Miele

The perfect fit.
Our SlimLine laboratory glassware washers

Miele Professional. Immer Besser.
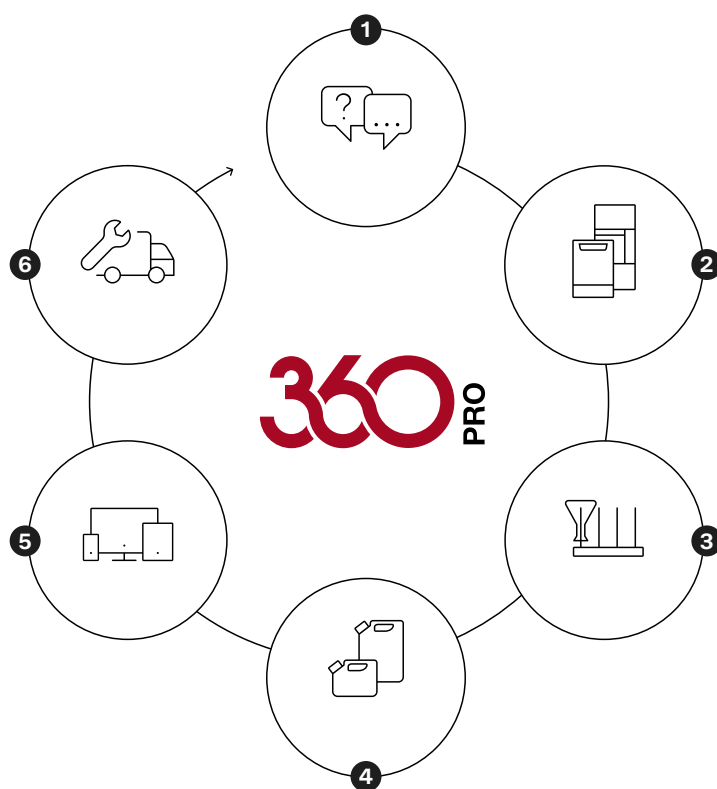
SIMPLEL**O**AD

Miele 360PRO

The holistic system solution for laboratories of all types

Precision is a responsibility — and this sense of responsibility inspires us. We have developed 360PRO to help your laboratory team deliver reliable results time after time.

1. Consulting

Are you ready to start? Based on your needs, we provide advice, defining requirements and selecting the most suitable machines, holistic planning and process optimization. For maximum transparency, we invite you to bring your own glassware for a test wash in our showroom before purchasing a machine.

2. Machines

We find the right laboratory washers to meet your specific needs, as well as washing machines and dishwashers for associated tasks. Our laboratory washers ensure excellent cleaning results combined with the gentlest of treatment. Automated program cycles reduce the amount of work involved and save time. High capacities together with special-purpose cycles ensure the efficient use of resources and excellent cost-efficiency.

3. Accessories

SimpleLoad is our innovative basket system for fast, flexible and efficient loading. Besides this, we offer accessories such as those for optimizing water treatment.

4. Detergents

With ProCare Lab, we offer process chemicals which perfectly match your laboratory washers to ensure top-class results combined with maximum protection of materials and economical dispensing.

5. Digital solutions

Connected machines, optimized processes and service support — Miele ensures transparency and efficiency in your workflow.

6. Service

Whether you need advice on application technology, repairs or annual maintenance, our service team ensures that your machines are always ready when you are!

Our SlimLine laboratory glasswashers

The new generation of SlimLine laboratory glassware washers allows the use of up to three baskets on telescopic runners which can be positioned and connected to the water circuit at four different levels - providing maximum flexibility through multiple chamber configurations depending on the height of loaded items.

The SimpleLoad system is now also available on SlimLine models, simplifying loading and supporting users in correctly positioning their items of laboratory glassware. It facilitates thorough internal cleaning of glassware of all shapes and sizes and provides secure positioning and, of course, maximum protection of materials during washing.

With a variable-speed pump, circulation pressure and water consumption is optimized to individual loads. The Miele PLW 7111 laboratory glasswashers offer versatility, safety, high performance, and process traceability with low total life costs.

