515558102
PG 8595	Aqua purificator for two full or partial demineralisation cartridges, white.	10087310	69859501D	4002515558096
CM/1	ConductivityMeter for measuring the conductivity level and the display for changing the cartridge.	10889920	69450002D	4002516057420
VE P 2800/1	Full demineralisation cartridge for optimum water preparation.	12681040	69431006D	4002516874027
LP 2800/1	Demineralisation cartridge, empty for the manual filling of single use resins.	12684720	69431806D	4002516881124
E 315/1	Full demineralisation single use resin for the regeneration of full demineralisation cartridges	12945010	69431502D	4002516957515

Items	Description	Mat. no.	Article number	EAN
E 316	Plastic barrel for refilling single use resins.	3830360	69431601D	4002511115309
SK/1	Quick connection for the simple and convenient changing of demineralisation cartridges.	12684790	69431902D	4002516881131
Utz/1	Conversion kit for two cartridges for the quick change to a full/partial demineralisation cartridge.	12684950	69431906D	4002516881148
VE P 2000/1	Full demineralisation cartridge for optimum water preparation.	12680820	69431102D	4002516874010
E 313	Wall fitting for the manual production of demineralised water.	3830330	69431301D	4002511115279
E 314	Tap fitting for the manual delivery of demineralised water.	3830340	69431401D	4002511115286

Systems for Reprocessing With Demineralised Water

PLW 8683, PLW 8693, PLW 8683 CD



ADP 86

Module with external booster pump for unpressurised demineralised water

- To compensate for low demineralised water pressure on site

Components for Dispensing Cleaning Agents

PLW 8683, PLW 8693



PG 8596

Dispensing unit, for cleaning agents and dispensing modules, stainless steel.

- 2 removable drawers for 3 x 5 l canisters each
- Interior dimensions: H 285–690, W 250, D 425–555 mm
- 2 loading options per level for dispensing modules
- Drip tray facilitates better residual emptying of canisters
- H 835, W 300, D 600 mm



PG 8596

Dispensing unit, for cleaning agents and dispensing modules, white.

- 2 removable drawers for 3 x 5 l canisters each
- Interior dimensions: H 285–690, W 250, D 425–555 mm
- 2 loading options per level for dispensing modules
- Drip tray facilitates better residual emptying of canisters
- H 835, W 300, D 600 mm



DOS K 85/1 flex

Dispensing module for 5 l canisters, for automatic dispensing of liquid media, with “container empty” monitoring.

- Dispensing monitoring – high process security as per EN ISO 15883
- For dispensing liquid cleaning agent/neutralising agent
- 214 mm suction lance for 5 l media canisters with flexible cap
- Suction lance conversion kit for 10–30 l canisters available from Customer Service



DOS K 85 flex

Dispensing module for 5–10 l canisters, for automatic dispensing of liquid media, with “container empty” monitoring.

- Dispensing monitoring – high process security as per EN ISO 15883
- For dispensing liquid cleaning agent/neutralising agent
- 352 mm suction lance for 5–10 l media canisters, with flexible cap
- Suction lance conversion kit for 10–30 l canisters available from Customer Service



DOS K 85/1 Comfort

Dispensing module for 5 l canisters, for automatic dispensing of liquid media, with fill level detection.

- Dispensing monitoring – high process security as per EN ISO 15883
- Constant monitoring of the fill level and option to integrate into Miele MOVE to create customised notifications
- For dispensing liquid cleaning agent/neutralising agent
- 214 mm suction lance for 5 l media canisters with flexible cap
- Suction lance conversion kit for 10–30 l canisters available from Customer Service



DOS K 85 Comfort

Dispensing module for 5–10 l canisters for automatic dispensing of liquid media, with fill level detection.

- Dispensing monitoring – high process security as per EN ISO 15883
- Constant monitoring of the fill level and option to integrate into Miele MOVE to create customised notifications
- For dispensing liquid cleaning agent/neutralising agent
- 352 mm suction lance for 5–10 l media canisters with flexible cap
- Suction lance conversion kit for 10–30 l canisters available from Customer Service

Items	Description	Mat. no.	Article number	EAN
ADP 86	Module with external booster pump for unpressurised demineralised water	12711800	69224100D	4002516873969

Items	Description	Mat. no.	Article number	EAN
PG 8596	Dispensing cabinet for process chemicals and dispenser modules, stainless steel.	10087340	69859602D	4002515558324
PG 8596	Dispensing cabinet for process chemicals and dispenser modules, white.	10087330	69859601D	4002515558317
DOS K 85/1 flex	Dispenser module for 5 litre canister with level indicator for the automatic dispensing of liquid media.	11498920	69747053D	4002516365297
DOS K 85 flex	Dispenser module for 5-10 litre canisters with level indicator for the automatic dispensing of liquid media.	11498880	69747052D	4002516357438
DOS K 85/1 comfort	Dispenser module for 5 litre canister with fill level detection for the automatic dispensing of liquid media.	12831570	69747551DAC	4002516913894
DOS K 85 comfort	Dispenser module for 5-10 litre canister with fill level detection for the automatic dispensing of liquid media.	12831560	69747550DAC	4002516914013

Components for Dispensing Cleaning Agents

PLW 8604



DOS G 80/1 Flex

Peristaltic dispensing pump, for 5 l canisters, with level indicator for automatic dispensing of liquid cleaning agent.

- 214 mm suction lance for 5 l canisters
- Dispenses up to 55 ml per minute
- Flexible vent valve cap



DOS G 80 Flex

Peristaltic dispensing pump, with level indicator for automatic dispensing of liquid cleaning agent.

- 352 mm suction lance for 5 and 10 l canisters
- Dispenses up to 55 ml per minute
- Flexible vent valve cap



DOS G 80/1 Comfort

Hose metering pump for 5 l canisters for automatic dispensing of liquid media, with fill level detection.

- Dispensing monitoring – high process security as per EN ISO 15883
- For dispensing liquid cleaning agent/neutralising agent
- 214 mm suction lance for 5 l canisters
- Dispenses up to 55 ml per minute
- Flexible vent valve cap

Plinths

PLW 8604, PLW 8683, PLW 8693, PLW 8683 CD



UGT 44-60/85

Plinth with door for ergonomic loading and unloading, height 44 cm.

- Offers the option of storing e.g. process chemicals
- H 440, W 600, D 600 mm



BBF-80

Floor bolts to anchor down machine feet.

- For excellent stability in extreme installation situations



DOS G 80 Comfort

Dispensing module for 5–10 l canisters for automatic dispensing of liquid media, with fill level detection.

