



# Product Overview

## Solutions for Laboratories

Miele Professional. Immer Besser.



Edition 1 | January 2024





# Caring for Our Customers With the Most Reliable and Sustainable Solutions.



## **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, all benefiting from low consumption and running costs.

You have the reassurance that Miele Professional develops the best and most inspiring solutions for our customers. Our guiding principle of 'Immer Besser' 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  
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1899 — **125** Years — 2024



# Explore Our Solutions

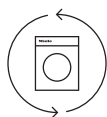
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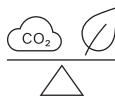
Find all information here:  
[www.miele.co.uk/p/](http://www.miele.co.uk/p/)

## Our Pledges for the Planet

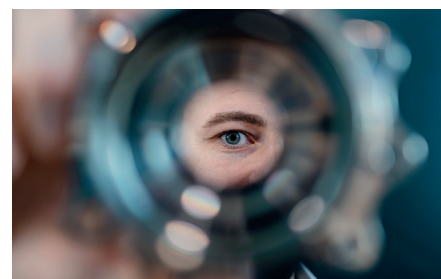
The race to save our only planet is ever-accelerating. Our commitment to evolve our ambitions is too. With these pledges, we intend to continue along the path we have already embarked on:



**Make sustainability happen at every step**  
 We continuously work towards making sustainability essential at every stage of our products' and services' life cycle – as well as in all of our value chains, 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 to make them 100% carbon-neutral.

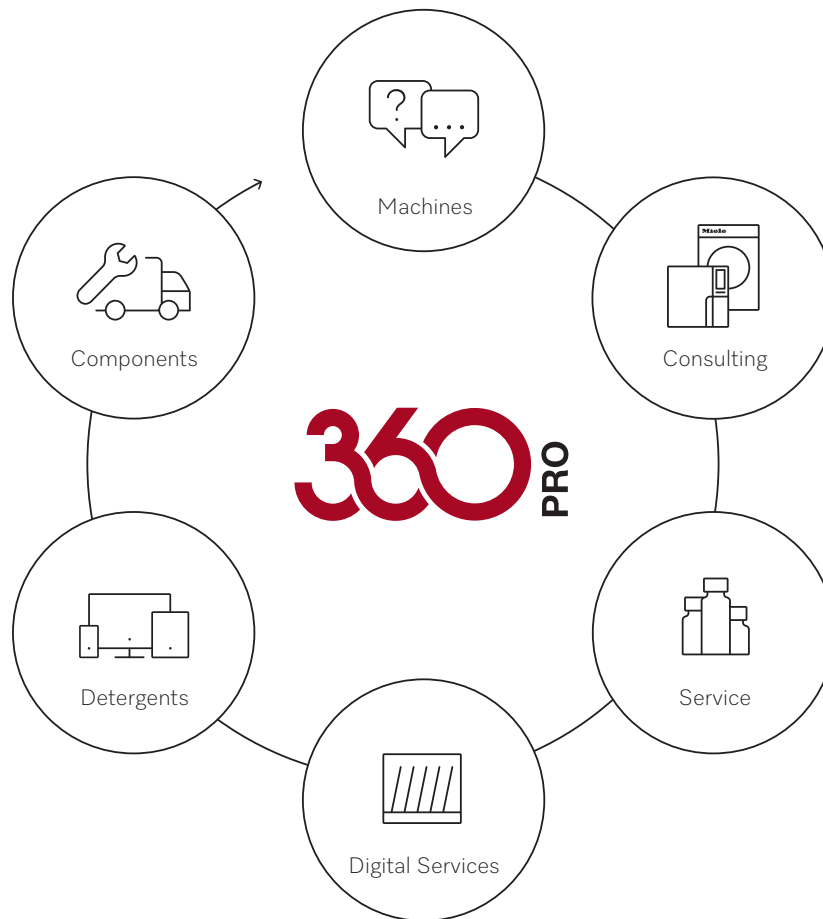


**End waste by giving our machines new life**  
 We are working towards creating a circular value chain with net-zero waste for all materials used in our machines to re-enter the loop at the end of their lifecycle.



# 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 through our tried and tested holistic solutions offering. Miele Professional provides you with inspiring solutions to meet the many demands of your business. From planning, through to calculation, and up 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.**

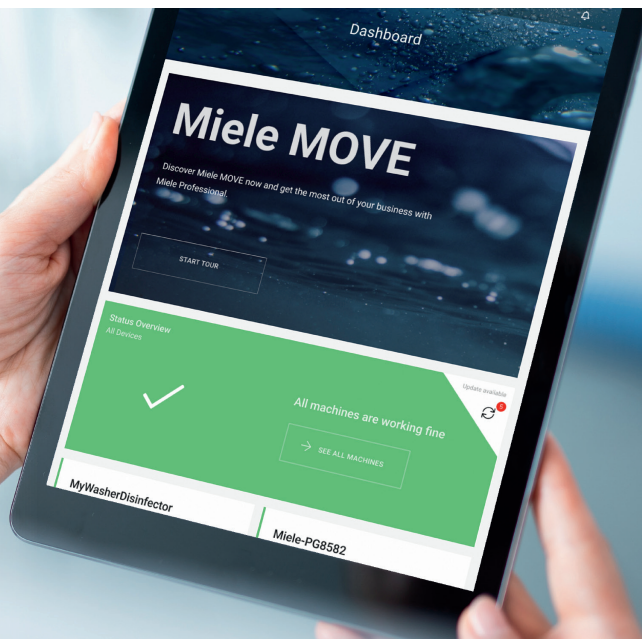




**M**anage your data.  
**O**ptimize your workflow.  
**V**isualize your potential.  
**E**mpower yourself.



For more information on Miele MOVE:



## Miele MOVE. Your Digital Solution for Efficient Machine, Data and Process Management.

Intuitive, transparent, efficient. Miele MOVE connects commercial machines, and optimises processes and maintenance. The platform combines convenient user interfaces with intelligent assistance tools. Optimisation has never been simpler.



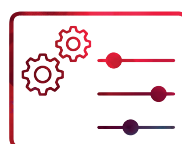
Safe documentation by collecting important operating data



Live information and notifications on the condition and status of machines



Intuitive user interface with dashboard and widgets providing insights at a glance



Customisable machine and location management to improve your daily planning

## Service Solutions You Can Depend On

**PROtect**

Miele PROtect 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 machine production ceases. Our comprehensive service network protects your machines and your business, giving you total peace of mind.





### Innovation for optimum loading

With EasyLoad, Miele Professional has reinvented the loading of laboratory glasswashers. 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 the thorough cleaning of internal surfaces – even the surfaces which rest on the tops of nozzles. In addition to this, much more efficient use is made of the space in the chamber. 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 chamber height
- 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:



### Optimum use of space

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



### Safe wash 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



# Convincing Benefits of Machine-Based Cleaning of Laboratory Glassware and Equipment



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:**



## 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 life cycle of laboratory glassware
- An investment in a laboratory glasswasher 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 detergent, 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 Glasswashers / Washer-Disinfectors

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## Laboratory glasswashers

PG 8504, PG 8583, PG 8593, PG 8583 CD

## Washer-disinfectors

PG 8536

## Large-chamber laboratory glasswasher

PLW 7111

PLW 8615, PLW 8616, PLW 8617



# Laboratory Glasswashers

Freestanding unit, can be built-under  
PG 8504, PG 8583, PG 8593, PG 8583 CD



Washer-disinfectors (left to right)	PG 8504	PG 8583	PG 8593	PG 8583 CD
Width	600	600	600	900
Height, depth [mm]	835 (820 <sup>1</sup> ), 600	835 (820 <sup>1</sup> ), 600	835 (820 <sup>1</sup> ), 600	820 <sup>1</sup> , 600 <sup>2</sup>
Shortest cycle time <sup>3</sup> [mins.]	22	20	20	20
Capacity: Lab bottles	64	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 phials	130	260	260	260
Drying	–	EcoDry	DryPlus	DryPlus
Conductivity monitoring	–	–	Optional	◆
Integrated dispenser pump (depending on version) <sup>4</sup>	–	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 supply canisters (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	9.3

<sup>1</sup> Undercounter units

<sup>2</sup> (optional) H 835, D 700 mm

<sup>3</sup>

<sup>4</sup> Length of siphon: 333 mm for 5 l and 10 l canisters

## Customise your laboratory glasswashers with:

- Baskets and further components from Page 34
- Detergents from Page 80
- Process documentation from Page 86



# Version Overview

PG 8504, PG 8583, PG 8593, PG 8583 CD

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PG 8504 [AD]	AE	600 mm	AC 230V 50HZ	10096780	62850421GB	4002515565261
PG 8504 [ADP]	AE	600 mm	AC 230V 50HZ	10096790	62850422GB	4002515565285

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PG 8583 [WW AD LD]	AE	600 mm	3N AC 400V 50HZ	10096920	62858304GB	4002515566343
PG 8583 [WW AD LD OIL]	AE	600 mm	AC 230V 50HZ	10096840	62858341GB	4002515565308
PG 8583 [WW ADP LD]	AE	600 mm	3N AC 400V 50HZ	10096890	62858306GB	4002515566329
PG 8583 [WW ADP LD]	AE	600 mm	AC 230V 50HZ	10096810	62858326GB	4002515565292
PG 8583 [WW ADP PD]	AE	600 mm	AC 230V 50HZ	10419830	62858325GB	4002515720431

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PG 8593 [WW AD]	AE	600 mm	3N AC 400V 50HZ	10096900	62859301GB	4002515566336
PG 8593 [WW AD]	AE	600 mm	AC 230V 50HZ	10096870	62859321GB	4002515566312

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PG 8583 CD [WW ADP CM]	AE	900 mm	3N AC 400V 50HZ	10224300	62858350GB	4002515630587
PG 8583 CD [WW AD CM OIL]	AE	900 mm	AC 230V 50HZ	10224280	62858383GB	4002515630563
PG 8583 CD [WW ADP CM]	AE	900 mm	3N AC 400V 50HZ	10224290	62858351GB	4002515630570
PG 8583 CD [WW ADP CM]	AE	900 mm	AC 230V 50HZ	10224270	62858361GB	4002515630556

Designation	Casing	Mat. no.	Art. no.	EAN
DE-CS6-85	Appliance lid cover for top of machine incl. side unit, 60 cm deep, 90 cm wide.	10101450	69216010D	4002515604380
ADB	Cover plate for built-under versions.	9715590	67216008D	4002515379493
DE-CS6-85	Appliance lid cover for top of machine incl. side unit, 60 cm deep, 90 cm wide.	10101450	69216010D	4002515604380
ADB	Cover plate for built-under versions.	9715590	67216008D	4002515379493
DE-CS7-85	Appliance lid for the top cover on the machine, 70 cm deep, 90 cm wide.	10222780	69216011D	4002515648155
ADB	Cover plate for built-under versions.	9715590	67216008D	4002515379493

# Programmes, Cycle Times, Consumption

PG 8504, PG 8583, PG 8593, PG 8583 CD

PG 8504	Cleaning				Drying		
	Cycle duration [mins.]	CW [l]	WW [l]	AD [l]	Energy [kWh]	Cycle duration [mins.]	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	-	-

PG 8583	Cleaning				Drying		
	Cycle duration [mins.]	CW [l]	WW [l]	AD [l]	Energy [kWh]	Cycle duration [mins.]	Energy [kWh]
Universal	34	4.5	31.5	18.5	1.7	3	-
Standard	29	5.0	14.0	18.5	1.7	2	-
Intensive	36	4.5	23.5	27.5	1.9	3	-
Anorganica	38	5.0	24.0	27.5	1.8	2	-
Organica	40	-	37.0	18.5	2.0	3	-
Injector Plus	40	6.0	42.0	24.0	1.8	3	-
Pipettes	43	7.5	37.5	45.0	1.8	2	-
Plastics	34	36.0	-	18.5	1.5	-	-
Quick wash	20	-	19.0	9.5	2.3	-	-
Oil programme	41	-	47.0	18.5	1.9	3	-
Special 93°C-10'	53	11.9	29.6	14.0	3.4	3	-
De-min. rinse	6	-	-	10.0	-	-	-
Rinse	4	10.0	-	-	-	-	-

PG 8593	Cleaning				Drying		
	Cycle duration [mins.]	CW [l]	WW [l]	AD [l]	Energy [kWh]	Cycle duration [mins.]	Energy [kWh]
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
Intensive	35	4.5	23.5	27.5	2.3	37	0.7
Anorganica	36	5.0	24.0	27.5	2.4	37	0.7
Organica	38	-	37.0	18.5	1.8	37	0.7
Injector Plus	38	6.0	42.0	24.0	2.0	37	0.7
Pipettes	40	7.5	37.5	45.0	2.3	47	0.6
Plastics	33	36.0	-	18.5	1.6	52	0.7
Quick wash	18	-	19.0	9.5	2.3	37	0.7
Oil programme	39	-	47.0	18.5	1.6	37	0.7
Special 93°C-10'	51	11.9	29.6	14.0	1.5	79	1.4
De-min. rinse	6	-	-	10.0	1.6	-	-
Rinse	4	10.0	-	-	3.0	-	-
Drying	-	-	-	-	-	40	0.7

PG 8583 CD	Cleaning				Drying		
	Cycle duration [mins.]	CW [l]	WW [l]	AD [l]	Energy [kWh]	Cycle duration [mins.]	Energy [kWh]
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
Intensive	35	4.5	23.5	27.5	2.3	37	0.7
Anorganica	36	5.0	24.0	27.5	2.4	37	0.7
Organica	38	-	37.0	18.5	1.8	37	0.7
Injector Plus	38	6.0	42.0	24.0	2.0	37	0.7
Pipettes	40	7.5	37.5	45.0	2.3	47	0.6
Plastics	33	36.0	-	18.5	1.6	52	0.7
Quick wash	18	-	19.0	9.5	2.3	37	0.7
Oil programme	39	-	47.0	18.5	1.6	37	0.7
Special 93°C-10'	51	11.9	29.6	14.0	1.5	79	1.4
De-min. rinse	6	-	-	10.0	1.6	-	-
Rinse	4	10.0	-	-	3.0	-	-
Drying	-	-	-	-	-	40	0.7

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



# Technical Data

PG 8504, PG 8583, PG 8593, PG 8583 CD

Laboratory glasswashers	PG 8504
Undercounter/freestanding unit with lid	◆
Circulation pump [Qmax. l/min.]	500
<b>Controls/programmes</b>	
TouchControl/No. of programmes + vacant programme slots	6 + 2
Max. wash temperature [°C]	70
Max. no. of injector modules	2
AutoClose – automatic door lock	–
Buzzer, acoustic signal at end of programme	◆
Ethernet module/RS232/DataDiary module for process documentation	–
Ethernet/WiFi communication module for connectivity with digital products	–
<b>Water connections</b>	
1 x cold water, 2.0-10 bar flow pressure (200 – 1000 kPa) <sup>1</sup>	◆
1 x cold water for steam condenser, 2.0 – 10 bar flow pressure (200 – 1000 kPa) <sup>1</sup>	–
1x demineralised water, 2.0 – 10 bar flow pressure (200 – 1000 kPa) <sup>1</sup>	◆
(optional ADP version: connection for hose with 13 mm interior diameter)	◆
1 x hot water, 2.0 – 10 bar flow pressure (200 – 1000 kPa) <sup>1</sup>	–
No. of inlet hoses, 1/2" with 3/4" threaded union, l = approx. 2.0 m	2 (1 on ADP version)
Drain pump Ø 22 mm, Max. head height: 100 cm	◆
WaterProof System (WPS)	◆
<b>Electrical connection</b>	
3N AC 400 V 50 Hz convertible to AC 230 V 50 Hz, supply lead, approx. 2.0 m, 5 x 2.5 mm <sup>2</sup> incl. plug	◆
Heating [kW]	8.5
Circulation pump [kW]	0.8
Total rated load [kW]	9.3
Fuse rating [A]	3 x 16
<b>Dispenser systems (depending on model)</b>	
1 door dispenser for powder cleaning agent	◆
1 dispenser pump for liquid detergent (siphon length: 352 mm)	–
1 dispenser pump for neutralising agent (siphon length: 352 mm)	–
Third internal liquid dispenser pump optional, fourth pump not possible	–
Drawer for detergents (3 x 5 l or 2 x 10 l)	–
<b>Connection options (depending on model)</b>	
DOS K 85 Flex or DOS K 85/1 Flex for liquid dispensing	–
DOS G 80 Flex or DOS G 80/1 Flex for liquid dispensing	1
<b>Water softener</b>	
For hot and cold water, max 65°C	◆
<b>Steam condenser</b>	
Aerosol	–
<b>Drying unit/Radial fan</b>	
Fan	–
Heater bank [kW]	–
Total rated load [kW]	–
Air throughput [m <sup>3</sup> /h]	–
Temperature selection in 1° increments [°C]	–
Time selection in 1-minute increments [mins.]	–
Pre-filter/Filter efficiency (DIN EN 1822)/Filter life	–
Particulate filter/HEPA filter/filter efficiency (DIN EN 1822)/filter life	–
<b>Dimensions, weight</b>	
External dimensions H/W/D (without lid H 820 mm) [mm]	835/600/600
Chamber dimensions H/W/D [mm]	522/536/0=518 U=523
Weight [kg]	74
<b>Casing options</b>	
White casing, Metal (AW)	–
Stainless steel (AE)	◆
<b>Compliance</b>	
EU Machinery Directive, EU Low Voltage Directive, EU EMC Directive, EU RoHS Directive	◆
<b>Test certificates</b>	
IP 21	◆
CE	◆

# Technical Data

PG 8504, PG 8583, PG 8593, PG 8583 CD

Laboratory glasswashers	PG 8583	PG 8593	PG 8583 CD
Undercounter/freestanding unit with lid	◆	◆	◆
Circulation pump [Qmax. l/min.]	500	500	500
<b>Controls/programmes</b>			
TouchControl/No. of programmes + vacant programme slots	14 + 2	15 + 2	15 + 2
Max. rinse temperature [°C]	93	93	93
Max. no. of injector modules	4	4	4
AutoClose – automatic door lock	◆	◆	◆
Buzzer, acoustic signal at end of programme	◆	◆	◆
Ethernet module/RS232/DataDiary module for process documentation	Option	Option	Option
Ethernet/WiFi communication module for connectivity with digital products	◆	◆	◆
<b>Water connections</b>			
1 x cold water, 2.0-10 bar flow pressure (200-1000 kPa) <sup>1</sup>	◆	◆	◆
1 x cold water for steam condenser, 2.0 – 10 bar flow pressure (200 – 1000 kPa) <sup>1</sup>	◆	◆	◆
1 x demineralised water, 2.0 – 10 bar flow pressure (200 – 1000 kPa) <sup>1</sup> (optional ADP version: connection for hose with 13 mm interior diameter)	◆	◆	◆
1 x hot water, 2.0 – 10 bar flow pressure (200 – 1000 kPa) <sup>1</sup>	◆	◆	◆
No. of inlet hoses, 1/2" with 3/4" threaded union, l = approx. 2.0 m	4 (3 on ADP version)	4	4 (3 on ADP version)
Drain pump Ø 22 mm, Max. head height: 100 cm	◆	◆	◆
WaterProof System (WPS)	◆	◆	◆
<b>Electrical connection</b>			
3N AC 400 V 50 Hz convertible to AC 230 V 50 Hz, supply lead, approx. 2.0 m, 5 x 2.5 mm <sup>2</sup> 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
<b>Dispenser systems (depending on model)</b>			
1 door dispenser for powder cleaning agent	◆/–	–	–
1 dispenser pump for liquid detergent (siphon length: 352 mm)	–/◆	◆	◆
1 dispenser pump for neutralising agent (siphon length: 352 mm)	◆/◆	–	◆
Third internal liquid dispenser pump optional, fourth pump not possible	–	–	◆
Drawer for detergents (3 x 5 l or 2 x 10 l)	–	–	◆
<b>Connection options (depending on model)</b>			
DOS K 85 Flex or DOS G 80 Flex for liquid dispensing	2/1	2	–
<b>Water softener</b>			
For hot and cold water, max 65°C	◆	◆	◆
<b>Steam condenser</b>			
Aerosol	◆	◆	◆
<b>Drying unit/Radial fan</b>			
Fan	–	0.3	0.3
Heater bank [kW]	–	2.2	2.2
Total rated load [kW]	–	2.5	2.5
Air throughput [m <sup>3</sup> /h]	–	60	60
Temperature selection in 1° increments [°C]	–	50 – 115	50 – 115
Time selection in 1-minute increments [mins.]	–	0 – 120	0 – 120
Pre-filter/Filter efficiency (DIN EN 1822)/Filter life	–	–	G 4/> 90%/100 h
Particulate filter/HEPA filter/filter efficiency (DIN EN 1822)/filter life	–	H13/>99.95%/200 h	H 14/>99.995%/500 h
<b>Dimensions, weight</b>			
External dimensions H/W/D (without lid H 820 mm) [mm]	835/600/600	835/600/600	820/900/600
Chamber dimensions H/W/D [mm]	522/536/O=518 U=523	522/536/O=518 U=523	522/536/O=518, U=523
Weight [kg]	74	78	97.7
<b>Casing options</b>			
White casing, Metal (AW)	◆	–	–
Stainless steel (AE)	◆	◆	◆
<b>Compliance</b>			
EU Machinery Directive, EU Low Voltage Directive, EU EMC Directive, EU RoHS Directive	◆	◆	◆
<b>Test certificates</b>			
IP 21	◆	◆	◆
CE	◆	◆	◆

<sup>1</sup> Suction break according to EN 1717 <sup>2</sup> O = Upper basket, U = Lower basket, ◆ = standard, – = not available



# EasyLoad Sample Loads

PG 8504, PG 8583, PG 8593, PG 8583 CD



## Basic

- A 101 upper basket with spray arm
- 2x AK 12/1 insert
- A 150 lower basket for injector modules
- A 300/3 injector module with 8 injector nozzles
- A 680 holder rack for A 300/3
- A 301/5 injector module with 18 injector nozzles
- A 681 holder rack for A 301/5