650 mm
25 9/16"

PLW 7111 Benefits at a Glance

SlimLine Design

Slim on the outside, big on the inside. The PLW 7111's small footprint with a width of just 25 9/16" | 650 cm comes with a large capacity that can clean up to 192 bottles (100mL), 108 bottles (250mL), or up to a 50L carboy.

SmartLoadPlus
3 racks
4 levels

Maximum flexibility is combined with intuitive use. The SmartLoad Plus system allows more flexibility with the availability of up to three loading racks simultaneously. Loading is made fast and easy with a wide range of standard and configurable loading options.

Adaptive Speed Washing

The variable speed pump adjusts circulation pressure (maximum performance when needed) and water consumption (water conservation when possible). A saving up to 15% in water consumption (10L) can be achieved between Standard and Standard Plus programs.

Speed Heated Tank

Thanks to the optional preheated tank, it is possible to save time and to have reprocessed items available sooner without diminishing process quality. The tank does not take chemical storage space, but can reduce the cycle time twice as much compared to a boiler.

Digital Services

The PLW 7111 is ready for connection to Miele Cloud Service (Miele MOVE*) and allows direct access to machine and performance data, allowing increased uptime through remote diagnostics.

* USA Only

SIMPLELOAD

Thanks to the SimpleLoad injection nozzles, plastic supports, injection modules and support frame, easy loading and unloading of glassware is achieved in an efficient and safe manner.

Intuitive and safe operation

- Intelligent controls with 7" colour touch display, optimized programs and 20 vacant program slots
- Simple and effective cleaning
- USB interface integrated in machine front
- Ready for connection to process documentation software
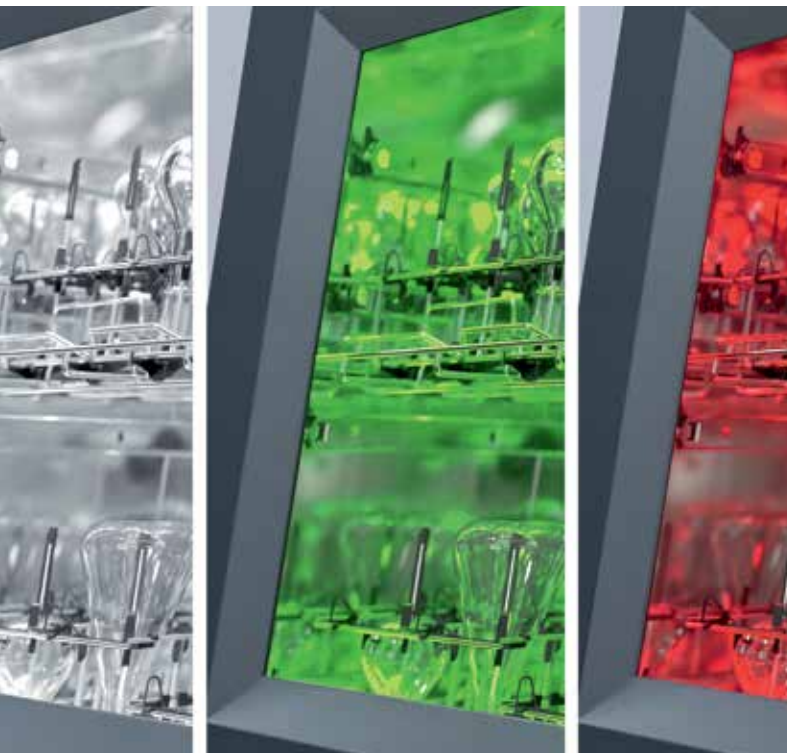
Visual monitoring of chamber

- Process control thanks to full glass door
- Machine status easily identifiable thanks to 3-color chamber lighting
- Automatic door lock