- Dispensing monitoring – high process security as per EN ISO 15883
- For dispensing liquid cleaning agent/neutralising agent
- 352 mm suction lance for 5–10 l canisters
- Dispenses up to 55 ml per minute
- Flexible vent valve cap

Items	Description	Mat. no.	Article number	EAN
DOS G 80/1 flex	Hose metering pump with level indicator for the automatic dispensing of liquid cleaning agents.	10730810	67747045D	4002516331605
DOS G 80 Flex	Hose metering pump with level indicator for the automatic dispensing of liquid cleaning agents.	10730780	67747040D	4002516331599
DOS G 80/1 comfort	Hose metering pump with fill level indicator for automatic dispensing of liquid cleaning agents.	12187290	67747545D	4002516647980
DOS G 80 comfort	Hose metering pump with fill level indicator for automatic dispensing of liquid cleaning agents.	12187270	67747540D	4002516627944

Items	Description	Mat. no.	Article number	EAN
UGT 44-60/85	Box plinth, with door for ergonomic loading and unloading of the machine.	12680260	69506002D	4002516854906
BBF-80	Floor mounting to anchor the appliance feet.	12612100	67211509D	4002516855279



ProCare Lab – Cleaning Agents

Product overview



ProCare Lab 10 AP – 5 l

Liquid cleaning agent, alkaline, 5 l for the universal machine cleaning of laboratory glassware and utensils.

- Alkaline cleaning agent with a high percentage of dispersants
- Free from surfactants, phosphates and oxidants
- Specially developed for Miele Professional washer-disinfectors
- Suitable for stainless steel, ceramics and plastics
- For cleaning stubborn or dried-on residues



ProCare Lab 10 MA – 5 l

Liquid cleaning agent, alkaline, 5 l for material-saving machine cleaning of laboratory glassware and utensils.

- Universal alkaline cleaning agent
- Free from oxidants and surfactants
- Specially developed for Miele Professional washer-disinfectors
- Suitable for stainless steel, ceramics and plastics
- Effective cleaning for light to medium soiling



ProCare Lab 10 MA – 10 l

Liquid cleaning agent, alkaline, 10 l for material-saving machine cleaning of laboratory glassware and utensils.

- Universal alkaline cleaning agent
- Free from oxidants and surfactants
- Specially developed for Miele Professional washer-disinfectors
- Suitable for stainless steel, ceramics and plastics
- Effective cleaning for light to medium soiling

ProCare Detergents

Liquid cleaning agent

Powder cleaning agent

Neutralising agent

Machine cleaning and care

Accessories



ProCare Lab 11 MA – 10 kg

Powder cleaning agent, alkaline, 10 kg for material-saving machine cleaning of laboratory glassware and utensils.

- Universal alkaline cleaning agent
- Foam-damping properties, free from oxidants
- Specially developed for Miele Professional washer-disinfectors
- Suitable for stainless steel, ceramics and plastics
- Powder cleaning agent for manual dispensing



ProCare Lab 30 C – 5 l

Citric acid-based neutralising agent, acidic, 5 l for material-saving machine cleaning of laboratory glassware and utensils.

- To be used as neutralising agent or acid pre-cleaner
- Free from surfactants and phosphates
- Specially developed for Miele Professional washer-disinfectors
- Suitable for stainless steel, ceramics and plastics
- Removes residues that are soluble in acids from sensitive materials



ProCare Lab 30 P – 5 l

Phosphoric acid-based neutralising agent, acidic, 5 l for machine cleaning of laboratory glassware and utensils.

- To be used as neutralising agent or acid pre-cleaner
- Free from surfactants
- Specially developed for Miele Professional washer-disinfectors
- Suitable for stainless steel, ceramics and plastics
- Removes stubborn residues that are soluble in acids

¹ When using cleaning agents with active chlorine, increased wear of organic materials such as plastics and elastomers in the washer-disinfectant is to be expected. During the cleaning phase with highly chlorinated cleaning agents, a maximum temperature of 75 °C should not be exceeded. To counteract this increased wear and tear, Miele explicitly recommends performing annual machine maintenance, or maintenance after 1000 operating hours. Without maintenance, warranty or guarantee claims may be denied. Please contact Miele Customer Service or request an offer for a maintenance contract.

Items	Description	Mat. no.	Article number	EAN
ProCare Lab 10 AP - 5 l - V1	Liquid cleaning agent, alkaline, 5 l for universal machine cleaning of laboratory glassware and laboratory utensils.	10265620	62924101EU1	4002515659908
ProCare Lab 10 MA - 5 l - V2	Liquid cleaning agent, alkaline, 5 l, for gentle machine cleaning of laboratory glassware and laboratory utensils.	10265670	62923101EU1	4002515660812
ProCare Lab 10 MA - 10 l - V1	Liquid cleaning agent, alkaline, 10 l, for gentle machine cleaning of laboratory glassware and laboratory utensils.	10265680	62923201EU1	4002515660300
ProCare Lab 11 MA - 10 kg - V2	Powder cleaning agent, alkaline, 10 kg, for gentle machine cleaning of laboratory glassware and laboratory utensils.	10266720	62921101EU1	4002515650851
ProCare Lab 30 C - 5 l - V1	Neutralising agent based on citric acid, acidic, 5 l, for gentle machine cleaning of laboratory glassware and laboratory utensils.	10266670	62927101EU1	4002515660744
ProCare Lab 30 P - 5 l - V2	Neutralising agent based on phosphoric acid, acidic, 5 l for machine cleaning of laboratory glassware and utensils.	10266490	62928101EU1	4002515660454