## High Performance

- A 100 upper basket for injector modules
- 2x A 302/3 injector module with 32 injector nozzles
- 2x 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



## Measuring cylinders and other laboratory glassware

- A 150 lower basket for injector modules
- A 306/1 injector module with measuring cylinder
- A 301/5 injector module with 18 injector nozzles



## Sedimentation cones and other laboratory glassware

- A 150 lower basket for injector modules
- A 300/2 injector module, empty
- APLW 870 injector nozzle set for sedimentation cones
- A 302/3 injector module with 32 injector nozzles

# Overview of Componentry

PG 8504, PG 8583, PG 8593, PG 8583 CD

Article	Description	Mat. no.
<b>Baskets</b>		
A 100	Upper basket, for injector modules or inserts.	9862320
A 101	Upper basket, height adjustable, for inserts.	9862340
A 102	Upper basket, height adjustable, for inserts.	9862360
A 103	Upper basket, for inserts.	9862370
A 150	Lower basket, for injector modules or inserts.	9862400
A 151	Lower basket, for various standard DIN mesh trays and various inserts.	9862410
A 202	Load carrier, for 4 DIN mesh trays.	9862440
A 200	Load carrier, for up to 38 pipettes.	9862420
<b>EasyLoad</b>		
A 300/3	Injector module for optimum loading of laboratory glassware – equipped with 8 nozzles.	11116900
A 301/5	Injector module for optimum loading of laboratory glassware – equipped with 18 nozzles.	11116950
A 302/3	Injector module for optimum loading of laboratory glassware – equipped with 32 nozzles.	11116960
A 860	Holder rack for A 300/2 and A 300/3 injector module	11056800
A 861	Holder rack for A 301/4 and A 301/5 injector module	11056810
A 862	Holder rack for A 302/2 and A 302/3 injector module	11056820
A 300/2	Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.	11056770
A 301/4	Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.	11056780
A 302/2	Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.	11056790
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 off.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 off	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 off	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 off	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 off.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 off.	11056670
A 303	Injector module, for optimum loading of up to 98 pipettes.	9862560
A 304	Injector module, for optimum loading of up to 98 pipettes.	9862570
A 306/1	Injector module, ideal for large-volume laboratory glassware.	11035210
A 313	Injector module for reprocessing large-volume laboratory glassware.	11055970
A 846	Injector nozzle, with support, for laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for measuring cylinders.	11025610
A 312	Injector module for reprocessing viscometers.	11054470
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation cones (Imhoff).	12151110
<b>Inserts</b>		
AK 12	Insert, for various utensils	3830510
AK 12/1	Insert, for various utensils	11131690
A 14	Lid, for securing delicate load items.	3981970
A 14/1	Lid, for securing delicate load items.	11131560
E 149	Insert, for max. 80 test tubes, 16 x 105 mm.	3808800
A 13	Lid, for securing delicate load items.	3810200
E 103/1	Insert, for test tubes, 12 x 75 mm.	6907630

Article	Description	Mat. no.
E 104/1	Insert, for test tubes, 12 x 105 mm.	6907640
E 105/1	Insert, for test tubes, 12 x 165 mm.	6907650
E 139/1	Insert, for test tubes, 12 x 200 mm.	6907660
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 – 1,000 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 microtitre plates.	6570920
<b>Further components</b>		
A 802	Nozzle, for rinsing dispenser compartment.	9863070
A 2	Cover net, for securing delicate load items.	3830460
A 3	Cover net, for securing light-weight items in inserts.	3830470
A 5	Cover, weighs down light-weight load items.	5637190
A 11/1	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	6629660
A 11/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11239130
A 12/1	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	6629670
A 12/2	Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.	11238030
E 319/3	Surface filter, retains labels and glass splinters.	6477070
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, 3 mm, length 90 mm.	3810320
ID 110	Injector nozzle with plastic support, 3 mm, length 110 mm.	3810330
ID 140	Injector nozzle with plastic support, 4 mm, length 140 mm.	3810340
ID 160	Injector nozzle with plastic support, 4 mm, length 160 mm.	3810350
ID 180	Injector nozzle with plastic support, 4 mm, length 180 mm.	3810360
ID 200	Injector nozzle with plastic support, 6 mm, length 200 mm.	3810380
ID 220	Injector nozzle with plastic support, 6 mm, length 220 mm.	3810390
ID 240	Injector nozzle with plastic support, 6 mm, length 240 mm.	3810400
SD-B	Injector nozzle for butyrometers	3583540
E 362	Blind stopper, for sealing connections on load carriers.	3809630

Further technical information on the products listed in the table is provided on Page 36.

# Combination Options Injector Modules/Upper and Lower Baskets

PG 8583, PG 8593, PG 8583 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



# Washer-Disinfector

Freestanding unit, wide  
PG 8536



Laboratory glasswashers	PG 8536
Width [mm]	900
Height, Depth [mm]	1175, 700
Cycle duration / VarioTD <sup>2</sup> [mins.]	41
Capacity: Lab bottles	128
Capacity: Pipettes	98
Plus additional laboratory glassware	◆
Drying	DryPlus
Integrated dispenser pump	2
Capacity of drawer for supply canisters, 5 l	4
Electrical connection 3N AC 400 V, 50 Hz	◆
Total rated load [kW]	10.2

### Customise your laboratory glasswashers with:

- Baskets and further components from Page 38
- Detergents from Page 80
- Process documentation from Page 86

# Programmes, Cycle Times, Consumption, Version Overview

PG 8536

PG 8536	Cleaning					Drying	
	Cycle duration	CW	WW	AD	Energy	Cycle duration	Energy
LAB-STANDARD	33	8.5	38.5	18	2.6	34	0.6
LAB-UNIVERSAL	35	8.5	55	21	2.3	34	0.6
LAB-INTENSIVE	43	8.5	40	48	2.7	34	0.6
LAB-PIPETTES	46	11.5	74.5	44	2.5	34	0.3
PLASTIC	38	62.5	–	20	2.5	44	0.4
ORGANICA	41	1	64	21	2.8	34	0.6
ANORGANICA	43	4	49	48	2.4	34	0.6
LAB-OIL	47	1	80.5	21	2.5	34	0.3
DES-VAR-TD	54	36.3	24.2	16	3.7	34	0.6
SPECIAL 93/10	48	22	25.5	15.5	3.97	39	0.7

Heating: 9 kW (3N AC 400 V, 10.2 kW)

Connection to cold water (15°C), hot water (65°C), demineralised water (15°C) and steam condenser water supply (approx. 20°C)

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PG 8536 [AD LFM SST]	AE	900 mm	3N AC 400V 50HZ	7831500	62853635GB	4002514859910
PG 8536 [AD SST]	AE	900 mm	3N AC 400V 50HZ	7831480	62853621GB	4002514859897
PG 8536 [ADP SST]	AE	900 mm	3N AC 400V 50HZ	7831490	62853625GB	4002514859903

Designation	Casing	Mat. no.	Art. no.	EAN
RK LWMM	Conductivity meter for retrofitting on PG 8536.	7514620	69224015D	4002514641928
DOS S 20	Bellows dispenser pump for dispensing liquid acid media.	7514600	69226004D	4002514641904
DOS NA 120	Bellows dispenser pump for dispensing liquid neutral/alkaline media.	7514610	69226005D	4002514641911
MLJ/2	Magnetic strip for automatic recognition of mobile unit/spray arm monitoring	5723270	69745703D	4002513274158
AM 10	Connection module with potential-free contacts.	7321290	69227010D	4002514546209
Abdeckblech	Abdeckblech/Arbeitsplattenschutz 60 cm, gedoppelt für abgerundete Arbeitsplatten	1156154		4002512377539

# Technical Data

PG 8536

Washer-disinfector	PG 8536
Frontloading unit with bottom-hinged door, without baskets	◆
Freestanding unit with lid	◆
Fresh water system, max. temperature 93°C	◆
Circulation pump [Qmax. l/min.]	600
<b>Controls/programmes</b>	
Profitronic+, freely programmable, 64 programme slots	◆
Spray arm monitoring	◆
Sensor technology for automatic mobile unit recognition	◆
Conductivity monitoring	Option
Network interface for process documentation	◆
Serial printer interface for process documentation	◆
Electric door lock	◆
Peak-load negotiation	◆
<b>Water connections</b>	
1 x cold water, flow pressure	(250 – 1000 kPa)
1 x cold water for steam condenser, flow pressure	(250 – 1000 kPa)
1 x hot water, flow pressure	(250 – 1000 kPa)
1 x demineralised water (AD), flow pressure	(250 – 1000 kPa)
Feed pump for unpressurised demineralised water (depending on model)	Option
4 inlet hoses 1/2" with 3/4" threaded union, l = approx. 1.7 m	◆
Drain pump Ø 22 mm, Max. head height: 100 cm	◆
Water drainage for steam condenser (DN 22)	◆
WaterProof System (WPS)	◆
<b>Electrical connection</b>	
3 N AC 400 V 50 Hz, supply lead approx. 1.7 m, 5 x 2.5 mm <sup>2</sup>	◆
Heating [kW]	9
Circulation pump [kW]	1.2
Total rated load [kW]	10.2
Fuse rating [A]	3 x 16
<b>Dispenser systems</b>	
1 dispenser pump for liquid acidic agents and 1 dispenser pump for liquid detergent (length of siphon: 200 mm)	◆ (bellows pump)
Ultrasound flow control	◆
Drawer for 4 x 5 l containers	◆
<b>Connection options</b>	
DOS S 20 dispenser pump for liquid acidic agents (surfactant, neutralising agent)	◆
Bellows-type pump, retrofittable by Service	
Dispenser pump DOS NA 120 for liquid, pH-neutral or alkaline products (disinfectant, detergent, emulsifier)	◆
Bellows-type pump, retrofittable by Service	
<b>Water softener</b>	
For cold and hot water to max 70°C, large-capacity	◆
<b>Steam condenser</b>	
Aerosol	◆
<b>Drying unit/Radial fan</b>	
Fan [kW]	0.3
Heater bank [kW]	2.3
Total rated load [kW]	2.6
Air throughput [m <sup>3</sup> /h]	55
Temperature selection in 1° increments [°C]	60 – 115
Time selection in 1-minute increments [mins.]	1 – 240
Pre-filter G 4, filter efficiency > 90%, filter life 100 h	◆
Particulate filter/HEPA H 14, filter efficiency > 99.995% (DIN EN 1822), filter life 500 h	◆
<b>Dimensions, weight</b>	
External dimensions H/W/D [mm]	1175/900/700
Chamber dimensions H/W/D [mm]	500/535/O=473 U=516 <sup>1</sup>
Weight [kg]	177
<b>Outer casing</b>	
Stainless steel (AE)	◆
<b>Test certificates</b>	
CE O297, IP 20	◆
<sup>1</sup> O = Upper basket, U = Lower basket, ◆ = Standard, - = Not available	



# Overview of Componentry

PG 8536

Article	Description	Mat. no.
<b>Baskets and load carriers</b>		
O 188/2	Upper basket, for various inserts.	7333030
O 190/2	Upper basket, for various inserts.	7333050
O 175	Upper basket, for laboratory glassware.	3807410
O 187	Upper basket, for narrow-necked glassware.	3881640
U 184/1	Lower basket, for centrifuge tubes, phials or test tubes.	6439180
O 184	Upper basket, for centrifuge tubes, phials and test tubes.	3807480
U 874/1	Lower basket, for various inserts and mesh trays.	6442940
U 175/1	Lower basket, for narrow-necked glassware.	6439170
E 404/1	Load carrier, max. 38 pipettes.	6727910
E 405/1	Load carrier, max. 38 pipettes, connection for hot air drying.	6727920
E 408	Load carrier, max. 96 pipettes.	3810130
E 329	Load carrier, for narrow-necked glassware.	3809340
E 414	Load carrier, for narrow-necked glassware.	3810190
E 350	Load carrier, for narrow-necked glassware.	3809490
E 355	Load carrier, for narrow-necked glassware.	3809560
E 385	Load carrier, for narrow-necked glassware.	3809930
E 340	Load carrier, for narrow-necked glassware.	3809410
E 380	Load carrier, for narrow-necked glassware.	3809880
<b>Magnetic strip and magnetic spray arms</b>		
ML/2	Magnetic strip, for automatic mobile unit recognition/spray arm monitoring.	5723270
ASA 1	Magnet spray arm, for spray arm monitoring, suitable for O 167, O 173, O 188, O 190.	7349850
ASA 2	Magnet spray arm, for spray arm monitoring, suitable for O 191, E 327.	7349860
ASA 4	Magnet spray arm, for spray arm monitoring, suitable for E 439, O 176.	7349880
<b>Injector nozzles and further components</b>		
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, 3 mm, length 90 mm.	3810320
ID 110	Injector nozzle with plastic support, 3 mm, length 110 mm.	3810330
ID 140	Injector nozzle with plastic support, 4 mm, length 140 mm.	3810340
ID 160	Injector nozzle with plastic support, 4 mm, length 160 mm.	3810350
ID 180	Injector nozzle with plastic support, 4 mm, length 180 mm.	3810360
ID 200	Injector nozzle with plastic support, 6 mm, length 200 mm.	3810380
ID 220	Injector nozzle with plastic support, 6 mm, length 220 mm.	3810390
ID 240	Injector nozzle with plastic support, 6 mm, length 240 mm.	3810400
SD-B	Injector nozzle for butyrometers	3583540
E 362	Blind stopper, for sealing connections on load carriers.	3809630
A 838	Tool set, for adjusting basket heights and installing/removing injector nozzles.	11054290

Further technical information on the products listed in the table is provided on Page 38.

# SlimLine Laboratory Glasswashers

Freestanding unit, single-door, bottom-hinged glass door  
PLW 7111



SlimLine laboratory washers		PLW 7111
External dimensions [Width x Height x Depth mm]		650, 1965, 702
Chamber 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
<b>Features</b>		<b>Features (depending on model)</b> 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
Single-door model	◆	
Full-glass bottom-hinged door	◆	
3-colour chamber lighting as status indicator	◆	
Chamber material	1.4404/316L (electro-polished)	
Dispenser pumps [qty]	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	◆	
Detergent capacity	3 x 5 l	
Ethernet interface	◆	
Leakage sensor	◆	
<b>Load capacity</b>		<b>Optional modules</b> Potential-free contacts Additional dispenser pumps
100 ml laboratory bottles	192	
250 ml laboratory bottles	108	
1000 ml laboratory bottles	32	
Pipettes	98	

# Feature List

## PLW 7111 versions

Model	Electric	Electric/Steam	Drying	Steam condenser	Drain pump	Drain valve	Water softener	Pre-heating tank	Printer	Conductivity meter	Oil version	Drain water cooling	Demineralsised water pump
PLW 7111 [B-1002]	◆	—	—	◆	◆	—	◆	—	—	—	—	—	—
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-1030]	◆	—	◆	◆	◆	—	◆	—	◆	—	—	—	—
PLW 7111 [S-1031]	◆	—	◆	◆	◆	—	◆	—	—	—	—	—	◆
PLW 7111 [S-1032]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	◆	—
PLW 7111 [S-1033]	◆	—	◆	—	◆	—	◆	—	◆	◆	—	◆	—
PLW 7111 [S-1035]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	◆	—
PLW 7111 [S-1036]	◆	—	◆	◆	◆	—	◆	◆	◆	◆	◆	◆	—
PLW 7111 [S-5001]	◆	—	◆	—	—	◆	—	—	—	—	—	—	—
PLW 7111 [S-5002]	—	◆	◆	—	—	◆	—	—	—	—	—	—	—
PLW 7111 [S-5003]	◆	—	◆	—	—	◆	—	—	—	—	◆	—	—
PLW 7111 [S-5004]	◆	—	◆	◆	—	◆	—	◆	—	—	—	—	—
PLW 7111 [S-5005]	—	◆	◆	◆	—	◆	—	◆	—	—	—	—	—
PLW 7111 [S-5006]	◆	—	◆	◆	—	◆	—	◆	—	—	◆	—	—

**Customise your laboratory glasswashers with:**

- Baskets and further components from Page 43
- Detergents from Page 80
- Process documentation from Page 86



# Feature List

PLW 7111 versions

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PLW 7111 [S-1001]	AE	650 mm	3N AC 380-415V 50HZ	11879730	62711101GB	8051520001406
PLW 7111 [S-1002]	AE	650 mm	3N AC 380-415V 50HZ	11879740	62711102GB	8051520001413
PLW 7111 [S-1003]	AE	650 mm	3N AC 380-415V 50HZ	11879750	62711103GB	8051520000829
PLW 7111 [S-1004]	AE	650 mm	3N AC 380-415V 50HZ	11879760	62711104GB	8051520001420

Designation	Casing	Mat. no.	Art. no.	EAN
APLW DS711	Retrofitting kit liquid dispensing for retrofitting of the PLW 7111 with a third dispensing pump.	11993930	69242001D	4002516648697

# EasyLoad Sample Loads

PLW 7111



### High capacity on 3 levels

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

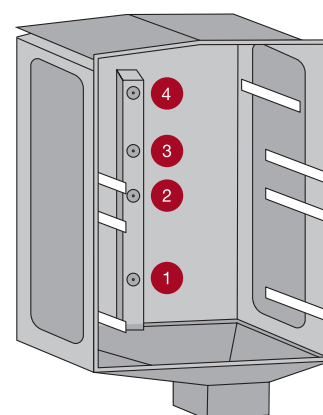


### Large bottles, max. 50 l

- 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 <sup>1</sup> (3 levels)	
	Basket	Load height [mm]	Basket	Load height [mm]	Basket	Load height [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 <sup>1</sup> (3 levels)		Reprocessing with injector nozzles <sup>1</sup> (2 levels)		Reprocessing with spray arm / injector nozzles <sup>1</sup> (1 level)	
	Basket	Load height [mm]	Basket	Load height [mm]	Basket	Load height [mm]
Level 4	APLW 106	224	–	344	–	–
Level 3	–	220	APLW 106		–	
Level 2	APLW 106		–	330	–	
Level 1	APLW 106	210	APLW 106		APLW 152 / APLW 106	690



<sup>1</sup> 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 Componentry

PLW 7111

Article	Description	Mat. no.
<b>Baskets</b>		
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
<b>EasyLoad</b>		
A 300/3	Injector module for optimum loading of laboratory glassware – equipped with 8 nozzles.	11116900
A 301/5	Injector module for optimum loading of laboratory glassware – equipped with 18 nozzles.	11116950
A 302/3	Injector module for optimum loading of laboratory glassware – equipped with 32 nozzles.	11116960
A 860	Holder rack for A 300/2 and A 300/3 injector module	11056800
A 861	Holder rack for A 301/4 and A 301/5 injector module	11056810
A 862	Holder rack for A 302/2 and A 302/3 injector module	11056820
A 300/2	Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.	11056770
A 301/4	Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.	11056780
A 302/2	Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.	11056790
A 840	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 130 mm, 1 off.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 off	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 off	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 off	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 off.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 off.	11056670
A 303	Injector module, for optimum loading of up to 98 pipettes.	9862560
A 304	Injector module, for optimum loading of up to 98 pipettes.	9862570
A 306/1	Injector module, ideal for large-volume laboratory glassware.	11035210
A 313	Injector module for reprocessing large-volume laboratory glassware.	11055970
A 846	Injector nozzle, with support, for laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for measuring cylinders.	11025610
A 312	Injector module for reprocessing viscometers.	11054470
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation cones (Imhoff).	12151110
APLW 215	Injector module, ideal for large-volume laboratory glassware and carboys up to 50 l	11853940
<b>Inserts for test tubes, funnels, beakers, wide-necked glassware, measuring cylinders</b>		
A 13	Lid, for securing delicate load items.	3810200
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

Article	Description	Mat. no.
E 149	Insert, for max. 80 test tubes, 16 x 105 mm.	3808800
E 103/1	Insert, for test tubes, 12 x 75 mm.	6907630
E 104/1	Insert, for test tubes, 12 x 105 mm.	6907640
E 105/1	Insert, for test tubes, 12 x 165 mm.	6907650
E 139/1	Insert, for test tubes, 12 x 200 mm.	6907660
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	Separator 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 – 1,000 ml.	3808420
E 144	Insert, for max. 18 beakers.	3808710
<b>Inserts for Petri dishes, watch glasses, microtiter plates, etc.</b>		
E 118	Insert, for half petri dishes.	3830270
E 402	Insert, for max. 44 watch glasses.	3830420
E 494	Insert, for 5 microtiter plates.	6570920
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
<b>Further components</b>		
A 2	Cover net, for securing delicate load items.	3830460
A 3	Cover net, for securing light-weight 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	Blind stopper, for sealing connections on load carriers.	3809630

Further technical information on the products listed in the table is provided on Page 43.





