

1. Devices and Full Face Masks

The following MSA full face masks from MSA Europe GmbH, Rapperswil-Jona (CH), can be cleaned and disinfected in TopClean M from MEIKO, Offenburg (DE), or a washing machine type PW 6131 EL from manufacturer Miele, with the detergent Sekumatic® FDR from Ecolab Deutschland GmbH, Monheim (DE), and EW80 mat from EW 80 Systeme GmbH, Dortmund (DE).

Full face masks from series	Full face mask, model	Full face masks for mask/helmet combinations from series
▪ 3S	▪ 3S Basis	▪ MSA-H/F1 negative pressure
▪ 3S PF	▪ 3S Basis with speech diaphragm	▪ MSA-H/F1 positive pressure
▪ 3S PS	▪ 3S Basis Plus	▪ MSA-H/HPS negative pressure
▪ 3S PS MaXX		▪ MSA-H/HPS positive pressure
▪ 3S PF ESA		▪ MSA-H/Supra negative pressure
▪ Ultra Elite PF		▪ MSA-H/Supra positive pressure
▪ Ultra Elite PS		▪ MSA 3S-H/Heros xtreme negative pressure
▪ Ultra Elite PS MaXX		▪ MSA 3S-H/Heros xtreme positive pressure
▪ Ultra Elite PF ESA		▪ MSA Ultra Elite-H/Heros xtreme negative pressure
▪ Advantage 3100		▪ MSA Ultra Elite-H/Heros xtreme positive pressure
▪ G1 ¹	▪ PremAire Mask-Hood	▪ MSA-H/F1 2008 negative pressure
	▪ PremAire Mask-Hood-PS-MaXX	▪ MSA-H/F1 2008 positive pressure
		▪ G1-H ¹
	Mask-Hoods²	

¹ Observe the special information with regard to machine cleaning and disinfection in the operating manual of the G1 full face mask especially regarding lenses!

² Mask-Hoods only washable in the Miele Washing machine. They are not released for MEIKO.



WARNING

- Follow the instructions in the operating manual and safety data sheet for the cleaning and disinfection detergent used.
- Follow the correct adjustment of the dosage systems according to the chemistry manufacturer.
- Follow the instructions in the Miele and MEIKO washing machine operating manual.
- Follow the instructions in the operating manual of the full face mask.

2. Important Information for Cleaning and Disinfecting with Miele PW 6131 EL

Preparation

Disassembly of all valve disks and the nose cup. The inhalation valve disk has to be separated from the gasket.

Note:

For heavily soiled masks as well as masks used in incidents, the speech diaphragm must be disassembled and if necessary a pre-cleaning must be carried out.

1. Loading

Place the disassembled masks in the protective bag for washing and close the protective bag.

Place the respective small components into a separate container (e.g. additional bag) or wash it separately.

Place masks loosely in the washing drum, do not squeeze (max. 12 masks per load).

2. Concentration/Duration	According to the requirements of the detergent manufacturer the detergent will be automatically dosed: 1% solution with Sekumatic® FDR: Application time 5 minutes at 60 °C for every cleaning and disinfecting stage of the washing program in Miele PW 6131 EL. or 1% solution with EW80 mat: Application time 5 minutes at 60 °C for every cleaning and disinfecting stage of the washing program in Miele PW 6131 EL. The dosage is carried out automatically through a dosing station (optional accessory) into the machine in exactly the required amount (as a liquid).
3. Washing program	Miele special washing program for facepieces: 1. Pre-cleaning at 50 °C for 5 minutes without addition of detergent 2. Pre-cleaning cold for 3 minutes without addition of detergent 3. Cleaning and disinfection at 60 °C for 5 minutes with 1% addition of detergent 4. Purging cold for 1 minute 5. Purging cold for 1 minute 6. Purging cold for 1 minute 7. Purging cold for 1 minute
4. Removal	Open the chamber door once the washing program is finished. Take out the mask bag, remove the mask and shake water residues out of the masks after removal. Close door of the chamber.
5. Drying	Dry masks at max. 50 °C.
6. Post-treatment	If applicable remove detergent residues.
7. Notes	<ul style="list-style-type: none">▪ Follow the instructions in the operating manual and safety data sheets for the cleaning and disinfection detergent:<ul style="list-style-type: none">- Sekumatic® FDR- EW80 mat▪ Follow the correct adjustment of the dosage systems according to the detergent manufacturer.▪ Follow the instructions in the washing machine Miele PW 6131 EL operating manual.▪ Follow the instructions in the operating manual of the full face mask.▪ Perform a functional check, visual check and leak test on each mask after reassembly.▪ Check mask and components, especially the valves and valve seats for detergent residue and if necessary, rework affected parts.▪ After each cleaning and disinfection, the full face mask and its components must be checked for material changes. If necessary, affected parts have to be replaced.

