

Washing · Disinfection · Drying
A systematic approach to the reprocessing of
laboratory glassware for analytical purposes



Miele Professional – Never be satisfied with less!



Dear Reader,

Miele Professional has been setting milestones for more than four decades in the field of efficient and safe machine-based reprocessing in laboratories.

The automatic reprocessing of laboratory glassware represents a standardised and validatable process which can also be automatically documented, offering clear benefits compared with manual washing.

Various soils and different shapes and sizes of laboratory glassware represent the particular challenges to machine-based reprocessing - challenges which our products rise to meet with alacrity.

We wish to continue to take on these challenges in future, allowing you to expect top-class results and future-proof solutions which take on board the nature of your applications.

Quality 'Made by Miele' and service excellence.

Never expect anything less!

Dr. Markus Miele
Managing Director and Co-Proprietor,
Miele & Cie. KG

Dr. Reinhard Zinkann
Managing Director and Co-Proprietor,
Miele & Cie. KG

A systematic approach to the reprocessing of laboratory glassware

A systematic approach – typically Miele

With washer-disinfectors, special reprocessing methods and accessories tailored to the specific needs of applications, Miele offers a comprehensive and systematic approach to the safe and thorough reprocessing of a wide range of laboratory glassware. Moving beyond standard solutions, Miele specialists work closely with laboratory staff to arrive at customised solutions to meet varied and specific needs.



The wide-ranging benefits of Miele's systematic approach

Versatile and economical

- Washer-disinfectors with scalable capacities to meet all requirements
- Modular machine design with basic features and optional extras
- Efficient single-chamber system for washing, rinsing, disinfecting and drying
- Tried-and-tested standard programmes, innovative special programmes and individual programme packages
- Electronic controls offering excellent user convenience



Competent and innovative

- Intensive development and close cooperation with experts in the fields of hygiene, with scientists and with users
- Trend-setting process development and product specifications
- In-house advisory services and blanket service coverage
- Qualification (Installation Qualification and Operation Qualification) of laboratory glassware cleaning systems
- Service contracts for peace of mind
- Attractive financing offers



Better to be on the safe side

- Serial interface for process documentation and optical interface for service work
- Automatic mobile unit detection system automatically assigns glassware programmes to loads

A survey carried out in 2011 by the independent 'Mercuri International' institute underlines Miele's high levels of customer satisfaction: 97% of clients would buy from Miele Professional again at the next opportunity.





Explanation of symbols

AE	Stainless-steel casing
AP	Drain pump
AV	Dump valve
BO	Boiler
D	Steam heating
D/EL	Dual steam/electric heating
EL	Electric heating
GS	Glass door
KD	After-sales service
PT	Profitronic controls
TA	Drying unit



This logo highlights products with special properties only available from Miele.

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Practice · Experience · Expertise Typically Miele



Manual v. automatic reprocessing

Many laboratories are already convinced by the benefits of the machine-based reprocessing of glassware. Particularly when workloads are heavy, automatic reprocessing cuts down on work, reduces staffing needs and cuts costs.

One reason is to avoid the risk of breakage and the potential hazards to laboratory staff that come with handling glassware. Broken glass from manual cleaning, for instance, can cause serious injuries. Infectious and toxic contaminants pose a serious health risk. Many detergents used in cleaning are also highly caustic.

Automatic, machine-based processes are also more easily standardised, validated and documented. And reprocessing in an automatic machine-based system offers maximum **protection to personnel**.

The cleaning process must ensure that equipment, when used again, is not affected by its previous use. Requirements vary widely from one laboratory to the next. The following aspects must be clearly defined:

1. Application

Applications subdivide into general areas (organic, inorganic or physical chemistry, biology, microbiology, hospital, pharmaceutical, food industry or cosmetic industry laboratories, etc.) or according to procedures (preparatory work, analysis, sampling). The type of application will also be an important factor in determining the type of machine and accessories as well as the cleaning process and cleaning agents required.

2. Laboratory equipment

Laboratory equipment needs to be classified according to the type, size and quantity of items requiring reprocessing. This information enables Miele to provide a detailed quotation for the right system to meet individual requirements.

3. Contamination

Knowledge of the physical and chemical attributes of the types of contamination the machine will need to deal with are of particular importance in choosing the cleaning process and type of cleaning agent to use.

4. Disinfection

For certain applications, laboratory equipment has to be disinfected to contain the spread of bacteria.

5. Analytical methods

The methods of analysis used can be affected by particular contaminants on laboratory glassware. A knowledge of these factors is helpful in selecting the right detergents.

6. Purity for analytical experiments

Each laboratory has its own definition of what is 'analytically clean' depending on the specification, nature and repeatability of the analysis methods used. Built-in conductivity monitoring represents the ideal way to analyse glassware purity levels.

Miele and Duran. Two strong brands in the laboratory.



DURAN Group recommends Miele Professional

To guarantee the thorough, gentle and safe reprocessing of laboratory glassware, the DURAN Group recommends Miele lab washers: Miele quality 'Made in Germany' excels in terms of reliability and efficiency in everyday laboratory operations. Short cycle times and dependable results ensure that high-quality laboratory glassware is ready for use again in next to no time. Gentle reprocessing also prolongs the useful life of DURAN® laboratory glassware.

Chemical properties are the key to retaining the value of high-quality laboratory glassware as durable materials combined with gentle cleaning processes minimise the risk of glass corrosion.

Thanks to such excellent chemical properties of DURAN® laboratory glassware such as:

- Hydrolytic resistance, Class 1 (ISO 719)
 - Resistance to acids, Class 1 (DIN 12116)
 - Resistance to alkalis Class 2 (ISO 695).
- DURAN® is ideal for repeat wash cycles and guarantees a long glassware life cycle.

At the same time, the superior physical properties of DURAN® glass makes it ideal for laboratory use.

- Uniform wall thickness throughout
- Results in greater mechanical stability and improved resistance to thermal cycling ($\Delta T=100K$)
- Prevents tension in glass and the risk of cracking when heated and cooled
- Benefits: Greater safety for staff, enhanced durability, protection of valuable substances
- Retraceable back to raw materials
- Batch certifications can be downloaded on Internet

Miele and Duran. Two strong brands in the laboratory.



PG 8527 washer-disinfector

Adding value to glassware reprocessing

Miele Professional has been setting milestones for more than four decades in the field of efficient and safe machine-based reprocessing of glassware in laboratories. And, once again, Miele is setting new standards with the PG 85 machine generation. When it comes to the question of centrally or decentrally reprocessing large quantities of glassware, Miele's PG 8527 offer huge benefits: Greater cleaning capacity, improved process security and better efficiency.

Miele quality – Made in Germany

Miele washer-disinfectors have been an integral feature in quality control in laboratories for decades. All components excel in terms of uncompromising quality and offer users maximum benefits when it comes to hygiene, safety and economy.



Specifications Washer-disinfectors	Unit width/depth	Door	Cabinet Cabinet dimensions H/W/D Cabinet volumes	Capacity per cycle
PG 8527	1150/870 mm	Vertical-rise door	675/650/800 mm 351 l	232 narrow-necked glasses or 232 pipettes
G 7825	900/750 mm	Bottom-hinged door	683/541/610 mm 225 l	108 narrow-necked glasses or 104 pipettes

PerfectTouchControl – Simple, plain-text controls

PerfectPure sensor – Residue-free rinsing



PG85 | PerfectTouchControl

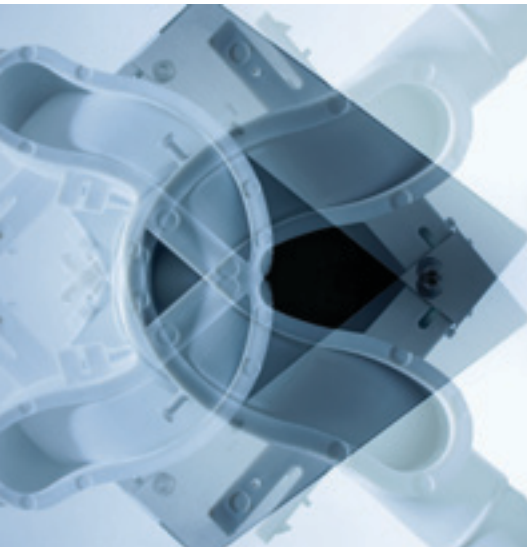
- **Optimum user convenience**
- **Reliable hygiene**
- **Perfect control**

Simple to operate, easy to clean: Washer-disinfectors from the PG 85 series feature a touch-sensitive display. This easy-to-use PerfectTouch display guarantees unique user convenience combined with superb hygiene. A fully flush, chemical-proof display screen makes for simple and effective wipe disinfection.

The controls are outlined on the glass surface and slight pressure is enough to activate functions and launch programmes, even when wearing protective gloves. The man-machine interface involves the use of only a very limited number of controls; all steps in the process appear in the display in the user's own language. Display texts, for example for actual temperatures, conductivity, countdown times and all other protocol data can be defined individually.

Exclusive to
MIELE

- Chemical-resistant glass surfaces
- Innovative programme cycles
- Freely programmable controls



PG85 | PerfectPureSensor

- **Continuous conductivity monitoring**
- **Pure results for analytical experiments**
- **Safe reprocessing**

Chemical residue and even the finest traces of deposits on laboratory glassware can impair the results of subsequent experiments, particularly in analytical chemistry and biology. On request, the PG 8527 can be fitted with Miele's new, patented PerfectPure conductivity monitor. Conductivity monitoring reliably detects the presence of minerals in the rinse water, such as the dissolved salts introduced with alkaline or acidic process chemicals, limiting them to a threshold level defined by the user. Residue is determined as a function of conductivity. Measuring and monitoring is achieved using a contact-free and hence maintenance-free system which is able to monitor conductivity conditions with exceptionally low tolerance levels in ranges from 5 – 40 S/cm and 40 S/cm – 100 mS/cm. Depending on machine settings, conductivity readings can even be used to control the programme cycle. This allows the number of necessary rinse cycles to be determined automatically if

conductivity is outside the predetermined range: Recording conductivity over the entire process helps ensure the reproducibility of validated processes. Monitoring results can be shown in the display and documented accordingly.