Thorough and efficient cleaning processes

- Chamber, spray arms and tank filters made from high-grade, electro-polished stainless steel (DIN 1.4404/AISI 316L)
- Conductivity monitoring for high-level process quality[1]
- HEPA H14 fine filter for germ-free drying air
- Integrated water softener
- Heated tank for shorter cycle times[1]
- Oil version[1]
- Industrial voltage 480V[1]

Comparison PLW 6111 vs. PLW 7111

	PLW 6111	PLW 7111
Optional Variants and accessories		
Electric/Steam	No	Yes
Industrial 480V	No	Yes
Loading racks	Telescopic + wheels	Telescopic
Oil Seals	No	Yes
Interchangeable basket levels	No — Many baskets	Yes — Less baskets Magnetic sensor
Injectors	No SimpleLoad — Injectors limited to model only	SimpleLoad — Injectors interchangeable with other lab models
Program design	Unique for all loads	Regular + Plus programs
Machine Dimensions		
Chamber volume, L	210	241 (+15%)
Roller plinth	No	Yes -Integrated
Capacity		
Bottles, 1000mL	32	32
Bottles, 250mL	84	108 (+29%)
Bottles, 100mL	126	192 (+52%)
Carboy, 50L	1	1
Specs & Features		
Circulation pump	Fixed	Variable Water savings (15%) Standard vs Standard Plus
Pre-heating	Boiler 18L capacity, 4.5KW Energy savings (5 min)	Tank 16L capacity, 4.0KW Better technology Energy savings (9 min) With vs without tank Standard vs Standard Plus
Chemical storage	Outside machine	Built-in
Touch Display	3.5" key pads	7" full touch
Water Softener	No	Optional
Chamber Lights	1-color	3-color
Status indicator light	No	Yes
DOS pumps	Peristaltic	Membrane
Process Documentation		
USB	No	Yes
Printer	Yes	Yes
Wifi	No	Yes
Ethernet	No	Yes
Move Connect (USA only)	No	Yes — Integrated

SimpleLoad – Fast loading and highly efficient use of chamber space

SIMPLELOAD

Support frame
The holder frame offers additional load stability. As and when required, it is placed on top of the injector module, providing a secure hold even to particularly large items of laboratory glassware in a vertical and protected position.

Thorough cleaning thanks to injector nozzles
Even if a nozzle tip rests against the base of a glass, the injector nozzles still guarantee thorough cleaning. The support surrounds the injector rail in the module or basket, preventing lateral movement of the load items without wasting valuable height.

SimpleLoad equates to efficiency and convenience
- An injector system for all common injector modules and many other load carriers enables the simple and flexible loading of a laboratory glassware washer
- 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
- Injector nozzles available in 3 diameters, 6 lengths
- Matching plastic holders and supports
- Injector modules with 8, 18 or 32 injectors
- Holder racks for 8, 18 or 32 injector positions

Holder rack

The supports of the holder rack ensure the stable positioning and thorough cleaning during the wash process.

The positioning of the glassware is easy, quick, and self centering.

Injector nozzles

Low support base for nozzles maximize the load height and increases the chamber space.

SlimLine laboratory glasswasher PLW 7111

General

SlimLine laboratory glasswasher	PLW 7111
External dimensions [Width x Height x Depth mm]	650, 1965, 702
External dimensions [Width x Height x Depth in]	25 9/16, 77 3/8, 27 5/8
Chamber dimensions [Width x Height x Depth mm]	570, 717, 590
Chamber dimensions [Width x Height x Depth in]	22 7/16, 28 1/4, 23 1/4
Usable capacity [l, cu.ft]	241, 8.51
Load concept	Rack system with max. 3 baskets in 4 different positions
Programs	20 vacant program slots
Program selection	7" color touch display

Features	
Single-door model	◆
All-glass bottom-hinged door	◆
3-color chamber lighting as status indicator	◆
Chamber material	1.4404/316L
Dispenser pumps [qty]	2
Variable-speed pump	◆
Water connections	HW, CW, demineralized water
Electrical connection 3 AC 208 V, 60 Hz, 35 A	◆
Total rated load [kW]	10.1
WiFi	◆
USB port	◆
Process chemical capacity	3 x 5 l
Ethernet interface	◆
Leakage sensor	◆