3. Important Information for Cleaning and Disinfecting with MEIKO TopClean M

Preparation	Disassembly of all valve disks and the nose cup. The inhalation valve disk has to be separated from the gasket. Note: For heavily soiled masks as well as masks used in incidents, the speech diaphragm must be disassembled and if necessary a pre-cleaning must be carried out.
1. Loading	Place the disassembled masks with the respective small components into the intended mask cages according to the operating manual of the machine. Place the mask bodies on the cage extension, harness turned to the outside and mask body with the exhalation valve showing downward onto the mounting fixture. Insert cage into the machine and close door. Program can be started.
2. Concentration/Duration	According to the requirements of the detergent manufacturer the detergent will be automatically dosed: 1% solution with Sekumatic® FDR: Application time 5 minutes at 60 °C for every cleaning and disinfecting stage of the washing program in MEIKO TopClean M. or 1% solution with EW80 mat: Application time 5 minutes at 60 °C for every cleaning and disinfecting stage of the washing program in MEIKO TopClean M. The dosage is carried out automatically and monitored. The TopClean M generates an error message as soon as a shortage of the disinfection detergent occurs. As long as the empty disinfection detergent container has not been replaced by a new filled one, no washing program can be started.
3. Washing program	The cleaning and disinfection of masks is carried out in the washing program with 3 to 12 minutes running time at 60 °C: Cleaning and Disinfection: According to the requirements of the detergent manufacturer required minimum contact time of the chemistry at 60 °C, to achieve the defined operating spectrum (300 sec.). The extension of the cleaning time for heavily soiled masks (355 sec.). The temperature in the washing liquor is automatically monitored. If the required 60 °C are not given for a minimum of 300 seconds, the machine extends the treatment process automatically. This way the necessary disinfection result will be ensured. The machine will be automatically moved into an operational condition before the next program starts (filling and heating): duration approximately 8 minutes. Drip Off: The cleaning and disinfection detergent which is on the masks can partially drip off into the reservoir (5 sec.). Pump Down: The complete washing liquor (11 l) is pumped down (50 sec.). Rinsing: The masks will be rinsed with 4.2 l at 60 °C, so the remaining cleaning and disinfection chemistry will be flushed down (approximately 10 sec.). The wetting agent Etolit GT 500 will be automatically dosed into the rinsing cycle with the concentration of 0.25 ml/l. During the program process the machine chamber door is locked.
4. Removal	Open the chamber door once the washing program is finished. Take out the mask cage, put it aside and shake water residues out of the masks after removal. Close door of the chamber.
5. Drying	Dry masks at max. 50 °C.

6. Post-treatment	If applicable remove detergent residues.
7. Notes	<ul style="list-style-type: none">▪ Follow the instructions in the operating manual and safety data sheets for the cleaning and disinfection detergent:<ul style="list-style-type: none">- Sekumatic® FDR- EW80 mat▪ Follow the correct adjustment of the dosage systems according to the detergent manufacturer.▪ Follow the instructions in the washing machine MEIKO TopClean M operating manual.▪ Follow the instructions in the operating manual of the full face mask.▪ Perform a functional check, visual check and leak test on each mask after reassembly.▪ Check mask and components, especially the valves and valve seats for detergent residue and if necessary rework affected parts.▪ After each cleaning and disinfection, the full face mask and its components must be checked for material changes. If necessary, affected parts have to be replaced.