- Maintenance-free conductivity monitoring

Exclusive to
MIELE

PerfectFlow sensor – Volumetric monitoring of dispensed quantities

PerfectSpeed sensor – Spray arm monitoring

PG85 PerfectFlowSensor

- **Continuous monitoring of dispensed volumes**
- **Precise results, user-defined tolerances**
- **Perfect dispensing control**

A decisive factor contributing to good reprocessing results is the precise volumetric control of dispensed chemicals. Miele's new PerfectFlow sensor using ultrasound technology offers considerably greater safety margins than conventional systems. The PerfectFlow sensor is a standard feature on the PG 8527 and guarantees a hitherto unparalleled degree of precision in controlling and monitoring volumetric flow, independent of viscosity and ambient temperatures. The monitoring system is fully independent of the dispensing system and can be adjusted and calibrated. Dispensing tolerances can be set individually by users; chemicals

are dispensed efficiently and reliably, irrespective of the type of product or ambient conditions (continuous operation, fluctuating climatic conditions). Any deviation from the target quantities are safely detected and the reproducibility of validated processes guaranteed. An error message is issued or the programme is aborted if values are out of range.



Exclusive to
MIELE

- Extremely precise
- Product- and temperature-independent dispensing control

PG85 PerfectSpeedSensor

- **Precisely monitored reprocessing**
- **Improved reproducibility of validated processes**
- **Perfect washing and disinfection results**

To guarantee perfect and safe cleaning and disinfection results, the rotational speed of the spray arms must be within defined limits. With the new PerfectSpeed sensor, the precise speed of each individual spray arm is carefully monitored and documented – whether in the cabinet or on board baskets and mobile units. The spray arm monitoring feature uses a sensor strip located outside the cabinet to detect the passage of spray arms and to ensure that speeds are within range. Information shown in the display indicates whether the values are correct or whether the user must intervene on account, for example, of excessive foam slowing spray arm motion down.

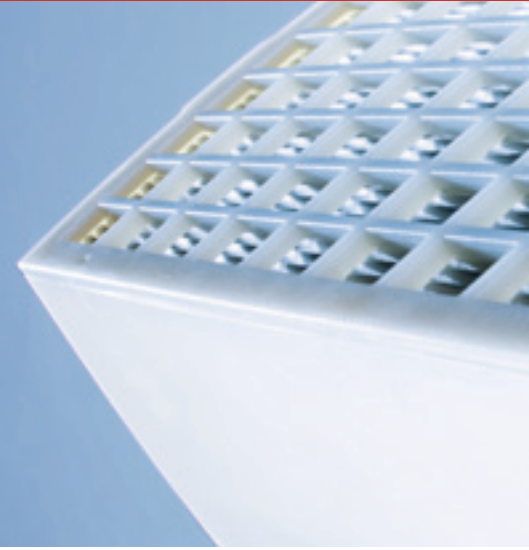
In the event of a deviation from target values, either an error message is issued or the programme is interrupted immediately to allow the user to deal with the cause of the fault, depending on system parameters. Deviations can also be recorded in the automatic process documentation. Spray arm sensing offers effective protection against spray arm blockages by items in the load and also provides information on pressure conditions in the machine and in mobile units and baskets. And, most importantly, spin speeds provide a valuable indication as to the reproducibility of validated processes, increasing safety margins in machine-based instrument reprocessing systems by a considerable degree.



Exclusive to
MIELE

- Spray arm monitoring on **all** levels
- Monitoring of spray arms speeds

PerfectHEPA drying – Pure drying air PerfectDoc – Gap-free documentation



PG85 PerfectHepaDrying

- **Optimum drying results**
- **High level of air purity in chamber**
- **High standards of hygiene**

New hygiene standards and the use of innovative Miele technology also applies to the drying phase. The new Class H 13 high-temperature HEPA filter, located directly upstream from the cabinet, prevents the admission of unwanted airborne particles from room air. This ensures exceedingly high levels of air purity in the cabinet. Thanks to streamlined air ducting, Perfect HEPA Drying also ensures excellent drying performance.



PG85 PerfectDoc

- **Continuous process documentation**
- **Monitoring of wide range of parameters**
- **Perfect process traceability**

The PG 8527 is fitted with a network interface for process documentation as a standard feature. The PerfectDoc module allows the machine to interface with process documentation software. This facilitates the recording of many process parameters, including temperatures, as well as the documentation of entire process protocols including dispensed quantities, spray arms speeds and conductivity readings. Alternatively, a printer can be used for documentation purposes.

Exclusive to
MIELE

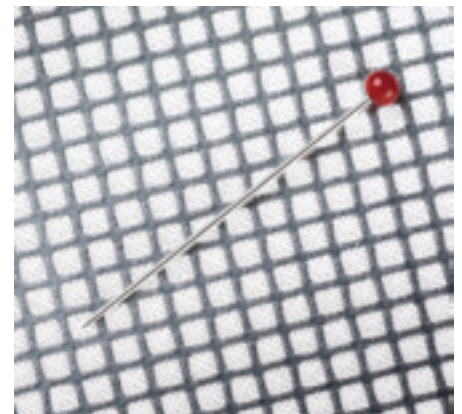
- **Wide range of parameters including temperature, dispenser volumes, conductivity and spray arm rotation**

The revolution in the wash chamber

Micro-fine filter PG 8527



PG85 PerfectFineFilter



Safety

The automatic cleaning and disinfection of laboratory glassware takes work off the hands of users and ensures process security in reprocessing. A key function in the process is fulfilled by the filtration of the wash liquor during the entire cycle: This reliably protects irrigation systems and nozzles against particulate build-up and prevents the recontamination of instruments.

Innovation

With the micro-fine filter system for the PG 8527 washer-disinfector, Miele Professional is setting new standards. Thanks to the use of a unique filtration system presenting a large surface area and with a mesh size of only 0.2 mm, even the smallest of particles are reliably removed from circulation.

Benefits

Micro-particulate residues are scarcely visible to the human eye. For users, this means precise and time-consuming inspection of cleaning results. Thanks to its excellent filtration capacity, removing particles as small as 0.2 mm, the Miele micro-fine filtration system takes a huge workload off the hands of users - offering great benefits in terms of process security.

The new filter system is fitted ex works on the current PG 8527 washer-disinfector. A retrofit kit is available from Spares to add this feature to existing machines.

Exclusive to
MIELE

- Micro-fine filtration with 0.2 mm mesh size
- Effective filtration of wash liquor
- Safe, routine use
- Enhanced process security through automatic process
- Improved durability and preservation of values in washer-disinfectors

PerfectFineFilter - Micro-filtration of wash liquor



Model type

- PG 8527: Single-door model with vertical sliding door

Capacity per cycle

- 232 narrow-necked glasses or 232 pipettes

Design

- Stand-alone or side-by-side installation
- Width 1150 mm
- Modular approach with customised features to meet individual requirements
- Single-chamber system for washing, disinfection and drying
- Service-friendly design
- Heater elements outside wash chamber
- Low heat and sound emissions thanks to double insulation

Cleaning technology

- Hygienic freshwater system with fresh water intake in each programme stage
- Cleaning, disinfection and drying in a closed, single-cabinet system
- Hygienic stainless-steel inner cabinet with coved corners and sloping self-draining ceiling
- 2 spray arms in cabinet for thorough cleaning of laboratory glassware
- Spray arms with high water impact force
- Full water jet access, ensuring optimum results
- Thorough cleaning of lumens thanks to injector system
- Direct docking of mobile units to water circuit

- 2 powerful circulation pumps
- Double filtration system with pump filter and 0.2 mm micro-fine filter
- Filters in inlet hoses
- Flowmeter to monitor water intake quantities
- 1 dump valve

Dispenser systems

- 2 bellows-type dispenser pumps for liquid detergent and neutralising agent

Miele PROFESSIONAL



Controls

- Freely programmable controls PROFITRONIC
- 64 programme slots
 - 16 standard washing and disinfection programmes
 - 17 service programmes
 - 31 vacant programme slots
- User interface with local-language display
- Display of programme selection and programming dialogues, countdown time, faults and operating hours.
- Compilation of new programmes using machine controls or using PC/laptop via optical interface

Interfaces

- 4 serial RS 232 interfaces for process documentation
- Optical interface for service and maintenance
- 1 Ethernet interface

Safety features

- Electric door lock
- Programme recontinuation in event of power outage
- Peak-load negotiation
- Optical and acoustic signal at end of programme
- 2 separate sensors for temperature monitoring and control
- Port for simple positioning of sensors in the wash cabinet for process validation
- Sensors in cabinet and magnetic strip on mobile units for automatic assignment of programmes to mobile units
- Volume flow control
- Spray arm sensing

Multiport

- For connection of printer and/or scanner

PG 8527 washer-disinfector



Machine versions, additional modules

Basic unit

PG 8527	Features	Mat. no.	Art. no.
Electric	AE PT EL AV	6881680	62.8527.21
Steam/Electric	AE PT D/EL AV	6881690	62.8527.31

Explanation of symbols cf. Page 5

Additional modules PG 8527

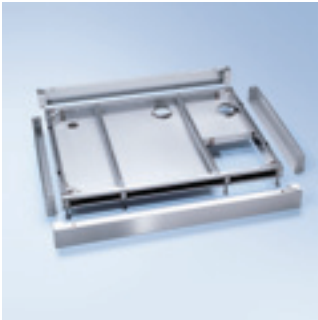
	Mat. no.	Art. no.
Drain pump	6758120	69.2400.01
Cabinet AISI 316 L (DIN 1.4404) grade stainless steel	6758160	69.2410.01
Boiler EL	6758220	69.2430.01
Boiler D/EL	6758270	69.2430.02
Glass door for PG 8527	6758320	69.2450.01
Integrated printer	6758340	69.2470.01
Scanner connection with scanner	7686510	69.2470.12
Conductivity module (information on Page 10)	6758400	69.2440.01
Dispenser pump – Integrated (additional) ¹ – Please state purpose (cf. footnotes)	6758410	69.2460.01

Please note:

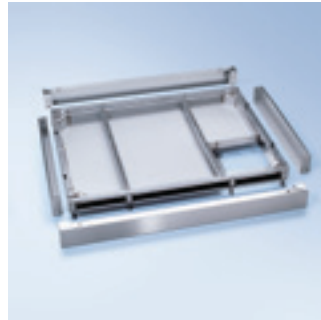
D/EL machine version can only be operated in combination with D/EL boiler

¹ Please specify whether dispenser pump is for detergent, neutralising agent or chemical disinfectant.