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

Features (model-dependent)
Electric heating
Electric/steam heating
Optional electrical 480V for industrial use
Pre-heating tank
Drain pump
Drying incl. HEPA H14 filter
Steam condenser
Water softener
Conductivity meter
Specifications for oil-based applications
Demineralized water pump

Optional modules
Potential-free contacts
Additional dispenser pumps
Sampling tap

Model overview

| Model	Connection	Heating		Features							Ordering information	
		Electric	Electric/Steam	Drying	Steam condenser	Drain pump	Water softener	Pre-heating tank	Conductivity meter	Oil version	Mat. no.	Art. no.
PLW 7111 [S-1044]	3 AC 208V/60 Hz	◆	−	◆	◆	◆	−	−	−	−	12929080	62711163USA
PLW 7111 [S-1045]	3 AC 208V/60 Hz	−	◆	◆	◆	◆	−	−	−	−	12934350	62711164USA
PLW 7111 [S-1042]	3 AC 208V/60 Hz	◆	−	◆	◆	◆	−	◆	◆	−	12929060	62711161USA
PLW 7111 [S-1048]	3 AC 208V/60 Hz	−	◆	◆	◆	◆	−	◆	◆	−	12965000	62711167USA
PLW 7111 [S-1041]	3 AC 208V/60 Hz	◆	−	◆	◆	◆	−	−	−	◆	12929050	62711160USA
PLW 7111 [S-1047]	3 AC 208V/60 Hz	−	◆	◆	◆	◆	−	−	−	◆	12964980	62711166USA
PLW 7111 [S-1043]	3 AC 440-480V/60 Hz	◆	−	◆	◆	◆	−	◆	◆	−	12929070	62711162USA
PLW 7111 [S-1046]	3 AC 440-480V/60 Hz	−	◆	◆	◆	◆	−	◆	◆	−	12934360	62711165USA

Baskets for injector modules and inserts
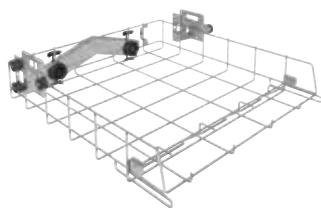
APLW 106

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
• Connection automatically sealed when not in use
• Loading dimensions: Width 507 mm, depth with holding rail 439 mm, without holding rail 525 mm, height dependent on position on which basket is used and on other baskets in use
• H 151.3, W 559.3, D 621.2 mm

Mat. no. 11854610
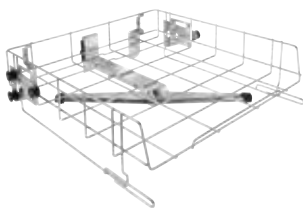
APLW 107

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
• Loading dimensions: 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
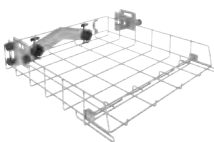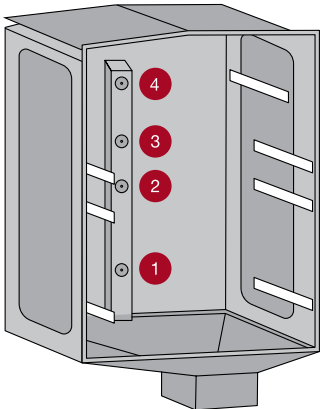
Mat. no. 11854290
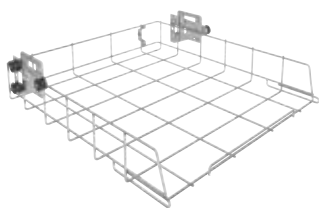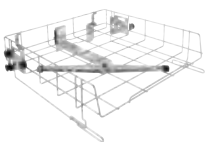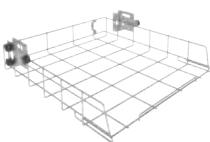
APLW 152

Baskets, for various inserts.
• For use on Level 1
• Vertical clearance dependent on other baskets used
• Clearances: width 507 mm, depth 545 mm
• H 151, W 560, D 596 mm

Mat. no. 11854310
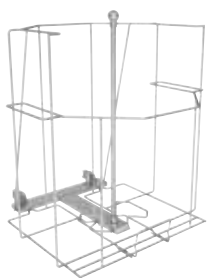
Load dimensions and sample configurations*

	APLW 107	APLW 152	APLW 106
L4	✓	–	✓
L3	✓	–	✓
L2	✓	–	✓
L1	–	✓	✓

* Refer to the bundle flyers for more information on set-ups and configurations.

