

**Miele**

# The perfect fit. The new slimline laboratory glasswasher

Miele Professional. Immer Besser.



**EASYLOAD**



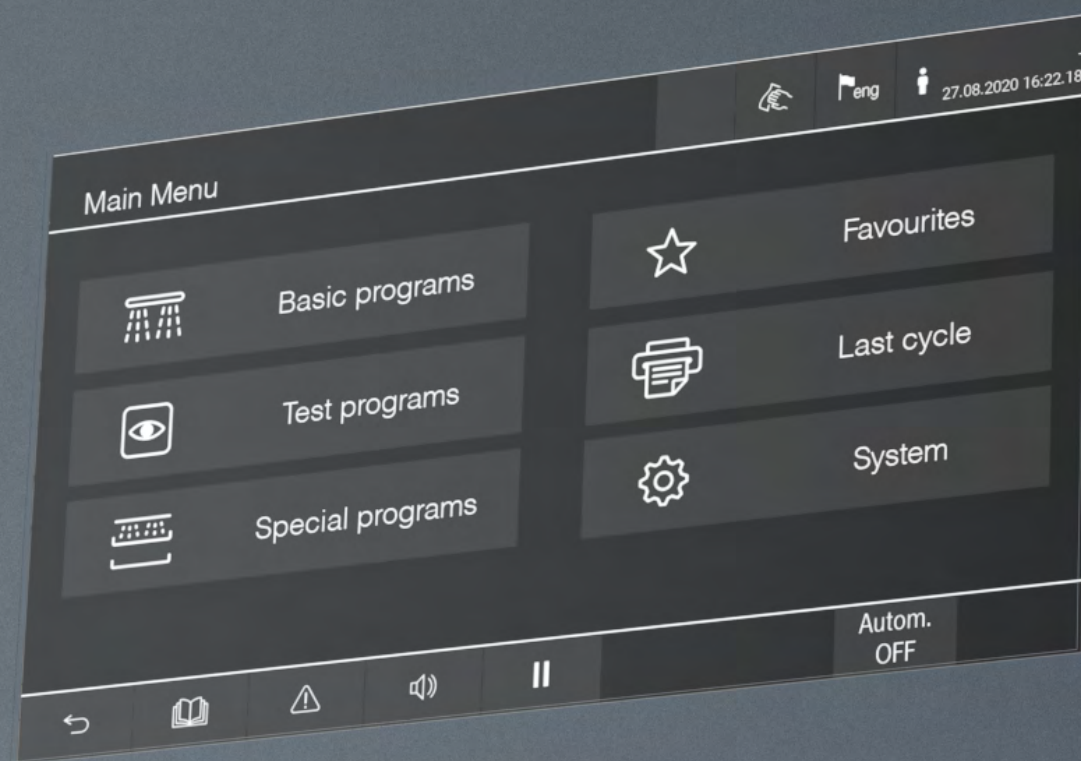
The perfect fit.

## The new SlimLine laboratory glasswasher

The new SlimLine laboratory glasswashers from the PLW 7111 series set new standards of performance and user-friendliness. This entirely redesigned washing system boasts considerably better performance compared with the previous model series and, thanks to a variable-speed pump, is able to adjust circulation pressure and water consumption to the load in hand.

The high-quality colour touch display in combination with the innovative multi-colour chamber lighting makes for intuitive loading and excellent control over the entire process.

The new EasyLoad system is now also available on SlimLine models, simplifying loading and supporting users in correctly positioning their items of laboratory glassware. Thanks to the intelligent use of space by the EasyLoad system, the capacity for 100 ml bottles for instance has been increased by more than 50% compared with the previous series.





# Smart, thorough and compact

The new generation of SlimLine laboratory glasswashers rings in another round of improvements in terms of handling and the use of chamber space. The tried-and-tested SmartLoad system allows the use of up to three baskets on telescopic runners which can be flexibly positioned and connected to the water circuit at four different levels. This allows various combinations to accommodate a variety of different load heights.

This system has undergone further improvements, allowing all baskets to be used on any level. The differentiation between baskets which run on the door and ones on telescopic runners now no longer applies. Telescopic racks on all levels guarantee greater loading flexibility.

## Compact machine dimensions combined with large chamber capacity.

- Small footprint with width of only 650 mm
- 3 levels with injector nozzles
- Also for carboys with a volume of up to 50 l
- 196 pipettes and 108 bottles (250 ml) in a single cycle

## Time and resource savings

- High-performance and intelligent pump system with speed-controlled pump for
- Maximum performance when needed
- Water savings whenever possible



 **SlimLine**  
Design

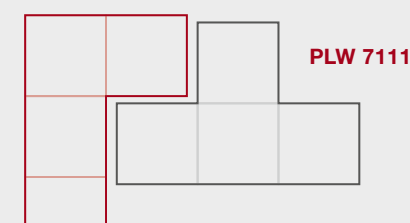
 **SmartLoadPlus**  
3 racks  
4 levels

 **Adaptive**  
**Speed**  
Washing

 **Speed**  
Heated  
Tank

 **Digital**  
Services

**EASYLOAD**





### Connectivity-ready

- Ready for connection to Miele Cloud Service (MOVE)
- Direct access to machine and performance data
- Increased uptime through remote diagnostics

### Intuitive and safe operation

- Intelligent controls with 7" colour touch display, optimised programmes and 20 vacant programme slots
- Simple and effective cleaning
- USB interface (accessible from front of machine)
- Ready for connection to process documentation software



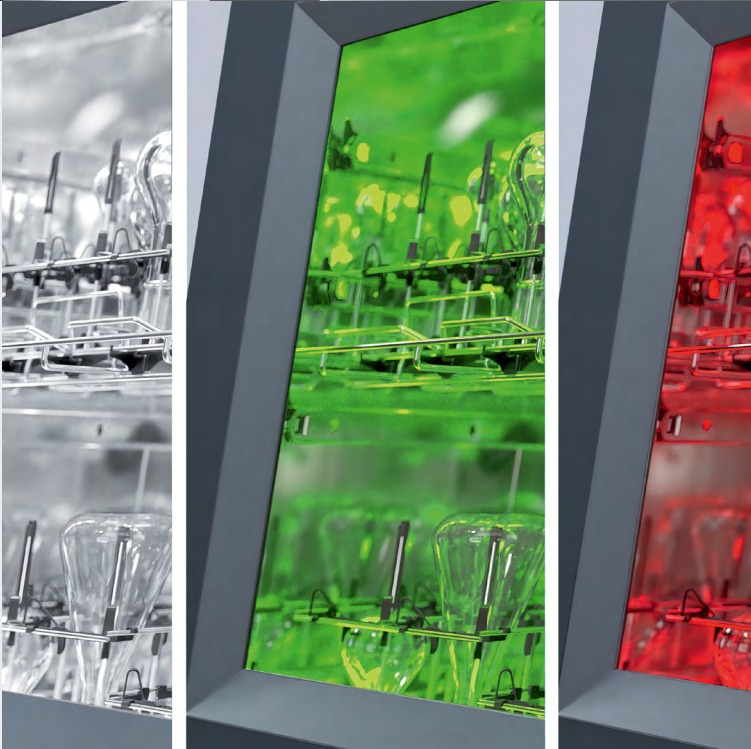
### Visual monitoring of chamber

- Process control thanks to all-glass door
- Machine status easily identifiable thanks to 3-colour 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\*
- HEPA H14 fine filter for germ-free drying air
- Integrated water softener\*
- Heated tank for shorter cycle times\*

\*Depending on model



EasyLoad — Fast loading and highly efficient use of chamber space.