Menu groups

Program list	Print
Program list	Print
Program list	Print
Program list	Print



# Large-Chamber Laboratory Glasswashers

Freestanding unit, single-door, glass lift-up sliding door

PLW 8615, PLW 8616, PLW 8617



Laboratory glasswashers	PLW 8615	PLW 8616	PLW 8617
<b>Load capacity</b>			
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
Phials	588	588	588
<b>Features (basic version)</b>			
External dimensions [Width x Height <sup>1</sup> x Depth mm]	900 x 2495 x 990	900 x 2495 x 990	1150 x 2495 x 990
Chamber 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 chamber lighting as status indicator	◆	◆	◆
2-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
Dispenser pumps [qty]	2	2	2
Dispenser pumps, retrofittable [qty]	4	4	4
Detergent 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	◆	◆	◆
<b>Features (depending on model)</b>			
Electric heating	◆	◆	◆
Electric/steam heating	◆	◆	◆
Pre-heating tank	–	–	◆
Recycling tank	–	–	◆
Combi tank (Pre-heating / Recycling)	◆	◆	–
<b>Optional modules</b>			
Drain pump	◆	◆	◆
Hot-air drying, electric incl. HEPA H14 filter	◆	◆	◆
Steam condenser <sup>2</sup>	◆	◆	◆
Printer	◆	◆	◆
Plinth / Floor tray	–	◆	–
Roller plinth/floor tray	◆	–	◆

<sup>1</sup> incl. plinth floor tray, 100 mm, <sup>2</sup> only in combination with hot-air drying

# Large-Chamber Laboratory Glasswasher

PLW 8615, PLW 8616, PLW 8617

Model	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

Article	Description	Mat. no.	Art. no.	EAN
DU 900	Drying unit, electric, for 900 mm machines, for internal and external drying of load items.	10880710	69250004D	4002515991763
DU 900 RV	Drying unit, with vent grille, electric, for 900 mm machines, for internal and external drying of loads.	11382320	69250006USA	4002516265177
DU 900 RV	Drying unit, with vent grille, electric, for 900 mm machines, for internal and external drying of loads.	11324820	69250006D	4002516265139
DU 1150	Drying unit, electric, for 1150 mm machines, for internal and external drying of load items.	10880760	69250005D	4002515992135
DU 1150 RV	Drying unit, with vent grille, electric, for 1150 mm machines, for internal and external drying of loads.	11324850	69250007D	4002516265146
TC 900	Top-box panelling, for 900 mm machines, without steam condenser or drying unit.	10880700	69252003D	4002515991756
TC 1150	Top-box panelling, for 1150 mm machines, without steam condenser or drying unit.	10880750	69252004D	4002515992128
SC	Steam condenser, for effective dehumidification and cooling of discharged air.	10928990	69251300D	4002516024323
DP	Drain pump, for conversion from drain valve to drain pump.	10931330	69240003D	4002516024057
PR	Built-in report printer.	10931290	69247003D	4002516024040
PR 900	Built-in report printer.	11491220	69247004D	4002516362081
DS 5	Membrane pump, for 5 l containers, for dispensing liquid products.	10880860	69249001D	4002515992234
DS 10	Membrane pump, for 10 l containers, for dispensing liquid products.	10880870	69249101D	4002515992241
FP 900	Plinth, incl. floor tray and openings for connecting services.	10941870	69253005D	4002516031925
RP 900	Mobile plinth, for 900 mm wide machines, incl. floor tray without openings for floor drain.	10941940	69253007D	4002516032465
RP 1150	Mobile plinth, for 1150 mm wide machines, incl. floor tray without openings for floor drain.	10941950	69253008D	4002516032472
RF MF27/28	Adapter, for use of MF 27/28 transfer trolley with the PLW 8615/16/17 series.	11499280	69249201D	4002516352471

# Large-Chamber Laboratory Glasswasher

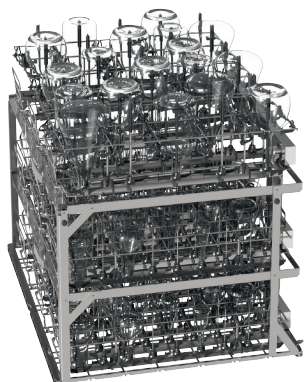
PLW 8615, PLW 8616, PLW 8617

Designation	Casing	Appliance width	Electrical connection	Mat. no.	Art. no.	EAN
PLW 8615 [EL]	AE	900 mm	3N AC 400V 50HZ	11175170	62861501GB	4002516145011
PLW 8615 [EL CT]	AE	900 mm	3N AC 400V 50HZ	11175180	62861502GB	4002516145028
PLW 8615 [EL/S]	AE	900 mm	3N AC 400V 50HZ	11175190	62861503GB	4002516145035
PLW 8615 [EL/S CT]	AE	900 mm	3N AC 400V 50HZ	11175200	62861504GB	4002516145042
PLW 8616 [EL]	AE	900 mm	3N AC 400V 50HZ	11175210	62861601GB	4002516145059
PLW 8616 [EL CT]	AE	900 mm	3N AC 400V 50HZ	11175230	62861602GB	4002516145066
PLW 8616 [EL/S]	AE	900 mm	3N AC 400V 50HZ	11175240	62861603GB	4002516145073
PLW 8616 [EL/S CT]	AE	900 mm	3N AC 400V 50HZ	11175250	62861604GB	4002516145080
PLW 8617 [EL]	AE	1.150 mm	3N AC 400V 50HZ	11175280	62861701GB	4002516145097
PLW 8617 [EL TH]	AE	1.150 mm	3N AC 400V 50HZ	11175460	62861702GB	4002516145103
PLW 8617 [EL RT]	AE	1.150 mm	3N AC 400V 50HZ	11175490	62861703GB	4002516145110
PLW 8617 [EL TH RT]	AE	1.150 mm	3N AC 400V 50HZ	11175510	62861704GB	4002516145127
PLW 8617 [EL/S]	AE	1.150 mm	3N AC 400V 50HZ	11175560	62861705GB	4002516145134
PLW 8617 [EL/S TH]	AE	1.150 mm	3N AC 400V 50HZ	11175620	62861706GB	4002516145141
PLW 8617 [EL/S RT]	AE	1.150 mm	3N AC 400V 50HZ	11175630	62861707GB	4002516145158
PLW 8617 [EL/S TH RT]	AE	1.150 mm	3N AC 400V 50HZ	11175640	62861708GB	4002516145165

#### Customise your laboratory glasswashers with:

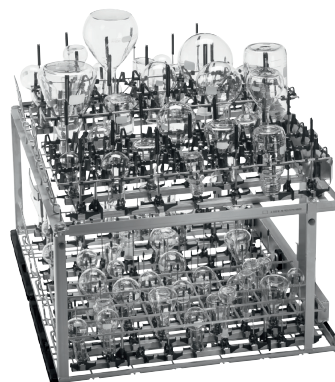
- Baskets and further components from Page 44
- Detergents from Page 80
- Process documentation from Page 86





### Injector modules on 3 levels

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



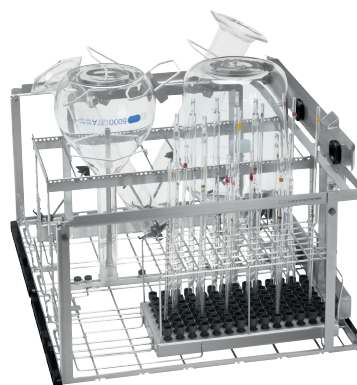
### 150 positions for injector nozzles on 2 levels

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



### 294 positions for pipettes

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



### Measuring cylinders, large laboratory glassware and pipettes

- A 503 load carrier 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 Componentry

PLW 8615, PLW 8516, PLW 8617

Article	Description	Mat. no.
<b>Load carriers</b>		
A 500	Load carrier, with 1 level for cleaning laboratory glassware and utensils.	10973880
A 603	Onsert, adds second level to A 500 load carrier.	10973980
A 505	Load carrier, with 3 levels, for laboratory glassware and utensils.	10998970
A 506	Load carrier, with 4 levels, for laboratory glassware and utensils.	10999130
A 501	Load carrier, with 4 levels, for laboratory glassware and utensils.	10973890
A 601	Insert, for additional level in A 501 load carrier.	10973970
A 503	Load carrier, with racks, for laboratory glassware and utensils.	10973900
APLW 511	Load carrier, with racks, for laboratory glassware and utensils.	11852850
A 606	Module, for lab glassware inserts on the top level of A 503 load carrier.	10973990
E 950/1	Load carrier, for narrow-necked glassware on 3 levels.	6696990
E 957	Load carrier, for up to 12 large-volume laboratory glassware items.	5746300
A 857	Conversion kit, allows use of G 7827/28 and PG 8527/28 lab trolleys on PLW 86xx.	11235960
<b>EasyLoad</b>		
A 620	Injector module, for laboratory glassware, 10 injector positions.	10999100
A 621	Injector module, for laboratory glassware, 20 injector positions.	10999110
A 622	Injector module, for laboratory glassware, 36 injector positions.	10999120
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 off.	11056100
A 841	Injector nozzle, with plastic supports, nozzle diameter 6 mm, length 210 mm, 1 off	11056190
A 842	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 90 mm, 1 off	11056330
A 843	Injector nozzle, with plastic supports, nozzle diameter 4 mm, length 185 mm, 1 off	11056440
A 844	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 80 mm, 1 off.	11056600
A 845	Injector nozzle, with plastic supports, nozzle diameter 2.5 mm, length 125 mm, 1 off.	11056670
APLW 870	Set of injector nozzles, with supports, for cleaning sedimentation cones (Imhoff).	12151110
A 613	Injector modules, for volumetric and measuring pipettes.	10999070
A 605	Injector modules, for phials and test tubes, etc.	10999010
A 623	Injector module, for measuring cylinders.	11025560
A 612	Injector module for reprocessing large-volume laboratory glassware.	10999050
A 846	Injector nozzle, with support, for laboratory bottles and round flasks.	11025590
A 847	Injector nozzle, with support, for Erlenmeyer flasks.	11025600
A 848	Injector nozzle, with support, for measuring cylinders.	11025610
<b>Inserts</b>		
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 44.

# Compatibility Within Product Range

PLW 8615, PLW 8616, PLW 8617

Additional rack levels in load carriers

Load carriers	Levels	
	A 601	A 603
A 500	–	1
A 501	2	–

Combination options: modules, injector nozzles and holder racks

Load carriers	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	!	!	!	!	40	40	–	–	–
	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	!	!	!	!	40	40	–	–	–

! = Use possible, depending on application









# Components

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**Baskets and load carriers**

**EasyLoad**

**Inserts and other components**

**Injector nozzles**

**Conversion kits**

**Transfer trolley**

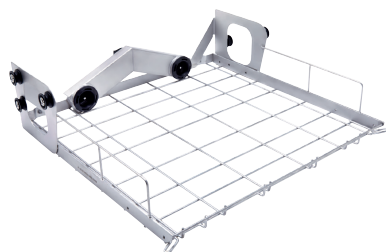
**Systems for reprocessing with fully demineralised water**

**Dispensing components**

**Plinths**

# Upper/Lower Baskets and Load Carriers

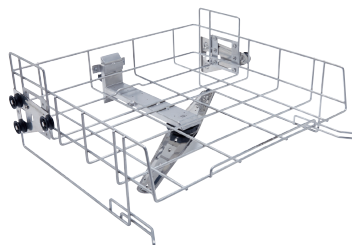
PG 8504, PG 8583, PG 8593, PG 8583 CD



## A 100

### Upper basket, for injector modules or inserts.

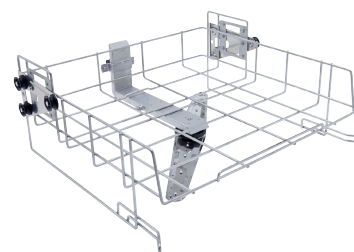
- Upper basket with two docking pipes
- For loading up to 2 injector modules or inserts
- Automatic closing of the connections when not in use
- Vertical clearance on module with plastic supports: 190 mm
- Clearances: width 489, length 440 mm
- H 141, W 528, D 525 mm



## A 101

### Upper basket, height adjustable, for inserts.

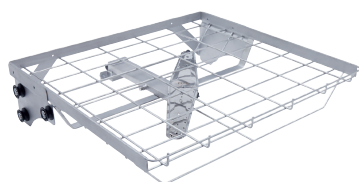
- Vertical clearance HWD 160 +/- 30 mm, 475 mm, 443 mm
- With integrated spray arm
- H 206, W 528, D 527 mm



## A 102

### Upper basket, height adjustable, for inserts.

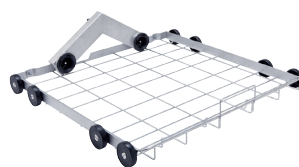
- Vertical clearance HWD 205 +/- 30 mm, 475 mm, 443 mm
- With integrated spray arm
- H 206, W 528, D 527 mm



## A 103

### Upper basket, for inserts.

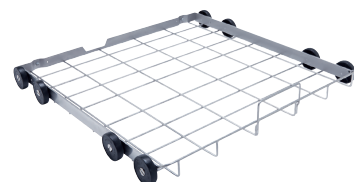
- Vertical clearance HWD 95 mm, 505 mm, 472 mm
- Particularly suitable for the reprocessing of DIN mesh trays
- Also suitable for the reprocessing of shallow loads in combination with A 202 load carrier
- With integrated spray arm
- H 133, W 528, D 528 mm



## A 150

### Lower basket, for injector modules or inserts.

- Lower basket with two docking ports
- For loading up to 2 injector modules or inserts
- Automatic closing of the 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

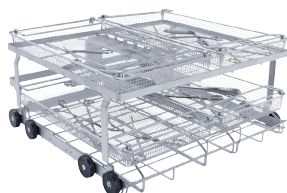
### Lower basket, for various standard DIN mesh trays and various inserts.

- 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
  - W 490, D 489 mm
- H 88, W 529, D 522 mm

Article	Description	Mat. no.	Art. no.	EAN
A 100	Upper basket for the optimum loading of injector modules or inserts.	9862320	69610000D	4002515460610
A 101	Upper basket height adjustable, for the optimum loading of inserts.	9862340	69610100D	4002515460627
A 102	Upper basket height adjustable, for the optimum loading of inserts.	9862360	69610200D	4002515460634
A 103	Upper basket for the optimum loading of inserts.	9862370	69610300D	4002515460641
A 150	Lower basket for the optimum loading of injector modules or inserts.	9862400	69615000D	4002515460672
A 151	Lower basket for holding standard DIN mesh trays as well as various inserts.	9862410	69615100D	4002515460689

# Upper/Lower Baskets and Load Carriers

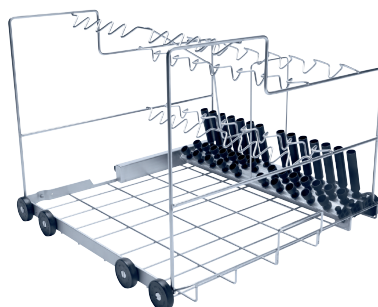
PG 8504, PG 8583, PG 8593, PG 8583 CD



## A 202

### Load carrier, 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 LuerLock connections
- 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
- H 223, W 529, D 542 mm



## A 200

### Load carrier, for up to 38 pipettes.

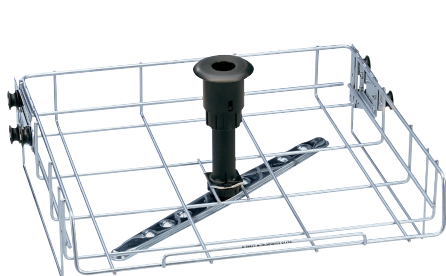
- For 10 x 100 ml pipettes in row 1, spacing 20 mm
- For 14 x 25 ml pipettes in row 2, spacing 26 mm
- For 14 x 10 ml pipettes in row 3, spacing 26 mm
- Not for use in PG 8504
- H 397, W 529, D 546 mm

Article	Description	Mat. no.	Art. no.	EAN
A 202	Mobile unit for the optimum loading of 4 DIN mesh trays.	9862440	69620200D	4002515460719
A 200	Mobile unit for the optimum loading of 38 pipettes.	9862420	69620000D	4002515460696



# Upper and Lower Baskets

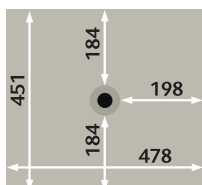
PG 8536



## O 188/2

### Upper basket, for various inserts.

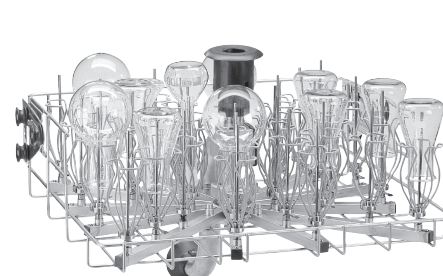
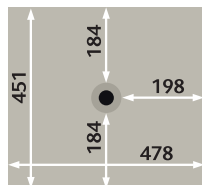
- Vertical clearance: 165 mm, height adjustment range +/- 20 mm
- With integrated magnetic spray arm
- Magnet for use with spray arm monitoring for PG 8535, PG 8536
- H 215, W 531, D 475 mm



## O 190/2

### Upper basket, for various inserts.

- Vertical clearance: 215 mm
- With integrated magnetic spray arm
- Magnet for use with spray arm monitoring for PG 8535, PG 8536
- H 265, W 531, D 475 mm



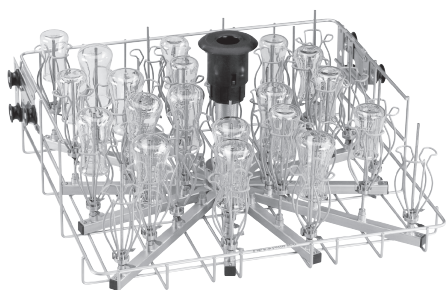
## O 175

### Upper basket, for laboratory glassware.

- Suitable for narrow-necked and laboratory glassware
- Vertical clearance: 170 mm
- Vertical clearance may be less, depending on type of laboratory glassware
- Equipped with a connection for hot air drying
- Powder dispensing not possible
- H 250, W 531, D 475 mm, H with drying connection 412 mm

#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 33
- E 353 clip for injector nozzle E 351 [qty]: 33



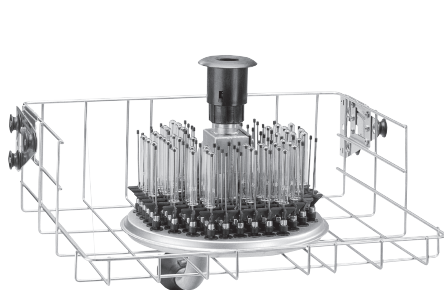
## O 187

### Upper basket, for narrow-necked glassware.

- Equipped with 34 injector nozzles
- Vertical clearance 170 mm
- Vertical clearance may be less, depending on type of laboratory glassware
- Powder dispensing not possible
- H 250, W 531, D 475 mm

#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 34
- E 353 clip for injector nozzle E 351 [qty]: 34



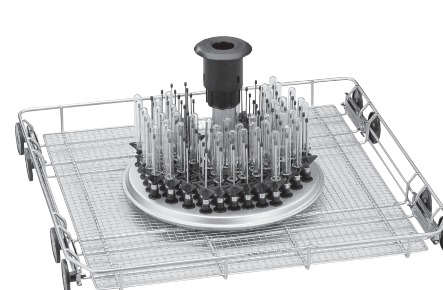
## O 184

### Upper basket, for centrifuge tubes, phials and test tubes.

- Equipped with 96 injector nozzles
- Equipped with a connection for hot air drying
- Vertical clearance: 170 mm
- Powder dispensing not possible
- H 260, W 531, D 475 mm, H with drying connection 468 mm

#### Companion pack:

- ID 110, injector nozzle, Ø 2.5 mm, length 110 mm [qty]: 96



## U 184/1

### Lower basket, for centrifuge tubes, phials or test tubes.

- Equipped with 96 injector nozzles
- Only in conjunction with O 175/O 187/O 184 upper baskets
- Vertical clearance: approx. 170 mm
- H 250, W 531, D 515 mm

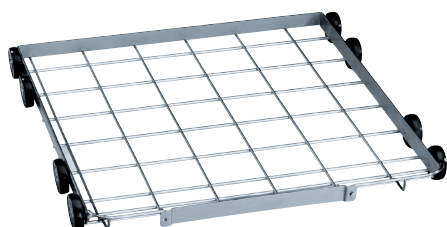
#### Companion pack:

- ID 90, injector nozzle, Ø 2.5 mm, length 90 mm [qty]: 96

Article	Description	Mat. no.	Art. no.	EAN
O 188/2	Upper basket for the optimum loading of different inserts.	7333030	69118802D	4002514556178
O 190/2	Upper basket for the optimum loading of different inserts.	7333050	69119002D	4002514556185
O 175	Upper basket for the optimum loading of laboratory glassware.	3807410	69117501D	4002511114876
O 187	Upper basket for the optimum loading of narrow necked glassware.	3881640	69118701D	4002511808881
O 184	Upper basket for optimum loading of centrifuge tubes, phials or test tubes, for example.	3807480	69118401D	4002511114937
U 184/1	Lower basket for the optimum loading of centrifuge tubes, phials and test tubes.	6439180	69118403D	4002513805659

# Upper and Lower Baskets and Further Components

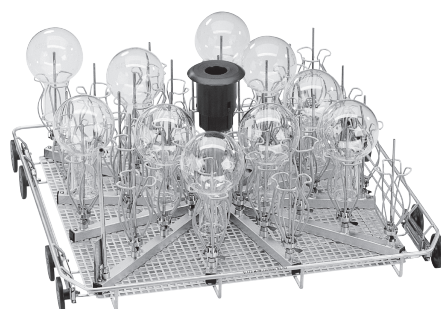
PG 8536



## U 874/1

### Lower basket, for various inserts and mesh trays.

- ML/2 magnetic strip bracket for automatic load carrier detection
- Vertical clearance can vary with different upper baskets
- Vertical clearances in combination with upper basket: O 175 TA approx. 230 mm +/- 20 mm  
O 184 approx. 205 mm +/- 20 mm  
O 187 approx. 225 mm +/- 20 mm  
O 188/2 approx. 270 mm +/- 20 mm  
O 190/2 approx. 220 mm +/- 20 mm
- H 50, W 531, D 515 mm



## U 175/1

### Lower basket, for narrow-necked glassware.

- Equipped with 33 injector nozzles
- Vertical clearance: 170 mm
- Vertical clearance may be less, depending on type of laboratory glassware
- Only in conjunction with O 175/O 187/O 184 upper baskets
- H 250, W 531, D 475 mm

#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 33
- E 353 clip for injector nozzle E 351 [qty]: 33
- Rinse nozzle for powder dispenser [qty]: 1

Article	Description	Mat. no.	Art. no.	EAN
U 874/1	Lower basket for the optimum loading of different inserts and mesh trays.	6442940	69187403D	4002513808919
U 175/1	Lower basket for the optimum loading of narrow necked glassware.	6439170	69117503D	4002513805543