ProCare Lab – Cleaning Agents

Additional technical information

Product designation	Product properties	Main application and soiling	Material compatibility
Cleaning			
ProCare Lab 11 MA Material-saving powder cleaning agent ● Alkaline	<ul style="list-style-type: none"> Contains surfactants Foam-retardant action Does not contain oxidants Can be used at all water hardness levels Graduations are particularly protected 	<p>Main application: Medical, biological and chemical laboratories</p> <p>Soiling: Blood, protein, nutrient residues</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics² (PE, PP, PVDF, PTFE)</p> <p>Conditionally suitable for: Non-anodised aluminium and non-ferrous metals (preliminary checks required)</p> <p>Not suitable for: Anodised aluminium, light metals</p>
ProCare Lab 11 AP Phosphate-free powder cleaning agent ● Alkaline	<ul style="list-style-type: none"> Contains surfactants Oxidising effect Does not contain phosphates Contains oxygen-based bleaching agent 	<p>Main application: Water laboratories, serological institutes, laboratories in the phosphate industry</p> <p>Soiling: Stubborn or dried-on residues, blood</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics² (PE, PP, PVDF, PTFE)</p> <p>Not suitable for: Light and non-ferrous metals, aluminium</p>
ProCare Lab 10 MA Material-saving liquid cleaning agent ● Alkaline	<ul style="list-style-type: none"> Free from oxidants and surfactants Can be used at all water hardness levels Contains phosphates 	<p>Main application: Medical, biological and chemical laboratories</p> <p>Soiling: Blood, protein, nutrient residues</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics² (PE, PP, PVDF, PTFE)</p> <p>Conditionally suitable for: Non-anodised aluminium and non-ferrous metals (preliminary checks required)</p> <p>Not suitable for: Anodised aluminium, light metals</p>
ProCare Lab 10 AP Phosphate-free liquid cleaning agent ● Alkaline	<ul style="list-style-type: none"> Free from surfactants, phosphates, oxidants and silicates Suitable for a variety of materials 	<p>Main application: Medical, biological, micro-biological and chemical laboratories, water laboratories, phosphate industry, laboratories in food processing, cosmetics, pharmaceutical, mineral oil and other industries</p> <p>Soiling: Stubborn and dried-on residues</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics² (PE, PP, PVDF, PTFE)</p> <p>Not suitable for: Light and non-ferrous metals, aluminium</p>
ProCare Lab 10 AT Surfactant-containing liquid cleaning agent ● Alkaline	<ul style="list-style-type: none"> Contains surfactants Free from phosphates, oxidants and silicates Can be used at all water hardness levels Suitable for a variety of materials 	<p>Main application: Laboratories in the food, cosmetics, pharmaceutical and mineral oil industries, etc.</p> <p>Soiling: Stubborn residues such as oils, greases, paraffins, resins, organic dyes</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics² (PE, PP, PVDF, PTFE)</p> <p>Not suitable for: Light and non-ferrous metals, aluminium</p>
ProCare Lab 10 AO Chlorine-containing liquid cleaning agent ¹ ● Alkaline	<ul style="list-style-type: none"> Does not contain surfactants and surface-active agents Oxidising effect Suitable for a variety of materials 	<p>Main application: Micro-biological, virological, nuclear medical laboratories, food industry, paints and coatings</p> <p>Soiling: Nutrient residues, blood, protein, radio-active contamination, residue of tissue and cell cultures</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics² (PE, PP, PVDF, PTFE)</p> <p>Not suitable for: Light and non-ferrous metals, aluminium</p>
Neutralisation			
ProCare Lab 30 C Neutralising agent based on citric acid ● Acidic	<ul style="list-style-type: none"> Free from surfactants, phosphates and oxidants Mild in use Can be used as neutralising agent or acid pre-cleaner 	<p>Main application: Medical, biological, micro-biological and chemical laboratories, water laboratories, phosphate industry, laboratories in food processing, cosmetics and pharmaceutical industries</p> <p>Soiling: Limescale and other soils soluble in acids</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics³ (PE, PP, PVDF, PTFE); additionally suitable for the neutralisation of non-anodised aluminium</p> <p>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</p>
ProCare Lab 30 P Neutralising agent based on phosphoric acid ● Acidic	<ul style="list-style-type: none"> Free from oxidants and surfactants High performance Excellent rinsing properties Can be used as neutralising agent or acid pre-cleaner 	<p>Main application: Medical, biological, microbiological and chemical laboratories, laboratories in the food, cosmetics, pharmaceutical and mineral oil industries, etc.</p> <p>Soiling: Limescale and other soils soluble in acids</p>	<p>Suitable for: Stainless steel, laboratory glassware, ceramics, plastics³ (PE, PP, PVDF, PTFE)</p> <p>Not suitable for: Light alloys and non-ferrous metals, chrome- and nickel-plated parts, aluminium</p>

¹ Note: When using cleaning agents with active chlorine, increased wear of organic materials such as plastics and elastomers in the laboratory washer is to be expected. A temperature of 75 °C should therefore not be exceeded in cleaning phases when using cleaning agents 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 Customer Service or request an offer for a maintenance contract.

² Glass and plastics suitable for alkaline machine-based cleaning according to manufacturer.

³ Glass and plastics suitable for acidic machine-based cleaning according to manufacturer.

ProCare Universal – Machine Cleaning and Care

for Miele Professional machines



ProCare Universal 61 – 6 kg

Reactivation salt, 3 x 2 kg, for regeneration of the integrated softener.

- Prevents limescale and protects load items



ProCare Universal 70 ST – 750 ml

Universal cleaning agent, mildly alkaline, 750 ml, for gentle removal of grease residue and soil.

- Effective high concentrate for optimum cleaning results
- Very gentle on materials
- Excellent dissolving power for oil and grease
- Recommended for Miele Professional and Steelco stainless steel machines
- Awarded EU Ecolabel
- Recyclable packaging



ProCare Universal 77 A – 500 g

Machine cleaner, alkaline, 500 g for removal of stubborn starch residues.

- Removal of grease deposits
- Reduction in odours
- Specially developed for Miele Professional machines



ProCare Universal 81 C – 250 g

Machine descaler, acidic, 250 g to remove stubborn limescale.

- Removal of silicate deposits
- Prolongs service life of heater elements
- Specially developed for Miele Professional machines



CK/1 DIN 51

Canister key to open 5 l, 10 l and 20 l ProCare media canisters.

- Sturdy and durable manual key
- Easy to open and close media canisters without force
- Can be used on both sides



DTD 2

Drip tray for the secure placement of ProCare media canisters.

- Space for 2 ProCare media canisters
- Secure place for 5 and 10 l canisters from the ProCare series
- Optimum residual emptying of the media canister due to angle
- Suitable for use in an adjacent unit

Items	Description	Mat. no.	Article number	EAN
ProCare Universal 61 - 6 kg	Dishwasher salt, 3 x 2 kg for optimum regeneration of the integrated softener.	9195780	66916102EU1	4002515075319
ProCare Universal 70 ST - 750 ml	Multi-purpose cleaner, mildly alkaline, 750 ml for gently removing grease residues and contamination.	12938290	66917702V1	4002516954507
ProCare Universal 77 A - 500 g	Machine cleaner, alkaline, 500 g for removing persistent starch deposits.	12456030	66921701V1	4002516771524
ProCare Universal 81 C - 250 g	Machine descaler, acidic, 250 g for removing persistent limescale deposits.	12456130	66920601V1	4002516770862
CK/1 DIN 51	Canister code for easy opening of ProCare 5 l, 10 l and 20 l media canisters.	11851600	66990002EU1	4002516480839
DTD 2	Drip tray for the secure placement of media canisters.	10695460	61910001D	4002515933695

ProCare Universal – Machine Cleaning and Care

for Miele Professional machines



DV 1 DIN 51

Drain tap for simple pouring of ProCare liquid products.