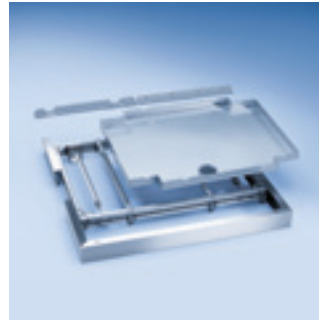
Components/Accessories



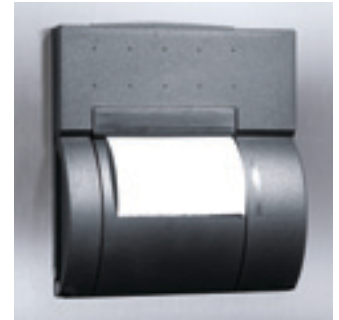
- SBW**
Plinth/floor tray
- Frame with integrated stainless-steel floor tray
 - 2 cross-brackets for moving machine
 - Cut-outs for steam and plumbing connections, dump valve, dual drain valve and floor tray drain
 - H 100, W 1150, D 856 mm



- SBW/1**
Plinth/drip tray without cutouts
- For version with drain pump
 - Utilities, e.g. water, electricity and steam, through ceiling
 - H 100, W 1150, D 856 mm



- SBWR**
Plinth/floor tray
- Roller plinth/floor tray
 - Castors allow machine to be pulled forward for servicing
 - PG 8527 with drain pump
 - Utility supply access through ceiling
 - H 100, W 1150, D 856 mm



- Integrated printer for process documentation**
- 8-needle printer and RS 232 serial interface
 - Paper width: 58 mm
 - Recording of following parameters during programme: Date and Mach. no., Prog. no., prog. name, starting and finishing time, dispensing concentration, dispensing temperature and pump 1-4, target temperature reached (wash/dry) with times, all faults (e.g. 'water inlet'), all incidents of manual intervention (start, stop, power outage)
 - Meets process parameters with respect to temperature and holding time

Paper rolls available from Miele
Spares: Mat. no.: 4781470

Paper roll size:
Width 58 mm, Ø 50 mm,
Length 20 m

Accessories	Features	Mat. no.	Art. no.
SBW	Plinth/drip tray for PG 8527	6757850	69.2530.01
SBW/1	Plinth/drip tray for PG 8527		
	Without cut-outs	6757860	69.2530.02
SBWR	Plinth/drip tray, on castors for PG 8527	5653140	69.3710.05
Printer	For process documentation	6758340	69.2470.01

Accessories



TA/E

Drying unit/electric

- Side-channel compressor
- Drying of interior and exterior load surfaces
- 2 pre-filters Class EU 4, filter rating > 95% (ASHRAE Standard 52-68)
- Life cycle 200 h
- 2 particulate/HEPA filters H 13, filter rating > 99.95% (DIN 1822:2011)
- Life cycle 1000 h
- Voltage
3N AC 400 V 50 Hz
- Heating 2 x 4 kW = 8 kW
- Heavy-duty fan/side-channel compressor, life cycle above 10,000 h, 2 air circuits 1.8 kW
- Total rated load [kW] 10
- Air throughput approx. 250 m³/h
- Temperature infinitely adjustable between 60°C and 115°C
- Time programmable between 1 and 240 mins.
- Incl. fitting frame for installation on top of PG 8527/PG 8528
- Panelling through to ceiling to be provided on site, cf. MAV 27/28



TA/D

Drying unit/steam

- Side-channel compressor
- Drying of interior and exterior load surfaces
- 2 pre-filters Class EU 4, filter rating > 95% (ASHRAE Standard 52-68)
- Life cycle 200 h
- 2 particulate/HEPA filters H 13, filter rating > 99.95% (DIN 1822:2011)
- Life cycle 1000 h
- Heating steam-to-air heat exchanger (steam circuit stainless steel, air circuit aluminium)
- Steam pressure 3.5-6 bar (350-600 kPa)
- Steam quality: filtered saturated steam
- Steam capacity (max.) 15 kg/h (machine and drying unit 50 kg/h)
- Heavy-duty fan/side-channel compressor, life cycle above 10,000 h, 2 air circuits 1.8 kW
- Total rated load [kW] 1.8
- Air throughput approx. 250 m³/h
- Temperature infinitely adjustable between 60°C and 115°C
- Time programmable between 1 and 240 mins.
- Incl. fitting frame for installation on top of PG 8527
- Panelling through to ceiling to be provided on site, cf. MAV 27/28



DK 27/28

Heat-exchanger steam condenser

- Water-cooled (only dehumidified air should be introduced into air conditioning system)
- Connection to on-site cooling circuit (no water consumption) or cold water connection (water consumption)
- Max. water pressure: 8 bar
- On-site installation
- Reduction of air discharge temperature to approx. 30-35°C
- Reduction in relative humidity to approx. 60-70%



MAV 27/28

Fitting kit/top-box panelling kit for drying unit/steam condenser frame

- Service hatches, with lock, for both sides of diaphragm wall, stainless steel
- Ventilation grille on the infeed side
- H 760, W 1150, D 765 mm
- Diaphragm wall panelling between the top of the top-box panelling and the ceiling must be provided on site
- Incl. MAV top panel to cover top-box panelling

Accessories	Features	Mat. no.	Art. no.
TA/E	Drying unit/electric	6757710	69.2500.01
TA/D	Drying unit/steam	6757770	69.2500.02
DK 27/28	Heat-exchanger steam condenser	6757790	69.2510.01
MAV 27/28	Top-box panelling kit	6757820	69.2520.01

Technical data

Washer-disinfector	PG 8527
Single-door model with vertical sliding door	•
All-glass doors/cabinet lighting	o
Single/multiple installations	•
Freshwater system, max. temperature 93	•
Direct mobile unit docking for cleaning and drying of lumened instruments	•
2 circulation pumps [Qmax. l/min]	400/600*
Boiler for heating demineralised water	o
Controls/Programmes	
Profitronic +, 16 standard programmes	•
64 programme slots	•
Electric door lock	•
Peak-load negotiation	•
Network interface for process documentation	•
Magnetic strip for automatic mobile unit recognition	•
Spray arm sensing	•
Conductivity metering	o
Remote service enabled	•
Water connections	
1 x cold water, 2–10 bar flow pressure (200–1000 kPa) (max. 4°dH)	•
1 x Hot water, 2–10 bar flow pressure (200–1000 kPa) (max. 4°dH)	•
1 x Demineralised water, 2–10 bar flow pressure (200–1000 kPa)	•
3 inlet hoses ½" with ¾" threaded union	•
Drain valve DN 50, odour trap to be fitted on site	•
2 drain pumps, DN 22, odour trap to be provided on site	o
Electrical connection: Electric heating	
3 N AC 400 V 50 Hz	•
Cabinet heating [kW]	18
Boiler heating [kW]	15
Circulation pump [kW]	0.7/1.2*
Total rated load w/o drying unit [kW]	20
Total rated load with electric drying unit [kW]	20
Fuse rating [A]	3 x 32
Electrical connection: Steam heating	
3 N AC 400 V 50 Hz	•
Circulation pump [kW]	0.7/1.2*
Total rated load w/o TA [kW]	2
Total rated load with steam-heated drying unit [kW]	2
Total rated load with electric drying unit [kW]	10
Fuse rating [A]	3 x 16
Steam connection G ½" (DN 15)	•
Operating pressure 350-600 kPa (steam-heated drying unit)	•
Compressed air connection 600–1200 kPa	•
Electrical connection: Steam/Electric (convertible)	
3 N AC 400 V 50 Hz	•
Cabinet heating [kW]	18
Boiler heating [kW]	15
ulation pump [kW]	0.7/1.2*
Total rated load with electric drying unit [kW]	20
Fuse rating [A]	3 x 32
Steam connection G ½" (DN 15)	•
Operating pressure 350–1000 kPa (electric drying unit)	•
Compressed air connection 600–1200 kPa	•

