

Stand-alone Cleaning Device, DC-EM-201

ADVANTAGES

- automated cleaning process
- low personal expenses
- reproducible results
- avoidance of operator's mistakes
- operator-independent results
- Touch Screen



Cleaning Device

The Stand-alone Cleaning Device DC-EM-201... allows automatic cleaning of Microdrop dispenser heads (MD-K-series) outside the production environment. The new cleaning device is used for cleaning contaminated dispenser heads and for priming the dispenser heads, i.e. to restore pristine condition.

The contaminated dispenser head is clamped into the cleaning unit and connected electrically. The system is set up to handle all usual configurations of the dispenser head. A microprocessor controlled cleaning program includes several rinsing and drying cycles and can be adjusted according to the actual situation (liquid, requirements etc.). The number of cleaning cycles, duration of rinsing and drying procedures and the sequence of processes can be selected. If needed, cleaning can be supported by activating the piezo of the dosing head.

The cleaning device automatically executes the complete cleaning program from rinsing cycle to the drying process. Finally, the cleaned dispensing head can be re-assembled into the production line.



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TECHNICAL DATA

Cleaning unit DC-EM-201...	
Permitted dispenser heads for cleaning	MD-K-... with 4 ml storage container
Minimal dispenser nozzle	30 µm
Permitted dispensed liquids	dispensable liquids: filtered with a 5 µm filter, homogeneous and non-sedimenting, solvable in water, acetone or isopropanol
Number of cleaning liquids	two (maximum)
Permitted cleaning liquid	distilled water - filtered with a 5 µm filter, acetone - analytical grade or filtered with a 5 µm filter or isopropanol - analytical grade or filtered with a 5 µm filter
Duration of cleaning	Cleaning time: 10 ... 40 minutes Drying time: 30 minutes In total: 40 ... 70 minutes Time for 1 self-cleaning cycle: 5 minutes
Materials to be in contact with liquids	PFA, PEEK, EPDM, ETFE, Kalrez
Chemical resistance:	all aqueous media, organic solvents, weak acids and alkaline
Dimensions	w: 250 mm h: 390 mm d: 370 mm
Weight	8 kg
Operating modes	<ul style="list-style-type: none"> • cleaning of MD-K-... dispenser heads • self-cleaning of the DC-M-201
Displays	<ul style="list-style-type: none"> • touch screen with 3,8'' monochrome LCD • 8 shade of red and amber, 320 x 240 pixel • level detector control signalised by LEDs
Connections	<ul style="list-style-type: none"> • mains plug connection (side) • service USB interface (side) • output pressure air supply (max. 1 bar) (front) • 4-pole connector for dispenser head (front) • 6-pole connector for dispenser head (front) • 9-pin-D-sub connector for dispenser head (front)
Ambient temperature	0°C - 50°C
Relative air humidity	10% - 80%
Output signal piezo	200 V / 30 µs / 3 kHz

04/2016-e subject to change without prior notice