- Quick and easy dispensing without spillages
- DIN 51 screw cap for 5 and 10 l ProCare media canisters
- Smooth lever for easy opening and closing



MB1 250

Measuring beaker, 250 ml, for easy dispensing of ProCare products.

- Stackable measuring beaker with strong handle
- Printed with ml scale in increments of 5 ml
- For precise dispensing of liquid and powder products



Items	Description	Mat. no.	Article number	EAN
DV1 DIN51	Drain valve for easy pouring of ProCare liquid products.	12594480	59713001V1	4002516815440
MB1 250	Measuring beaker, 250 ml for easy dispensing of ProCare products.	12594330	59712001V1	4002516805953



Communication and Process Documentation

Components for networking and reports



XKM 3200 WL LMD 86

Communication module for PLW 868x/9x, for connection to Miele MOVE, Segosoft Miele Edition or other documentation software.

- State-of-the-art connection to Miele MOVE
- Secure transmission via Ethernet
- REST interface with data provision in JSON format
- Flexible operation on local networks
- Up to a maximum of 20 process protocols are stored in the machine
- H/W/D: 3.90 cm, 8.80 cm, 11.00 cm



XKM 3200 WL LMD

Communication module, for connecting the PG 858x/9x to Miele MOVE, Segosoft Miele Edition or other documentation software.

- State-of-the-art connection to the Miele Cloud Service
- Secure transmission over encrypted WiFi or Ethernet
- REST interface with data provision in JSON format
- Flexible operation on local networks
- Up to 30 process protocols are stored in the machine
- H/W/D: 3.90 cm, 8.80 cm, 11.00 cm



XKM 3000 L Med

Communication module for PG 858x/9x with Ethernet interface for integration in a network.

- Ring buffer for up to 30 process protocols and 2 graphic protocols
- Additional components for direct/network connection not required
- DHCP support for automatic selection of network parameters
- Transmission speed: 10/100 Mbit/s
- Length of mains connection cable: 1.5 m; cable extension possible
- H/W/D: 3.90 cm, 8.80 cm, 11.00 cm

Communication and Process Documentation

Components for networking and reports

Miele MOVE

Segosoft Miele Edition



XKM RS 232 10 Med

Communication module with serial interface (RS 232) for connection to a printer.

- Compatible with PG 858x/9x
- Ring buffer for max. 25 process protocols
- Differentiation between short and long protocols
- Transmission speed: max. 38 kBit/s
- Length of mains connection cable: 1.5 m; extension up to 15 m possible
- H/W/D: 3.90 cm 8.80 cm 11.00 cm

Items	Description	Mat. no.	Article number	EAN
XKM 3200 WL LMD86	Communication module für PLW 868x/9x for connection to Miele MOVE, the Segosoft Miele Edition or other software.	12611070	68822104D	4002516866527
XKM 3200 WL LMD	Communication module für PG 858x/9x for connection to Miele MOVE, the Segosoft Miele Edition or other software.	11795280	68822103D	4002516567226
XKM 3000 L Med	Communication module with Ethernet interface for PG 858x/9x for integration into a network.	10440980	68822102D	4002515727218
XKM RS 232 10 Med	Communication module with serial interface (RS232) for connection to a printer.	10444420	68822002D	4002515832394

Communication and Process Documentation

Miele MOVE Connect – your digital solution for efficient machine, data and process management



Miele MOVE Connect

Free introduction to the digital management of Miele Professional machines.

- Meaningful consumption data*
- Transparent machine status and automatic updates
- Clear operating data and general process documentation
- Comprehensive remote service support
- Personalised overview and helpful notifications
- Unlimited machine networking and unlimited number of users
- Free usage of all basic functions

* The availability of consumption data depends on the machine type.

More information on Miele MOVE Connect

www.miele.co.uk/pro/move

Process Documentation

Segosoft Miele Edition – a certified approach to security



APS 101 Sego

Segosoft Miele Edition (licence), for connection of one machine.

- User-controlled release of process protocols for all machines
- Protection from manipulation thanks to advanced digital signature
- Future-oriented product with regard to regulatory requirements
- Only process documentation software with a quality seal
- ServiceCard guarantees product-compliant operation
- H 1, W 86, D 55 mm

System requirements for all software systems

- CPU rate of at least 3 GHz, 4 GHz or higher recommended
- SVGA graphics with 1024 x 768 pixels, 21" monitor or larger,
- HD 1920 x 1080 pixels recommended
- RAM at least 4 GB, 8 GB recommended
- Hard drive with at least 256 GB free memory, 500 GB or higher recommended
- Min. 2 USB ports, 3 recommended, network interface
- Internet access
- Operating systems: Windows 11
- Adobe Acrobat Reader, Version 11.08 or higher
- Backup system recommended

Software download

- <http://www.miele.de/pro/sego>

Required additional service from Miele service partner:

ServiceCard and services (obligatory for Segosoft Miele Edition!)

- Update of digital signature extending legal validity
- Telephone support, software updates
- Flat-rate net fee per laboratory: €247.25

Note: Legal validity of digital signatures in Segosoft Miele Edition in accordance with BSI (German Federal Office of Data Security). An extension of this legal validity is provided by the ServiceCard. (Annual fee per laboratory: €247.25)

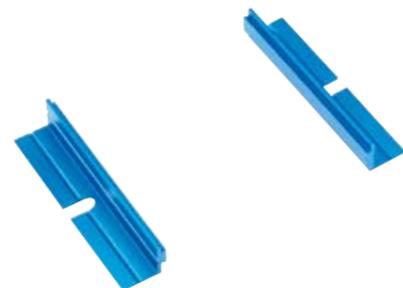
¹ Required additional service: ServiceCard (software maintenance/support)

Items	Description	Mat. no.	Article number	EAN
Miele MOVE Connect	Miele MOVE – Connect: the free access to digital management of Miele Professional appliances.	12804200	-	4002516887850

Items	Description	Mat. no.	Article number	EAN
APS 101 Sego	Segosoft Miele Edition (additional licences) for connecting one machine.	10019160	68813002D	4002515570708

Process Documentation

Components and accessories



APH 190

Wall bracket for Segosoft modules.