* Spray arms / direct docking

Technical data

Washer-disinfector	PG 8527
Dispenser systems	
2 bellows-type pumps for detergent and neutralising agent	•
2 x 10 l supply canisters	•
Space for 4 x 10 l supply canisters	•
Volume flow control	•
Max. 3 additional dispenser pumps	o
Dimensions/Weight	
External dimensions H incl. plinth tray [mm]	1660
External dimensions H incl. frame with TA [mm]	2420
External dimensions W/D [mm]	1150/870
Useable cabinet dimensions H/W/D [mm]	675/650/800
Overall cabinet dimensions H/W/D [mm]	860/685/800
Loading height above floor	850
Weight [kg]	408
Outer casing	
Stainless steel (AE)	•
Test certificates	
VDE, VDE-EMC, IP 20, MDD CE 0366	•
TA/E drying unit, electrically heated	
Supply voltage	3 N AC 400 V 50 Hz
Fan [kW]	1.8
Heater bank, depending on model [kW]	8
Total rated load, depending on model [kW]	10
Air throughput [m ³ /h]	approx. 250
Temperature selection in 1° increments [°C]	60 - 115
Time selection in 1-minute increments	1 - 240
2 x pre-filters EU 4, filter rating > 95%, filter life 200 h	•
2 particulate/HEPA filters H 13, filter rating > 99.95% (DIN 1822:2011), filter life 1000 h	•
TA/D drying units steam-heated	
Steam pressure [bar]	3.5 - 6
Steam quality: filtered saturated steam	•
Steam output: (max.) [kg/h]	15
(machine and drying unit 50 kg/h)	
Total rated load, depending on model [kW]	1.8
Air throughput [m ³ /h]	approx. 250
Temperature selection in 1° increments [°C]	60 - 115
Time selection in 1-minute increments	1 - 240
2 x pre-filters EU 4, filter rating > 95%, filter life 200 h	•
2 particulate/HEPA filters H 13, filter rating > 99.95% (DIN 1822:2011), filter life 1000 h	•

• = Standard, o = Optional

PG 8527

E 941 mobile unit with sample loads



E 941 Mobile unit TA (empty)

- For modules on 2 levels
- Depending on the size of the glassware, up to 2 modules can be accommodated on each level
- Water and drying air enters via a direct docking system and adapters.
- Clearances (from bottom upwards):
 - Level 1 (without top module)
H 609, W 558, D 352 mm
 - Level 1 (with top module)
H 317, W 558, D 352 mm
 - Level 2 H 245, W 558, D 352 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 421, W 619, D 790 mm

Mat. no. 4812530

Art. no. 69.5941.01



Sample load arrangement for E 941 TA mobile unit

- Lower level: 2x E 944/2 injector module for narrow-necked glasses 500 - 1000 ml
- Upper level: 2x E 943/2 injector module for narrow-necked glasses 100 - 500 ml



Sample load arrangement for E 941 TA mobile unit

- Lower level: 2x E 945/2 module frame with E 106 insert for narrow-necked glasses or E 109 for beakers
- Upper level: 2x E 943/2 injector module for narrow-necked glasses 100 - 500 ml



Sample load arrangement for E 941 TA mobile unit

- Lower level: 1x E 943/2 injector module for narrow-necked glasses 100 - 500 ml and 1x E 942/3 injector module for pipettes, max. 580 mm
- Upper level: 1x E 947/2 injector module for e.g. centrifuge tubes

PG 8527

Modules for E 941



E 942/3 injector module

- For 116 pipettes, max. 580 mm
- Holder frame
- Compartment size 16 x 16 mm
- H 279, W 558, D 352 mm

Mat. no. 7459390
Art. no. 69.5942.04



E 943/2 injector module

- For narrow-necked glassware, 100 - 500 ml
- 32 nozzles (E 351) 4 x 160 mm with clips (E 353)
- H 190, W 558, D 352 mm

Mat. no. 7459400
Art. no. 69.5943.03



E 944/2 injector module

- For narrow-necked glassware 500 - 1000 ml
- 15 nozzles (E 352) 6 x 220 mm with clips (E 354)
- H 250, W 558, D 352 mm

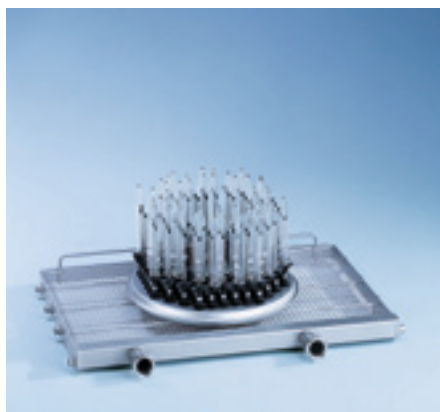
Mat. no. 7459410
Art. no. 69.5944.03



E 945/2 module

- Carriage frame for inserts
- H 55, W 558, D 352 mm

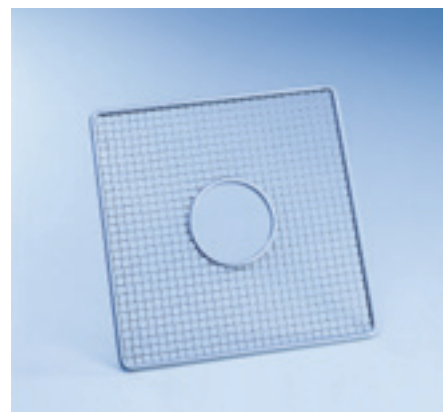
Mat. no. 7459420
Art. no. 69.5945.03



E 947/2 injector module

- 88 injector nozzles for centrifuge tubes, phials and fraction sampler tubes
- 88 nozzles 2.5 x 110 mm
- H 170, W 558, D 352 mm

Mat. no. 7459430
Art. no. 69.5947.03



A 5 cover

- For insert E 947/2
- H 8, W 280, D 280 mm

Mat. no. 5637190
Art. no. 69.5005.01

PG 8527

Mobile unit with 2 - 5 levels



E 940 mobile unit with drying connection (empty)

- For narrow-necked glassware on 2 levels (115 nozzles with clips)
- Clearance on lower level: 35 nozzles (E 352) 6.0 x 220 mm with support (E 354)
- Clearances upper level: 80 nozzles (E 351) 4 x 160 mm with supports (E 353)
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 565, W 640, D 790 mm

Mat. no. 4607630
Art. no. 69.5940.01



E 950/1 mobile unit with drying connection

- For narrow-necked glassware on 3 levels (232 nozzles).
- Levels 1 + 3: 80 nozzles each, ID 90 (2.5 x 90 mm)
- Level 2: 72 nozzles ID 90 (2.5 x 90 mm) Max. load height on each level 148 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 572, W 640, D 790 mm

Mat. no. 6696990
Art. no. 69.5950.02



E 957 mobile unit with drying connection

- For 1-12 large-volume laboratory glassware items (12 nozzles)
- Height-adjustable frame with 8 short and 6 long supports.
- Max. height above star support: 615 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 353, W 640, D 790 mm

Mat. no. 5746300
Art. no. 69.5957.01



E 975/2 mobile unit with drying connection (empty)

- For inserts on 2 levels
- Built-in spray arm
- Clearances (from bottom):
Level 1: H 297, W 592, D 780 mm
Level 2: H 290, W 592, D 780 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 427, W 640, D 790 mm

Mat. no. 7765790
Art. no. 69.5975.03



E 935/2 mobile unit with drying connection (empty)

- For inserts on 3 levels
- 2 built-in spray arms
- Clearances (from bottom):
Level 1: H 202, W 585, D 780 mm
Level 2: H 202, W 595, D 780 mm
Level 3: H 132, W 595, D 780 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 524, W 640, D 790 mm

Mat. no. 7765780
Art. no. 69.5935.03



E 900-4/2 mobile unit with drying unit (empty)

- For inserts on 4 levels
- 3 built-in spray arms
- Clearances from bottom:
Level 1: H 112.5, W 585, D 780 mm
Level 2 and 3: H 112.5, W 595, D 780 mm
Level 4: H 114, W 595, D 780 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 557, W 640, D 790 mm

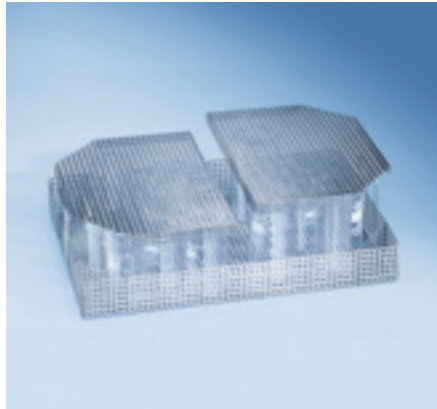
Mat. no. 7765740
Art. no. 69.5900.05



E 900-5/2 mobile unit with drying unit (empty)

- For inserts on 5 levels
- 4 built-in spray arms
- Clearances from bottom:
 - Level 1: H 80, W 585, D 780 mm
 - Level 2 - 4: H 80, W 595, D 780 mm
 - Level 5: H 73, W 595, D 780 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition
- H 605, W 640, D 790 mm

Mat. no. 7765760
Art. no. 69.5900.06

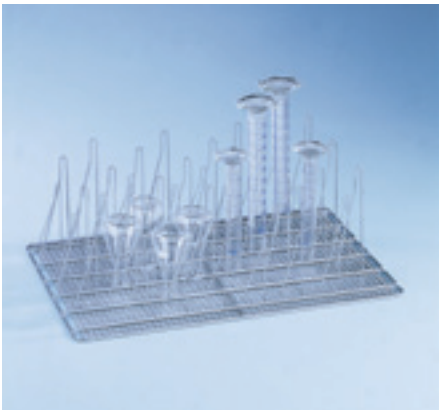


E 969 insert

- For various utensils
 - Perforated sheet-metal plate, 7 x 7 x 3 mm
 - For E 900-4/2, E 935/2, E 975/2 and E 941 with E 945 module
 - H 67/122, W 363, D 533 mm
- Mat. no. 5746240
Art. no. 69.5969.01

A 19 1/2 lid

- For insert E 969
 - H 18, W 351, D 251 mm
- Mat. no. 5746210
Art. no. 69.7969.01



E 960/1 insert 1/2

- With 20 large and 26 small spring hooks
- For wide-necked Erlenmeyer flasks and measuring cylinders
- H 185, W 357, D 522 mm