# Mobile Injector Unit for Pipettes

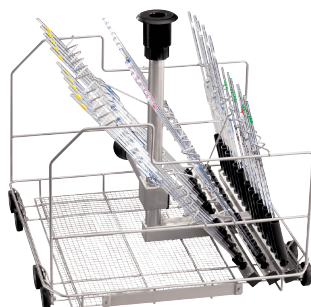
PG 8536



## E 404/1

### Load carrier, max. 38 pipettes.

- Suitable for 38 pipettes in 3 rows
- Row 1: 10 pipettes x 100 ml (up to 550 mm), bar spacing 20 mm
- Row 2: 14 pipettes x 25 ml, bar spacing 26 mm
- Row 3: 14 pipettes x 10 ml, bar spacing 26 mm
- Without magnetic strip bracket for automatic load carrier detection
- H 502, W 535, D 517 mm



## E 405/1

### Load carrier, max. 38 pipettes, connection for hot air drying.

- Suitable for 38 pipettes in 3 rows
- Row 1: 10 pipettes x 100 ml (up to 550 mm), bar spacing 20 mm
- Row 2: 14 pipettes x 25 ml, bar spacing 26 mm
- Row 3: 14 pipettes x 10 ml, bar spacing 26 mm
- Bracket for ML/2 for load carrier recognition/spray arm control
- Connection for hot-air drying unit
- H 502, W 535, D 517 mm



## E 408

### Load carrier, max. 96 pipettes.

- Suitable for 96 pipettes, max. 450 mm
- Compartment size: 16 x 16 mm
- Complete with frame, height 150 mm
- Equipped with a connection for hot air drying
- Bracket for ML/2 for load carrier recognition/spray arm control
- H 502, W 535, D 517 mm

Article	Description	Mat. no.	Art. no.	EAN
E 404/1	Mobile unit for the optimum loading of up to 38 pipettes.	6727910	69540402D	4002514087061
E 405/1	Mobile unit for optimum loading of up to 38 pipettes, connection for hot air drying.	6727920	69540502D	4002514087078
E 408	Mobile unit for the optimum loading of up to 96 pipettes.	3810130	69540801D	4002511116689

# Mobile Injector Unit for Narrow-Necked Glassware

PG 8536



## E 329

### Load carrier, for narrow-necked glassware.

- Equipped with 39 injector nozzles
- H 502, W 535, D 517 mm

#### Companion pack:

- ID 90, injector nozzle, Ø 2.5 mm, length 90 mm [qty]: 4
- ID 110, injector nozzle, Ø 2.5 mm, length 110 mm [qty]: 5
- ID 140, injector nozzle, Ø 4 mm, length 140 mm [qty]: 5
- ID 160, injector nozzle, Ø 4 mm, length 160 mm [qty]: 5
- ID 180, injector nozzle, Ø 4 mm, length 180 mm [qty]: 5
- ID 200, injector nozzle, Ø 6 mm, length 200 mm [qty]: 5
- ID 220, injector nozzle, Ø 6 mm, length 220 mm [qty]: 5
- ID 240, injector nozzle, Ø 6 mm, length 240 mm [qty]: 5
- Rinse nozzle for powder dispenser [qty]: 1



## E 414

### Load carrier, for narrow-necked glassware.

- Equipped with 37 injector nozzles
- Equipped with a connection for hot air drying
- Bracket for ML/2 for load carrier recognition/spray arm control
- H 502, W 535, D 517 mm

#### Companion pack:

- ID 90, injector nozzle, Ø 2.5 mm, length 90 mm [qty]: 4
- ID 110, injector nozzle, Ø 2.5 mm, length 110 mm [qty]: 3
- ID 140, injector nozzle, Ø 4 mm, length 140 mm [qty]: 5
- ID 160, injector nozzle, Ø 4 mm, length 160 mm [qty]: 5
- ID 180, injector nozzle, Ø 4 mm, length 180 mm [qty]: 5
- ID 200, injector nozzle, Ø 6 mm, length 200 mm [qty]: 5
- ID 220, injector nozzle, Ø 6 mm, length 220 mm [qty]: 5
- ID 240, injector nozzle, Ø 6 mm, length 240 mm [qty]: 5
- Rinse nozzle for powder dispenser [qty]: 1



## E 350

### Load carrier, for narrow-necked glassware.

- Equipped with 33 injector nozzles
- H 502, W 530, D 517 mm

#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 15
- E 352 injector nozzle, Ø 6 mm, length 220 mm [qty]: 18
- E 353 clip for injector nozzle E 351 [qty]: 15
- E 354 clip for injector nozzle E 352 [qty]: 18
- Rinse nozzle for powder dispenser [qty]: 1

Article	Description	Mat. no.	Art. no.	EAN
E 329	Mobile unit for the optimum loading of narrow necked glassware.	3809340	69532901D	4002511116108
E 414	Mobile unit for the optimum loading of narrow necked glassware.	3810190	69541401D	4002511116733
E 350	Mobile unit for the optimum loading of narrow necked glassware.	3809490	69535001D	4002511116184



# Mobile Injector Unit for Narrow-Necked Glassware

PG 8536



## E 355

### Load carrier, for narrow-necked glassware.

- Equipped with 16 injector nozzles
- One half vacant for other inserts
- H 502, W 535, D 517 mm

#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 7
- E 352 injector nozzle, Ø 6 mm, length 220 mm [qty]: 9
- E 353 clip for injector nozzle E 351 [qty]: 7
- E 354 clip for injector nozzle E 352 [qty]: 9
- Rinse nozzle for powder dispenser [qty]: 1



## E 385

### Load carrier, for narrow-necked glassware.

- Equipped with 16 injector nozzles
- Equipped with a connection for hot air drying
- Bracket for ML/2 for load carrier recognition/spray arm control
- H 502, W 535, D 517 mm

#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 7
- E 352 injector nozzle, Ø 6 mm, length 220 mm [qty]: 9
- E 353 clip for injector nozzle E 351 [qty]: 7
- E 354 clip for injector nozzle E 352 [qty]: 9
- Rinse nozzle for powder dispenser [qty]: 1



## E 340

### Load carrier, for narrow-necked glassware.

- One half vacant for other inserts
- Equipped with 19 injector nozzles
- H 502, W 535, D 517 mm

#### Companion pack:

- ID 140, injector nozzle, Ø 4 mm, length 140 mm [qty]: 3
- ID 160, injector nozzle, Ø 4 mm, length 160 mm [qty]: 3
- ID 180, injector nozzle, Ø 4 mm, length 180 mm [qty]: 3
- ID 200, injector nozzle, Ø 6 mm, length 200 mm [qty]: 3
- ID 220, injector nozzle, Ø 6 mm, length 220 mm [qty]: 3
- ID 240, injector nozzle, Ø 6 mm, length 240 mm [qty]: 4
- Rinse nozzle for powder dispenser [qty]: 1



## E 380

### Load carrier, for narrow-necked glassware.

- Equipped with 32 nozzles and supports
- Equipped with a connection for hot air drying
- Bracket for ML/2 for automatic mobile unit recognition
- H 502, W 535, D 517 mm

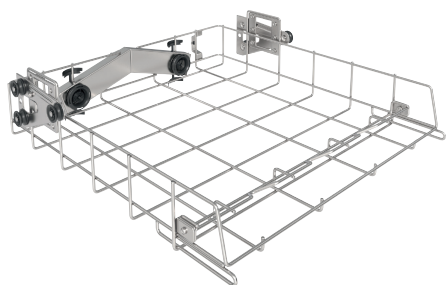
#### Companion pack:

- E 351 injector nozzle, Ø 4 mm, length 160 mm [qty]: 14
- E 352 injector nozzle, Ø 6 mm, length 220 mm [qty]: 18
- E 353 clip for injector nozzle E 351 [qty]: 14
- E 354 clip for injector nozzle E 352 [qty]: 18
- Rinse nozzle for powder dispenser [qty]: 1

Article	Description	Mat. no.	Art. no.	EAN
E 355	Mobile unit for the optimum loading of narrow necked glassware.	3809560	69535501D	4002511116191
E 385	Mobile unit for the optimum loading of narrow necked glassware.	3809930	69538501D	4002511116511
E 340	Mobile unit for the optimum loading of narrow necked glassware.	3809410	69534001D	4002511116177
E 380	Mobile unit for the optimum loading of narrow necked glassware.	3809880	69538001D	4002511116467

# Standard Baskets

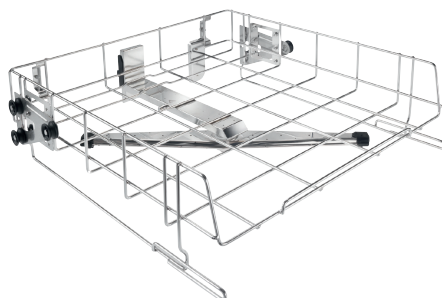
PLW 7111



## APLW 106

### Basket, for injector modules or inserts.

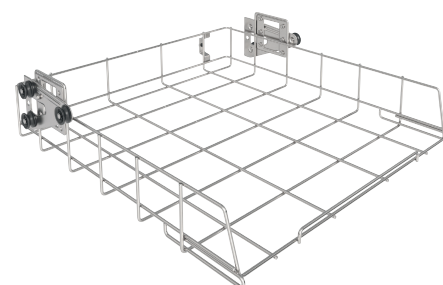
- For use on levels 1 to 4
- Basket with two docking connections
- For loading up to 2 injector modules or inserts
- Automatic closing of the connections when not in use
- Clearances: Width 507 mm, depth with holding rail 439 mm, without holding rail 525 mm, height dependent on position at which basket 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

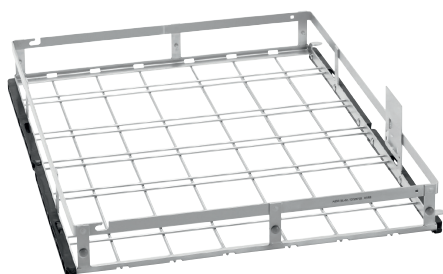
### Baskets, for various inserts.

- 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

Article	Description	Mat. no.	Art. no.	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

# Load Carriers

PLW 8615, PLW 8616, PLW 8617



## A 500

### Load carrier, with 1 level for cleaning laboratory glassware and utensils.

- For holding inserts and mesh trays
- Extendable to 2 levels with A 603
- Load clearances on Level 1 w/o 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

### Onset, adds second level to A 500 load carrier.

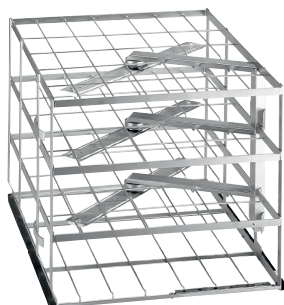
- With spray arm
- H 372, W 611, D 784 mm



## 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 506

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

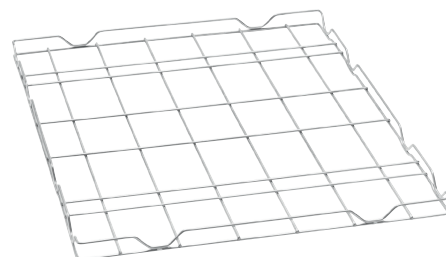
- For holding inserts and mesh trays
- Clearances:
  - Level 1: H 112.5, W 585, D 780 mm
  - Levels 2 and 3: H 112.5, W 595, D 780 mm
  - Level 4: H 114, W 595, D 780 mm
- H 555, W 650, D 790 mm



## 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) 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 load carrier.

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

Article	Description	Mat. no.	Art. no.	EAN
A 500	Mobile unit with 1 level for cleaning laboratory glassware and utensils.	10973880	69650001D	4002516050421
A 603	Attachment for the expansion of the A 500 mobile unit to 2 levels.	10973980	69660301D	4002516050520
A 505	Mobile unit with 3 levels for cleaning laboratory glassware and utensils.	10998970	69650500D	4002516062998
A 506	Mobile unit with 4 levels for cleaning laboratory glassware and utensils.	10999130	69650600D	4002516063223
A 501	Mobile unit with 4 levels for cleaning laboratory glassware and utensils.	10973890	69650101D	4002516050438
A 601	Insert for the addition of another level in mobile unit A 501.	10973970	69660101D	4002516050513

# Load Carriers

PLW 8615, PLW 8616, PLW 8617



## A 503

### Load carrier, with racks, for laboratory glassware and utensils.

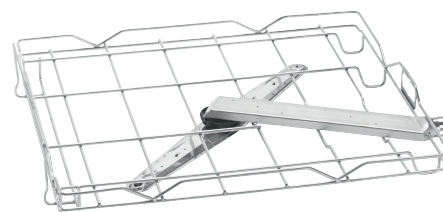
- For holding inserts and mesh trays
- Depending on the height, up to 6 injector modules can be used on 2 levels
- Upper rail and upper strut can be removed
- Clearances H 670, W 565, D 770 mm
- H 433, W 650, D 790 mm



## APLW 511

### Load carrier, with racks, for laboratory glassware and utensils.

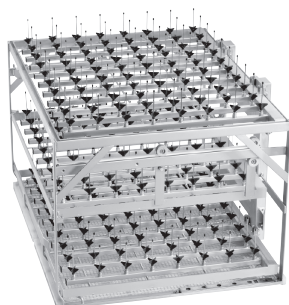
- Depending on the height, up to 9 injector modules can be used on 3 levels
- Some rails and struts are removable
- Vertical clearances:
  - ... Level 1: 205 mm
  - ... Level 2: 205 mm
  - ... Level 3: 215 mm
- Clearances without injector modules and racks:
  - H 670, W 565, D 770 mm
  - H 533.5, W 636,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



## A 606

### Module, for lab glassware inserts on the top level of A 503 load carrier.

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



## E 950/1

### Load carrier, for narrow-necked glassware on 3 levels.

- Equipped with 232 nozzles
- Levels 1 + 3: 80 nozzles each, ID 90 (2.5 x 90 mm)
- Level 2: 72 nozzles each, ID 90 (2.5 x 90 mm)
- Maximum vertical clearance on all three levels: 148 mm
- Requires A 857 conversion kit (not included) for use in PLW 86
- H 572, W 640, D 790 mm



## E 957

### Load carrier, 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

#### Companion pack:

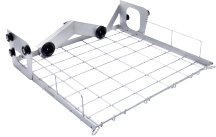
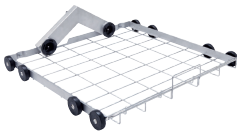
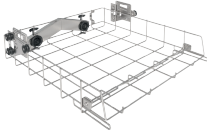




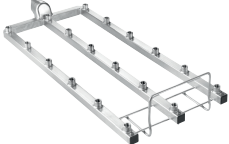
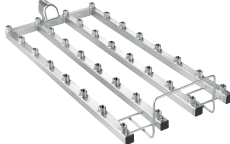

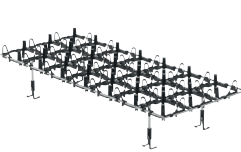
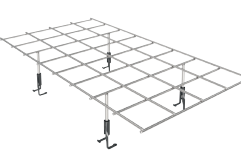








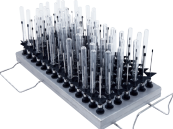


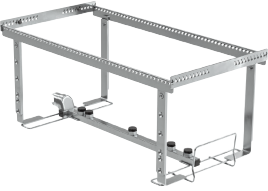



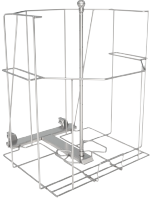
- Magnetic strip for automatic mobile unit recognition (incl. magnets) [qty]: 1

Article	Description	Mat. no.	Art. no.	EAN
A 503	Mobile unit no levels, for cleaning laboratory glassware/utensils.	10973900	69650301D	4002516050445
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	10973990	69660601D	4002516050537
E 950/1	Mobile unit for the optimum loading of narrow necked glassware on 3 levels.	6696990	69595002D	4002514072708
E 957	Mobile unit for the optimum loading of up to 12 large volume laboratory glassware.	5746300	69595701D	4002513298789



# EasyLoad

## Overview

PG 85xx		PLW 7111	
Baskets	 A 100	 A 150	 APLW 106
PG 85xx + PLW 7111			
Loaded injector modules	 A 300/3	 A 301/5	 A 302/3
Unloaded injector modules	 A 300/2	 A 301/4	 A 302/2
Holder rack	 A 860	 A 861	 A 862
PG 85xx + PLW 7111 + PLW 86xx			
Injector nozzles	 A 840	 A 841	 A 842
	 A 843	 A 844	 A 845
	 APLW 870 for A 300 and A 620		
PG 85xx + PLW 7111		PLW 7111	
Further injector modules	 A 303	 A 304	 A 306/1
	 A 312		
Injector module for large laboratory glassware	 A 313	Injector nozzles for A 313	
	 A 846	 A 847	 A 848
	 APLW 215		

PLW 86xx

Baskets



APLW 511



A 503

PLW 86xx

Unloaded  
Injector modules



A 620



A 621

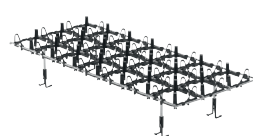


A 622

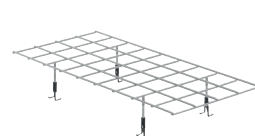
Holder rack



A 850



A 851



A 852

PG 85xx + PLW 7111 + PLW 86xx

Injector nozzles



A 840



A 841



A 842



A 843



A 844



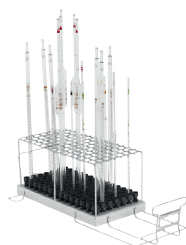
A 845



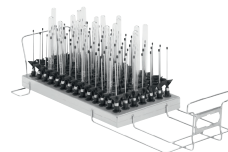
APLW 870 for A 300 and A 620

PLW 86xx

Further injector modules



A 613



A 605



A 623

Injector module for large  
laboratory glassware



A 612

Injector nozzles  
for A 612





A 846

A 847

A 848

# Compatibility With Entire Product Range

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

EasyLoad components				
Laboratory glasswashers		Injector modules	Injector nozzles	Holder rack
<b>Current model series</b>				
	PG 8504	◆	◆	◆
	PG 8583	◆	◆	◆
	PG 8593	◆	◆	◆
	PG 8583 CD	◆	◆	◆
	PG 8536	—	◆	—
<b>SlimLine</b>				
	PLW 7111	◆	◆	◆
<b>Large machine series</b>				
	PLW 8615	◆	◆	◆
	PLW 8616	◆	◆	◆
	PLW 8617	◆	◆	◆
<b>Discontinued model versions</b>				
	G 7825	—	◆	—
	G 7883	—	◆	—
	G 7893	—	◆	—
	G 7883 CD	—	◆	—
	PG 8527	—	◆	—
	PG 8535	—	◆	—
	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

PG 8504, PG 8583, PG 8593, PG 8583 CD, PLW 7111



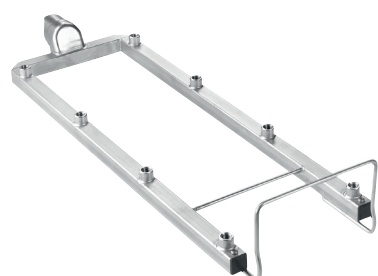
### A 300/3

#### Injector module for optimum loading of laboratory glassware – equipped with 8 nozzles.

- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (250 - 1,000 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 [qty]: 4
- A 841, injector nozzle Ø 6 mm, length 210 mm [qty]: 4



### A 300/2

#### Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.

- Suitable for lab. glassware incl. Erlenmeyer and round flasks.
- Module without injector nozzles – Configuration 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



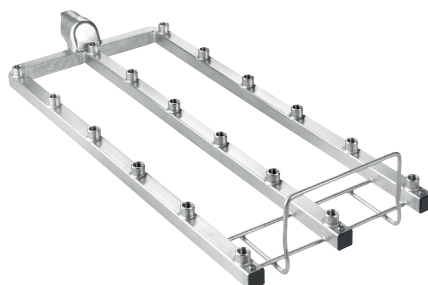
### A 301/5

#### Injector module for optimum loading of 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 [qty]: 9
- A 843, injector nozzle Ø 4 mm, length 185 mm [qty]: 9



### A 301/4

#### Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.

- Suitable for lab. glassware incl. Erlenmeyer and round flasks.
- Module without injector nozzles – Configuration 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



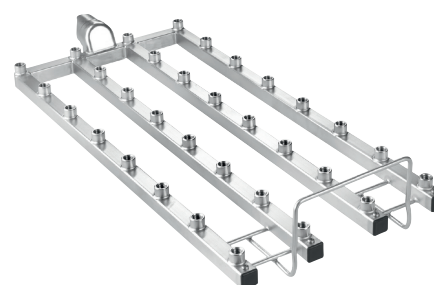
### A 302/3

#### Injector module for optimum loading of 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 [qty]: 16
- A 845, injector nozzle Ø 2.5 mm, length 125 mm [qty]: 16



### A 302/2

#### Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.