# EASYLOAD

#### New support frame

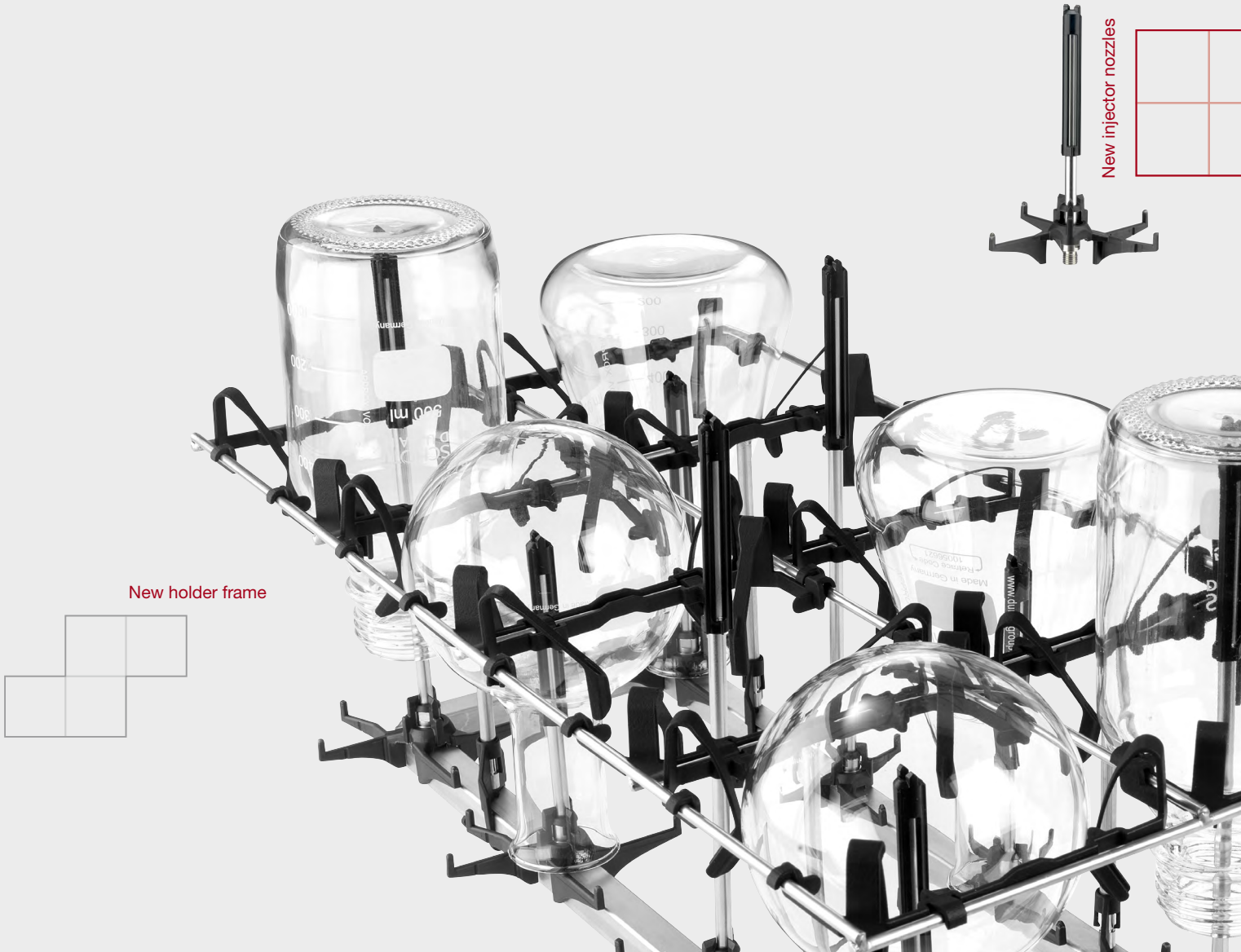
The new holder frame offers additional load stability. As and when required, it is placed on top of the injector module, providing a secure hold even to particularly large items of laboratory glassware in a vertical and protected position.

#### Thorough cleaning thanks to new injector nozzles

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

#### EasyLoad equates to efficiency and convenience

- New injector system for all common injector modules and a large number of further 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 gentlest treatment of materials. Injector nozzles available in 3 diameters and 6 lengths.
- Matching plastic holders and rests
- Injector modules with 8, 18 or 32 injectors
- Holder frames for 8, 18 or 32 injector positions







# The new PLW 7111 SlimLine laboratory glasswasher

## General

| SlimLine laboratory glasswasher                 |  | PLW 7111                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External dimensions [Width x Height x Depth mm] |  | 650, 1941, 700                                                                                                                                                                                                                                                                                                        |
| Chamber dimensions [Width x Height x Depth mm]  |  | 570, 717, 590                                                                                                                                                                                                                                                                                                         |
| Usable volume [l]                               |  | 241                                                                                                                                                                                                                                                                                                                   |
| Load concept                                    |  | Rack system with max. 3 baskets in 4 different positions                                                                                                                                                                                                                                                              |
| Programmes                                      |  | 20 vacant programme slots                                                                                                                                                                                                                                                                                             |
| Programme selection                             |  | 7" colour touch display                                                                                                                                                                                                                                                                                               |
| Features                                        |  |                                                                                                                                                                                                                                                                                                                       |
| Single-door model                               |  | •                                                                                                                                                                                                                                                                                                                     |
| All-glass bottom-hinged door                    |  | •                                                                                                                                                                                                                                                                                                                     |
| 3-colour chamber lighting as status indicator   |  | •                                                                                                                                                                                                                                                                                                                     |
| Chamber material                                |  | 1.4404/316L                                                                                                                                                                                                                                                                                                           |
| Dispenser pumps [No.]                           |  | 2                                                                                                                                                                                                                                                                                                                     |
| Variable-speed pump                             |  | •                                                                                                                                                                                                                                                                                                                     |
| Water connections                               |  | HW, CW, demineralised water                                                                                                                                                                                                                                                                                           |
| Electrical connection 3N AC 400 V, 50 Hz        |  | •                                                                                                                                                                                                                                                                                                                     |
| Total rated load [kW]                           |  | 10                                                                                                                                                                                                                                                                                                                    |
| USB port                                        |  | •                                                                                                                                                                                                                                                                                                                     |
| Process chemical capacity                       |  | 3 x 5 l                                                                                                                                                                                                                                                                                                               |
| Ethernet interface                              |  | •                                                                                                                                                                                                                                                                                                                     |
| Load capacity                                   |  |                                                                                                                                                                                                                                                                                                                       |
| 100 ml laboratory bottles                       |  | 192                                                                                                                                                                                                                                                                                                                   |
| 250 ml laboratory bottles                       |  | 108                                                                                                                                                                                                                                                                                                                   |
| 1000 ml laboratory bottles                      |  | 32                                                                                                                                                                                                                                                                                                                    |
| Pipettes                                        |  | 196                                                                                                                                                                                                                                                                                                                   |
| Features (model-dependent)                      |  | Electric heating<br>Heating: Electric/Steam<br>Pre-heating tank<br>Drain valve<br>Drain pump<br>Drying incl. HEPA H14 filter<br>Steam condenser<br>Water softener<br>Conductivity sensor<br>Printer<br>Specifications for oil-based applications<br>Drain water cooling<br>Leakage sensor<br>Demineralised water pump |
| Optional modules                                |  | Potential-free contacts<br>Sampling tap<br>Additional dispenser pumps                                                                                                                                                                                                                                                 |

