

**Press Release  
No. 049/2018**

Undercounter models save on water and electricity

## **Powerful, safe, flexible: Miele lab washers with intelligent wash system**

**Gütersloh/Munich, April 10, 2018. – The new lab washers from Miele Professional are more powerful than ever before – and require less water, electricity and process chemicals. This is the result of a new and intelligent water circulation system which adjusts the spray pressure in each individual programme phase to specific requirements. The undercounter models also feature a modular load carrier system to accommodate laboratory glassware of all shapes and sizes. This ensures the ultimate in reprocessing flexibility.**

This series comprises 60 cm wide units (PG 8583 and PG 8593) and a 90 cm model (PG 8583 CD). All models feature an innovative water circulation system which combines higher capacity with the reduced use of resources. Compared with the previous generation, this allows almost 400% more flasks and bottles (with a volume of between 50 ml and 100 ml) to be washed and disinfected per cycle.

A variable-speed circulation pump adjusts water pressure to the needs of the various programme phases. This saves both water and electricity – and reduces consumption, depending on the programme and specific requirements, by up to 45% compared with the previous series. All the heating elements are integrated into the circulation pump and hence cannot be responsible for any build-up of soil inside the chamber. In combination with the smooth, laser-welded chamber joints, this sets standards in terms of hygiene. Furthermore, the new pump heats up the water in circulation faster, thereby contributing towards shorter cycles.

The introduction of both water and drying air into load carriers has also undergone improvements. Both water and air is now taken into the chamber via the rear panel. This more horizontal path involves lower water losses on the way to the spray arms and enhances the efficient use of resources. Any valves not used by docked baskets are sealed automatically in order to avoid any unnecessary drop in pressure in the remaining system and to reduce water consumption. Automatic spray arm monitoring and spray pressure monitoring guarantees proper reprocessing and issues an early warning if readings are out-of-range.

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When it comes to drying laboratory glassware, this generation of machines combines efficiency with user convenience. After the last rinse cycle, steam is drawn into the steam condenser at the rear of the unit where it condenses back to water. On models with the EcoDry feature (PG 8583 and PG 8583 CD), the machine door automatically opens at the end of a programme once the temperature in the cabinet has dropped below 70°C. This allows remaining hot, moisture-laden air to escape within a short space of time. The load dries reliably and cools down fast.

On models with active DryPlus drying, moisture remaining in the cabinet is absorbed by the heated drying air and expelled to atmosphere via the steam condenser. A highly efficient HEPA particulate filter ensures that air taken in for drying is particle-free, preventing any recontamination of the load.

On all models, the door is automatically drawn closed by the new AutoClose function: All that is required on the part of the user is to simply lean the door to. Additional convenience and excellent ergonomics is offered by the new and patented salt container which has now been relocated from inside the chamber to the door. Replenishing salt is now extremely simple and easy on the back and can even be performed with the machine loaded, without having to remove the lower basket for access.

The 90 cm wide lab washers feature an easy-to-operate pull-out side cabinet offering space for process chemicals: either two 10 l canisters or three 5 l canisters containing liquid detergent or neutralising agent. A drip tray liner provides a secure stand, is easy to clean and captures any chemical spillage in the event of containers leaking.

The new, high-end control panel on all models also doubles up as a door handle, for a perfect fusion of design and function. Touch-on-steel technology makes for exceedingly simple operation and ease of cleaning. A quick tap on the screen is sufficient to select and launch programmes. The display in the centre of the control panel provides information on programme selection – in the user's own language. The three most frequently used programmes can be saved as favourites and launched at the tap of a fingertip using the quick selection button.

An entirely new system of baskets and inserts is available for use on all models. Depending on individual needs, a handful of modules can be combined simply and intuitively to give an amazing range of combinations. In order to facilitate the complete documentation of process data, lab washers can be hooked up to a laboratory network. Alternatively, a printer can also be connected to these models for the documentation of data.

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Cycle documentation using an app called DataDiary designed to run on the Android operating system (available for iOS from May 2018) saves time in recording cycles: This system gathers cycle data automatically from lab washers and enables the creation of cycle protocols using a tablet PC – without the need for cables, USB flash memory cards or other intermediate steps.

(837 words, 5,154 characters incl. spaces)

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**Company profile:** Miele is the world's leading manufacturer of premium domestic appliances including cooking, baking and steam-cooking appliances, refrigeration products, coffee makers, dishwashers and laundry and floor care products. This line-up is augmented by dishwashers, washer-extractors and tumble dryers for commercial use as well as washer-disinfectors and sterilisers for use in medical and laboratory applications (Business Unit Professional). The Miele company, founded in 1899, has eight production plants in Germany as well as one plant each in Austria, the Czech Republic, China and Romania. 2016/17 turnover amounted to approx. EUR 3.93 bn with sales outside Germany accounting for 70%. Miele is represented with its own sales subsidiaries and via importers in almost 100 countries. The Miele company, now in the fourth generation of family ownership, employs a workforce of around 19,500, 10,900 thereof in Germany. The company headquarters are located in Gütersloh/Westphalia, Germany.

**There are four photographs with this text**

**Photo 1:** Easy to operate: The Miele lab washer allows fast access to the three most frequently used programmes – thanks to short-cut buttons. The display provides information on programme parameters in the selected language. (Photo: Miele)

**Photo 2:** Hygienically clean cabinet designed to prevent any deposits of soil: This is, among others, achieved through smooth, laser-welded cabinet surfaces and a new pump which also houses the heater elements. (Photo: Miele)

**Photo 3:** A wide range of load carriers and baskets is available for the reprocessing of a variety of laboratory glassware items. (Photo: Miele)

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**Photo 4:** Ample space for laboratory glassware and process chemicals is offered by the Miele machine with the designation PG 8583 CD, a 90 cm wide unit for built-in installation. (Photo: Miele)

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