- Suitable for APH 110 Net500 network converter
- Suitable for APH 100 Serial Industrial Converter
- Scope of delivery: 2 metal brackets incl. screws



APH 302

Connection cable, for connection of machine with serial interface to PC.

- Null modem cable, length 3 m



APH 303

Extension cable, 3 m, to extend connection cable APH 301 and APH 302.



APH 406

Network cable, for network connection, length 3 m.

- Cable category 6
- Colour: transparent silver



APH 407

Network cable, for network connection, length 5 m.

- Cable category 6
- Colour: transparent silver



APH 408

Crossover network cable, for direct PC connection, length 3 m.

- Cable category 6
- Colour: white
- Used for the direct connection of Miele machines



APH 304

Extension cable, 5 m, to extend connection cable APH 301 and APH 302.



APH 305

Extension cable, 10 m, to extend connection cable APH 301 and APH 302.



APH 409

Crossover network cable, for direct PC connection, length 5 m.

- Cable category 6
- Colour: white
- Used for the direct connection of Miele machines



APH 510 PRT 110

Report printer for process protocols.

- Dot matrix printer with colour ribbon
- Compatible with Miele PG 8583, PG 8593, PG 8583 CD and PLW 6x11 laboratory washers
- H/W/D: 15.70 cm 16.00 cm 23.90 cm



APH 530

Connection cable, for interruption-free connection to printer.

- Compatible with APH 510 PRT 110 report printer
- Length: 10 m

Items	Description	Mat. no.	Article number	EAN
APH 190	Wall bracket for Segosoft modules.	9573570	68811004D	4002515350980
APH 301	Cable for connection of a machine with serial interface to a PC.	7951420	68815201D	4002514940526
APH 302	Cable for connection of a machine with serial interface to a PC.	7951410	68815101D	4002514940519
APH 303	Cable 3 m, for extension of APH 301 and APH 302 connection cables.	7951430	68815301D	4002514940533
APH 304	Cable 5 m, for extension of APH 301 and APH 302 connection cables.	7951440	68815401D	4002514940540
APH 305	Cable 10 m, for extension of APH 301 and APH 302 connection cables.	7951450	68815501D	4002514940557

Items	Description	Mat. no.	Article number	EAN
APH 406	Cable for connection to the network, length 3 m.	7951470	68815701D	4002514940571
APH 407	Cable for connection to the network, length 5 m.	7951480	68815705D	4002514940588
APH 408	Crossover network cable for direct connection to PC, length 3 m.	7951490	68815801D	4002514940595
APH 409	Crossover network cable for direct connection to PC, length 5 m.	7951500	68815805D	4002514940601
APH 510 PRT 110	Report printer for printing process reports.	11053310	68817004D	8809166679332
APH 530	Connection cable for uninterrupted connection to the printer.	6095260	68817201D	4002513532609

Process Documentation

Components and accessories



APH 531

Adapter, for connecting Miele printer cable to machine.

- 9-pole adapter, for serial connections
- Male/female connection
- H/W/D: 12/31/17 mm



APH 591

Paper reel for APH 510 PRT 110 report printers.

- 5 paper reels per pack
- Width: 76 mm
- H/W/D: 79/76/79 mm



APH 592

Colour ribbon for APH 510 PRT 110 report printer.

Items	Description	Mat. no.	Article number	EAN
APH 531	Adapter for connecting the Miele printer cable to the machine.	9573970	68815507D	4002515350997
APH 591	Paper roll for protocol printer APH 510 PRT110.	9063410	68817003D	4002515000038
APH 592	Colour transfer ribbon for protocol printer APH 510 PRT110.	11053500	68817005D	8809166675907

Process Documentation

Overview

Process documentation							
		Direct connection between PC and machine		Connection via practice network			Printer
		Option 1:	Option 2:	Option 3:	Option 4:	Option 5:	
		Connection of PC to machine via serial interface	Connection of PC to machine with communication module (Ethernet, WiFi) or WiFi onboard	Network connection to machine with serial interface	Network connection to machine with machine network interface (Ethernet, WiFi)	Network connection to machines with XKM 3200 WL LMD86, XKM 3200 WL LMD or XKM 3000 L Med communication module	
		e.g. Miele PLW 6111 laboratory washer	e.g. Miele ExpertLine PLW 868x/9x laboratory washer (possibly with XKM 3200 WL LMD86)	e.g. Miele PLW 6111 laboratory washer	e.g. Miele PLW 7111 or ExpertLine PLW 868x/9x laboratory washer	e.g. Miele ExpertLine PLW 868x/9x or PG 858x/9x laboratory washers	e.g. Miele PG 858x/9x laboratory washer (incl. XKM RS 232 10 Med)
Miele MOVE digitalisation solution		Mat. no.					
Miele MOVE Connect for PLW 868x/9x (possibly with XKM 3200 WLLMD86), PG 858x/9x and PLW 7111 laboratory washers	12804200				X	X (not with XKM 3000 L Med) or XKM 3200 WL LMD	
Segosoft Miele Edition		Mat. no.					
APS 101 Sego – Segosoft Miele Edition (licence) ¹	10019160	X	X	X	X	X	
APH 301 – connection cable, serial, 3 m	7951420	X (depending on model)		X (depending on model)			
APH 302 – connection cable, serial, 3 m	7951410	X (depending on model)		X (depending on model)			
APH 100 – Serial Industrial Converter	9574000	X (optional with two machines)					
APH 303 – extension cable, 3 m for connection cable APH 301 and APH 302	7951430	Optional					
APH 304 – extension cable, 5 m for connection cable APH 301 and APH 302	7951440	Optional					
APH 305 – extension cable, 10 m for connection cable APH 301 and APH 302	7951450	Optional					
APH 110 Net500 – network converter (RS 232 to RJ 45)	9687440			X			
APH 406 – network cable, 3 m (network connection)	7951470			X (depending on required length)	X (depending on required length)	X (depending on required length)	
APH 407 – network cable, 5 m (network connection)	7951480			X (depending on required length)	X (depending on required length)	X (depending on required length)	
APH 408 – network cable, crossover, 3 m (direct connection to PC)	7951490		X (depending on required length)				
APH 409 – network cable, crossover, 5 m (direct connection to PC)	7951500		X (depending on required length)				
APH 510 PRT 110 – report printer, serial interface	11053310						X
APH 530 – printer cable 10 m, serial, for APH 510 PRT 110 printer	6095260						X
APH 531 – null modem adapter for printer cable	9573970						X
RJ 45 connector	7076891					Optional (If cable extension is required. Cable length XKM module 1.5 m.)	