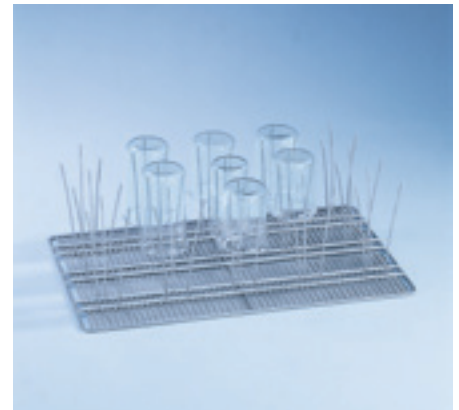
Mat. no. 5892360
Art. no. 69.5960.02



E 963 insert 1/2

- With 33 x 3 holders for beakers, max. 250 ml
- H 155, W 357, D 522 mm

Mat. no. 5848300
Art. no. 69.5963.01



E 965 insert 1/2

- With 15 x 3 holders for beakers, 250 - 600 ml
- H 173, W 357, D 522 mm

Mat. no. 5848290
Art. no. 69.5965.01

PG 8527/PG 7825 Inserts



E 103/1 insert 1/4

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

Mat. no. 6907630

Art. no. 69.5103.02

E 104/1 insert 1/4

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

Mat. no. 6907640

Art. no. 69.5104.02



E 149 insert 1/4

- For 80 test tubes, max. 16 x 105 mm
- Including lid
- 80 compartments, 18 x 18 mm
- Mesh size on base 8 x 8 mm

Mat. no. 3808800

Art. no. 69.5149.01

E 105/1 insert 1/4

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

Mat. no. 6907650

Art. no. 69.5105.02

E 139/1 insert 1/4

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

Mat. no. 6907660

Art. no. 69.5139.02



A 13 lid

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

Mat. no. 3810200

Art. no. 69.7450.01



AK 12 insert 1/2

- For funnels, beakers, wide-necked glassware, etc.
- H 67 (127), W 225, D 442 mm

Mat. no. 3830510

Art. no. 69.5012.01



A 14 1/4 lid

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

Mat. no. 3981970

Art. no. 69.7450.02

Inserts



E 403 insert 1/2

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

Mat. no. 3830430

Art. no. 69.5403.01



E 402 insert 1/2

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

Mat. no. 3830420

Art. no. 69.5402.01



E 136 insert 1/1

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

Mat. no. 3830280

Art. no. 69.5136.01

E 106 insert 1/2

- For wide-necked glassware, measuring beakers, etc.
- 10 spring hooks, H 175 mm
- 16 spring hooks, H 105 mm,

Spacing approx. 60 mm

- H 186, W 195, D 430 mm

Mat. no. 3808310

Art. no. 69.5106.01

E 106/1 insert 1/2

- 26 small spring hooks, H 105 mm, Spacing approx. 60 mm
- H 116, W 195, D 410 mm

Mat. no. 3808320

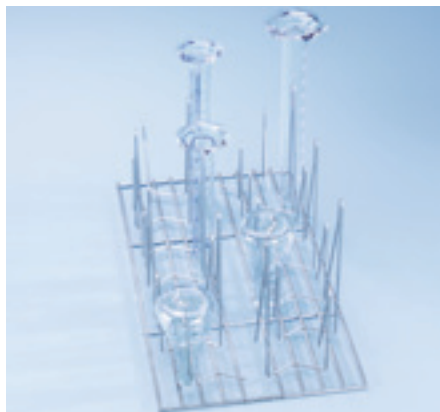
Art. no. 69.5106.02

E 106/2 insert 1/2

- 13 large spring hooks, H 175 mm, spacing approx. 85 mm
- H 186, W 180, D 420 mm

Mat. no. 3808330

Art. no. 69.5106.03



E 106 insert



E 111 insert

E 109 insert 1/2 (not illustrated)

- For 21 beakers, max. 250 ml
 - 21 x 3 spikes
 - H 155, W 230, D 460 mm
- Mat. no. 3808360
Art. no. 69.5109.01

E 110 insert 1/2 (not illustrated)

- For 10 beakers, 250 - 600 ml
 - 10 x 3 spikes
 - H 175, W 230, D 460 mm
- Mat. no. 3808390
Art. no. 69.5110.01

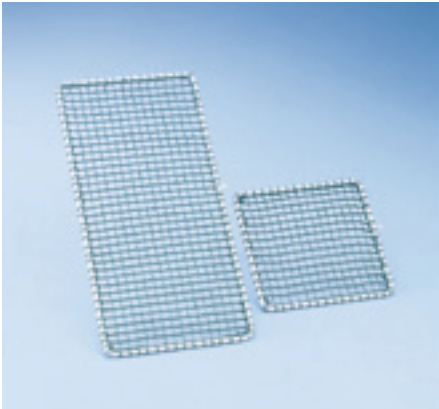
E 111 insert 1/2

- For 8 beakers, 600 - 1000 ml
 - 8 x 3 spikes
 - H 205, W 230, D 460 mm
- Mat. no. 3808420
Art. no. 69.5111.01

E 144 insert 1/2 (not illustrated)

- For 18 beakers, max. 250 ml
 - 18 x 3 spikes
 - H 131, W 200, D 445 mm
- Mat. no. 3808710
Art. no. 69.5144.01

PG 8527/G 7825 and Accessories

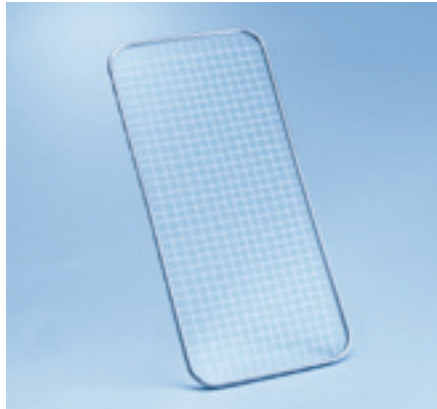


A 2 cover net 1/2 (illustration on left)

- 216 x 456 mm
 - Plastic-coated metal frame with plastic netting
 - For 1/2 inserts
- Mat. no. 3830460
Art. no. 69.5002.01

A 3 1/4 cover net (illustration on right)

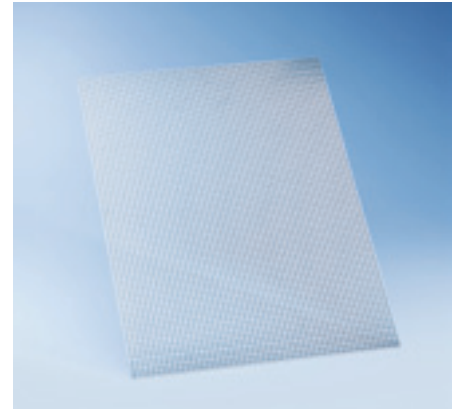
- 206 x 206 mm
 - Plastic-coated metal frame with plastic netting
 - For 1/4 inserts
- Mat. no. 3830470
Art. no. 69.5003.01



A 6 cover net 1/2

- 215 x 445 mm
- Stainless-steel with polypropylene mesh

Mat. no. 7217650
Art. no. 69.5006.01



A 9/1 insert

- Perforated plate
- 7 x 7 mm perforations
- 3 mm ridge
- For E 935/2, E 975/2 and 901/2
- H 1, W 773, D 573 mm

Mat. no. 6097010
Art. no. 69.5009.02



Further inserts for laboratory glassware in following brochure:
Perfection in the reprocessing of laboratory glassware (G 7883 – PG 8536)



TK/1 test kit

- Detects the presence of proteins to monitor cleaning results
- For 48 tests
- With code strips for reflectometer (reflectometer not provided)
- via Service

Mat. no. 6157330



E 336 injector sleeve MIBO

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

Mat. no. 3809390
Art. no. 69.7336.01



E 352 injector nozzle^①

- For injector mobile unit
- For combination with E 354
- 6 x 220 mm, screw thread

Mat. no. 3809510
Art. no. 69.7352.01

E 351 injector nozzle^②

- For injector mobile unit
- For combination with E 353
- 4 x 160 mm, screw thread

Mat. no. 3809500
Art. no. 69.7351.01

E 354 clip for nozzle^③

- For E 352 injector nozzle
- Height-adjustable
- 6 x 220 mm

Mat. no. 3809540
Art. no. 69.7354.01

E 353 clip for nozzle^④

- For E 351 injector nozzle
- Height-adjustable
- 4 x 160 mm

Mat. no. 3809530
Art. no. 69.7353.01

E 470 injector nozzle with clip^⑤

- For injector mobile unit
- 2.5 x 90 mm, screw thread

Mat. no. 5701580
Art. no. 69.5470.01



Injector nozzle with plastic support

Front row, from left

ID 160 4 x 160 mm

Mat. no. 3810350
Art. no. 69.7160.01

ID 140 4 x 140 mm

Mat. no. 3810340
Art. no. 69.7140.01

ID 110 2.5 x 110 mm

Mat. no. 3810330
Art. no. 69.7110.01

ID 90 2.5 x 90 mm

Mat. no. 3810320
Art. no. 69.7090.01

Rear row, from left

ID 240 6 x 240 mm

Mat. no. 3810400
Art. no. 69.7240.01

ID 220 6 x 220 mm

Mat. no. 3810390
Art. no. 69.7220.01

ID 200 6 x 200 mm

Mat. no. 3810380
Art. no. 69.7200.01

ID 180 4 x 180 mm

Mat. no. 3810360
Art. no. 69.7180.01



E 362 blanking screw

- M 8 x 1 thread, to close connectors on mobile units

Mat. no. 3809630
Art. no. 69.7362.01

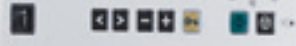
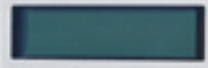
SD-B injector nozzle for butyrometers

(not illustrated)

Mat. no. 3583540
Art. no. 69.7080.01



Miele
PROFESSIONAL



G 7825 washer-disinfector

The G 7825 washer-disinfectors were specifically designed to meet the needs of smaller and medium-sized laboratories. With a width of only 900 mm, these machines are the ideal proposition in cases where space is at a premium.