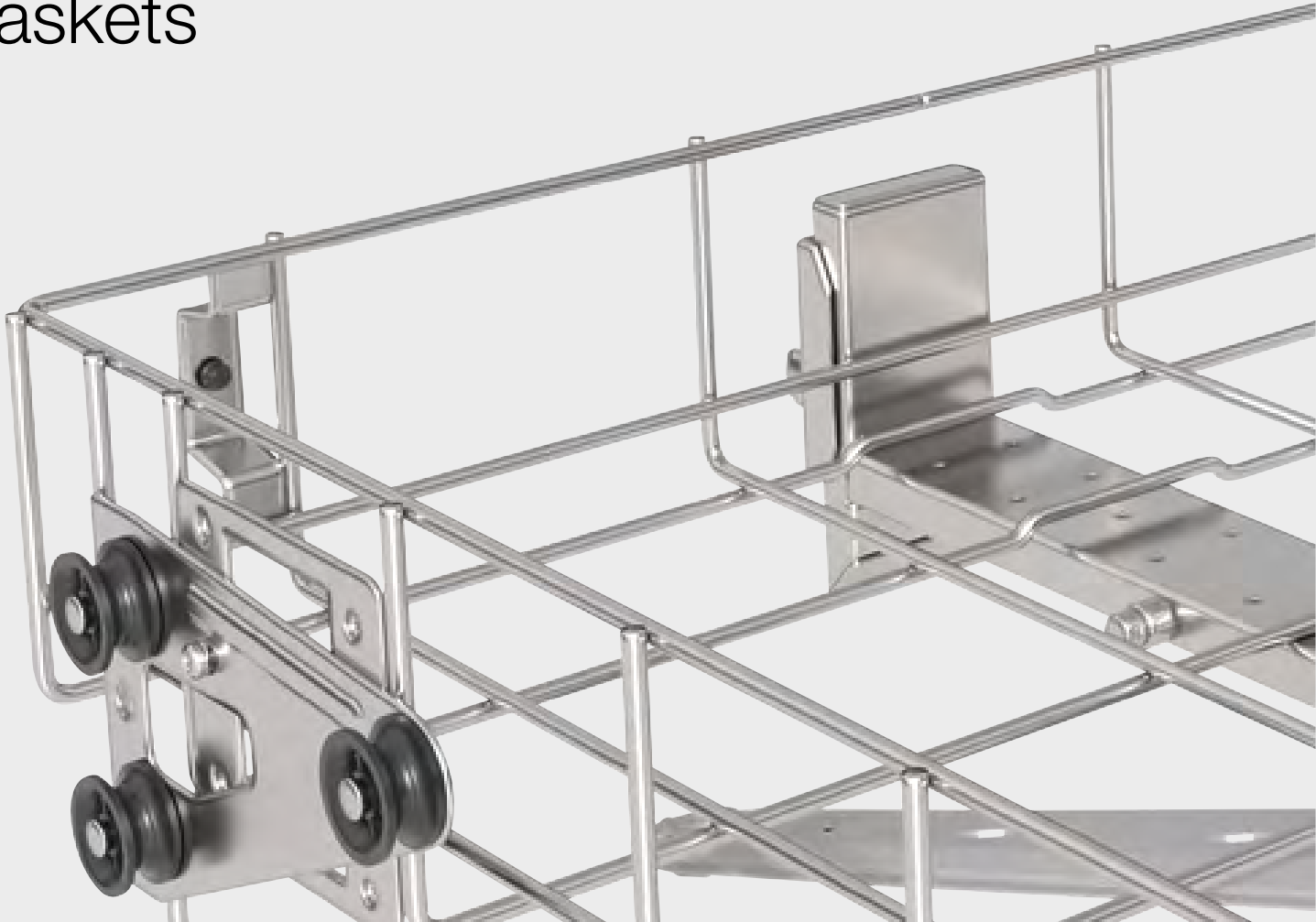
## Model overview

| Model             | Connection       | Heating  |                | Features |                 |            |             |                |                  |         |                     |             |                     |                |                          | Ordering information |             |
|-------------------|------------------|----------|----------------|----------|-----------------|------------|-------------|----------------|------------------|---------|---------------------|-------------|---------------------|----------------|--------------------------|----------------------|-------------|
|                   |                  | Electric | Electric/Steam | Drying   | Steam condenser | Drain pump | Drain valve | Water softener | Pre-heating tank | Printer | Conductivity sensor | Oil version | Drain water cooling | Leakage sensor | Demineralised water pump | Mat. no.             | Art. no.    |
| PLW 7111 [S-1012] | 3N AC 400V/50 Hz | •        | --             | •        | •               | --         | --          | •              | --               | --      | --                  | --          | --                  | --             | --                       | 11870950             | 62711101DAC |
| PLW 7111 [S-1013] | 3N AC 400V/50 Hz | •        | --             | •        | •               | --         | --          | •              | --               | --      | •                   | --          | --                  | --             | --                       | 11870960             | 62711102DAC |
| PLW 7111 [S-1017] | 3N AC 400V/50 Hz | •        | --             | •        | •               | •          | --          | •              | •                | --      | --                  | --          | --                  | --             | --                       | 11870970             | 62711103DAC |
| PLW 7111 [S-1021] | 3N AC 400V/50 Hz | •        | --             | •        | •               | •          | --          | •              | •                | --      | •                   | --          | --                  | --             | --                       | 11870980             | 62711104DAC |
| PLW 7111 [S-1026] | 3N AC 400V/50 Hz | •        | --             | •        | •               | •          | --          | •              | •                | --      | •                   | •           | --                  | --             | --                       | 11870990             | 62711105DAC |