X = required, ¹necessary additional service: ServiceCard, software maintenance

Protection First: Hygienic Cleaning of Lab Coats



In order to protect oneself and others, it is particularly important to subscribe to hygiene rules. Our Little Giants washing machines and dryers provide support in effectively cleaning lab coats and other items of personal protective equipment.

Washing protective clothing on site offers many benefits. It saves both time and money compared with contracting out laundry services. Increased process control also ensures that clothing is thoroughly cleaned in compliance with the highest of quality standards. This also increases the safety of employees in this area.

The Machines Make the Difference – All Aspects Must Be Just Right

The washing and drying programmes on our laundry machines are the product of decades of experience and offer application technology which is tailored to individual textiles. In combination with Miele's own ProCare Tex detergents and care products, this guarantees perfect wash results. The care of laundry on site also dispenses with unnecessary transportation. You are in full control of the quality of wash performance and immaculately clean textiles are ready for use again in next to no time.

And you have access to matching dryers for the washing machines from the Little Giants series.

The sophisticated product features on Little Giants simplify everyday work in laboratories:

- Short running times: washing and drying programmes lasting only 91 minutes¹
- Small footprint of less than 1 m²
- Intuitive touch display
- Honeycomb drum for gentle but thorough cleaning
- Product longevity: designed for 30,000 programme sequences
- Large selection of channel-specific washing and drying programmes
- Thorough cleaning to help support infection control
- Low consumption values and running costs thanks to efficient design and build quality
- All machines offer connectivity in the form of Miele MOVE, permitting integration into the laboratory environment



Safe laundry care.

A disinfecting wash in accordance with valid regulations can currently only be safely performed in commercial washing machines. Our washing machines from Miele Professional feature recognised disinfection programmes which ensure compliance with critical process parameters such as temperatures and temperature holding times.

Thoroughly dried.

Moisture promotes the propagation of germs, in particular fungi, bacteria and other single-celled organisms. Consequently, it is imperative that textiles are fully and uniformly dried after washing. Only then can disinfected textiles be stored under controlled conditions until next used.

Additional hygiene and safety

Miele ProHygiene: monitoring of disinfection performance in wash process using bio-indicators



¹ When using a PWM 507 with a programme running time of 49 minutes in the 60 °C programme and with a hot water connection and drying with PDR 508 ROP EL vented dryer with a running time of 42 mins.

The benefits of perfect quality management in laundry care in a laboratory



- Cleaning of lab coats in full compliance with guidelines
- Washing with approved and efficient disinfecting programmes
- Disinfection wash process is continuously monitored



- Simple logistics in a closed-loop in-house system
- Clean workwear ready for use again faster
- Cost-efficient cleaning, even of small loads

Disadvantages and uncontrollable risks of reprocessing laundry in private households



- Contaminated laundry transported through public areas
- Possible cross-contamination of private laundry
- Domestic washing machines lack suitable disinfection programmes



- Time-consuming laundry care (more workwear must be stored to ensure availability)
- Possible contamination of laundry during transportation from private home to laboratory

LITTLE GIANTS Hygienic Washing Machines

Load capacity 7 kg / M Select controls / Performance



Washing machine	PWM 507 Hygiene
Programme controls	M Select
Load size [kg]	7
Drum volume [l]	64
Max. spin speed [rpm]	1600
g-factor/residual moisture ¹ [%]	704/45
Running time ² [min]	49
Heating type	EL
Drainage [DP DN 22 / DV DN 70]	DP or DV
Front colour/material	LW or SST
External dimensions H/W/D [mm]	850/596/714

EL = electric, DP = drain pump, DV = drain valve, LW = lotus white, enamelled, SST = stainless steel
¹ Residual moisture after hot final rinse, ² Running time in Coloured items 60 °C programme, hot water connection

Items	Casing/ front	Load	Standard electrical connection –		Possible voltage variant(s) –		Material number	Article number	EAN
			Heater rating kW – Total rated load kW – Fuse rating A	Heater rating kW – Total rated load kW – Fuse rating A	Heater rating kW – Total rated load kW – Fuse rating A	Heater rating kW – Total rated load kW – Fuse rating A			
PWM 507 Hygiene [EL DV-1]	LW	7 kg	2N~ 400V 50Hz - 5,3 - 5,5 - 13 A	230V~ - 2,65 - 2,85 - 13 A	11588410	51507241GB	4002516361718		
PWM 507 Hygiene [EL DV-1]	LW	7 kg	230V~ - 5,3 - 5,5 - 25 A	- - -	11588400	51507244GB	4002516361824		

Hygiene model version

- Designed to meet the need for greater hygiene, e.g. in laboratories
- Safe disinfection through numerous disinfection programmes, including RKI-listed programmes

M Select controls

- Rotary control and segment touch display
- Language-neutral programme symbols on control panel
- Touch display with all information in local language, 29 languages

Highlights

- Exclusive to Miele: gentle and thorough laundry care thanks to honeycomb drum and perforated drum rear panel for fast wetting of laundry
- Very low residual moisture levels on account of high g-factor
- Installation as space-saving washer-dryer stack possible

Optional accessories

- Plinths for ergonomic loading and unloading
- Dispensing adapter and pumps for automatic dispensing of liquid detergents

XCI box

- Communication unit for connection to dispensing pumps and energy management systems

LITTLE GIANTS Tumble Dryers

Load capacity 8 kg / M Select controls / Performance



Tumble dryer	PDR 508 ROP EL	PDR 508 HP P
Programme controls	M Select	M Select
Drying system	Vented system	Heat pump ²
Load size [kg]	8	8
Drum volume [l]	130	130
Running time Cottons/Mixed loads ¹ [min]	42/37	79/67
Heating type	EL	HP
Heater rating [kW]	6.14	-
Vented system	DN 100	-
Front colour/material	LW or SST	LW or SST
External dimensions H/W/D [mm]	850/596/717	850/596/777

ROP EL = electric, vented, HP P = propane heat pump, LW = lotus white, SST = stainless steel, *Contains natural refrigerant, hermetically sealed; refrigerant R290, refrigerant quantity 0.149 kg, GWP of refrigerant: 3 kg CO₂e, GWP of machine: 0.45 kg CO₂e