9

Injector module for bulky laboratory glassware

For use in APLW 106 basket

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
- Bottle height: 560 mm to 620 mm
- Bottle neck diameter: min. 30 mm internal, max. 80 mm external
- H 532, W 505, D 526 mm

Mat. no. 11853940

Injector modules for laboratory glassware

For use in APLW 106 basket

SIMPLELOAD

Select from a range of freely configurable or pre-configured injector modules.
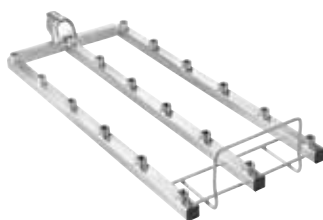

A 300/2

Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.
- Suitable for laboratory 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
- Nozzle spacing 118 mm across width, 118 mm across depth
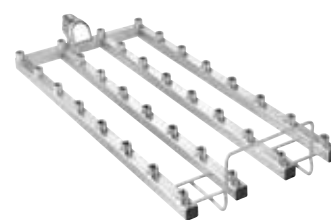- H 72, W 133, D 479 mm

Mat. no. 11056800

A 301/4

Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.
- Suitable for laboratory 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
- Nozzle spacing 78 mm across width, 78 mm across depth
- H 72, W 173, D 479 mm

Mat. no. 11056810

A 302/2

Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.
- Suitable for laboratory 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
- Nozzle spacing 60 mm across width, 57 mm across depth
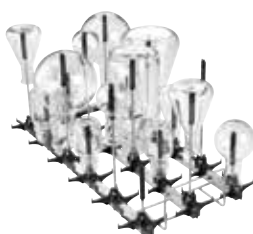- H 72, W 195, D 479 mm

Mat. no. 11056820

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 four A 840 nozzles and four A 841 nozzles
- Nozzle spacing 118 mm across width, 118 mm across depth
- H 228, W 208, D 479 mm

Mat. no. 11116900

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 nine A 842 nozzles and nine A 843 nozzles
- Nozzle spacing 78 mm across width, 78 mm across depth
- H 203, W 232, D 493 mm

Mat. no. 11116950

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
- Nozzle spacing 60 mm across width, 57 mm across depth
- H 143, W 238, D 479 mm

Mat. no. 11116960

Injector nozzles for laboratory glassware

For use with SimpleLoad injector modules

SIMPLELOAD

For additional protection, stability and centring of load items, there is a matching holder rack for each injector module.

A 860

Holder rack for A 300/2 and A 300/3 injector modules
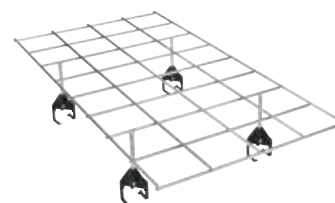• Arrangement: 2 x 4 compartments

Mat. no. 11056800

A 861

Holder rack for A 301/4 and A 301/5 injector modules
• Arrangement: 3 x 6 compartments

Mat. no. 11056810

A 862

Holder rack for A 302/2 and A 302/3 injector modules
• Arrangement: 4 x 8 compartments
• Plastic-coated

Mat. no. 11056820

Select nozzles to configure injector modules.