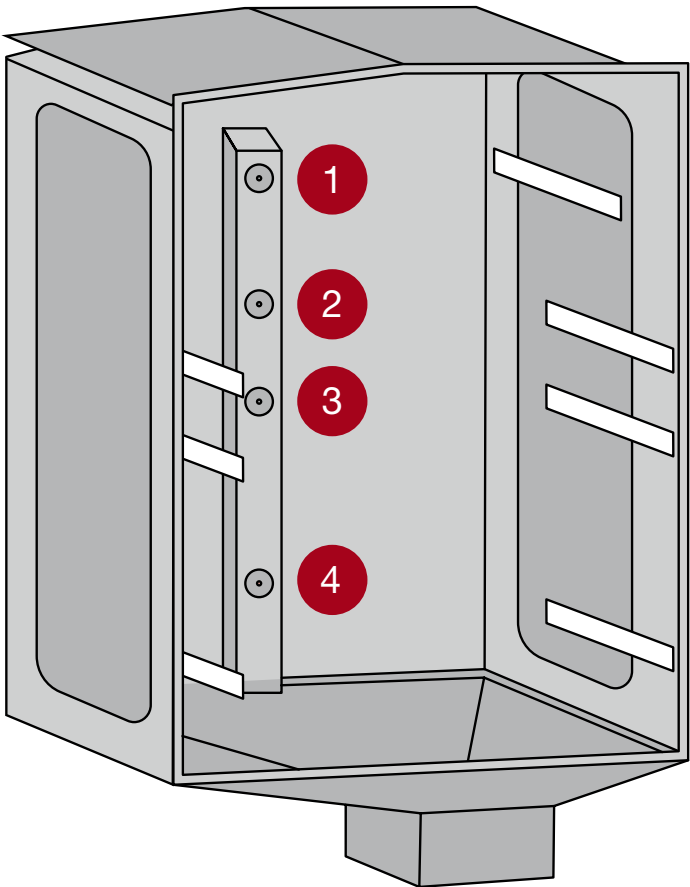
Increased capacity compared with previous model (PLW 6111)

|                |          |          |        |
|----------------|----------|----------|--------|
| 250 ml bottles | 84       | 108      | + 29 % |
|                | PLW 6111 | PLW 7111 |        |
| 100 ml bottles | 126      | 192      | + 52 % |
|                | PLW 6111 | PLW 7111 |        |
| Pipettes       | 121      | 196      | + 62 % |
|                | PLW 6111 | PLW 7111 |        |

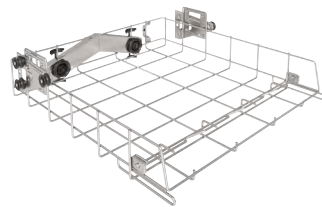
Baskets



Load dimensions and sample chamber configurations



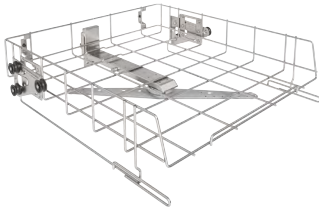
Baskets | for PLW 7111



**APLW 106 basket**

- Basket with two docking connections
- For the connection of up to two injector modules or inserts
- For use on Levels 1 to 4
- Self-sealing docking valves
- Loading dimensions: 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, W 560, D 621 mm

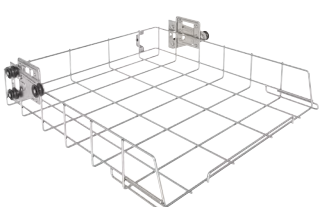
Mat. no. 11854610



**APLW 107 basket**

- Open front
- For optimum use of inserts
- For use on Levels 2 to 4
- With integrated spray arm
- Loading dimensions: Width 507 mm, depth 545 mm, height-adjustable +/- 30 mm, height dependent on position at which basket is used and on other baskets in use
- H 151, W 560, D 621 mm

Mat. no. 11854290



**APLW 152 basket**

- For various inserts
- For use on Level 1
- Loading dimensions: Width 507 mm, depth 545 mm, height dependent on position at which basket is used and on other baskets in use
- H 151, W 560, D 596 mm

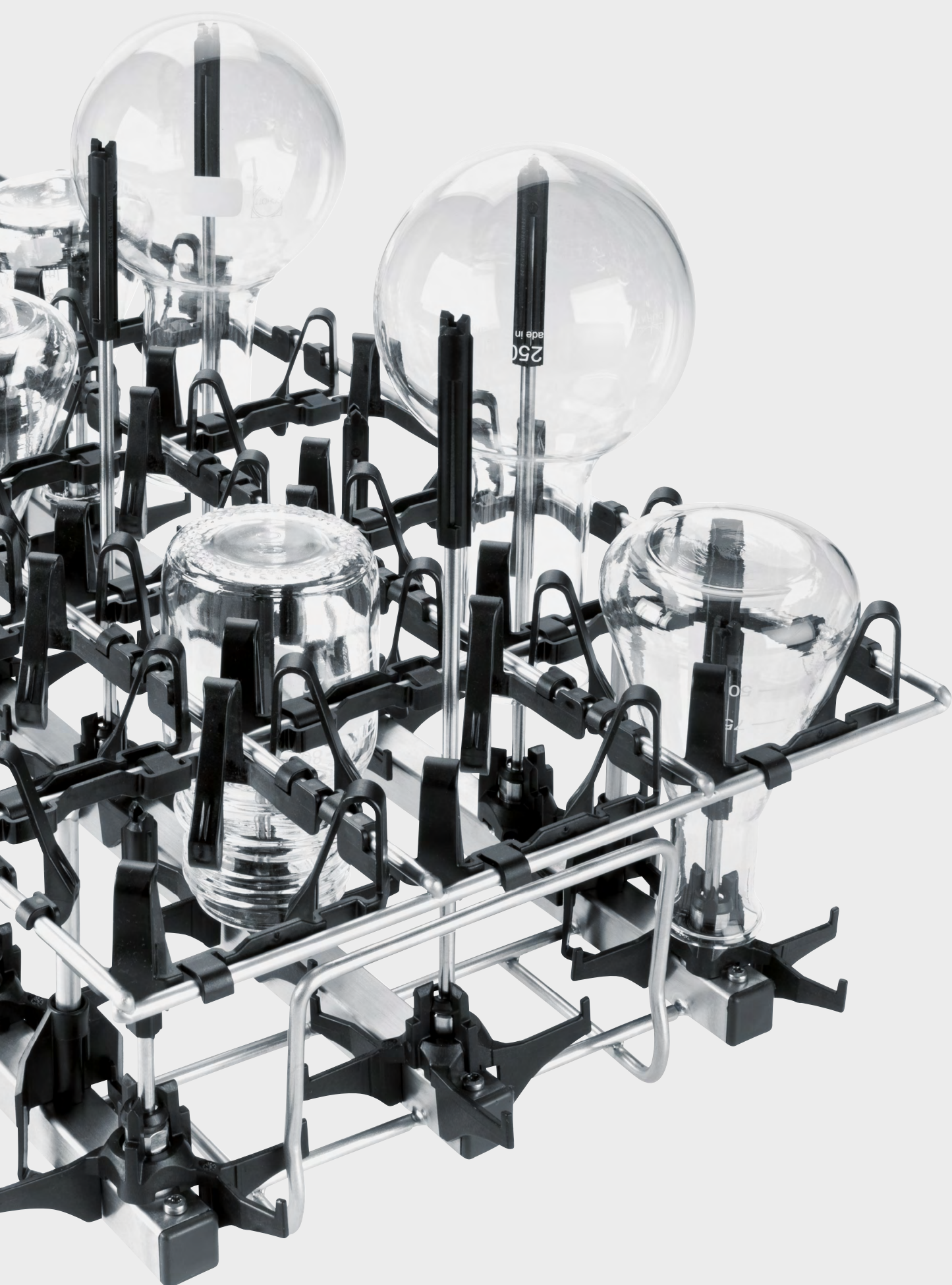
Mat. no. 11854310

|         | Reprocessing with spray arm<br>(3 levels) |                  | Reprocessing with spray arm<br>(2 levels) |                  | Blended reprocessing with spray arm<br>and injector nozzles (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                                                               | 210              |

|         | Reprocessing with injector nozzles¹<br>(3 levels) |                  | Reprocessing with injector nozzles⁴<br>(2 levels) |                  |
|---------|---------------------------------------------------|------------------|---------------------------------------------------|------------------|
|         | Basket                                            | Load height [mm] | Basket                                            | Load height [mm] |
| Level 4 | APLW 106                                          | 224              | -                                                 | 344              |
| Level 3 | -                                                 | 220              | APLW 106                                          |                  |
| Level 2 | APLW 106                                          |                  | -                                                 | 330              |