Items	Casing/ front	Load	Standard electrical connection –		Possible voltage variant(s) –		Material number	Article number	EAN
			Heater rating kW – Total rated load kW – Fuse rating A	Heater rating kW – Total rated load kW – Fuse rating A	Heater rating kW – Total rated load kW – Fuse rating A	Heater rating kW – Total rated load kW – Fuse rating A			
PDR 508 ROP [EL]	LW	8 kg	230V~ 50/60HZ - 2,76 - 2,99 - 13 A	- - -	12752490	52508363GB	4002516870913		
PDR 508 ROP [EL]	LW	8 kg	230V~ 50/60HZ - 5,22 - 5,47 - 25 A	- - -	12752510	52508364GB	4002516870630		
PDR 508 HP P [EL]	LW	8 kg	220-240V~ 50HZ - - 1,44 - 13 A	- - -	12752560	52508163GB	4002516871002		

M Select controls

- Rotary control
- Language-neutral programme symbols on control panel
- Touch display with all information in local language, 29 languages
- Numerous special programmes as standard, e.g. Hygiene

Highlights

- Exclusive to Miele: gentle and uniform drying with new patented honeycomb drum
- Spot-on drying results thanks to the PerfectDry system
- Time savings and convenience thanks to large fluff filters on vented dryers and excellent performance on heat-pump dryers thanks to a patented heat exchanger filter system
- High efficiency through maintenance-free, energy-saving drive motor
- Installation as space-saving washer-dryer stack possible

Highlights – heat-pump dryers

- Flexible installation without the need for vent ducting
- Up to 60 % energy savings compared with a conventional condenser dryer
- The use of propane as a refrigerant reduces the GWP (global warming potential) by up to 99.8 %.

Optional accessories

- Plinths for ergonomic loading and unloading

XCI box

- Communication module for setting up a connection with external systems

Dishwashing in the Staff Kitchen – Hygienic, Safe and Fast

ProfiLine

SmartBiz / ProfiLine Dishwashers from PFD 10x Series

Front loader / fresh-water system



Miele commercial dishwashers are in their element, producing sparkling results, wherever domestic appliances are stretched to their limit. Our ProfiLine machines operating on the fresh-water system are geared to commercial use, with short running times and long-lasting product quality designed for multiple cycles per day. Combined with the ProCare Shine detergents and optional automatic dispensing of liquid products, optimum cleaning results are guaranteed, even when products are operated by different users.



Very short programme running times

3-phase connection, intelligent wash technology and two high-performance pumps achieve short programme running times of as little as 17 minutes without any trade-off in terms of cleaning results.

¹ European patent EP 2433549B1
² European patent EP 2120671B1
³ Min. requirements: Android 4.2+ / iOS 9+



AutoOpen assisted drying²

Excellent drying results, even on challenging load items, thanks to automatic door opening.

Miele ProfiLine dishwashers are fully compliant with safety regulations governing commercially used dishwashers (machines used outside a private home) as embodied in EU Machinery Directive 2006/42/EC.



Further highlights of ProfiLine PFD 10x series



Flexible baskets + 3D MultiFlex tray¹

We have improved the cutlery tray on your dishwasher so it can now also accommodate small items such as espresso cups.

Intuitive user interface

These models are as easy to operate as their domestic counterparts. Thanks to the design of the control panel and its self-explanatory symbols, ProfiLine dishwashers are language-neutral.



Knock2open (PFD 104 SCVi only)

Tap the front of fully integrated Miele dishwashers twice and the door will open automatically by about 10 cm thanks to a clever opening mechanism.

Virus Seal of Approval in Gold

Efficacy in combatting enveloped and non-enveloped viruses has now been scientifically confirmed (certification by InFluenc_H – Institute for Integrative Hygiene and Virology)



Dishwasher	PFD 100 SmartBiz	PFD 101	PFD 101 U	PFD 101 i
Construction type	Freestanding machine	Freestanding machine	Built-under machine	Integrated machine
Capacity [place settings/cycle]	13	13	13	13
Shortest programme running time [min]	36	17	17	17
Programmes	8	8	8	8
External dimensions H/W/D [mm]	845–880/598/600	845–880/598/600	805–870/598/570	805–870/598/570
Water connections	CW or HW, max. 60 °C			
Water softener	◆	◆	◆	◆
Electrical connection AC 230 V, 50 Hz	◆	Optional	Optional	Optional
Electrical connection 3N AC 400 V, 50 Hz	–	◆	◆	◆
Total rated load [kW]	2.1	7.3	7.3	7.3

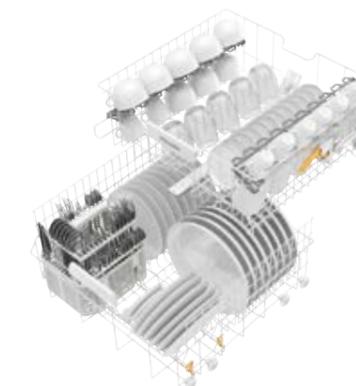
Items	Front – control panel	Baskets	Standard electrical connection – Heater rating kW – Total rated load kW – Fuse rating A	Possible voltage variant(s) – Heater rating kW – Total rated load kW – Fuse rating A	Material number	Article number	EAN
PFD 100 SmartBiz	BW / PA CLST	with baskets	AC 230V 50Hz - 1,9 - 2,1 - 13 A	- - -	11867900	61010000GB	4002516463603
PFD 101	BW / PA CLST	with baskets	AC 230V 50Hz - 1,9 - 2,1 - 13 A	AC 230V 50Hz - 6,1 - 6,3 - 32 A	11605560	61010100GB	4002516367017
PFD 101	BW / PA CLST	with baskets	AC 230V 50Hz - 6,1 - 6,3 - 32 A	AC 230V 50Hz - 1,9 - 2,1 - 13 A	11807820	61010110GB	4002516446132
PFD 101 U	BW / PA CLST	with baskets	AC 230V 50Hz - 1,9 - 2,1 - 13 A	AC 230V 50Hz - 6,1 - 6,3 - 32 A	11605630	61010102GB	4002516367031
PFD 101 i	WF / PA CLST	with baskets	AC 230V 50Hz - 1,9 - 2,1 - 13 A	AC 230V 50Hz - 6,1 - 6,3 - 32 A	11605600	61010101GB	4002516367024
PFD 101 i	WF / PA CLST	with baskets	AC 230V 50Hz - 6,1 - 6,3 - 32 A	AC 230V 50Hz - 1,9 - 2,1 - 13 A	11808020	61010111GB	4002516446163