A 840

Injector nozzle Ø 6 x 130 mm
• For items with neck diameters of between 12 and 85 mm
• Diameter of cap at top: 11 mm

Mat. no. 11056100

A 841

Injector nozzle Ø 6 x 210 mm
• For items with neck diameters of between 12 and 85 mm
• Diameter of cap at top: 11 mm

Mat. no. 11056190

A 842

Injector nozzle Ø 4 x 90 mm
• For items with neck diameters of between 10 and 70 mm
• Diameter of cap at top: 9 mm

Mat. no. 11056330

A 843

Injector nozzle Ø 4 x 185 mm
• For items with neck diameters of between 10 and 70 mm
• Diameter of cap at top: 9 mm

Mat. no. 11056440

A 844

Injector nozzle Ø 2.5 x 80 mm
• For items with neck diameters of between 6 and 55 mm
• Diameter of cap at top: 5 mm

Mat. no. 11056600

A 845

Injector nozzle Ø 2.5 x 125 mm
• For items with neck diameters of between 6 and 55 mm
• Diameter of cap at top: 5 mm

Mat. no. 11056670

Injector modules for pipettes, vials, measuring cylinders, viscosimeters and sedimentation cones
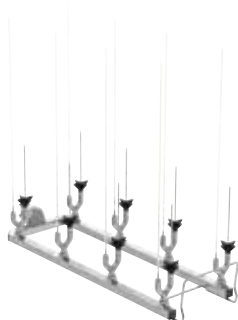
For use in APLW 106 basket

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
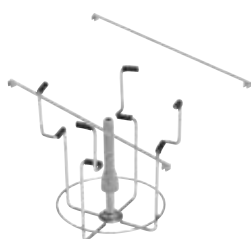- H 185, W 225, D 471 mm

Mat. no. 9862560

A 304

Injector module, for optimum loading of up to 98 pipettes.
- Suitable for 98 centrifuge tubes, vials, test tubes, for example
- H 130, W 222, D 471 mm

Mat. no. 9862570

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
- H 418, W 235, D 471 mm

Mat. no. 11035210

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
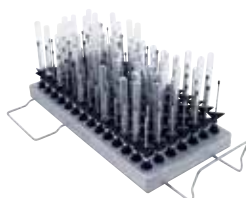- H 395, W 164, D 475 mm
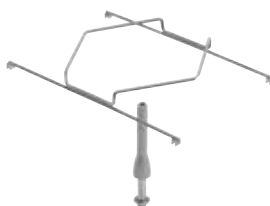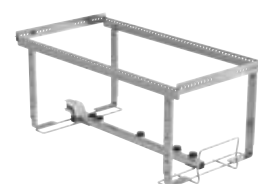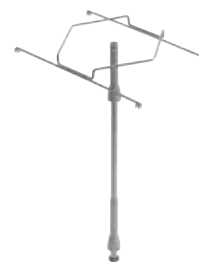
Mat. no. 11054470

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 A 300/2 injector module
- For use with separately available A 300/3 injector module
- H 290, W 125, D 125 mm

Mat. no. 12151110

A 313

Injector module for reprocessing large-volume laboratory glassware.
- Adapts to various types of laboratory glassware using A 846, A 847 and A 848 injector nozzles:
  - Laboratory bottles, 2 l - 10 l
  - Round flasks, 2 l - 6 l
  - Erlenmeyer flasks, 2 l - 5 l
  - Measuring cylinders, 2 l - 5 l
- Depending on the diameter, for 2 or 3 load items
- H 361, W 255, D 614 mm

Mat. no. 11055970

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 diameter: 10 mm

Mat. no. 11025590

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

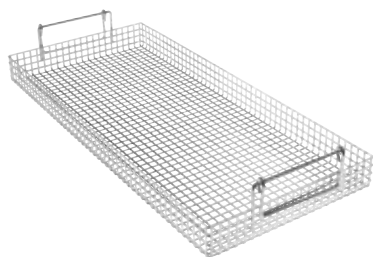**Mat. no. 11025600**

A 848

Injector nozzle, with support, for measuring cylinders.
- For measuring flasks, max. 5 l
- Nozzle length: 350 mm
- Nozzle Ø: 10 mm, Support Ø: 142 mm