# Modules



## Injector modules for laboratory glassware | for use with A 106 basket



**A 300/3 module 2x4**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (250 - 1000 ml)
- 4 x A840 injector nozzles, 4 x A841 injector nozzles
- H 228, W 208, D 479 mm

Mat. no. 11116900



**A 301/5 module 3x6**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (50 - 250 ml)
- 9 x A842 injector nozzles, 9 x A843 injector nozzles
- H 203, W 229, D 493 mm

Mat. no. 11116950



**A 302/3 module 4x8**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (25 - 100 ml)
- 16 x A844 injector nozzles, 16 x A845 injector nozzles
- H 143, W 240, D 477 mm

Mat. no. 11116960



**A 860 holder frame 2x4**

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

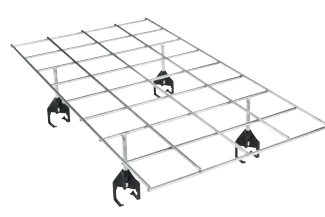
Mat. no. 11056800



**A 861 holder frame 3x6**

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

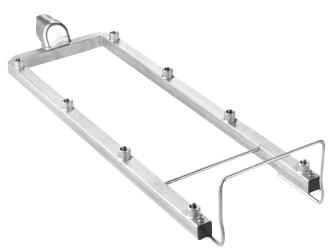
Mat. no. 11056810



**A 862 holder rack 4x8**

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

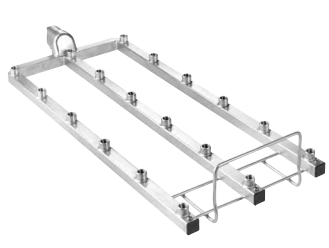
Mat. no. 11056820



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

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

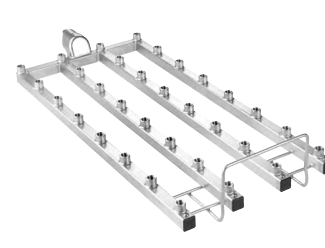
Mat. no. 11056770



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

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

Mat. no. 11056780



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

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

Mat. no. 11056790

# Injector modules for pipettes, phials, measuring cylinders and viscosimeters and for laboratory glassware | for use with APLW 106 basket



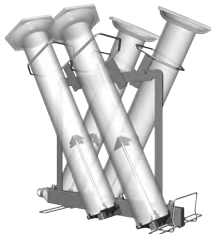
A 303 module for pipettes

- For e.g. 98 measuring and full pipettes
  - Height of holder frame 150 mm
  - H 185, W 225, D 471 mm
  - Vertical clearance without upper basket: 450 mm (with A 150 lower basket)
  - Not for use in PG 8504
  - 1 off, for use in A 150 lower basket
- Mat. no. 9862560



A 304 module for phials

- For 98 tubes, e.g. centrifuge tubes, phials, test tubes or autosampler tubes
  - H 130, W 222, D 471 mm
  - One each for A 100 upper basket or A 150 lower basket
- Mat. no. 9862570



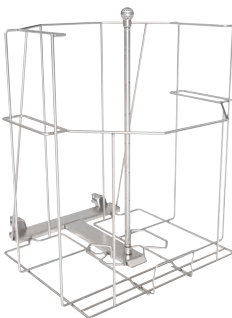
A 306/1 module for measuring cylinders

- For laboratory glassware, in particular large measuring cylinders
  - Capacity: four 1-2 l measuring cylinders, tall
  - Suitable for two 1-2 l measuring cylinders, short, and 2 tall measuring cylinders
  - Max. load height 500 mm
  - Simplified loading thanks to swivel racks, plastic-coated rests
  - 2 off, for use in A 150 lower basket
  - H 418, W 235, D 471 mm
- Mat. no. 11035210



A 312 module/viscometer

- For reprocessing up to 8 viscometers
  - 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



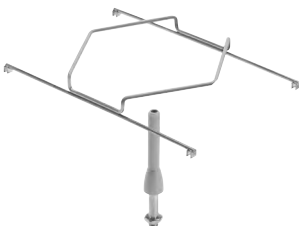
APLW 215 module

- Ideal for large-volume laboratory glassware and bottles up to 50 l
  - For use on Level 1
  - H 532, W 505, D 526 mm
- Mat. no. 11853940



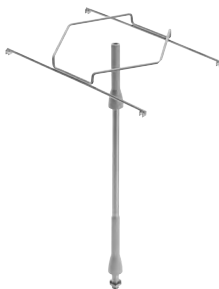
A 313 module

- For reprocessing large-volume laboratory glassware items
  - 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 847 injector nozzle

- For Erlenmeyer flasks, max. 5 l
  - For use in A 313 or A 612 modules
  - Nozzle length: 127 mm, Ø 10 mm, diameter of hexagonal support: 142 mm
- Mat. no. 11025600



A 848 injector nozzle

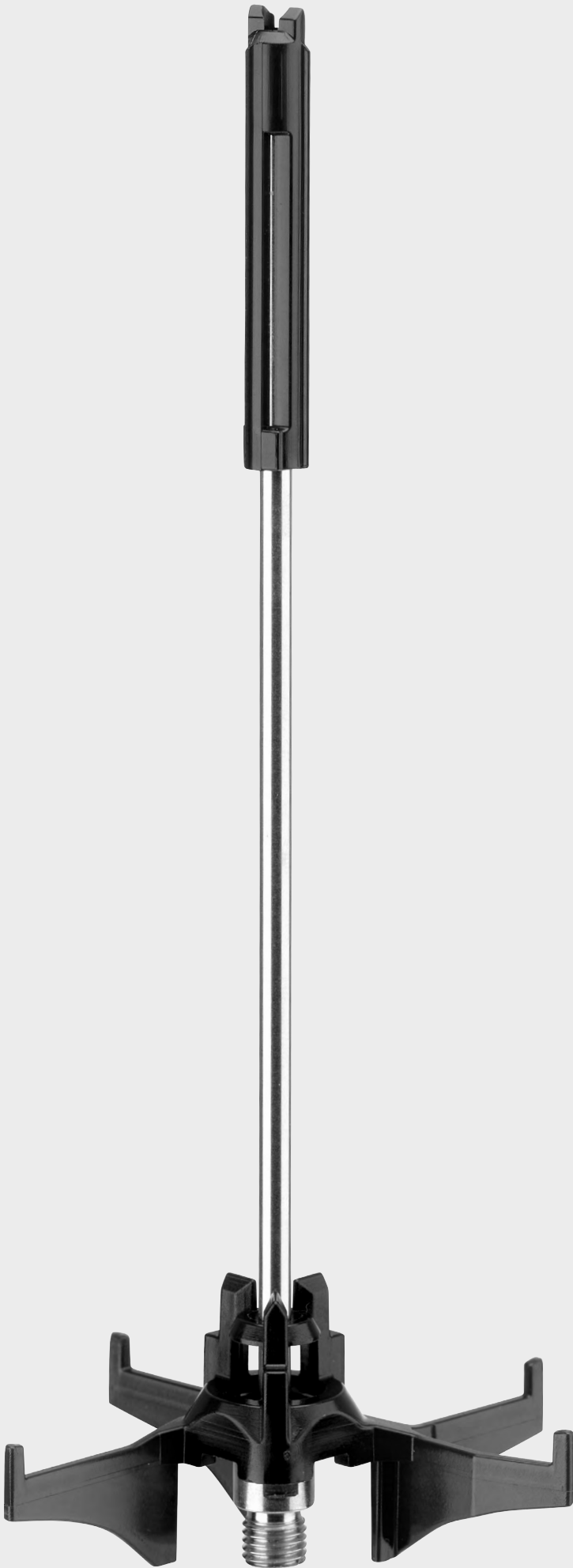
- For measuring flasks, max. 5 l
  - For use in A 313 or A 612 modules
  - Nozzle length: 350 mm, Ø 10 mm, diameter of hexagonal support: 142 mm
- Mat. no. 11025610