Flexible solutions for the central and decentral reprocessing of laboratory glassware

Miele's G 7825 washer-disinfectors offer a wide range of installation options, tailored individually to the needs of laboratories. This allows units to be installed both decentrally in specialist departments or centrally for coping with larger volumes of instruments.

Wide range of standard features and optional extras

The modular approach adopted by Miele's G 7825 washer-disinfectors combined with a broad range of features and optional extras guarantees greatest flexibility to meet the on-site conditions and hygiene concepts. This machine is equipped with electric or steam heating and is even available with convertible dual steam and electric heating. Processes and process parameters are controlled and monitored by sophisticated, state-of-the-art electronic controls. These controls were developed at Miele's own electronics production plant and are tailored to meet the needs of laboratory glassware.

A particularly service-friendly feature is, for example, the combined plinth and drip tray on castors. To ensure the safe and practical handling of mobile units, Miele recommends its Miele MF/3 transfer trolley.



Miele quality – Made in Germany

Miele washer-disinfectors have been an integral part of quality assurance in laboratories. All components are uncompromising in terms of quality, offering users both safety as well as economical and practical benefits.

Specifications Washer-disinfectors	Unit width/depth	Door	Cabinet Cabinet dimensions H/W/D Cabinet volumes	Capacity per cycle
PG 8527	1150/870 mm	Vertical-rise door	675/650/800 mm 351 l	232 narrow-necked glasses or 232 pipettes
G 7825	900/750 mm	Bottom-hinged door	683/541/610 mm 225 l	108 narrow-necked glasses or 104 pipettes

Standard machine features and specifications



Model type

- G 7825: Front-loading unit with single bottom-hinged door

Capacity per cycle

- 108 narrow-necked glasses or 104 pipettes

Design

- Stand-alone or side-by-side installation
- Width 900 mm
- Modular approach with customised features to meet individual requirements
- Single-chamber system for washing, disinfection and drying
- Service-friendly design
- Low heat and sound emissions thanks to double insulation

Cleaning technology

- Hygienic freshwater system with fresh water intake in each programme stage
- Cleaning, disinfection and drying in a closed, single-cabinet system
- 2 spray arms in cabinet for thorough cleaning of laboratory glassware
- Spray arms with high water impact force
- Full water jet access, ensuring optimum results
- Thorough cleaning of lumens thanks to injector system
- Direct docking of mobile units to water circuit

- 2 powerful circulation pumps
- Triple filtration with large surface filter, coarse filter and micro-fine filter
- Filters in inlet hoses
- Flowmeter to monitor water intake quantities
- 1 dump valve

Dispenser systems

- 2 dispenser pumps for liquid detergent and neutralising agent



Controls

- Freely programmable controls PROFITRONIC
- 64 programme slots
 - 17 standard washing and disinfection programmes
 - 8 service programmes
 - 39 vacant programme slots
- User interface with local-language display
- Display of programme selection and programming dialogues, countdown time, faults and operating hours.
- Compilation of new programmes using machine controls or using PC/laptop via optical interface

Interfaces

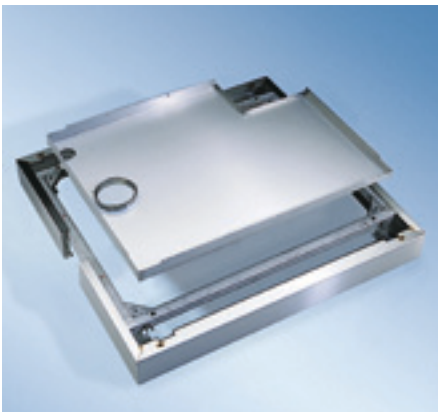
- Serial RS 232 interface for process documentation
- Optical interface for service and maintenance

Safety features

- Electric door lock
- Programme recontinuation in event of power outage
- Peak-load negotiation
- Optical and acoustic signal at end of programme
- 2 separate sensors for temperature monitoring and control
- Port for simple positioning of sensors in the wash cabinet for process qualification/validation
- Sensors in cabinet and a magnetic strip on mobile units for automatic assignment of programmes to mobile units

Modular machine concept

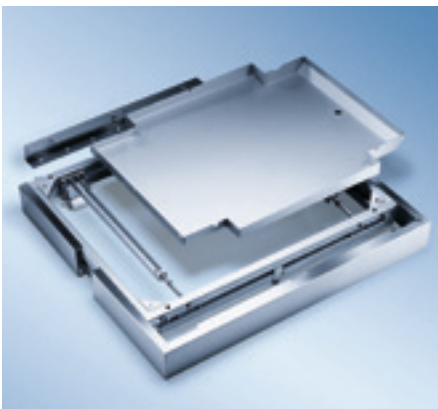
Optional extras



SBW/2

Plinth/floor tray

- Frame with integrated stainless-steel floor tray
- Cut-outs for steam and plumbing connections, dump valve, dual drain valve and floor tray drain
- A single floor tray can be provided on site for machines installed in a row.
- Plinth fascia (front and rear) with 8 mm recess, flush at sides
- H 100, W 900, D 734 mm



SBWR/2

Plinth/drip tray for G 7825

- Roller plinth/floor tray
- Castors allow machine to be pulled forward for servicing
- For G 7825 with drain pump
- Utility supply access through ceiling
- H 100, W 900, D 734 mm

PRT/1

Printer for process documentation

- 6-needle printer and RS 232 serial interface
- Paper width: 58 mm
- For installation on infeed side of G 7825
- Recording of following parameters during programme:
Date and Mach. no., programme no., programme name, starting and finishing time, dispensing concentration, dispensing temperature and pumps 1–4, target temperature reached (wash/dry) with times, all faults (e.g. 'water inlet'), all incidents of manual intervention (start, stop, power outage)
- Meets process parameters with respect to temperature and holding time

Machine versions, components, accessories

DK 25/26

Steam condenser/heat exchanger

- For G 7825 with water cooling (only dehumidified air should be vented to air conditioning system)
- No water consumption when connected to on-site cooling water circuit, max. water pressure 8 bar
- Or cold water supply (water consumption)
- On-site installation
- Reduction of air discharge temperature to approx. 30-35°C
- Reduction in relative humidity to approx. 60 - 70%

MAV 25/26

Installation kit/Top-box panelling for steam condenser

- Service hatches, with lock, for both sides of diaphragm wall, stainless steel
- Ventilation grille on the infeed side
- Diaphragm wall panelling between the top of the top-box panelling and the ceiling must be provided on site
- H 430, W 900, D 750 mm

MVA Installation kit/Floor anchors

- 4 feet, fittings, plugs
- Required when machine is installed without SBW/2

DOS 10/30 integrated dispenser pump

- For surfactant or neutralising agent, 10 ml/30 secs.
- Complete with hoses and siphon (330 mm) for 10 l canisters

DOS 60/30 integrated dispenser pump

- For liquid disinfectant or detergent, 60 ml/30 secs.
- Complete with hoses and siphon (330 mm) for 10 l canisters

G 7825	Features	Mat. no.	Art. no.
Electric	AE PT EL AV	5267200	62.7825.20
	AE TA PT EL AV	5277520	62.7825.21
	AE TA BO PT EL AV	5277530	62.7825.22
	AE TA PT EL AP	5544310	62.7825.24
	AE TA GS PT EL AP	5769820	62.7825.27
	AE TA BO PT EL AP	5430590	62.7825.25
Steam	AE BO PT D AV	5267170	62.7825.10
	AE TA BO PT D AP	5430620	62.7825.15
Accessories	Features	Mat. no.	Art. no.
SBW/2	Plinth/drip tray for G 7825	5238130	69.3710.02
SBWR/2	Plinth/drip tray, on castors for G 7825	5653130	69.3710.04
MVA	Anchoring kit for G 7825	5318010	69.2100.04
DK 25/26	Heat-exchanger steam condenser	6600620	69.2300.05
MAV 25/26	Top-box panelling kit for G 7825	6600590	69.2100.08
PRT/1	Printer for process documentation	5400800	69.2211.02
DOS 10/30	Retrofittable dispenser pump	5267410	69.2250.02
DOS 60/30	Retrofittable dispenser pump	5267420	69.2250.03

Cabinet – ASI 316L (1.4404) grade stainless steel (optional)

Explanation of symbols cf. Page 4

Technical data

Washer-disinfector	G 7825
Front-loading unit with bottom-hinged door	•
Barrier model with bottom-hinged doors	–
Single/multiple installations	•
Freshwater system, max. temperature 93	•
Direct mobile unit docking for cleaning and drying of lumened instruments	•
2 circulation pumps [Qmax. l/min]	300/400*
Controls/Programmes	
Profitronic, freely programmable	•
64 programme slots	•
Electric door lock	•
Peak-load negotiation	•
Serial interface for process documentation	•
Magnetic strip for automatic mobile unit recognition	•
Remote service enabled	•
Water connections	
1 x cold water, 2–10 bar flow pressure (200–1000 kPa) (max. 4°dH)	•
1 x hot water, 2–10 bar flow pressure (200–1000 kPa) (max. 4°dH)	•
1 x demineralised water, 2–10 bar flow pressure (200–1000 kPa)	•
3 inlet hoses ½" with ¾" threaded union	•
Drain valve DN 50, odour trap to be fitted on site	•
2 drain pumps, DN 22, odour trap to be provided on site	o
Electrical connection: Electric heating	
3 N AC 400 V 50 Hz	•
Heating [kW]	9.0
Circulation pump [kW]	0.3/0.7*
Total rated load w/o TA [kW]	10.0
Total rated load with electric TA [kW]	10.0
Fuse rating [A]	3 x 16
Electrical connection: Steam heating	
3 N AC 400 V 50 Hz	•
Circulation pump [kW]	0.3/0.7*
Total rated load w/o TA [kW]	1.65
Total rated load with electric TA [kW]	9.0
Fuse rating [A]	3 x 16
Steam connection G ½" (DN 15)	•
Operating pressure 250–1000 kPa on models with drying unit (electric)	•
Operating pressure 600-800 kPa on models with drying unit (steam)	•
Compressed air connection 600–1200 kPa	•
Electrical connection: Steam/Electric (convertible)	
3 N AC 400 V 50 Hz	•
Heating [kW]	9.0
Circulation pump [kW]	0.3/0.7
Total rated load with electric TA [kW]	10.0
Fuse rating [A]	3 x 16
Steam connection G ½" (DN 15)	•
Operating pressure 250–1000 kPa on models with drying unit (electric)	•
Operating pressure 600-800 kPa on models with drying unit (steam)	•
Compressed air connection 600–1200 kPa	•
* Machine spray arms / direct docking	