Mat. no. 11025610

SIMPLELOAD

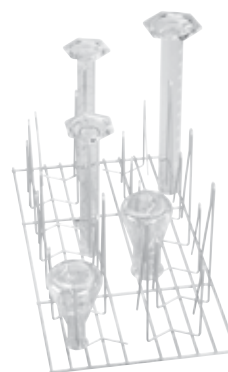# Inserts and other components

For use in APLW 107 and APLW 152 baskets

A 321

E 103/1, E 104/1, E 105/1, E 139/1

E 106

Article	Description	Mat. no.
Inserts for test tubes, funnels, beakers, wide-necked glassware, measuring cylinders		
A 13	Lid to secure sensitive load items, replacement for use on E 103, E 104, E 105 and E 139.	03810200
A 14/1	Lid, for securing delicate load items for AK 12/1.	11131560
A 321	Insert, for various utensils	11309380
A 322	Lid, for securing delicate load items, for A 321.	11874380
AK 12/1	Insert, for various utensils	11131690
E 149	Insert, for max. 80 test tubes, 16 x 105 mm.	03808800
E 103/1	Insert, for test tubes, 12 x 75 mm.	06907630
E 104/1	Insert, for test tubes, 12 x 105 mm.	06907640
E 105/1	Insert, for test tubes, 12 x 165 mm.	06907650
E 139/1	Insert, for test tubes, 12 x 200 mm.	06907660
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, APLW 041 and APLW 042.	11105040
E 106	Insert, for wide-necked glassware, measuring cylinders, etc.	03808310
E 106/1	Insert, for wide-necked glassware, measuring cylinders, etc.	03808320
E 106/2	Insert, for wide-necked glassware, measuring cylinders, etc.	03808330
APLW 038	Insert, for wide-necked Erlenmeyer flasks and measuring cylinders.	11104980
E 109	Insert, for beakers, max. 250 ml.	03808360
E 110	Insert, for beakers, max. 250 – 600 ml.	03808390
E 111	Insert, for beakers, max. 600 – 1,000 ml.	03808420
E 144	Insert, for max. 18 beakers, max. 250 ml.	03808710

Article	Description	Mat. no.
Inserts for Petri dishes, watch glasses, microtitre plates, etc.		
E 118	Insert, for half petri dishes.	03830270
E 402	Insert, for max. 44 watch glasses.	03830420
E 494	Insert, for 5 microtitre plates.	06570920
E 136	Insert, for 56 half petri dishes.	03830280
E 403	Insert, for max. 105 watch glasses.	03830430
E 137	Insert, for 56 half petri dishes.	03830290
APLW 039	Insert, for half petri dishes.	11104990
E 134	Insert, for 210 slides.	03808600
Further components		
A 2	Cover net, for securing delicate load items.	03830460
A 3	Cover net, for securing light-weight items in inserts.	03830470
A 11/2	Insert, for gentle cleaning of delicate load items by softening the spray jet.	11239130
A 320	Insert, for gentle cleaning of delicate load items by softening 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 injector units.	03809390
SD-B	Injector nozzle for butyrometers	03583540
E 362	Blind stopper, for sealing connections on load carriers.	03809630

More details on accessories
available on our website:

www.mieleusa.com/p

www.mieleprofessional.ca

Míele

Immer besser
Since 1899, Miele — a family-run company — has subscribed to a clear corporate philosophy condensed into the two words 'Immer Besser' (forever better). This overarching claim is the foundation of Miele's proverbial quality and sustainability and the power of innovation of a brand 'Made in Germany'. A brand promise which gives professional users the certainty of having chosen the right product.

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

Proficient
Miele Professional has been developing and manufacturing a broad range of high-quality laundry machines, dishwashers, washer-disinfectors and sterilisers for decades. Carefully selected accessories, comprehensive advisory services and a Miele service operation which guarantees fast response times ensure that machines perform to perfection and offer the ultimate in capacity and efficiency.

Miele Professional on the web
• For detailed information on technical data, features and accessories
• Brochures covering all product groups and applications available as downloads
• Detailed information, instructions and product presentations on Miele Professional's YouTube channel