A 846 injector nozzle

- For laboratory bottles, max. 10 l, and round flasks, max. 6 l
  - For use in A 313 or A 612 modules
  - Nozzle length: 127 mm, total length with support: 158 mm, Ø 10 mm
- Mat. no. 11025590

## Nozzles





Injector nozzles



| A 840                                                                                                                                       |          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| <ul style="list-style-type: none"><li>For items with neck diameters of between 12 and 85 mm</li><li>Diameter of cap at top: 11 mm</li></ul> |          |  |
| Injector nozzle Ø 6 x130 mm<br>Mat. no. 11056100                                                                                            | (1 off)  |  |
| A 840/1<br>Injector nozzle Ø 6 x 130 mm<br>Mat. no. 11112600                                                                                | (5 off)  |  |
| A 840/2<br>Injector nozzle Ø 6 x 130 mm<br>Mat. no. 11113160                                                                                | (10 off) |  |
| A 840/3<br>Injector nozzle Ø 6 x 130 mm<br>Mat. no. 11113170                                                                                | (20 off) |  |



| A 841                                                                                                                                       |          |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| <ul style="list-style-type: none"><li>For items with neck diameters of between 12 and 85 mm</li><li>Diameter of cap at top: 11 mm</li></ul> |          |  |
| Injector nozzle Ø 6 x 210 mm<br>Mat. no. 11056190                                                                                           | (1 off)  |  |
| A 841/1<br>Injector nozzle Ø 6 x 210 mm<br>Mat. no. 11113130                                                                                | (5 off)  |  |
| A 841/2<br>Injector nozzle Ø 6 x 210 mm<br>Mat. no. 11113140                                                                                | (10 off) |  |
| A 841/3<br>Injector nozzle Ø 6 x 210 mm<br>Mat. no. 11113150                                                                                | (20 off) |  |



| A 842                                                                                                                                      |          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| <ul style="list-style-type: none"><li>For items with neck diameters of between 10 and 70 mm</li><li>Diameter of cap at top: 9 mm</li></ul> |          |  |
| Injector nozzle Ø 4 x 90 mm<br>Mat. no. 11056330                                                                                           | (1 off)  |  |
| A 842/1<br>Injector nozzle Ø 4 x 90 mm<br>Mat. no. 11113590                                                                                | (5 off)  |  |
| A 842/2<br>Injector nozzle Ø 4 x 90 mm<br>Mat. no. 11113630                                                                                | (10 off) |  |
| A 842/3<br>Injector nozzle Ø 4 x 90 mm<br>Mat. no. 11113670                                                                                | (20 off) |  |



| A 843                                                                                                                                      |          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| <ul style="list-style-type: none"><li>For items with neck diameters of between 10 and 70 mm</li><li>Diameter of cap at top: 9 mm</li></ul> |          |  |
| Injector nozzle Ø 4 x 185 mm<br>Mat. no. 11056440                                                                                          | (1 off)  |  |
| A 843/1<br>Injector nozzle Ø 4 x 185 mm<br>Mat. no. 11113720                                                                               | (5 off)  |  |
| A 843/2<br>Injector nozzle Ø 4 x 185 mm<br>Mat. no. 11113730                                                                               | (10 off) |  |
| A 843/3<br>Injector nozzle Ø 4 x 185 mm<br>Mat. no. 11113760                                                                               | (20 off) |  |