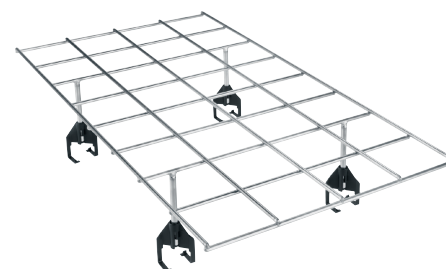
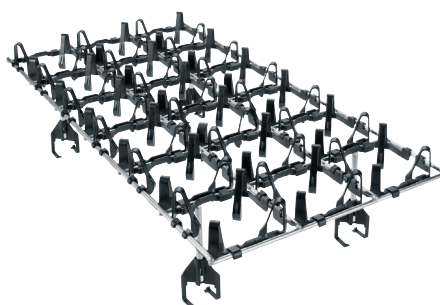
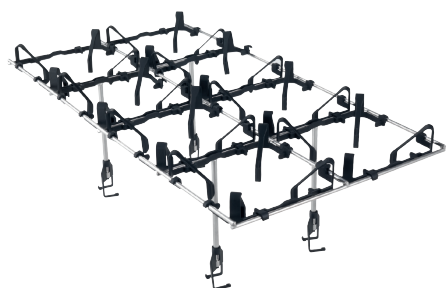
- Suitable for lab. glassware incl. Erlenmeyer and round flasks.
- Module without injector nozzles – Configuration based on individual needs
- For up to 32 injector nozzles
- Particularly suitable for Ø 2.5 mm injectors, e.g. A 844 or A 845, other diameters possible depending on application
- Part of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

Article	Description	Mat. no.	Art. no.	EAN
A 300/3	Module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.	11116900	69630003D	4002516188964
A 301/5	Module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.	11116950	69630105D	4002516188971
A 302/3	Module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.	11116960	69630203D	4002516188988
A 300/2	Module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.	11056770	69630002D	4002516087632
A 301/4	Module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.	11056780	69630104D	4002516087649
A 302/2	Module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.	11056790	69630202D	4002516087656



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

PG 8504, PG 8583, PG 8593, PG 8583 CD, 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 the 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 the 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 the optimum positioning of laboratory glassware
- Plastic-coated

Article	Description	Mat. no.	Art. no.	EAN
A 860	Holder rack for injector modules A 300/2 and A 300/3	11056800	69686000D	4002516087663
A 861	Holder rack for injector modules A 301/4 and A 301/5	11056810	69686100D	4002516087670
A 862	Holder rack for injector modules A 302/2 and A 302/3	11056820	69686200D	4002516087687

# Holder Racks for Injector Modules A 503 and APLW 511

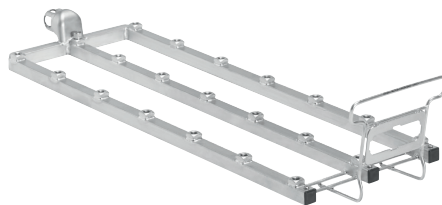
PLW 8615, PLW 8616, PLW 8617



### A 620

#### Injector module, for laboratory glassware, 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 mobile unit
- Part of the EasyLoad system
- H 113, W 133, D 608 mm



### A 621

#### Injector module, for laboratory glassware, 20 injector positions.

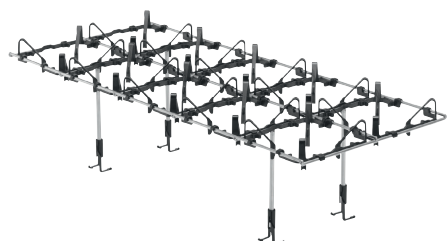
- Can be equipped with up to 20 nozzles based on individual needs
- Particularly suitable for Ø 4 mm injectors, e.g. A 842 or A 843, other diameters possible depending on application
- For use in A 503 mobile unit
- Part of the EasyLoad system
- H 113, W 173, D 608 mm



### A 622

#### Injector module, for laboratory glassware, 36 injector positions.

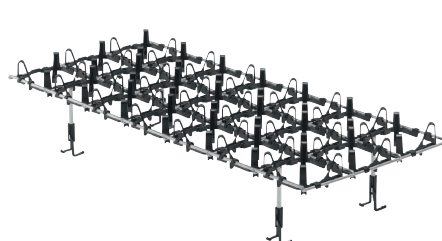
- Can be equipped with up to 36 nozzles based on individual needs
- Particularly suitable for Ø 2.5 mm injectors, e.g. A 844 or A 845, other diameters possible depending on application
- For use in A 503 mobile unit
- Part of the EasyLoad system
- H 113, W 204, D 608 mm



### A 850

#### Holder rack for A 620 injector module.

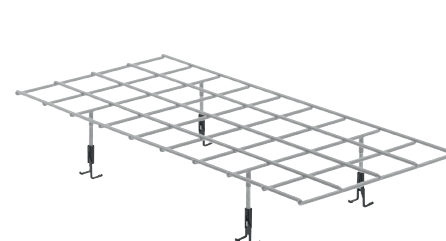
- Grid: 2 x 5 compartments
- For use on A 620 injector module
- For the optimum positioning of laboratory glassware
- Part of the EasyLoad system
- H 161, W 245, D 579 mm



### A 851

#### Holder rack for A 621 injector module.

- Grid: 3 x 7 compartments
- For use on A 621 injector module
- For the 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 the optimum positioning of laboratory glassware
- Part of the EasyLoad system
- H 90, W 256, D 562 mm

Article	Description	Mat. no.	Art. no.	EAN
A 620	Module for the optimum reprocessing of laboratory glassware, 10 injector positions.	10999100	69662000D	4002516063391
A 621	Module for the optimum reprocessing of laboratory glassware, 20 injector positions.	10999110	69662100D	4002516063407
A 622	Module for the optimum reprocessing of laboratory glassware, 36 injector positions.	10999120	69662200D	4002516063414
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



### 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 70 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

# Injector Nozzles

PG 8504, PG 8583, PG 8593, PG 8583 CD, PLW 7111, PLW 8615, PLW 8616, PLW 8617

Article	Description	Mat. no.	Art. no.	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



# Injector Nozzles for Sedimentation Cones and Further Injector Modules

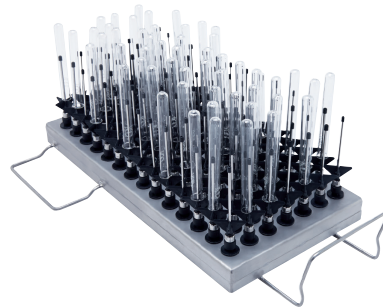
PG 8504, PG 8583, PG 8593, PG 8583 CD, PLW 7111



### A 303

#### Injector module, for optimum loading of up to 98 pipettes.

- Suitable for 98 measuring and full pipettes, for example
- Height of holder rack: 150 mm
- Vertical clearance without upper basket: 450 mm (with A 150 lower basket)
- Not for use in PG 8504
- 1 unit can be inserted into each of the baskets A 150 and APLW 106
- H 185, W 222, D 471 mm



### A 304

#### Injector module, for optimum loading of up to 98 pipettes.

- Suitable for 98 centrifuge tubes, phials, 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



### A 306/1

#### Injector module, ideal 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
- Max. load height: 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 width, 118 mm across depth
- H 395, W 164, D 475 mm



### APLW 870

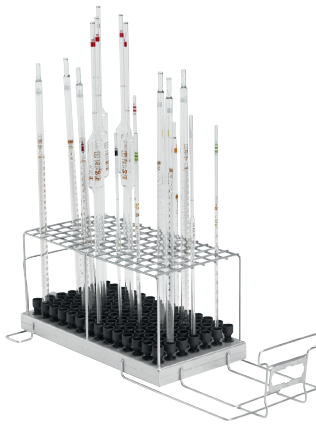
#### Set of injector nozzles, with supports, for cleaning sedimentation cones (Imhoff).

- 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

Article	Description	Mat. no.	Art. no.	EAN
A 303	Module for the optimum loading of up to 98 pipettes.	9862560	69630300D	4002515460825
A 304	Module for the optimum loading of up to 98 pipettes.	9862570	69630400D	4002515460832
A 306/1	Module for the optimum loading of large-volume laboratory glassware.	11035210	69630601D	4002516076254
A 312	Module for reprocessing viscometers.	11054470	69631200D	4002516087397
APLW 870	Set of injector nozzles with support, for cleaning sedimentation vials (Imhoff cones).	12151110	69687000D	4002516638124

# Injector Nozzles for Sedimentation Cones and Further Injector Modules

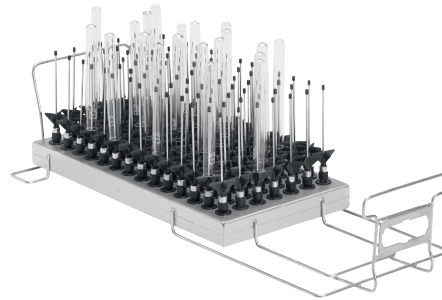
PLW 8615, PLW 8616, PLW 8617



## A 613

### Injector modules, for volumetric and measuring pipettes.

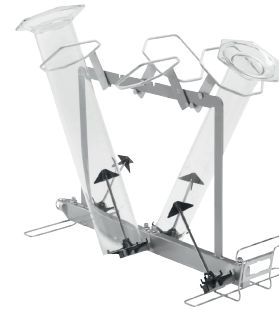
- Equipped with 98 injector nozzles
- Suitable for measuring pipettes with a volume of 1 - 50 ml
- Suitable for volumetric pipettes with a volume of 1 - 100 ml
- For use in A 503 and APLW 511 load carriers
- Capacity dependent on max. diameter of pipettes
- H 195, W 255, D 614 mm



## A 605

### Injector modules, for phials 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 load carriers
- H 160, W 225, D 611 mm



## A 623

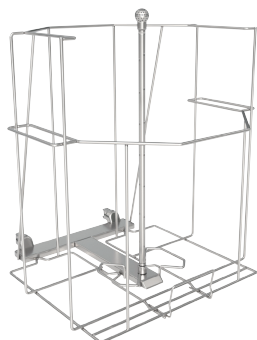
### Injector module, for measuring cylinders.

- 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

Article	Description	Mat. no.	Art. no.	EAN
A 613	Module for the optimum reprocessing of volumetric and measuring pipettes.	10999070	69661300D	4002516063360
A 605	Module for optimum reprocessing of vials and test tubes, etc.	10999010	69660500D	4002516063339
A 623	Module for the optimum loading of measuring cylinders.	11025560	69662300D	4002516071440

# Injector Modules for Large Items of Laboratory Glassware

PLW 7111

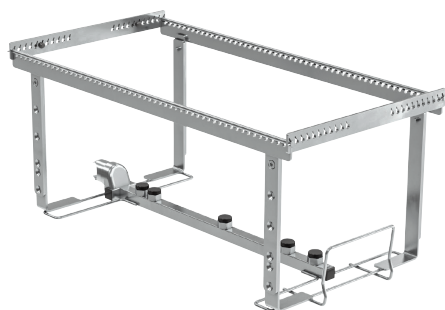


## APLW 215

**Injector module, ideal for large-volume laboratory glassware and carboys 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
- Min. bottle height: 560 - 620 mm
- Bottle neck diameter: min. 30 mm internal, max. 80 mm external
- H 532, W 505, D 526 mm

PG 8504, PG 8583, PG 8593, PG 8583 CD, 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 & 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

Article	Description	Mat. no.	Art. no.	EAN
APLW 215	Module for reprocessing of large-volume laboratory glassware and bottles up to 50 litres.	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 mobile unit
- Depending on the diameter, for 2, 3 or 4 load items
- H 361, W 255, D 614 mm

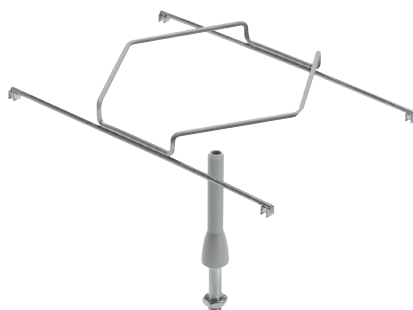
## Injector nozzles for A 313 and A 612 injector modules



## A 846

### Injector nozzle, with support, for 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 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 measuring cylinders.

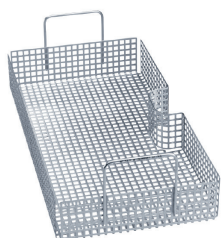
- Nozzle length: 350 mm
- Nozzle Ø: 10 mm, Support Ø: 142 mm
- For injector modules A 313 and A 612

Article	Description	Mat. no.	Art. no.	EAN
A 612	Module for the optimum reprocessing of large-volume laboratory glassware.	10999050	69661200D	4002516063353
A 846	Injector nozzle with support, for cleaning laboratory flasks and round flasks.	11025590	69684600D	4002516071464
A 847	Injector nozzle with support, for cleaning Erlenmeyer flasks.	11025600	69684700D	4002516071471
A 848	Injector nozzle with support, for cleaning measuring cylinders.	11025610	69684800D	4002516071488



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

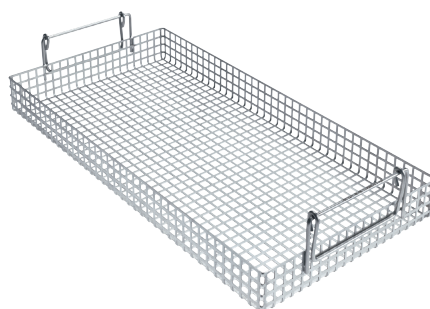
PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



## AK 12

### Insert, for various utensils

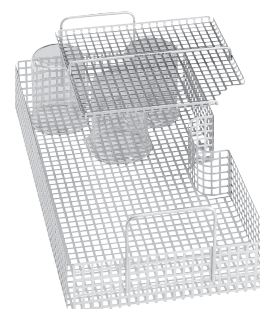
- Suitable for beakers, funnels, breast milk pumps, for example
- Recommended for use in PG 8536
- H 122, W 225, D 434 mm



## AK 12/1

### Insert, for various utensils

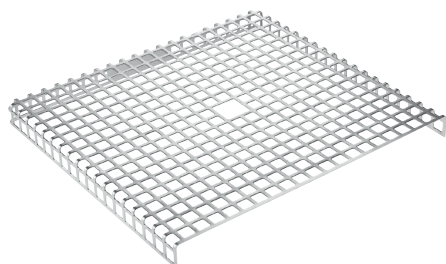
- Suitable for beakers, funnels, breast milk pumps, for example
- With flexible handles
- Suitable for many upper and lower baskets as well as load carriers
- Not for PG 8536
- H 120, W 229, D 427 mm



## A 14

### Lid, for securing delicate load items.

- Lid in stainless steel
- 7 x 7 mm perforations, 3 mm edge
- For AK 12 insert
- Recommended for use in PG 8536
- H 20, W 210, D 210 mm



## A 14/1

### Lid, for securing delicate load items.

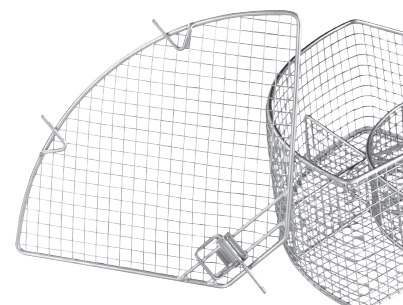
- Lid in stainless steel
- 8 x 8 mm perforations, 3 mm edge
- Covers half of AK 12/1 insert
- Not for use in PG 8536
- H 19, W 207, D 224 mm



## E 149

### Insert, for max. 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 width on base 8 x 8 mm
- H 152, W 200, D 320 mm



## A 13

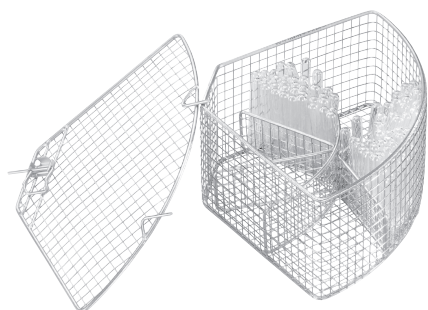
### Lid, for securing delicate load items.

- Lid in stainless steel
- 1 mm wire mesh, 8 mm mesh gauge, 4 mm all-round frame
- As replacement for E103, E104, E105 and E139 inserts
- H 20, W 200, D 320 mm

Article	Description	Mat. no.	Art. no.	EAN
AK 12	Insert for holding different utensils.	3830510	69501201D	4002511115620
AK 12/1	Insert for loading different utensils.	11131690	69501204D	4002516343714
A 14	Lid for fixing delicate wash items.	3981970	69745002D	4002511860995
A 14/1	Lid for securing delicate load items.	11131560	69746003D	4002516340126
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

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

PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



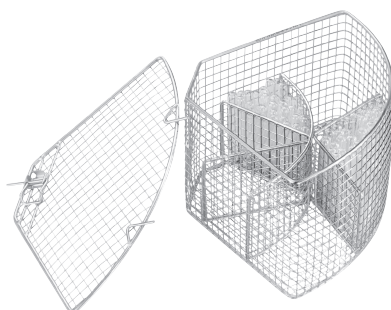
## E 103/1

### 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 [qty]: 1



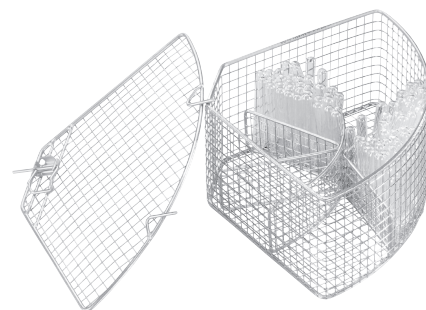
## E 104/1

### 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 [qty]: 1



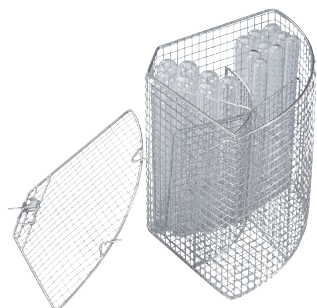
## E 105/1

### 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 [qty]: 1



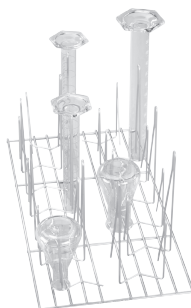
## E 139/1

### 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 [qty]: 1



## 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

Article	Description	Mat. no.	Art. no.	EAN
E 103/1	Insert for the optimum loading of test tubes up to 12 x 75 mm.	6907630	69510302D	4002514231051
E 104/1	Insert for the optimum loading of test tubes up to 12 x 105 mm.	6907640	69510402D	4002514231068
E 105/1	Insert for the optimum loading of test tubes up to 12 x 165 mm.	6907650	69510502D	4002514231075
E 139/1	Insert for the optimum loading of test tubes up to 12 x 200 mm.	6907660	69513902D	4002514231082
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

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

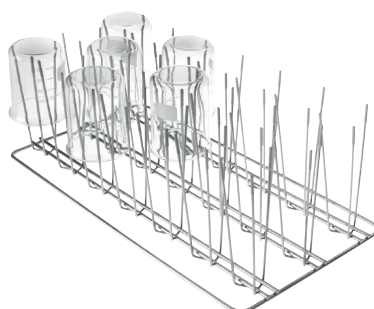
PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



## E 106/2

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

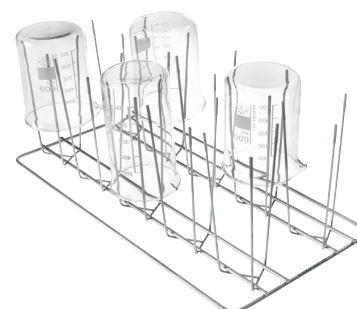
- Equipped with 13 x 175 mm large spring hooks
- The distance between the spring hooks is approx. 85 mm
- H 186, W 220, D 445 mm



## E 109

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

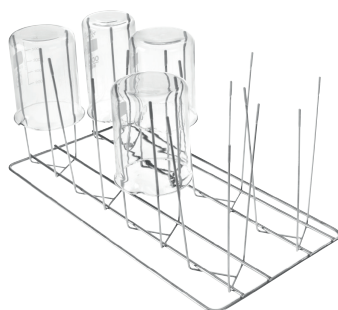
- Suitable for 21 glass beakers, max. 250 ml
- Equipped with 21 x 3 stay bars
- For use in upper and lower basket
- H 155, W 230, D 460 mm



## E 110

### Insert, for beakers, max. 250 – 600 ml.

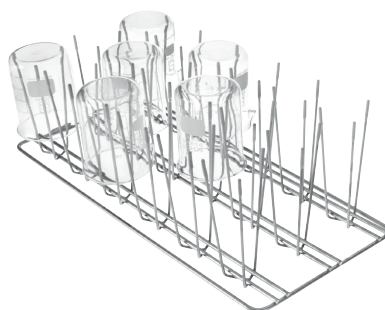
- Suitable for 10 glass beakers between 250 – 600 ml
- Equipped with 10 x 3 stay bars
- For use in lower basket
- H 175, W 230, D 460 mm



## E 111

### Insert, for beakers, max. 600 – 1,000 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

Article	Description	Mat. no.	Art. no.	EAN
E 106/2	Insert for the optimum loading of wide neck flasks, measuring cylinders, etc.	3808330	69510603D	4002511115699
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

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

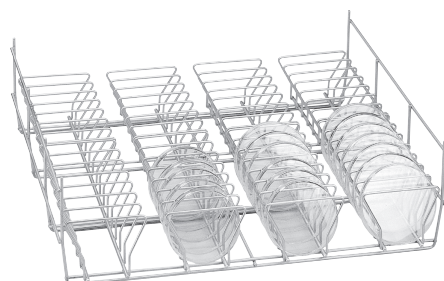
PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



## E 118

### Insert, for half petri dishes.

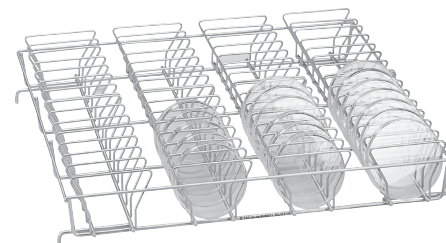
- Suitable for 38 half Petri dishes with Ø 100 mm
- Equipped with 38 holders, height 70 mm, spacing approx. 26 mm
- For use in upper basket
- H 120, W 460, D 445 mm



## 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

Article	Description	Mat. no.	Art. no.	EAN
E 118	Insert for the 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.

PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



## E 494

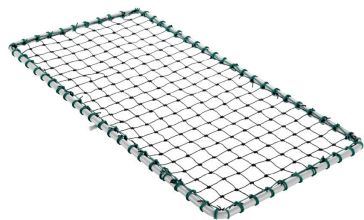
### Insert, for 5 microtiter plates.

• H 35, W 205, D 440 mm

Article	Description	Mat. no.	Art. no.	EAN
E 494	Insert for the gentle holding of 5 microtiter plates.	6570920	69549401D	4002513926064

# Further Components

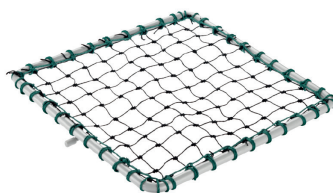
PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



## A 2

### Cover net, for securing delicate load items.

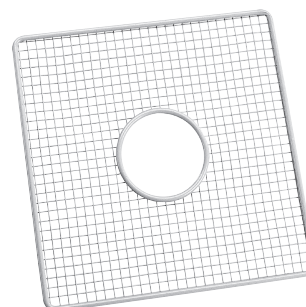
- Suitable for 1/2 inserts
- Plastic-coated metal frame with plastic netting
- Dimensions: 216 x 456 mm.