PFD 100 SmartBiz PFD 101, PFD 101 U, PFD 101 i

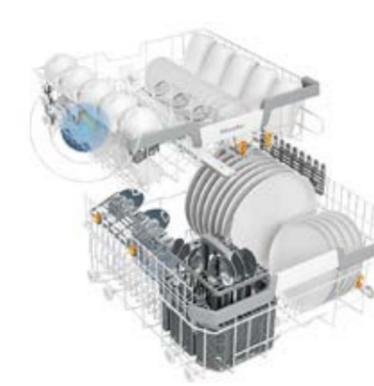
- Entry-line models for staff and office kitchens
- Ideal for up to 5 wash cycles per day

Plus

- With baskets as standard
- High-level user convenience through wide range of product features
- Integrated water softener and liquid dispensing connection (external dispensing module)
- A variety of construction types for the perfect place-of-use integration
- WiFi as standard



Comfort basket set (PFD 100 SmartBiz)



ExtraComfort P baskets (PFD 101 and PFD 102)

ProfiLine Dishwashers from PFD 10x Series

Front loader / fresh-water system



Dishwasher	PFD 102 i	PFD 103 SCi XXL	PFD 104 SCVi XXL
Construction type	Integrated machine	Integrated machine	Fully integrated machine
Capacity [place settings/cycle]	13	14	14
Shortest programme running time [min]	17	17	17
Programmes	8	8	8
External dimensions H/W/D [mm]	805–870/598/570	845–910/598/570	845–910/598/570
Water connections	CW or HW, max. 60 °C	CW or HW, max. 60 °C	CW or HW, max. 60 °C
Water softener	◆	◆	◆
Electrical connection AC 230 V, 50 Hz	Optional	Optional	Optional
Electrical connection 3N AC 400 V, 50 Hz	◆	◆	◆
Total rated load [kW]	7.3	7.3	7.3

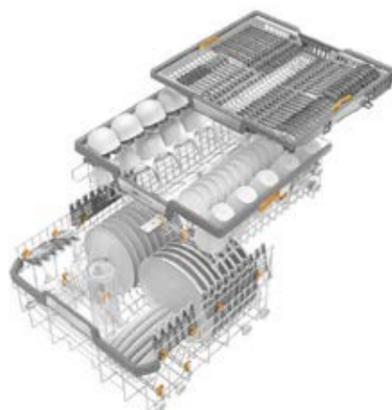
Items	Front – control panel	Baskets	Standard electrical connection – Heater rating kW – Total rated load kW – Fuse rating A	Possible voltage variant(s) – Heater rating kW – Total rated load kW – Fuse rating A	Material number	Article number	EAN
PFD 103 SCi XXL	WF / PA CLST	with baskets	AC 230V 50Hz - 6,1 - 6,3 - 32 A	AC 230V 50Hz - 1,9 - 2,1 - 13 A	11808080	61010314GB	4002516446187
PFD 104 SCVi XXL	WF	with baskets	AC 230V 50Hz - 1,9 - 2,1 - 13 A	AC 230V 50Hz - 6,1 - 6,3 - 32 A	11605720	61010405GB	4002516367062
PFD 104 SCVi XXL	WF	with baskets	AC 230V 50Hz - 6,1 - 6,3 - 32 A	AC 230V 50Hz - 1,9 - 2,1 - 13 A	11808100	61010415GB	4002516446194

PFD 102 i, PFD 103 SCi XXL, PFD 104 SCVi XXL

- Integrated dishwashers for staff and office kitchens
- Ideal for up to 5 wash cycles per day

Plus

- 3D MultiFlex tray (PFD 103 SCi XXL, PFD 104 SCVi XXL)
- With baskets as standard
- BrilliantLight interior lighting
- High-level user convenience through wide range of product features
- Integrated water softener and liquid dispensing connection (external dispensing module)
- Perfect integration into handleless kitchens (PFD 104 SCVi XXL)
- WiFi as standard



**MaxiComfort P basket set
(PFD 103 and PFD 104)**

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A 802	78	APLW 511	55	ID 160	77
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Abbreviations

Explanation of abbreviations	
AD	Connection for demineralised water (DI water)
ADP	Feed pump for unpressurised demineralised water
AE	Stainless steel casing
ATC	Automatic conveyor system connection
ATT	Automatic transfer trolley
AW	White casing
BO	Boiler
BW	Brilliant white
CD	Machine variant with 90 cm width and active drying
CL	Wash cabinet lighting
CLST	Stainless steel
CM	Conductivity meter
CS	Conductivity meter
CT	Combi tank
DC 10	Suction lance with fill level detection, 10 l
DC 5	Suction lance with fill level detection, 5 l
DP	Drain pump
DS	Dispensing system
DS 10	Suction lance with empty sensing, 10 l
DS 5	Suction lance with empty sensing, 5 l
DU	Drying unit
DV	Drain valve
EL	Electric heating
EL/S	Steam/Electric heating
FAD	Exhaust ducting to the front
FP	Plinth, fixed
GD	Glass door
H14	HEPA H14 filter
HLR	Version with bellows-type dispensing pumps
HP	Heat pump
HP P	Propane heat pump
i	Integrated
LAB	Variant for laboratory
LAN	Integrated Ethernet interface
LD	Liquid dispensing
LFM	Conductivity meter
LW	Lotus white
MON	Monitoring equipment (LFM, spray arm monitoring, dispensing monitoring)
OIL	Version with more oil- and grease-resistant seals
OXI/ORTHOVARIO	Version with OXIVARIO and ORTHOVARIO
PA	Panel
PD	Powder dispensing
PR	Printer
RFID	Radio-frequency identification
RFK	Retrofitting kit
ROP	Residual moisture controls
RP	Plinth, on wheels
RT	Recycling tank
RV	Room air intake
Safety	Variant for fire brigade
SC	Steam condenser
SCi	Integrated dishwasher with 3D+ cutlery tray/3D Multiflex tray
SCVi	Fully integrated dishwasher with 3D+ cutlery tray/3D Multiflex tray
Set DOS	Set with external dispensing module
SST	Stainless steel
SST	Serial interface
SV	Water sampling
TC	Top-box panelling
TH	Heated tank
TT	Transfer trolley
U	Built-under machine
UL	Certified components for USA/CDN
USB	USB connection
WB	White/black casing
WF	Without front
WS	Water softener
HW	Hot water connection
XXL	Extra-large wash cabinet

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