Technical data

Washer-disinfector	G 7825
Dispenser systems	
1 x DOS 10/30 dispenser pump for liquid acidic agents	•
1 x DOS 60/30 dispenser pump for liquid detergent	•
2 x 10 l supply canisters	•
Space for 3 x 5 l supply canisters	•
Connection options (retrofitable by Service)	
DOS 10/30 dispenser pump for neutralising agent	o
DOS 60/30 dispenser pump for detergent/chemical disinfectant	o
Drying unit/side-channel compressor	
Fan [kW]	2 x 0.9
Heater bank, depending on model [kW]	2 x 3.6
Total rated load, depending on model [kW]	9
Air throughput [m³/h]	250
Temperature selection in 1° increments	60 - 115
Time selection in 1-minute increments	1 - 240
2 x pre-filters EU 4, filter rating > 95%, filter life 200 h	•
4 particulate/HEPA filters H 13, filter rating > 99.95% (DIN EN 1822-1998), filter life 500 h	•
Dimensions/Weight	
External dimensions H incl. plinth tray [mm]	1974
External dimensions H incl. plinth tray and top-box panelling [mm]	2404
External dimensions W/D [mm]	900/750
Useable cabinet dimensions H/W/D [mm]	683/541/610
Overall cabinet dimensions H/W/D [mm]	900/567/610
Docking height above floor (with plinth) [mm]	850
Weight [kg]	360
Casing	
Stainless steel (AE)	•
Test certificates	
VDE, VDE-EMC, IP X1, MDD CE 0366	•

• = Standard, o = Optional

G 7825

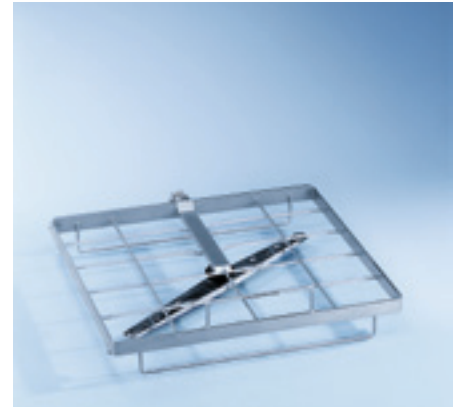
Mobile unit E 741/1 and modules for laboratory glassware



E 741/1 mobile unit with drying connection (empty)

- For modules on 1-4 levels.
- Depending on the size of the glassware, up to 3 modules can be accommodated
- Water and drying air enters via a direct docking system and adapters.
- Clearances:
 - Level 1 to upper edge: 605 mm
 - Level 2 to upper edge: 405 mm
 - Level 3 to upper edge: 267 mm
 - Level 4 to upper edge: 197 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition (excl. ML magnets)
- H 680, W 530, D 600 mm

Mat. no. 6070360
Art. no. 69.5741.02



E 742 module

- Module frame with spray arm
- H 112, W 492, D 496 mm

Mat. no. 5848320
Art. no. 69.5742.01



E 743 injector module

- For narrow-necked glassware, 100 - 500 ml
- 36 nozzles (E 351) 4 x 160 mm with clips (E 353)
- H 190, W 492, D 496 mm

Mat. no. 5555250
Art. no. 69.5743.01



E 744 injector module

- For narrow-necked glassware, 500 - 1000 ml
- 16 nozzles (E 352) 6 x 220 mm with clips (E 354)
- H 250, W 492, D 496 mm

Mat. no. 5555260
Art. no. 69.5744.01



E 752 injector module

- For narrow-necked glassware, 100 - 1000 ml
- 12 nozzles (E 351) 4 x 160 mm with clips (E 353)
- 13 nozzles (E 352) 6 x 220 mm with clips (E 354)
- H 260, W 492, D 496 mm

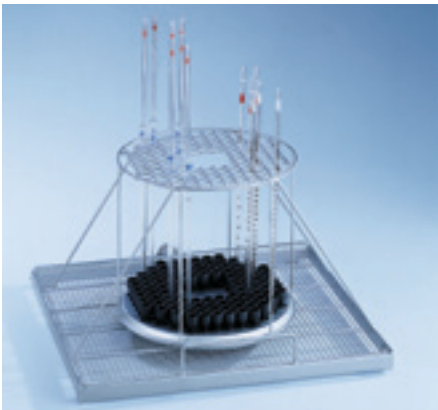
Mat. no. 5647640
Art. no. 69.5752.01



E 755 injector module

- For narrow-necked glassware, 25 - 100 ml
- 36 nozzles (E 470), 2.5 x 90 mm with holders
- H 130, W 492, D 496 mm

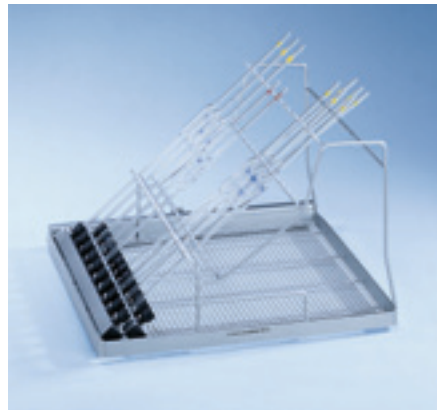
Mat. no. 5701590
Art. no. 69.5755.01



E 745/1 injector module

- For 104 pipettes, max. 540 mm
- Holder frame
- Compartment size 16 x 16 mm
- H 288, W 492, D 496 mm

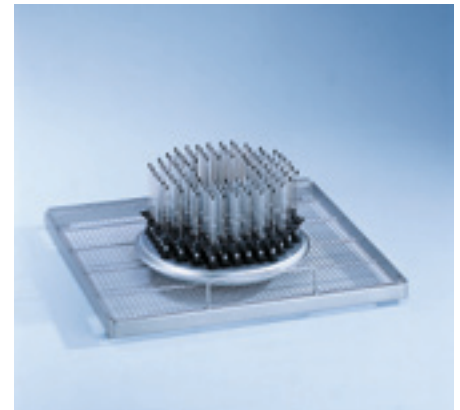
Mat. no. 6233580
Art. no. 69.5745.02



E 746 injector module

- For 23 pipettes held diagonally
- For 10 pipettes, max. 560 mm and
- 13 pipettes, max. 490 mm
- Holders spaced 20 mm or 26 mm apart
- H 330, W 492, D 496 mm

Mat. no. 5555280
Art. no. 69.5746.01



E 747 injector module

- 104 injector nozzles for centrifuge tubes, phials and test tubes, fraction sampler tubes
- 104 nozzles 2.5 x 110 mm
- H 168, W 492, D 496 mm

Mat. no. 5464630
Art. no. 69.5747.01

Loading examples E 741/1 with modules



Sample load arrangement E 741/1 mobile unit with drying connector

- With E 744 injector module for narrow-necked glasses, 500 - 1000 ml on Level 1 and Level 3



Sample load arrangement E 741/1 mobile unit with drying connector

- With E 742 module frame and E 106 and E 109 inserts for beakers, wide-necked glassware, measuring cylinders on Level 1
- With E 744 injector module for narrow-necked glasses, 500 - 1000 ml on Level 2



Sample load arrangement E 741/1 mobile unit with drying connector

- With E 743 injector module for narrow-necked glasses, 100 - 500 ml on Levels 1, 2 and 4



Sample load arrangement E 741/1 mobile unit with drying connector

- With E 747 injector module for centrifuge tubes, etc. on Level 1 and 4
- With E 743 injector module for narrow-necked glassware, 100 - 500 ml on Level 2

G 7825

Mobile unit with 2 - 5 levels



E 757 mobile unit with drying connection

- For 1 - 6 large-volume laboratory glassware items (6 nozzles)
- Height-adjustable frame with 6 short and 4 long supports, can be adjusted to diameter of glassware.
- Max. height above star support: 610 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition (excl. ML magnets)
- H 346, W 530, D 600 mm

Mat. no. 5746290
Art. no. 69.5757.01



E 775/1 mobile unit with drying connection (empty)

- For inserts on 2 levels
- Built-in spray arm
- Clearances from bottom:
Level 1: H 304, W 482, D 590 mm
Level 2: H 290, W 488, D 546 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition (excl. ML magnets)
- H 400, W 530, D 600 mm

Mat. no. 7765730
Art. no. 69.5775.03



E 735/2 mobile unit with drying connection (empty)

- For inserts on 3 levels
- 2 built-in spray arms
- Clearances from bottom:
Level 1: H 203, W 482, D 590 mm
Level 2: H 203, W 488, D 546 mm
Level 3: H 133, W 488, D 546 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition (excl. ML magnets)
- H 552, W 530, D 600 mm

Mat. no. 7765710
Art. no. 69.5735.03



E 701/2 mobile unit with drying connection (empty)

- For inserts on 4 levels
- 3 built-in spray arms
- Clearances from bottom:
Level 1: H 87, W 482, D 590 mm
Level 2 and 3: H 87, W 488, D 546 mm
Level 4: H 223, W 488, D 546 mm
- Clearances with E 702:
Level 4: H 87, W 488, D 546 mm
Level 5: H 81, W 488, D 546 mm
- Connection for hot-air drying unit
- Magnetic strip for automatic mobile unit recognition (excl. ML magnets)
- H 461, W 530, D 600 mm