## A 3

### Cover net, for securing light-weight items in inserts.

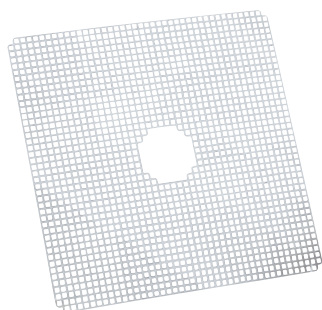
- Plastic-coated metal frame with plastic netting
- Suitable for 1/4 inserts
- 206 x 206 mm



## A 5

### Cover, weighs down light-weight load items.

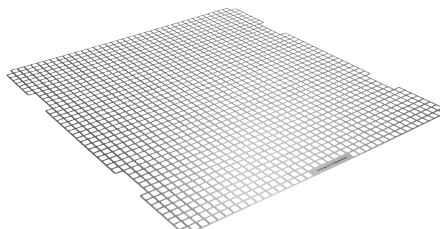
- Stainless-steel frame with plastic netting (material PA 12)
- For use in O 184, U 184, E 747, E 947
- H 8, W 280, D 280 mm



## A 11/1

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

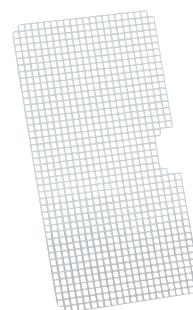
- With 7 x 7 mm perforations
- For use in upper and lower basket
- Recommended for use in PG 8536
- H 1, W 433, D 433 mm



## 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
- Not for use in PG 8536
- H 1, W 476, D 443 mm



## A 12/1

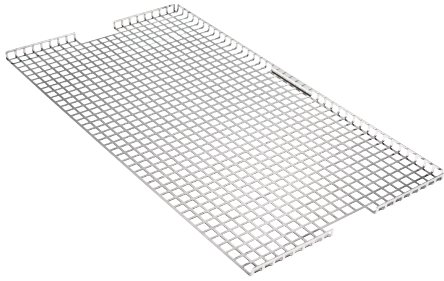
### Insert, for gentle cleaning of delicate load items by softening the impact of the spray jet.

- With 7 x 7 mm perforations
- For use in upper and lower basket
- Recommended for use in PG 8536
- H 1, W 429, D 224 mm

Article	Description	Mat. no.	Art. no.	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 5	Lid for optimum securing of delicate items.	5637190	69500501D	4002513126310
A 11/1	Insert for the gentle cleaning of delicate load items by interrupting the spray jet.	6629660	69501102D	4002513975680
A 11/2	Insert for the gentle cleaning of delicate load items by interrupting the water jet.	11239130	69501103D	4002516340119
A 12/1	Insert for the gentle cleaning of delicate load items by interrupting the spray jet.	6629670	69501203D	4002513975697

# Further Components

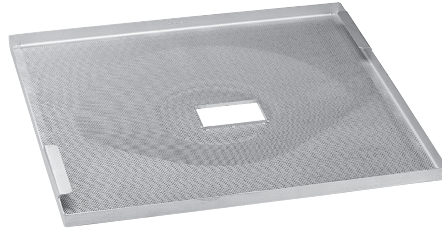
PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536, PLW 7111



## 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
- Not for use in PG 8536
- H 10, W 237, D 449 mm



## E 319/3

**Surface filter, retains labels and glass splinters.**

- Surface filter for coarse soil
- Filters out laboratory glassware labels
- Prevents contamination with splinters of broken glass
- For use in all G 78 undercounter laboratory glasswashers
- W 500, D 488 mm



## E 319/4

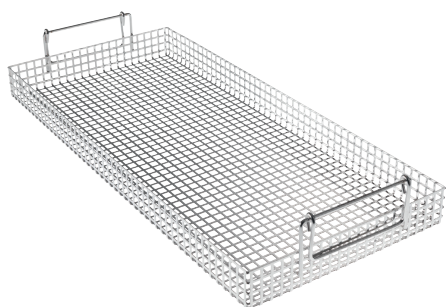
**Surface filter, retains labels and glass splinters.**

- Surface filter for coarse soil
- Filters out laboratory glassware labels
- Prevents contamination with splinters of broken glass
- For use in all PG 85 undercounter laboratory glasswashers
- H 39, W 455, D 513 mm

Article	Description	Mat. no.	Art. no.	EAN
A 12/2	Insert for the gentle cleaning of delicate load items by interrupting the water jet.	11238030	69501205D	4002516237068
E 319/3	Surface filter for optimum protection against contamination from labels or glass splinters.	6477070	69531904D	4002513860238
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

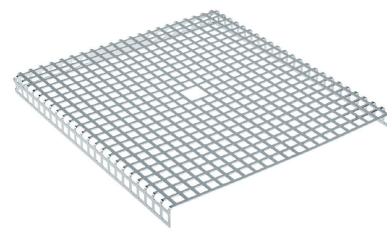
- Suitable for beakers, funnels, breast milk pumps, for example
- With flexible handles
- H 80, W 239, D 535 mm



## A 320

### Insert for gentle cleaning of delicate loads by softening spray 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.

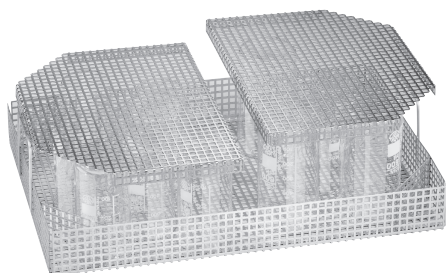
- Lid in stainless steel
- 8 x 8 mm perforations, 3 mm slat
- H 18.7, W 262, D 234 mm

Article	Description	Mat. no.	Art. no.	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



# Inserts and Lids

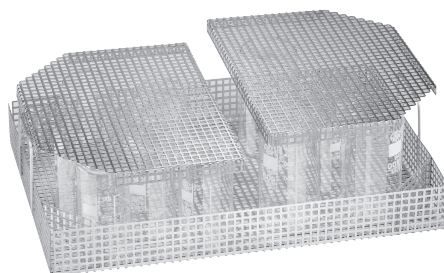
PLW 8615, PLW 8616, PLW 8617



## E 969

### Insert, for various utensils

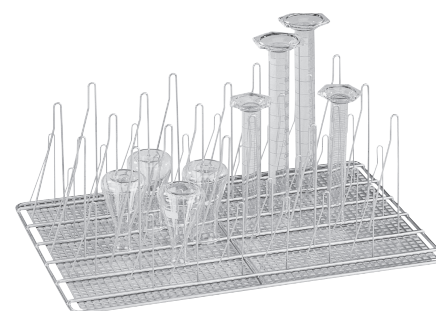
- Perforated sheet-metal plate, 7 x 7 x 3 mm
- Suitable for E 900-4/1, E 935/1, E 975/2, E 941 with E 945
- In E 941 only suitable with E 945.
- H 122, W 363, D 533 mm



## A 19

### Lid, for securing delicate load items.

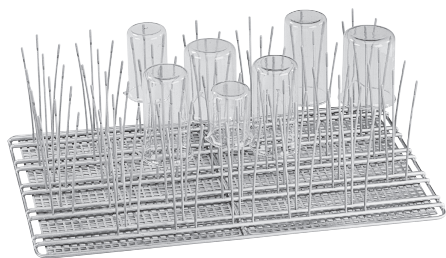
- Perforated sheet-metal plate, 7 x 7 x 3 mm
- Suitable for insert E 969
- H 18, W 251, D 351 mm



## E 960/1

### Insert, for wide-necked Erlenmeyer flasks.

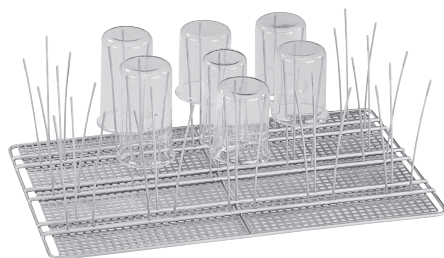
- Equipped with 20 large and 26 small spring hooks
- Suitable for wide-necked Erlenmeyer flasks & measuring cylinders
- H 185, W 357, D 522 mm



## 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

Article	Description	Mat. no.	Art. no.	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

# Magnetic Strip and Magnetic Spray Arms

PG 8536



## ML/2

**Magnetic strip, for automatic load carrier recognition/spray arm monitoring.**

- ML/2 is required for spray arm monitoring
- 5 magnets, configurable
- 15 possible combinations



## ASA 1

**Magnet spray arm, for spray arm monitoring, suitable for O 167, O 173, O 188, O 190.**

- Retrofittable in upper baskets without magnetic spray arm
- H 55, W 75, D 605 mm



## ASA 2

**Magnet spray arm, for spray arm monitoring, suitable for O 191, E 327.**

- Retrofittable in load carriers/upper baskets without magnetic spray arm



## ASA 4

**Magnet spray arm, for spray arm monitoring, suitable for E 439, O 176.**

- Retrofittable in load carriers/upper baskets without magnetic spray arm

Article	Description	Mat. no.	Art. no.	EAN
ML/2	Magnetic strip for automatic recognition of mobile unit/spray arm monitoring	5723270	69745703D	4002513274158

# Injector Nozzles and Further Components

PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536 and PLW 7111



## E 336

### Irrigation sleeve for optimum loading of pipettes. MIS instruments in mobile injector unit

- Secure hold for pipettes, max. 445 mm
- Plastic, with screw fitting
- 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, screw thread



## 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, screw thread



## 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

Article	Description	Mat. no.	Art. no.	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

PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536 and PLW 7111



## ID 90

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

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

Article	Description	Mat. no.	Art. no.	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

PG 8504, PG 8583, PG 8593, PG 8583 CD, PG 8536 and PLW 7111



## ID 220

### Injector nozzle with plastic support, 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, 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

- For E 331 mobile injector unit
- Length 240 mm incl. thread, 4 x 140 mm plus welded, compressed nozzle, 1,5 x 100 mm



## E 362

### Blind stopper, for sealing connections on load carriers.

- Thread M 8 x 1



## A 838

### Set of keys to set basket heights & fitting and removing injector nozzles.

- Set consisting of Torx wrench and open-jaw spanner
- Suitable for Miele upper baskets and mobile units



## A 802

### Nozzle, for rinsing dispenser compartment.

- For use in laboratory washer-disinfectors with powder dispenser
- For use with injector modules
- Suitable for removing powder residues from dispenser compartment
- H 187, W 30, D 15 mm

Article	Description	Mat. no.	Art. no.	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

# Conversion Kits

PG 8504, PG 8583, PG 8593, PG 8583 CD



## UBS 1

**Conversion kit, for use with selected series G 78 load carriers in PG 85 series machines.**

- For older load carriers with drying connection
- H 75, W 235, D 165 mm



## UBS 2

**Conversion kit, for use with selected G 78 load carriers in G 78/PG 85 series machines.**

- For older injector units without drying unit connection



## UBS 3

**Conversion kit, for use with selected G 78 upper baskets in PG 85 series machines.**

- For older load carriers without drying connection
- For older load carriers with welded water supply

PLW 8615, PLW 8616, PLW 8617



## A 857

**Conversion kit, allows use of G 7827/28 and PG 8527/28 lab trolleys on models G 7827/28 & PG 8527/28 in PLW 86xx.**

- Use of existing Miele load carriers in the PLW 86xx series
- For all G 7827, G 7828, PG 8527 and PG 8528 load carriers

Article	Description	Mat. no.	Art. no.	EAN
UBS 1	Conversion kit for use with selected series G 78 load carriers in PG 85 machines.	10131090	69215014D	4002515588970
UBS 2	Conversion kit for use with selected series G 78 mobile units in PG 85 machines.	10131100	69215015D	4002515588987
UBS 3	Conversion kit for use with selected series G 78 upper baskets in PG 85 machines.	10131110	69215016D	4002515588994
A 857	Conversion kit for using lab carts with the G 7827/28 and PG 8527/28 machines in the PG 86xx.	11235960	69685700D	4002516201946

# Transfer Trolley

PLW 8615, PLW 8616, PLW 8617



## TT 86

### Transfer trolley, for loading and unloading washer-disinfectors and laboratory glasswashers.

- 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 874

### Charging station for APLW 869 battery for Switzerland.

- With plug for Switzerland
- 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

Article	Description	Mat. no.	Art. no.	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

# Transfer Trolley

PG 8536



## MC/2

### Transfer trolley, height-adjustable, for loading and unloading washer-disinfectors.

- Equipped with 4 rollers, 2 of which can be locked
- 2 shelves (trough design), handles and docking panel
- H 1003, W 600, D 605 mm



## MT

### Transport trolley, for loading and unloading washer-disinfectors.

- For storing and transporting baskets and inserts
- 4 levels, each height-adjustable by 102.5 mm
- 4 lockable wheels
- Clearances: 549 x 599 mm
- H 1985, W 662, D 616 mm

Article	Description	Mat. no.	Art. no.	EAN
MC/2	Transfer trolley height adjustable, for loading & unloading washer- & disinfectors.	10138690	69200109D	4002515588628
MT	Trolleys for loading & unloading washer- & disinfectors.	3893140	69200102D	4002511820005



# Systems for Reprocessing With Fully Demineralised Water

PG 8504, PG 8583, PG 8593, PG 8583 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 unit
- H 110, W 125, D 52 mm



## VE P 2800

### 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 570, W 230, D 230 mm



## LP 2800

### Water softening 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 570, W 230, D 230 mm



## E 315

### Single-use resin for fully demineralised water, for regeneration of full demineralisation cartridges

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

Article	Description	Mat. no.	Art. no.	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	Full demineralisation cartridge for optimum water preparation.	9782560	69431005D	4002515411711
LP 2800	Demineralisation cartridge, empty for the manual filling of single use resins.	9782590	69431805D	4002515411728
E 315	Full demineralisation single use resin for the regeneration of full demineralisation cartridges	3830350	69431501D	4002511115293

# Systems for Reprocessing With Fully Demineralised Water

PG 8504, PG 8583, PG 8593, PG 8583 CD



## E 316

### Plastic barrel, for refilling single-use resins

- With lid and funnel for single use resin
- Equipped with lid and funnel
- Refill set, max. 30 l
- Refill set for disposable resin (30 l)



## SK

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

- 2 x VA plug connection 3/4",
- 2 x quick connection 3/4"
- Incl. seals for existing set of hoses.



## UfZ

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

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



## VE P 2000

### 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 410, W 0, D 0 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

Article	Description	Mat. no.	Art. no.	EAN
E 316	Plastic barrel for refilling single use resins	3830360	69431601D	4002511115309
SK	Quick connection for the simple and convenient changing of demineralisation cartridges.	9782600	69431901D	4002515411735
UfZ	Conversion kit for two cartridges for the quick change to a full/partial demineralisation cartridge.	10020100	69431905D	4002515552834
VE P 2000	Full demineralisation cartridge for optimum water preparation.	9773410	69431101D	4002515405307
E 313	Wall fitting for the manual production of demineralised water.	3830330	69431301D	4002511115279
E 314	Tap fitting for the manual production of demineralised water.	3830340	69431401D	4002511115286

# Systems for Reprocessing With Fully Demineralised Water

PG 8536



## PG 8597

### **Twin-tank water softener, for the continuous delivery of soft water, max. 40°dH**

- Output: 19 l/min continuous, max. 30 l/min
- Freestanding appliance with rollers, top loaded
- 1 container for 20 kg salt, 2 containers for 4.5 l resin
- Volume-controlled twin-tank system, operation without connection to power supply
- H 570, W 360, D 360 mm

Article	Description	Mat. no.	Art. no.	EAN
PG 8597	Twin-tank water softener for the continuous removal of soft water up to 40 °dH	6943120	69859701D	4002514256283

# Dispensing Components

PG 8504, PG 8583, PG 8593



## PG 8596

### Dispenser unit, for detergents and dispensers, 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 dispenser modules
- Base tray facilitates better residual emptying of canisters
- H 835, W 300, D 600 mm



## PG 8596

### Dispenser unit, for detergents and dispensers, 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 dispenser modules
- Base tray facilitates better residual emptying of canisters
- H 835, W 300, D 600 mm



## DOS K 85/1 flex

### Dispenser module for 5 l canisters, for automatic dispensing of liquid cleaning agents, with 'container empty' monitoring.

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



## DOS K 85 flex

### Dispenser module for 5-10 l canisters, for automatic dispensing of liquid cleaning agents, with 'container empty' monitoring.

- Dispenser monitoring – high process security as per EN ISO 15883
- For dispensing liquid cleaning agent/neutralising agent
- 352 mm siphon for 5 - 10 l canisters, with flexible cap
- Siphon conversion kit for 10 - 30 l canisters available from Service



## DOS G 80/1 Flex

### Peristaltic dispenser pump, for 5 l canisters, with level indicator for automatic dispensing of liquid detergent

- Suitable for commercial fresh water dishwashers from Miele
- 214 mm siphon for 5 l canisters
- Dispenses up to 55 ml per minute
- Adjustable via the dishwasher controls
- Flexible vent valve cap
- H 114, W 114.9, D 138.7 mm



## DOS G 80 Flex

### Peristaltic dispenser pump, with level indicator for automatic dispensing of liquid detergent

- Suitable for commercial fresh water dishwashers from Miele
- 352 mm siphon for 5 and 10 l canisters
- Dispenses up to 55 ml per minute
- Adjustable via the dishwasher controls
- Flexible vent valve cap
- H 114, W 114.9, D 138.7 mm

Article	Description	Mat. no.	Art. no.	EAN
PG 8596	Dispensing cabinet for process chemicals and dispenser modules	10087340	69859602D	4002515558324
PG 8596	Dispensing cabinet for process chemicals and dispenser modules	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 G 80/1 flex	Hose dispenser pump for 5 l containers 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



# Dispensing Components

PG 8536



## DOS S 20

### Bellows-type dispenser pump, for dispensing liquid acidic products.

- For dispensing rinsing agent, neutralising agent
- Retrofittable by Service



## DOS NA 120

### Bellows-type dispenser pump, for dispensing liquid neutral/alkaline products.

- For dispensing liquid cleaning agent, emulsifier
- For dispensing chemical disinfectant
- Retrofittable by Service

Article	Description	Mat. no.	Art. no.	EAN
DOS S 20	Bellows dispenser pump for dispensing liquid acid media.	7514600	69226004D	4002514641904
DOS NA 120	Bellows dispenser pump for dispensing liquid neutral/alkaline media.	7514610	69226005D	4002514641911

# Plinths

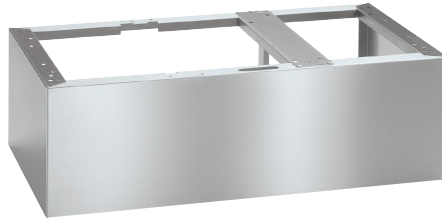
PG 8504, PG 8583, PG 8593, PG 8583 CD



## UG 30-60/60-85

### Box plinth, 60 cm deep, 60 cm wide.

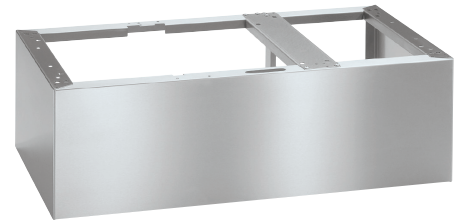
- Suitable for all machines with a width and depth of 60 cm
- H 317, W 600, D 600 mm



## UG 30-90/60-85

### Box plinth, for machine and side unit, 60 cm deep, 90 cm wide.

- For use in Aqua Purificator PG 8595 and DOS cabinet PG 8596
- H 300, W 897, D 542 mm



## UG 30-90/70-85

### Box plinth, 70 cm deep, 90 cm wide.

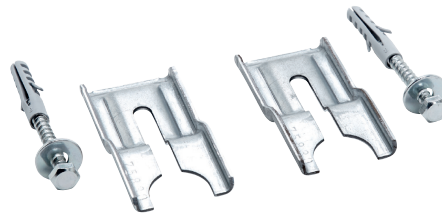
- Suitable for all machines, width 90, depth 70 cm
- H 317, W 900, D 700 mm



## UG 70-60/80

### Plinth with door, for ergonomic loading and unloading of dishwashers, height 70 cm.

- To accommodate accessories, e.g. canisters and dispensing modules
- With lockable door and floor tray
- With holder for conductivity or flowmeter
- With anchor point for LED for status display
- Can be bolted to machine
- H 717, W 597, D 547 mm



## BBF 80

### Floor bolts to anchor down machine feet

- For excellent stability in extreme installation situations

Article	Description	Mat. no.	Art. no.	EAN
UG 30-60/60-85	Box plinth to raise the machine, 60 cm deep, 60 cm wide.	10087350	69306001D	4002515558331
UG 30-90/60-85	Box plinth to raise the machine incl. side unit, 60 cm deep, 90 cm wide.	10087360	69309001D	4002515558348
UG 30-90/70-85	Box plinth to raise the machine, 70 cm deep, 90 cm wide.	10210600	69309002D	4002515622506
UG 70-60/80	Plinth base with door for the ergonomic loading and unloading of a dishwasher - height 70 cm.	10031420	67376110D	4002515545294
BBF-80	Floor mounting to anchor the appliance feet.	9715690	67211508D	4002515379516



## ProCare detergents

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**Powder cleaning agent**

**Liquid detergent**

**Neutralising agents**

**Reactivation salt**

**Universal detergent**

**Accessories**

# ProCare Lab – Detergents

## Product overview



### ProCare Lab 11 MA - 10 kg

**Powder detergent, mildly alkaline, 10 kg, for laboratory utensils.**

- Foam damping effect, free from oxidants
- Suitable for the reprocessing phases in washer-disinfectors
- Suitable for all types of materials
- pH value 11.7 – 11.9