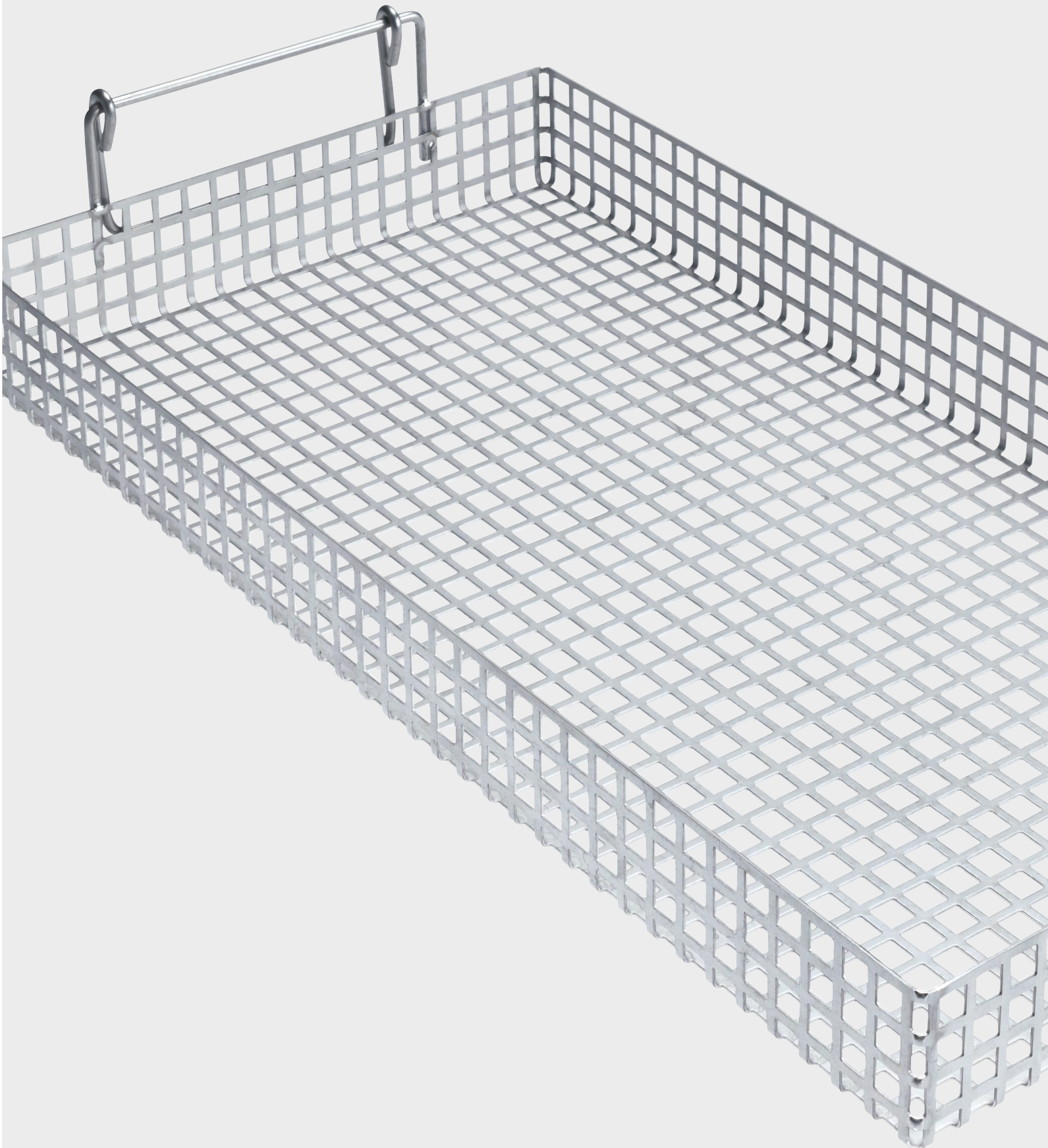


| A 844                                                                                                                                     |          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| <ul style="list-style-type: none"><li>For items with neck diameters of between 6 and 55 mm</li><li>Diameter of cap at top: 5 mm</li></ul> |          |  |
| Injector nozzle Ø 2.5 x 80 mm<br>Mat. no. 11056600                                                                                        | (1 off)  |  |
| A 844/1<br>Injector nozzle Ø 2.5 x 80 mm<br>Mat. no. 11115470                                                                             | (5 off)  |  |
| A 844/2<br>Injector nozzle Ø 2.5 x 80 mm<br>Mat. no. 11115500                                                                             | (10 off) |  |
| A 844/3<br>Injector nozzle Ø 2.5 x 80 mm<br>Mat. no. 11115520                                                                             | (20 off) |  |



| A 845                                                                                                                                     |          |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|--|
| <ul style="list-style-type: none"><li>For items with neck diameters of between 6 and 55 mm</li><li>Diameter of cap at top: 5 mm</li></ul> |          |  |
| Injector nozzle Ø 2.5 x 125 mm<br>Mat. no. 11056670                                                                                       | (1 off)  |  |
| A 845/1<br>Injector nozzle Ø 2.5 x 125 mm<br>Mat. no. 11116120                                                                            | (5 off)  |  |
| A 845/2<br>Injector nozzle Ø 2.5 x 125 mm<br>Mat. no. 11116130                                                                            | (10 off) |  |
| A 845/3<br>Injector nozzle Ø 2.5 x 125 mm<br>Mat. no. 11116140                                                                            | (20 off) |  |

Inserts and other components





Inserts for test tubes, funnels, beakers, wide-necked glassware,  
measuring cylinders

| for APLW 107 and APLW 152 baskets

|                           |                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>E 103/1 insert 1/4</b> | <ul style="list-style-type: none"><li>For approx. 200 test tubes, max. 12 x 75 mm</li><li>6 compartments, incl. A 13 lid</li><li>Mesh size 8 x 8 mm</li><li>H 102 (122), W 200, D 320 mm</li></ul> <b>Mat. no. 6907630</b>                             |
| <b>E 104/1 insert 1/4</b> | <ul style="list-style-type: none"><li>As E 103, but for test tubes, max. 12 x 105 mm, incl. A 13 lid</li><li>Mesh size 8 x 8 mm</li><li>H 132 (152), W 200, D 320 mm</li></ul> <b>Mat. no. 6907640</b>                                                 |
| <b>E 105/1 insert 1/4</b> | <ul style="list-style-type: none"><li>As E 103, but for test tubes, max. 12 x 165 mm, incl. A 13 lid</li><li>Mesh size 9 x 9 mm</li><li>H 192 (212), W 200, D 320 mm</li></ul> <b>Mat. no. 6907650</b>                                                 |
| <b>E 139/1 insert 1/4</b> | <ul style="list-style-type: none"><li>As E 103, but for test tubes, max. 12 x 200 mm, incl. A 13 lid</li><li>Mesh size 9 x 9 mm</li><li>H 223 (243), W 200, D 320 mm</li></ul> <b>Mat. no. 6907660</b>                                                 |
| <b>E 106 insert 1/2</b>   | <ul style="list-style-type: none"><li>For wide-necked glassware, measuring cylinders, etc.</li><li>10 spring hooks, H 175 mm</li><li>16 spring hooks, H 105 mm, spacing approx. 60 mm</li><li>H 186, W 220, D 445 mm</li></ul> <b>Mat. no. 3808310</b> |

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| <b>E 106/1 insert 1/2</b> | <ul style="list-style-type: none"><li>26 small spring hooks, H 105 mm, spacing approx. 60 mm</li><li>H 116, W 220, D 445 mm</li></ul> <b>Mat. no. 3808320</b> |
| <b>E 106/2 insert 1/2</b> | <ul style="list-style-type: none"><li>13 large spring hooks, H 175 mm, spacing approx. 85 mm</li><li>H 186, W 220, D 445 mm</li></ul> <b>Mat. no. 3808330</b> |
| <b>E 109 insert 1/2</b>   | <ul style="list-style-type: none"><li>For 21 beakers, max. 250 ml</li><li>21 x 3 spikes</li><li>H 155, W 230, D 460 mm</li></ul> <b>Mat. no. 3808360</b>      |
| <b>E 110 insert 1/2</b>   | <ul style="list-style-type: none"><li>For 10 beakers, 250 to 600 ml</li><li>10 x 3 spikes</li><li>H 175, W 230, D 460 mm</li></ul> <b>Mat. no. 3808390</b>    |
| <b>E 111 insert 1/2</b>   | <ul style="list-style-type: none"><li>For 8 beakers, 600 to 1000 ml</li><li>8 x 3 spikes</li><li>H 205, W 230, D 460 mm</li></ul> <b>Mat. no. 3808420</b>     |
| <b>E 144 insert 1/2</b>   | <ul style="list-style-type: none"><li>For 18 beakers, max. 250 ml</li><li>18 x 3 spikes</li><li>H 131, W 200, D 445 mm</li></ul> <b>Mat. no. 3808710</b>      |

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| <b>E 149 insert 1/4</b>   | <ul style="list-style-type: none"><li>For 80 test tubes, max. 16 x 105 mm, incl. A 13 lid</li><li>80 compartments, 18 x 18 mm</li><li>Mesh size on base 8 x 8 mm</li></ul> <div>Lid available from Spares</div> <b>Mat. no.: 05618390</b> |
|                           | <ul style="list-style-type: none"><li>H 132 (152), W 200, D 320 mm</li></ul> <b>Mat. no. 3808800</b>                                                                                                                                      |
| <b>AK 12/1 insert 1/2</b> | <ul style="list-style-type: none"><li>For various utensils, suitable e.g. for beakers or funnels</li><li>Flexible handles</li><li>H 80 (120), W 229, D 445 mm</li></ul> <b>Mat. no. 11131690</b>                                          |
| <b>A 13 lid</b>           | <ul style="list-style-type: none"><li>As replacement for E103, E104, E105 and E139 inserts</li><li>Stainless steel</li><li>1 mm wire mesh, 8 mm mesh width</li><li>4 mm all-round frame</li></ul> <b>Mat. no. 3810200</b>                 |
| <b>A 14/1 lid</b>         | <ul style="list-style-type: none"><li>With 8 x 8 mm perforations</li><li>Covers half of AK 12/1 insert</li><li>H 19, W 207, D 224 mm</li></ul> <b>Mat. no. 11131560</b>                                                                   |

