

Press release
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Miele barrier washing machines and increased safety for fire brigades

- ▶ Reprocessing of full gear – from protective suits to helmets
- ▶ Two-door barrier machines for segregation of processes at fire stations

Gütersloh/Dresden, October 9, 2025 – Hazardous substances to which fire-fighters are exposed via their protective clothing can seriously affect health. These include smoke and asbestos, which is provably carcinogenic, as well as toxic chemical residues. It is not always known what caused the contamination. Help is now at hand in the form of barrier washing machines with two doors, allowing loading and unloading in separate rooms and preventing any redeposition of soil on textiles. Miele now offers three models in different sizes – particularly designed to rise to the challenges of fire brigades and rescue services.

Depending on the size of the drum, these machines with load capacities of 16 kg, 24 kg and 32 kg are able to reprocess three to six complete protective suits per cycle. Miele special-purpose programmes wash and then reproof, but, if required, washing and reproofing cycles can be run separately. Reproofing agent is then activated in a dryer. Additional programmes cater for breathing masks, chemical protection suits, rescue wear, helmets, fire-proof gloves and safety belts. Padded bags protect masks and helmets from damage.

Inside the machines, which have proven their worth over decades in nursing homes, two interlocking doors are the key to separating the dirty from the clean. Wash programmes are shown in a large display on the infeed side of the laundry or breathing apparatus workshop. Once a programme is complete, the drum hatch aligns with the outfeed side thanks to the autopositioning mechanism and is securely locked in place. Hence, there is no need to turn the drum by hand. On the outfeed side, the clean side of the operation, a display shows the machine's operating status. Here, protective clothing is unloaded before being transferred to the dryer or a drying cabinet. According to the relevant standard governing the planning of fire brigade premises, these too must be located on the clean side.

Like all Miele washing machines, barrier models also feature Miele's patented honeycomb drum. Thanks to their structured surface design and their hexagonal pattern, this creates a film of water on which textiles gently glide. This, in turn, protects the delicate retroreflective strips on functional workwear.

These washing machines offer more than just hygienic and gentle fire brigade programmes. They also feature many ways of reducing consumption. The weight of the laundry load can, for example, be entered manually prior to starting a programme to optimise water, energy and detergent consumption.

Despite their different dimensions, all three barrier machines fit through standard doors thanks to their width of only 87 cm. These machines are designed for the use of a pallet truck and can easily be manoeuvred into a wall separating the infeed and outfeed sides.

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About Miele: For more than 125 years, Miele has lived up to its brand promise of “Immer Besser” in terms of quality, innovation and timeless elegance. Founded in 1899, the globally active company for premium domestic appliances inspires customers with pioneering solutions for the connected home. In addition, Miele offers appliances, systems and services for commercial use, such as in hotels or care facilities as well as in medical technology. With its durable and energy-saving appliances, Miele helps its customers make their daily lives as sustainable as possible. The company is owned by the two founding families, Miele and Zinkann. In the 2024 business year, Miele generated a turnover of 5.04 billion Euros with approximately 23,500 employees. Its global network comprises 19 production plants and around 50 service and sales subsidiaries (as of February 2025). The company has its headquarters in Gütersloh, North Rhine-Westphalia.

There is one photograph with this text



Photo 1: Washing machines with two doors reprocess firefighting protective suits. The two separated sides prevent any redeposition of soil on cleaned textiles. (Photo: Miele)

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