### ProCare Lab 10 MA - 5 l

**Liquid detergent, mildly alkaline, 5 l, for laboratory utensils.**

- Free from oxidants and tensides
- Specially developed for Miele Professional
- Suitable for all types of materials
- pH value 11.6 – 11.8



### ProCare Lab 10 MA - 10 l

**Liquid detergent, mildly alkaline, 10 l, for laboratory utensils.**

- Free from oxidants and tensides
- Specially developed for Miele Professional
- Suitable for all types of materials
- pH value 11.6 – 11.8



### ProCare Lab 10 AP - 5 l

**Liquid detergent, alkaline, 5 l for reprocessing laboratory utensils.**

- Free from surfactants, phosphorus compounds and oxidation agents
- Specially developed for Miele Professional
- Suitable for all types of materials
- pH value 12.3 – 12.5



### ProCare Lab 30 C - 5 l

**Acidic neutralisation agent, 5 l, based on citric acid.**

- Free from surfactants, phosphorus compounds and oxidation agents
- Specially developed for Miele Professional
- Suitable for all types of materials
- To be used as neutralising agent or acid pre-cleaner
- pH value 2.6 – 3.0



### ProCare Lab 30 P - 5 l

**Acidic neutralisation agent, 5 kg, based on phosphoric acid.**

- Free from oxidants and tensides
- Specially developed for Miele Professional
- Suitable for all types of materials
- pH value 2.2 – 1.9

Article	Description	Mat. no.	Art. no.	EAN
ProCare Lab 11 MA - 10 kg	Powder cleaning agent, mildly alkaline, 10 kg for optimum reprocessing of laboratory utensils.	10266720	62921101EU1	4002515650851
ProCare Lab 10 MA - 5 l	Liquid detergent, mildly alkaline, 5 l for optimum reprocessing of laboratory glassware and utensils.	10265670	62923101EU1	4002515660812
ProCare Lab 10 MA - 10 l	Liquid detergent, mildly alkaline, 10 l for optimum reprocessing of laboratory glassware and utensils.	10265680	62923201EU1	4002515660300
ProCare Lab 10 AP - 5 l	Liquid detergent, alkaline, 5 l for optimum reprocessing of laboratory utensils.	10265620	62924101EU1	4002515659908
ProCare Lab 30 C - 5 l	Neutralising agent, acidic, 5 l for optimum neutralisation with citric acid based neutralising agent.	10266670	62927101EU1	4002515660744
ProCare Lab 30 P - 5 l	Neutralising agent, acidic, 5 l for optimum neutralisation with phosphoric acid based neutralising agent.	10266490	62928101EU1	4002515660454





# ProCare Lab – Detergents

## Product overview



### ProCare Lab 30 P - 12 kg

#### Acidic neutralisation agent, 12 kg, based on phosphoric acid.

- Free from oxidants and tensides
- Specially developed for Miele Professional
- Suitable for all types of materials
- pH value 2.2 – 1.9

Article	Description	Mat. no.	Art. no.	EAN
ProCare Lab 30 P - 12 kg	Neutralising agent, acidic, 12 kg for optimum neutralisation with phosphoric acid based neutralising agent.	10266500	62928201EU1	4002515660461

# ProCare Lab – Detergents

## Accessories



### 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 - 500 ml

**Universal detergent, mildly alkaline, 500 ml, gentle removal of grease residue and soil.**

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



### CK/1 DIN 51

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



### DTD 2

**Base tray, for secure positioning of canisters.**

- Space for 2 canisters
- Secure place for 5 and 10 l canisters from the ProCare series
- Optimum emptying of media canisters due to storage at an angle
- Suitable for use in an adjacent unit
- H 62, W 420, D 261.9 mm

Article	Description	Mat. no.	Art. no.	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 - 500ml	Multi-purpose cleaner, mildly alkaline, 500 ml for gently removing grease residues and contamination.	12306020	66917701V1	4002516693062
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 Lab – Detergents

## Additional technical information

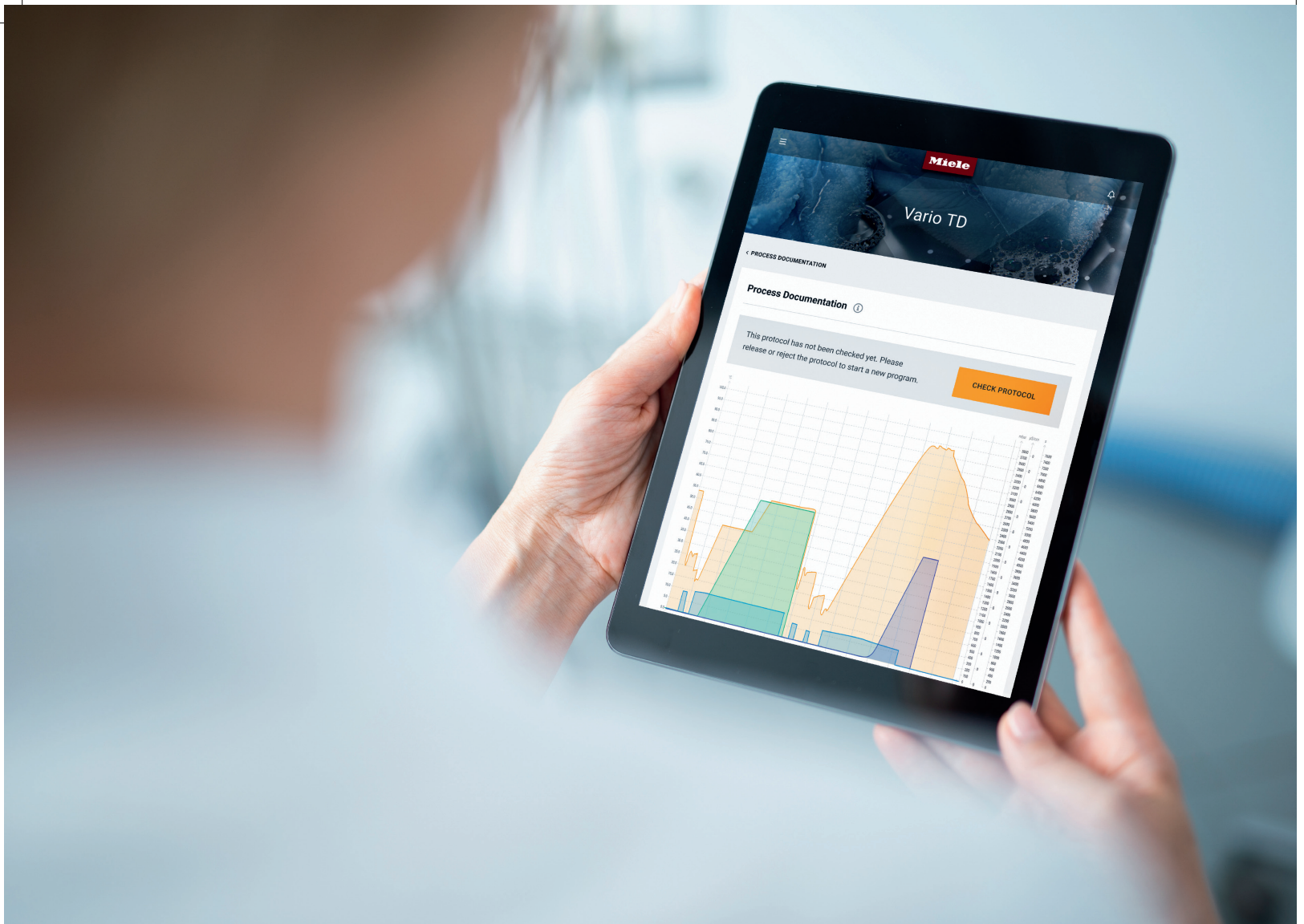
Product designation	Product properties	Main application and soil	Material compatibility
<b>Cleaning</b>			
<b>ProCare Lab 11 MA</b>  Material-compatible multi-purpose detergent ● Mildly alkaline	<ul style="list-style-type: none"> <li>• Contains tensides</li> <li>• Foam-retardant action</li> <li>• Does not contain oxidants</li> <li>• Can be used at all water hardness levels</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Medical, biological and chemical laboratories  <b>Soil:</b> Blood, protein, food residue	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>2</sup> (PE, PP, PVDF, PTFE) <b>Conditionally suitable for:</b> Non-anodised aluminium and non-ferrous metals (preliminary checks required) <b>Not suitable for:</b> Anodised aluminium
<b>ProCare Lab 11 AP</b>  Multi-purpose phosphate-free detergent ● Alkaline	<ul style="list-style-type: none"> <li>• Oxidising effect</li> <li>• Contains tensides</li> <li>• Does not contain phosphates</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Water laboratories, serological institutes, laboratories in the phosphate industry  <b>Soil:</b> Inorganic and organic soils	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>2</sup> (PE, PP, PVDF, PTFE) <b>Not suitable for:</b> Light alloys and non-ferrous metals, aluminium, anodised aluminium
<b>ProCare Lab 10 MA</b>  Material-compatible multi-purpose detergent ● Mildly alkaline	<ul style="list-style-type: none"> <li>• Free from oxidants and tensides</li> <li>• Can be used at all water hardness levels</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Medical, biological and chemical laboratories  <b>Soil:</b> Blood, protein, nutrient residues	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>2</sup> (PE, PP, PVDF, PTFE) <b>Conditionally suitable for:</b> Non-anodised aluminium and non-ferrous metals (preliminary checks required) <b>Not suitable for:</b> Anodised aluminium
<b>ProCare Lab 10 AP</b>  Multi-purpose phosphate-free detergent ● Alkaline	<ul style="list-style-type: none"> <li>• Free from tensides, phosphates, oxidants and silicates</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Medical, biological, micro-biological and chemical laboratories, water laboratories, phosphate industry, laboratories in food processing, cosmetics, pharmaceutical, mineral oil and other industries  <b>Soil:</b> Stubborn and dried-on residues	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>2</sup> (PE, PP, PVDF, PTFE) <b>Not suitable for:</b> Light alloys and non-ferrous metals, aluminium, anodised aluminium
<b>ProCare Lab 10 AT</b>  Special-purpose detergent containing tensides ● Mildly alkaline	<ul style="list-style-type: none"> <li>• Contains tensides</li> <li>• Free from phosphates, oxidants and silicates</li> <li>• Can be used at all water hardness levels</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Laboratories in the food, cosmetics, pharmaceutical and mineral oil industries, etc.  <b>Soil:</b> Stubborn residues such as oils, greases, paraffins, resins, organic dyes	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>2</sup> (PE, PP, PVDF, PTFE) <b>Not suitable for:</b> Light alloys and non-ferrous metals, aluminium, anodised aluminium
<b>ProCare Lab 10 AO</b>  Special-purpose detergent containing chlorine <sup>1</sup> ● Alkaline	<ul style="list-style-type: none"> <li>• Oxidising effect</li> <li>• Does not contain tensides and surface-active agents</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Micro-biological, virological, nuclear medical laboratories, food industry, paints and coatings  <b>Soil:</b> Nutrient residues, blood, protein, radio-active contamination, residue of tissue and cell cultures.	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>2</sup> (PE, PP, PVDF, PTFE) <b>Not suitable for:</b> Light alloys and non-ferrous metals, aluminium, anodised aluminium
<b>Neutralisation</b>			
<b>ProCare Lab 30 C</b>  Neutralisation agent based on citric acid ● Acidic	<ul style="list-style-type: none"> <li>• Mild in use</li> <li>• Free from tensides, phosphates and oxidants</li> <li>• Suitable for a variety of materials</li> </ul>	<b>Main application:</b> Medical, biological, micro-biological and chemical laboratories, water laboratories, phosphate industry, laboratories in food processing, cosmetics and pharmaceutical industries  <b>Soil:</b> Residues soluble in acids	<b>Suitable for:</b> Stainless steel, laboratory glassware, ceramics, plastics <sup>3</sup> (PE, PP, PVDF, PTFE); additionally suitable for the neutralisation of non-anodised aluminium <b>Not suitable for:</b> Alloys and non-ferrous metals, chrome- and nickel-plated parts, anodised aluminium; not suitable for acidic pre-washing of non-anodised aluminium
<b>ProCare Lab 30 P</b>  Neutralisation agent based on phosphoric acid ● Acidic	<ul style="list-style-type: none"> <li>• High performance</li> <li>• Free from oxidants and tensides</li> <li>• Excellent rinsing properties</li> </ul>	<b>Main application:</b> Medical, biological, microbiological and chemical laboratories Laboratories in the food, cosmetics, pharmaceutical and mineral oil industries, etc.  <b>Soil:</b> Limescale and other soils soluble in acids	<b>Suitable for:</b> Stainless-steel, laboratory glassware, ceramics, plastics <sup>3</sup> (PE, PP, PVDF, PTFE) <b>Not suitable for:</b> Light alloys and non-ferrous metals, chrome- and nickel-plated parts, anodised aluminium, aluminium

<sup>1</sup> Note: When using detergents with active chlorine, increased wear of organic materials such as plastics and elastomers in the laboratory glasswasher is to be expected. A temperature of 75°C should therefore not be exceeded in main wash cycles when using detergents containing higher concentrations of chlorine. In order to prevent such wear and tear, Miele recommends that machines be serviced annually or after 1000 operating hours. A failure to perform regular maintenance may invalidate guarantee and warranty claims. Please contact Miele Service or request an offer for a maintenance contract.

<sup>2</sup> Plastics suitable for alkaline machine-based wash according to manufacturer.

<sup>3</sup> Plastics suitable for acidic machine-based wash according to manufacturer





## Communication & Process Documentation

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### Components for networking and reports

Miele MOVE

DataDiary

Segosoft Miele Edition

IPS-Viewer2 documentation system

# Communication & Process Documentation

Components for networking and reports



## XKM 3200 WL LMD

**Communication module, for connection 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 records are saved to machine
- Length of mains cable: 1.5 m; cable extension possible
- This module is not compatible with DataDiary
- H 39, W 88, D 110 mm



## XKM 3000 L Med

**Communication module with Ethernet interface for integration in a network.**

- Ring buffer for up to 30 process reports and 2 graphic reports
- Additional components for direct/network connection not required
- DHCP support for automatic selection of network parameters
- Baud rate: 10/100 Mbit/s
- Length of mains cable: 1.5 m; cable extension possible
- H 39, W 88, D 110 mm



## XKM RS232 10 Med

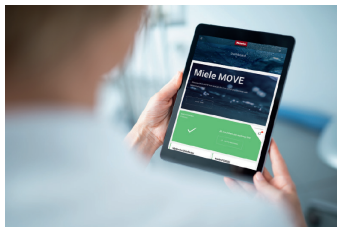
**Communication module with serial interface (RS232) for connection to a printer.**

- Ring buffer for max. 25 process reports
- Differentiation between short and long reports
- Transfer speed: max. 38 kBit/s
- Length of connection cable: 1.5 m; extension up to 15 m possible
- H 39, W 88, D 110 mm

Article	Description	Mat. no.	Art. no.	EAN
XKM 3200 WL LMD	Communication module for connection to Miele MOVE, the Segosoft Miele Edition or other software.	11795280	68822103D	4002516567226
XKM 3000 L Med	Communication module with Ethernet connection for integration in 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 & Process Documentation

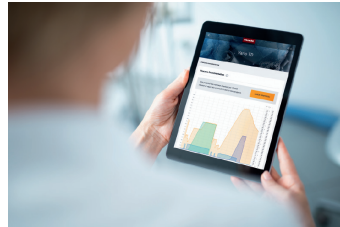
Miele MOVE – Digital solution for efficient machine, data and process management.



## Miele MOVE Free

### Subscription as introduction to the digital management of Miele Professional machines.

- Subscription as introduction to the digital management of Miele Professional machines.
- Faster processes thanks to adaptable user interface
- Increased process security through real-time operating data
- Faster information exchange thanks to networked machines
- Increased transparency through visualised data
- Free usage of all basic functions



## Miele MOVE Starter

### Subscription for extended digital management of Miele Professional machines

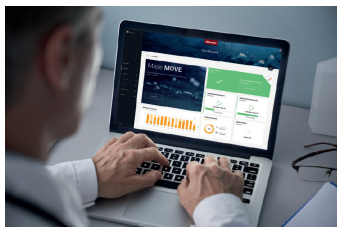
- Subscription for extended digital management of Miele Professional machines
- Faster processes thanks to adaptable user interface
- Increased process security through real-time operating data
- Process documentation incl. individual-related approvals
- Faster support thanks to networked machines
- Increased transparency through visualised data
- Extended range of functions: More users and longer filing period for documented data



## Miele MOVE Advanced

### Subscription for comprehensive digital management of Miele Professional machines

- Subscription for comprehensive digital management of Miele Professional machines
- Faster processes thanks to adaptable user interface
- Increased process security through real-time operating data
- Process documentation incl. individual-related approvals
- Detailed analyses thanks to networked machines
- Increased transparency through visualised data
- Full range of functions: Even more users and longer filing period for documented data



## Miele MOVE Enterprise

### Subscription for comprehensive digital management of Miele Professional machines for key accounts

- Subscription for comprehensive digital management of Miele Professional machines for key accounts
- Faster processes thanks to adaptable user interface
- Increased process security through real-time operating data
- Process documentation incl. individual-related approvals
- Detailed analyses thanks to networked machines
- Increased transparency through visualised data
- No. of users individually negotiable
- Filing period for documented data can be extended to max. 36 months

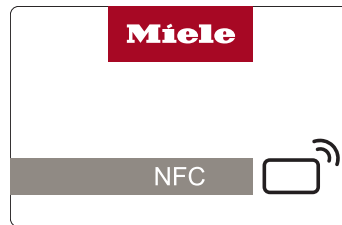
More information on  
Miele MOVE:



Article	Description	Mat. no.	Art. no.	EAN
Miele MOVE Free	Subscription for an introduction to the digital management of Miele Professional machines.	11949390	-	4002516515708
Miele MOVE Starter	Subscription for extended digital management of Miele Professional machines.	11835020	-	4002516454861
Miele MOVE Advanced	Subscription for comprehensive digital management of Miele Professional machines.	11835030	-	4002516454878
Miele MOVE Enterprise	Subscription for comprehensive key account management of Miele Professional machines.	12188710	-	4002516628835

# Process Documentation

## DataDiary – App-based protocols



### DataDiary

#### App-based process documentation for easy, wireless reports on PG 858x/9x.

- Low-maintenance Plug & Play solution
- Secure, wireless data transfer via encrypted WiFi link
- Reports created in PDF format
- User identification via ID with password or NFC tag
- Incl. access to app, communication module and 5 NFC chipcards
- Compatible from Android 10 and iOS 12.4
- H 39, W 88, D 110 mm

### DataDiaryID

#### NFC chipcard, for easy user identification in the DataDiary app

- Easy user registration via NFC tag
- Includes 5 chipcards
- NFC tags are compatible with ISO/IEC 14443 (Type A)
- Use requires NFC-compatible tablet PC
- H 54, W 85.6, D 0.8 mm

Article	Description	Mat. no.	Art. no.	EAN
DataDiary	App-based cycle documentation for easy, wireless logging on PG 858x/9x.	10689630	68819001D	4002515894095
DataDiaryID	NFC chipcards for easy user identification in the DataDiary app.	10735270	68819501D	4002515966464

# Process Documentation

Segosoft Miele Edition – A certified approach to security



## APS 101 Sego

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

- User-controlled release of process reports for all machines
- Protection from manipulation thanks to 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

## APH 110 Net500

**Segosoft network converter, for connection of machines with serial interface to network.**

- Converts serial data (RS 232) to network protocol (TCP/IP)
- Galvanic separation of all connections incl. surge protection
- Power over Ethernet (PoE) enabled
- For use with Segosoft Miele Edition
- Scope of delivery: plug-in power unit (1.4 m)
- H 90, W 109, D 31 mm

## APH 100

**Segosoft Serial Industrial Converter, for serial connection of 2 machines to USB port on PC/laptop.**

- Galvanic separation of all connections incl. surge protection
- Use of a USB port on PC/laptop for 2 machines
- Connection of appliances from other manufacturers on request.
- For use with Segosoft Miele Edition
- Scope of delivery: Plug-in power unit (1.4 m), USB cable (0.5 m)
- H 90, W 109, D 31 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 Px, 21" monitor or larger, recommended HD 1920 x 1080 Px
- HD 1920 x 1080 pixels
- 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 10, 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 surgery: € 247.25 (excl. SegoAssign Plus)
- Flat-rate net fee per surgery: € 339.25 (excl. SegoAssign Plus)

**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. (Flat-rate fee per laboratory: € 247.25 (excl. SegoAssign Plus))**

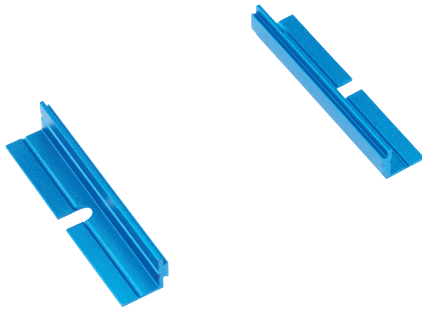
<sup>1</sup> Required additional service: ServiceCard (software maintenance/support)

Article	Description	Mat. no.	Art. no.	EAN
APS 101 Sego	Segosoft Miele Edition (additional licences) for connection with a second or additional appliance.	10019160	68813002D	4002515570708
APH 110 Net500	Segosoft network converter for connection of machines with serial interface for a network.	9687440	68815902D	4002515388464
APH 100	Segosoft serial industrial converter for serial connection of 2 appliances with the USB connection for the PC/laptop	9574000	68815602D	4002515303818



# 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 301

#### Connection cable Type 1, for connection of machine with serial interface to PC.

- Compatible with Miele PLW611x and PG858x/9x with XKM RS232 10 Med
- Crossover cable, length 3 m