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| <b>APLW 038 insert</b>                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>Insert with spring hooks for laboratory glassware</li><li>14 spring hooks, 175 mm</li><li>14 spring hooks, 105 mm</li><li>H 185, W 195, D 450 mm</li></ul> <b>Mat. no. 11104980</b> |
| <b>APLW 040 insert</b>                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>For test tubes</li><li>For use with APLW 043 lid</li><li>H 100, W 220, D 220 mm</li></ul> <b>Mat. no. 11105000</b>                                                                  |

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| <b>APLW 041 insert</b>                                                                                                                                   |
| <ul style="list-style-type: none"><li>For test tubes</li><li>For use with APLW 043 lid</li><li>H 100, W 220, D 220 mm</li></ul> <b>Mat. no. 11105010</b> |
| <b>APLW 042 insert</b>                                                                                                                                   |
| <ul style="list-style-type: none"><li>For test tubes</li><li>For use with APLW 043 lid</li><li>H 202, W 220, D 220 mm</li></ul> <b>Mat. no. 11105020</b> |

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| <b>APLW 043 lid</b>                                                                                                                                                                                             |
| <ul style="list-style-type: none"><li>Cover for APLW 040, APLW 041 and APLW 042</li><li>H 15, W 205, D 205</li></ul> <b>Mat. no. 11105030</b>                                                                   |
| <b>APLW 044 insert</b>                                                                                                                                                                                          |
| <ul style="list-style-type: none"><li>For test tubes</li><li>Compartmentalisation of available area</li><li>on APLW 040, APLW 041 and APLW 042</li><li>H 75, W 205, D 200 mm</li></ul> <b>Mat. no. 11105040</b> |

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

| for APLW 107 and APLW 152 baskets

|                                   |                                                                                                                                                                                                        |
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| <b>E 118 insert 1/1</b>           | <ul style="list-style-type: none"><li>For 38 Petri half-dishes, 100 mm</li><li>38 holders, Height 70 mm</li><li>Spacing approx. 26 mm</li><li>H 120, W 460, D 445 mm</li></ul> <b>Mat. no. 3830270</b> |
| <b>E 136 insert 1/1</b>           | <ul style="list-style-type: none"><li>For 56 Petri half-dishes, 100 mm</li><li>56 holders, Height 70 mm</li><li>Spacing approx. 26 mm</li><li>H 145, W 485, D 445 mm</li></ul> <b>Mat. no. 3830280</b> |
| <b>E 137 onsert 1/1 for E 136</b> | <ul style="list-style-type: none"><li>For 56 Petri half-dishes, 100 mm</li><li>56 holders, Height 70 mm</li><li>Spacing approx. 26 mm</li><li>H 95, W 485, D 445 mm</li></ul> <b>Mat. no. 3830290</b>  |

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| <b>E 402 insert 1/2</b> | <ul style="list-style-type: none"><li>For 44 Petri dishes, 80 to 125 mm</li><li>23 supports, spacing 15 mm</li><li>H 53, W 200, D 445 mm</li></ul> <b>Mat. no. 3830420</b> |
| <b>E 403 insert 1/2</b> | <ul style="list-style-type: none"><li>For 105 Petri dishes, 50 to 60 mm</li><li>36 supports, spacing 9 mm</li><li>H 35, W 200, D 445 mm</li></ul> <b>Mat. no. 3830430</b>  |
| <b>E 134 insert 1/2</b> | <ul style="list-style-type: none"><li>For 210 slides</li><li>210 compartments 26 x 11 mm, wire gauge 3 mm</li><li>H 73, W 200, D 445 mm</li></ul> <b>Mat. no. 3808600</b>  |

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| <b>E 494 insert 1/2</b>                                                                                                                                                         |
| <ul style="list-style-type: none"><li>For 5 micro-titre plates</li><li>H 35, W 205, D 440 mm</li></ul> <b>Mat. no. 6570920</b>                                                  |
| <b>APLW 039 insert</b>                                                                                                                                                          |
| <ul style="list-style-type: none"><li>Suitable for 26 half petri dishes</li><li>Spacing between holders: 24 mm</li><li>H 83, W 237, D 430 mm</li></ul> <b>Mat. no. 11104990</b> |

Further components

| for APLW 107 and APLW 152 baskets

|                                                                                                                                                                                                                                |
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| <b>A 2 cover net 1/2</b>                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>Plastic-coated metal frame with plastic netting</li><li>For half-inserts</li><li>216 x 456 mm</li></ul> <b>Mat. no. 3830460</b>                                                          |
| <b>A 3 cover net 1/4</b>                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>Plastic-coated metal frame with plastic netting</li><li>For quarter inserts</li><li>206 x 206 mm</li></ul> <b>Mat. no. 3830470</b>                                                       |
| <b>A 11/2 insert 1/1 underframe</b>                                                                                                                                                                                            |
| <ul style="list-style-type: none"><li>With 8 x 8 mm perforations</li><li>For upper or lower basket</li><li>Covers entire basket</li><li>Not for use in PG 8536</li><li>H 1, W 476, D 443 mm</li></ul> <b>Mat. no. 11239130</b> |

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| <b>A 12/2 insert 1/2 underframe</b>                                                                                                                                                                                                            |
| <ul style="list-style-type: none"><li>With 8 x 8 mm perforations</li><li>For upper or lower basket</li><li>Covers half of basket</li><li>H 10, W 237, D 449 mm</li><li>Not for use in PG 8536</li></ul> <b>Mat. no. 11238030</b>               |
| <b>A 838 tool set</b>                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"><li>Serves to adjust basket heights and fit/remove injector nozzles</li><li>Torx and open-jaw spanner, fits all common up-per baskets, injector nozzles and load carriers</li></ul> <b>Mat. no. 11054290</b> |

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| <b>E 336 irrigation sleeve</b>                                                                                                                                                                        |
| <ul style="list-style-type: none"><li>Plastic, with screw fitting</li><li>For pipettes (max. length 445 mm) in injector units</li><li>Ø 11 mm</li><li>Length 121 mm</li></ul> <b>Mat. no. 3809390</b> |
| <b>SD-B injector nozzle for butyrometers</b>                                                                                                                                                          |
| <ul style="list-style-type: none"><li>For E 331 load carrier</li><li>L 240 mm incl. thread, 4 x 140 mm plus welded, compressed nozzle, 1.5 x 100 mm</li></ul> <b>Mat. no. 3583540</b>                 |
| <b>E 362 blanking screw</b>                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>M8x1 thread, to seal connectors on load carriers</li></ul> <b>Mat. no. 3809630</b>                                                                              |



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