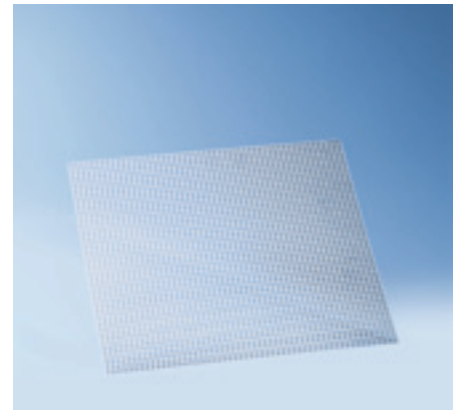
Mat. no. 7765700
Art. no. 69.5701.03



E 702 top module for E 701/1

- Level 5 for 2 further inserts
- H 160, W 530, D 560 mm

Mat. no. 5221490
Art. no. 69.5702.01



A 7/1 insert

- Perforated plate
- 7 x 7 mm perforations
- 3 mm ridge
- For E 775/1, E 735/2 and E 701/2
- H 1, W 543, D 473 mm

Mat. no. 6097000
Art. no. 69.5007.02

Transport trolleys



MF/3 for G 7825

- Trolley to simplify handling of mobile injector units
- Footswitch-operated height-adjustment mechanism
- 4 lockable wheels
- H 1182, W 660, D 807 mm, +/- 100 mm
- Docking height 751 mm, +/- 100 mm

Mat. no. 6392900

Art. no. 69.2001.07



MF 27/28-1 for PG 8527

- 4 lockable wheels, Ø 100 mm
- Both ends can dock onto machine, tables, sluices or conveyors.
- Docking height 850, -100, + 150 mm
- H 1050, W 740, D 930 mm
- With removable drip tray
H 70, W 603, D 866 mm

Mat. no. 7397640

Art. no. 69.2001.11

AquaSoft System



PG 8597 AquaSoft system, Twin-tank water softener

- For continuous delivery of softened water, max. 40°dH
- H 570, W 360, D 360 mm
- Weight (excl. salt) approx. 30 kg
- Freestanding unit on castors. Filled from top.
- Plastic casing
- Capacity: 19 l/min (constant), max. delivery 30 l/min
- Demand-controlled twin-tank system
- Does not require connection to power supply
- Equipped with 2 x 4.5 l resin-filled canisters and 1 container for 20 kg of salt
- Water connection
 - 2 pressure hoses, approx. 1.5 m, 3/4" threaded union
 - 1 x cold or hot water, max. 70°C
 - Min. 1 bar intake flow pressure to system, max. static pressure 8 bar
 - 2.5 bar minimum flow pressure on machines without water softener
 - 3.5 bar min. flow pressure on machines with softener
 - 1 x connection from system to machine
 - 2 drain hoses, approx. 1.5 m (DN 8 for reactivation water and overflow, odour trap and non-return valve to be provided on site)
- Water consumption 19 l/reactivation cycle

Laboratory process documentation options



Process documentation principles

Proof that a validated process can be replicated with each cycle is best achieved by recording and documenting the most important programme parameters on a continuous basis.

Effective process documentation system requirements

- Complete system with high level of process security, including pre-installed and configurable software
- Tamper-proof
- Simple operation without knowledge of PCs
- Extremely simple installation
- Process visualisation
- Batch-related documentation
- Load detection
- Documented load approval
- Long-term archiving

System components

- NetBox with keypad and mouse plus cables for connection to washer-disinfector

Optional:

- Flat screen for process visualisation and load data capture
- Barcode scanner (with connection lead or wireless using Bluetooth technology) to simplify machine operation and load data capture
- RFID transponder as alternative to barcode system
- Network cable if access via network

Load assignment, data backup and archiving

Protocols generated using NetBox:

Safe and convenient

The NetBox is a complete documentation system including pre-configured software. The system is connected via an interface to the washer-disinfector. The NetBox collects all relevant process data during washing and disinfection programmes. In standard mode, the unit harvests data fully automatically without any involvement on the part of the user. This means maximum operating safety as the NetBox provides considerable protection against operating errors. Once collated, process data remains in memory; the NetBox has the capacity to save up to 1000 batch protocols. Later, data can be saved to a network or a storage device.

In network mode, the unit can be monitored and operated via a PC interface. A flat-screen monitor is also available as an optional extra to plot time/temperature curves. This also helps visualise the data contained in the wash protocol. A further optional extra is a barcode scanner or RFID transponder to facilitate the fast and simple identification of loads. The user can also approve or lock batches, depending on process cycles.

When data transfer is activated, process data is collected from all washer-disinfectors and assigned to cycle nos. These protocols may contain, for instance, the following parameters, depending on the machine:

- Cycle no., date and Mach. no.
- Programme name
- Time of programme start and finish as well as times of individual programme blocks
- Dispenser pump (no.), concentration, temperature and time
- Target temperature reached
- Assessment of disinfection temperature and contact time
- All faults (e.g. water inlet fault)
- Interventions
(e.g. programme abort, mains failure)

On washer-disinfectors with Profitronic controls, the intervals at which temperature and times are plotted and added to the protocol are user-definable, e.g. every 5 secs.

Barcode tag clipped to inserts



Protocol management

At the end of each cycle, a protocol is automatically saved to the protocol bank. From here, all protocols can be called up using search tags, e.g. cycle no., machine no., user, etc. Data records are protected and cannot be changed. Each person with access to the process documentation programme is registered in the master data as an authorised user. It is also possible to assign user IDs to individuals. Access codes also define the level of access granted to individual persons on the system.

Scanning barcode



Evaluations

The NetBox offers an integrated method of generating machine-related statistics from all programmes cycles. Furthermore, saved data can be made available to other software in order to perform further evaluations.

A key benefit of the NetBox compared to a PC system is operational safety. Further benefits of NetBox process documentation include space-saving installation, ventilator-free operation and low operating costs.

Scan of personnel barcode after cycle approval



The process documentation software is optionally available as a software-only solution for installation on a Windows PC.

Service in highest Miele quality - guaranteed!



Comprehensive service package from one single source

Miele Sales and Service offers all services from one single source - in proverbial Miele quality.

Miele experts will assist from the outset in selecting the most suitable system. After installation and commissioning by well-trained Miele technicians, clients have access to a comprehensive range of services:

- Qualification of cleaning systems: Miele offers a tailored 'Installation Qualification and Operation Qualification' (IQ/OQ) package. Further details on Miele's IQ/OQ offer can be found on Page 47.
- High-quality service with short response times and blanket service coverage is provided by specialised service engineers (e.g. over 150 technicians in Germany alone)
- 90% of service calls result in first-time fixes
- Reliable spares service: Key genuine spares available for 15 years after discontinuation of series production
- Individual service contracts: Miele's inspection and maintenance contracts

ensure that Miele machines are inspected at regular intervals by specially trained Miele after-sales service engineers. This avoids costly downtimes and outages. Taking individual requirements into consideration, various service options such as inspection and maintenance contracts are available, through to full-service maintenance contracts including all repair costs, allowing excellent forward visibility.

Exclusive to
MIELE

It is not without reason that Miele's after-sales service operation has been acclaimed for many years in succession for its excellence (in an annual survey performed by ServiceBarometer AG, Munich).



Miele Remote Service

- an investment in a safe future. The Remote Service Assistant, or RSA module, developed by Miele, allows service engineers to establish remote contact with Miele washer-disinfectors in the field to diagnose faults and decide on the necessary remedial action needed. This technology can be relied on both to install updates and to perform trouble-shooting.

Remote  Service

Miele Service Package: Qualification of cleaning systems

In the pharmaceutical, food-processing and cosmetics industries, all cleaning systems used in production, quality assurance and R&D must be 'qualified'.

Design Qualification (DQ), Installation Qualification (IQ), Operation Qualification (OQ), Performance Qualification (PQ) and, in some cases, process validation. In all cases, responsibility for implementing the necessary measures lies with the equipment operator. Miele's in-house after-sales service operation, though, can provide support by assuming some of the duties incumbent on the operator. Miele's tailored service package covers Installation and Operation Qualification (IQ/OQ).

Implementation of 'Installation and Operation Qualification'

Before IQ/OQ can be performed by Miele's in-house service engineers the necessary documentation must be compiled, checked and approved by the operator for use during the inspection. Miele service technicians will then perform qualification on the basis of this documentation. All the necessary calibrated and certified test apparatus is provided by Miele.

Training of Miele service engineers

Miele's own service engineers are given training covering all aspects of machine technology (installation, programming, repair and maintenance) in regular refresher courses. This is complemented by specialised training on the qualification of Miele cleaning systems used in industrial and laboratory operations. Theory and practice are not confined to washer-disinfectors either: they also cover all peripheral units likely to be encountered in industrial applications (for example Miele's Aqua Purificator to produce demineralised water, dispensing systems and accessories such as mobile injector units and inserts).

Installation Qualification (IQ)

The objective of Installation Qualification is to verify that the cleaning system and its installation comply with the operator's and manufacturer's requirements. Compliance of shipment with original order, unit configuration and condition, installation and connection to on-site utilities and the calibration of certain measuring systems.

Operation Qualification (OQ)

The objective of Operation Qualification is to furnish proof that the cleaning system meets the requirements of the operator and equipment manufacturer when installed and connected. Operation Qualification documentation, inspections and evaluations cover functions with a relevance to safety and operation, process-related messages and warnings, and programme design.

Training of operatives and the documentation of such measures is also carried out during Operation Qualification. This constitutes a comprehensive package comprising IQ/OQ paperwork, the services of highly skilled and qualified service engineers and the use of calibrated, certified test apparatus.

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