### APH 302

#### Connection cable Type 2, 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 Types 1 and 2.



### APH 304

#### Extension cable, 5 m, to extend connection cable Types 1 and 2.



### APH 305

#### Extension cable, 10 m, to extend connection cable Types 1 and 2.

Article	Description	Mat. no.	Art. no.	EAN
APH 190	Wall bracket for Segosoft modules.	9573570	68811004D	4002515350980
APH 301	Connection cable type 1 for connection of a machine with serial interface to a PC.	7951420	68815201D	4002514940526
APH 302	Connection cable type 2 for connection of a machine with serial interface to a PC.	7951410	68815101D	4002514940519
APH 303	Extension cable 3 m, for the extension of connection cable type 1 and 2.	7951430	68815301D	4002514940533
APH 304	Extension cable 5 m, for the extension of connection cable type 1 and 2.	7951440	68815401D	4002514940540
APH 305	Extension cable 10 m, for the extension of connection cable type 1 and 2.	7951450	68815501D	4002514940557

# Process Documentation

## Components and accessories



### APH 406

**Network cable, for network connection, length 3 m (Type 6).**

- Cable Cat. 6
- Colour: Transparent silver



### APH 407

**Network cable, for network connection, length 5 m (Type 7).**

- Cable Cat. 6
- Colour: Transparent silver



### APH 408

**Crossover network cable, for direct PC connection, length 3 m (Type 8)**

- Cable Cat. 6
- Colour: Transparent silver
- Used for the direct connection of Miele machines



### APH 409

**Crossover network cable, for direct PC connection, length 5 m (Type 9)**

- Cable Cat. 6
- Colour: Transparent silver
- Used for the direct connection of Miele machines



### APH 510 PRT 110

**Report printer.**

- Dot matrix printer with ink ribbon
- Compatible with all Miele laboratory glasswashers with exception of PG 8527 and PG 8536
- H 157, W 160, D 239 mm



### APH 530

**Connection cable, for interruption-free connection to printer.**

- Compatible with APH 510 PRT110 report printer
- Length: 10 m

Article	Description	Mat. no.	Art. no.	EAN
APH 406	Network cable for connection to the network, length 3 m (type 6).	7951470	68815701D	4002514940571
APH 407	Network cable for connection to the network, length 5 m (type 7).	7951480	68815705D	4002514940588
APH 408	Crossover network cable for direct connection to PC, length 3 m (type 8).	7951490	68815801D	4002514940595
APH 409	Crossover network cable for direct connection to PC, length 5 m (type 9).	7951500	68815805D	4002514940601
APH 510 PRT 110	Report printer for printing process reports.	11053310	68817004D	8809166679332
APH 530	Connection cable for interruption-free 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 12, W 31, D 17 mm



### APH 591

**Paper reel for APH 510, PRT110 report printers.**

- 5 paper rolls per pack
- Width: 76 mm
- H 79, W 76, D 79 mm



### APH 592

**Colour ribbon for APH 510 PRT110 report printer.**

### RJ 45 connector (not illustrated)

**Adapter for connection of two RJ45 network cables**

- Full duplex
- H 12, W 31, D 17 mm

Article	Description	Mat. no.	Art. no.	EAN
APH 531	Adapter for connecting the Miele printer cable to the appliance.	9573970	68815507D	4002515350997
APH 591	Paper roll for protocol printer APH 500 PRT100 and APH 510 PRT110.	9063410	68817003D	4002515000038
APH 592	Colour transfer belt for protocol printer APH 510 PRT110.	11053500	68817005D	8809166675907
RJ 45	Coupler	7076891	-	4002515227480

# Process Documentation

## Overview

Process documentation with Miele MOVE  
More information on Page 5.

Process documentation							
		Direct connection between PC and appliance		Connection via surgery network			Printer
		Option 1:	Option 2:	Option 3:	Option 4:	Option 5:	
		Connection of PC via serial interface	PC connection with communication module (Ethernet, WiFi)	Network connection to machine with serial interface	Network connection to machine with machine network interface (Ethernet, WiFi)	Network connection to machine with XKM 3200 WL LMD or XKM 3000 L Med communication module	
		e.g. Miele laboratory glasswasher PLW 6111	e.g. Miele laboratory glasswasher PG 858x/9x (with XKM 3200 WL LMD or XKM 3000 L Med)	e.g. Miele laboratory glasswasher PLW 6111	e.g. Miele laboratory glasswasher PLW 7111	e.g. Miele laboratory glasswasher PG 858x/9x	e.g. Miele laboratory glasswasher PG 858x/9x (incl. XKM RS232 10 Med)
The way forward: Digitalisation with Miele MOVE							
	Mat. no.						
Miele MOVE for PG 858x/9x and PLW 7111 laboratory glasswashers	11835020 11835030 12188710				X	X	
DataDiary app							
	Mat. no.						
DataDiary - for PG 858x/9x	10689630				X (connection via WiFi)		
Segosoft Miele Edition							
	Mat. no.						
APS 101 Sego - Segosoft Miele Edition (licence)*	10019160	X	X	X	X	X	
APH 301 connection cable Type 1, serial, 3 m	7951420	X (Type 1 or Type 2, depending on model type)		X (Type 1 or Type 2, depending on model type)			
APH 302 connection cable Type 2, serial, 3 m	7951410						
APH 100 – Serial Industrial converter	9574000	X (optional with two machines)					
APH 303 – Extension cable Type 3, 3 m for connection cable Type 1 or Type 2	7951430	Option					
APH 304 – Extension cable Type 4, 5 m for connection cable Type 1 or Type 2	7951440	Option					
APH 305 – Extension cable Type 5, 10 m for connection cable Type 1 or Type 2	7951450	Option					
APH 110 Net500 – Network converter (RS 232 to Network RJ45)	9687440			X			
APH 406 – Network cable Type 6, 3 m (network connection)	7951470			X (Type 6 or Type 7, depending on required length)	X (Type 6 or Type 7, depending on required length)	X (Type 6 or Type 7, depending on required length)	
APH 407 – Network cable Type 7, 5 m (network connection)	7951480						
APH 408 – Network cable Type 8, crossover, 3 m (direct connection to PC)	7951490		X (Type 8 or Type 9, depending on required length)				
APH 409 – Network cable Type 9, crossover, 5 m (direct connection to PC)	7951500						
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, \*necessary additional service: ServiceCard, software maintenance

# Process Documentation

## IPS-Viewer2 documentation system



### IPS Viewer2 Full Version

**Full process documentation for 1 unit, incl. viewer, load data capture, approvals, archiving and label printing**

- Machine status monitor in web interface
- XML/JSON interface
- Batch viewer
- XML/PDF archiving
- Load data capture and approvals
- Printout of sterile supply labels
- Licence for 1 machine

### IPS-Viewer2 Lite Version

**Basic process documentation for 1 machine incl. view and archiving**

- Machine status monitor in web interface
- XML/JSON interface
- Batch viewer
- XML/PDF archiving
- Licence for 1 machine

### IPS-Viewer2 Update

**Software update for full version and & lite version**

- Software update for updating existing IPS-Viewer2, e.g. for new features and device drivers
- Price per connected machine

### Further components and services

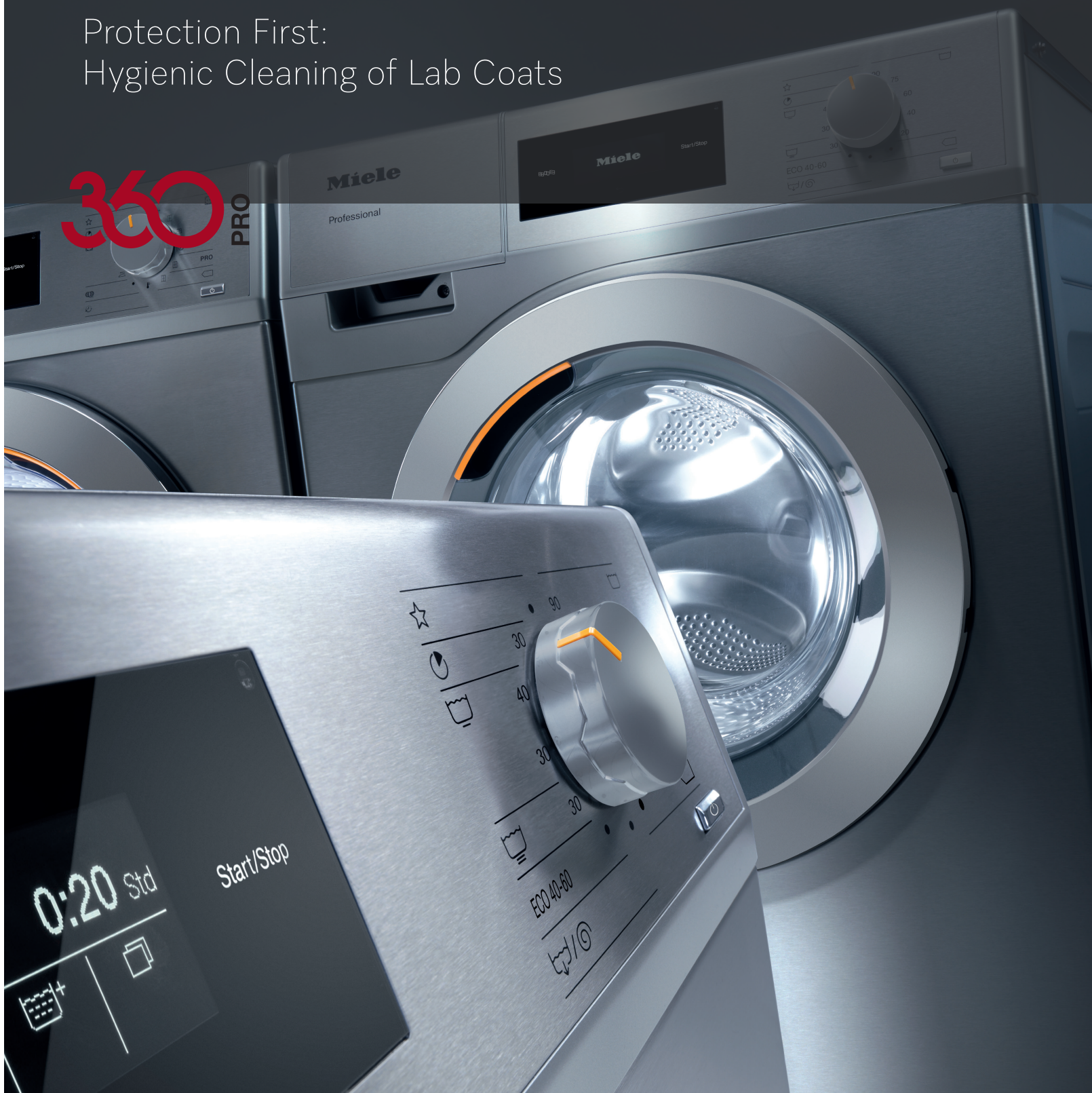
**Further software components and services on request**

- Add-ons for extended archiving or extended statistics
- Hardware such as Com servers, label printers and barcode readers
- Validation / qualification
- Software support
- Installation support and modifications

Article	Description	Mat. no.	Art. no.	EAN
IPS-Viewer2 Full Version	Full process documentation for 1 machine incl. viewer, load recording, release, archiving and label printing	-	-	-
IPS-Viewer2 Lite Version	"Basic process documentation for 1 machine incl. viewer and archiving"	-	-	-
IPS-Viewer2 Update	Software Update for Full Version & Lite Version	-	-	-
Further components & services	Further software components and services on request	-	-	-



## 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.

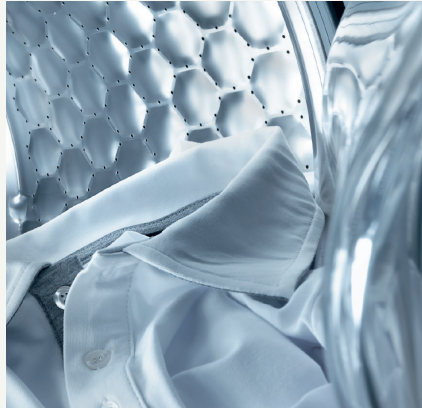
# The Machines Make the Difference – All Aspects Must Be Just Right

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 cycles: Washing and drying programmes lasting only 87 minutes<sup>1</sup>
- Small footprint of less than 1 m<sup>2</sup>
- Intuitive touch display
- Honeycomb drum for gentle but thorough cleaning
- Product longevity: Designed for 30,000 programme cycles
- 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 pathogens, 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

**+ PROHygiene**

<sup>1</sup> When using a PWM 507/508/907/908 with a programme running time of 49 minutes in the 60° programme and with a hot water connection and drying with PDR507 EL vented dryer with a running time of 37 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



- 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 surgery



# LITTLE GIANTS Hygiene Washing Machines

Load capacity 7 kg / M Select controls / Performance



Washing machine	PW 507 Hygiene
Programme controls	M Select
Load capacity [kg]	7
Drum volume [l]	64
Max. spin speed [rpm]	1,600
g factor/residual moisture <sup>1</sup> [%]	704/45
Cycle time <sup>2</sup> [mins.]	49
Heating type	EL
Drainage [DP DN 22 / DV DN 70]	Drain pump or drain valve
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  
<sup>1</sup> Residual moisture after hot final rinse, <sup>2</sup> Cycle time in <sup>1</sup>Coloureds 60°C, hot water fill

Designation	Front	Load	Electrical connection	Mat. no.	Art. no.	EAN
PWM 507 Hygiene [EL DV]	LW	7 kg	2N~ 400V 50HZ	11588410	51507241GB	4002516361718
PWM 507 Hygiene [EL DV]	LW	7 kg	230V~	11588400	51507244GB	4002516361824

## Hygiene model version

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

## M Select control system

- Rotary selector and segment touch display
- 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
- Dispenser adapter for automatic dispensing of liquid detergent

## XCI box

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

# LITTLE GIANTS Tumble Dryers

Load capacity 8 kg / M Select controls / Performance



Dryers	PDR 508 EL	PDR 508 HP
Programme controls	M Select	M Select
Drying system	Vented	Heat pump <sup>2</sup>
Load capacity [kg]	8	8
Drum volume [l]	130	130
Cycle time Cottons/Mixed loads <sup>1</sup> [mins.]	42/37	79/67
Heating type	EL	HP
Heater rating [kW]	6.14	–
Vented	DN 100	–
Front colour / material	LW or SST	LW or SST
External dimensions H/W/D [mm]	850/596/717	850/596/777

EL = Electric, HP = Heat pump, LW = Lotus white, enamelled, SST = Stainless steel, <sup>1</sup> Cycle time in Normal Dry programme, <sup>2</sup> Contains FCs, hermetically sealed; Coolant R134a, Coolant quantity 0.61 kg, ODP of coolant: 1430 kg CO<sub>2</sub> e, ODP of machine: 872 kg CO<sub>2</sub> e

Designation	Front	Load	Electrical connection	Mat. no.	Art. no.	EAN
PDR 508 [EL]	LW	8 kg	230V~ 50/60HZ	11945020	52508353GB	4002516527985
PDR 508 [EL]	LW	8 kg	230V~ 50/60HZ	11945030	52508354GB	4002516527992
PDR 508 HP [EL]	LW	8 kg	220-240V~ 50HZ	11945040	52508153GB	4002516529316

## M Select control system

- Rotary selector
- 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 patented PerfectDry system
- Time savings and convenience thanks to large lint filters on vented dryers and excellent performance on heat-pump dryers thanks to a patented heat exchanger filtration 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
- Energy efficiency class A++: Up to 60% energy savings compared with a conventional condenser dryer

## 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

## 360 PRO

Commercial dishwashers are in their element, producing sparkling results, wherever domestic appliances are stretched to their limit. Our ProfiLine units operating on the fresh water principle are geared to commercial use, with short cycle times and long-lasting product quality designed for multiple cycles per day. Combined with ProCare Shine detergents and the optimal automatic dispensing of liquid products, perfect 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 cycles of as little as 17 minutes without any trade-off in terms of cleaning results.



### AutoOpen assisted drying<sup>2</sup>

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

<sup>1</sup> European patent EP 2433549B1

<sup>2</sup> European patent EP 2120671B1

<sup>3</sup> Min. requirements: Android 4.2+ / iOS 9+

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.

COMPLIANT  
WITH MACHINERY  
GUIDELINE  
2006/42/EC

## Further highlights of ProfiLine PFD 10x series



### Flexible baskets + 3D MultiFlex drawer<sup>1</sup>

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 fascia 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)



# SmartBiz / ProfiLine Dishwashers From PFD 10x Series

SmartBiz & ProfiLine frontloader/fresh water system



Dishwasher	PFD 100 SmartBiz	PFD 101	PFD 101 U	PFD 101 i
Construction type	Freestanding unit	Freestanding unit	Undercounter unit	Integrated unit
Capacity [place settings/cycle]	13	13	13	13
Shortest programme cycle [mins.]	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	CW or HW, max. 60°C	CW or HW, max. 60°C	CW or HW, max. 60°C
Water softener	◆	◆	◆	◆
Electrical connection 1N AC 230 V, 50 Hz	◆	–	–	–
Electrical connection 3N AC 400 V, 50 Hz	–	◆	◆	◆
Total rated load [kW]	2.1	7.3	7.3	7.3

Designation	Front	Load	Electrical connection	Mat. no.	Art. no.	EAN
PFD 100 SmartBiz	BW - PA CLST	with baskets	AC 230V 50HZ	11867900	61010000GB	4002516463603
PFD 101	BW - PA CLST	with baskets	AC 230V 50HZ	11605560	61010100GB	4002516367017
PFD 101	BW - PA CLST	with baskets	AC 230V 50HZ	11807820	61010110GB	4002516446132
PFD 101 U	BW - PA CLST	with baskets	AC 230V 50HZ	11605630	61010102GB	4002516367031
PFD 101 i	WF - PA CLST	with baskets	AC 230V 50HZ	11808020	61010111GB	4002516446163

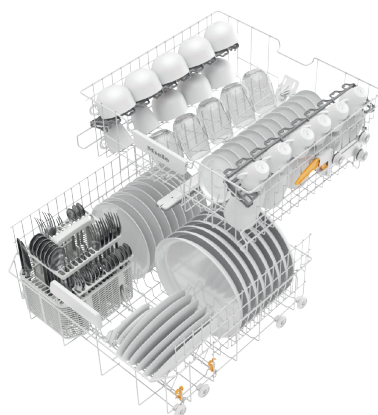
## PFD 100 SmartBiz

## PFD 101, PFD 101 U, PFD 101 i

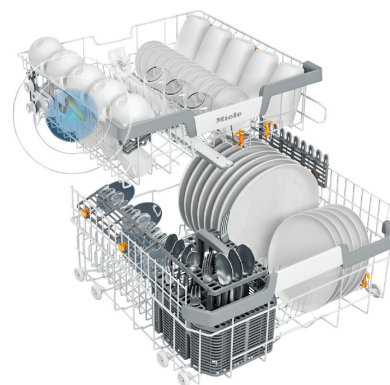
- Entry-line models for staff and office kitchens
- Ideal for up to 5 wash cycles per day

### Plus

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



**Comfort basket set  
(PFD 100 SmartBiz)**



**ExtraComfort baskets  
(PFD 101 and PFD 102)**

# ProfiLine Dishwashers From the PFD 10x Series

ProfiLine frontloader/fresh water system



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

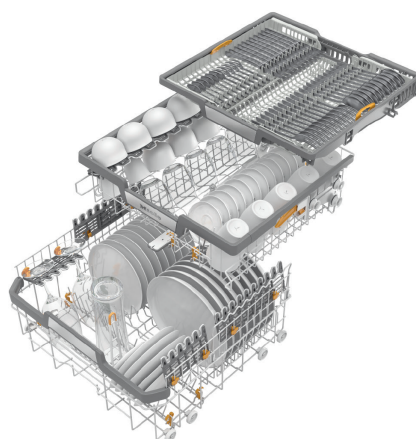
Designation	Casing	Baskets	Electrical connection	Mat. no.	Art. no.	EAN
PFD 103 SCi XXL	WF - PA CLST	with baskets	AC 230V 50HZ	11808080	61010314GB	4002516446187
PFD 104 SCVi XXL	WF	with baskets	AC 230V 50HZ	11808100	61010415GB	4002516446194

## 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 drawer (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 dispenser module)
- Perfect integration into handleless kitchens (PFD 104 SCVi XXL)
- WiFi as standard



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



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# Abbreviations

## Explanation of abbreviations

AD	Connection for demineralised water (Aqua Destillata)	OXI/ ORTHOVARIO	Version with OXIVARIO and ORTHOVARIO
ADP	Feed pump for unpressurised demineralised water	PA	Panel
AE	Stainless-steel casing	PD	Powder dispensing
ATC	Automatic conveyor connection	PR	Printer
ATT	Automatic transfer trolley	RFID	Radio-frequency identification
AW	White casing	RP	Plinth, on wheels
BO	Boiler	RT	Recycling tank
BW	Brilliant white	RV	Room air intake
CL	Chamber lighting	SC	Steam condenser
CLST	Clean Steel	SCi	Integrated dishwasher with 3D+ cutlery tray/3D MultiFlex tray
CM	Conductivity meter	SCVi	Fully integrated dishwasher with 3D+ cutlery drawer / 3D Multiflex drawer
CS	Conductivity meter	Set DOS	Set with external dispenser module
CT	Combi tank	SST	Serial interface
DP	Drain pump	SST	Stainless steel
DS	Dispensing system	SV	Water sampling
DU	Drying unit	TC	Top-box panelling
DV	Drain valve	TH	Heated tank
EL	Electric heating	TT	Transfer trolley
EL/S	Steam/Electric heating	U	Undercounter unit
FP	Plinth, fixed	UL	Certified components for USA/CDN
H14	HEPA H14 filter	USB	USB connection
HLR	Version with bellows-type dispenser pumps	WB	White/black casing
HP	Heat pump (dryers)	WF	Without front
i	Integrated	WS	Water softener
LD	Liquid dispensing	WW	Hot water connection
LFM	Conductivity meter	XXL	Extra large chamber
LW	Lotus white		
OIL	Version with oil- and grease-resistant gaskets		

# Notes





Miele & Cie. KG  
[www.miele.co.uk/p/](http://www.miele.co.uk/p/)