

EDM SERIES EXTERIOR GLASSWARE WASHERS



STERILINE'S EDM SERIES , EXTERIOR GLASSWARE WASHERS are designed to decontaminate and clean vials at up to **48,000 pcs/h.** EDM Series surface decontamination and cleaning solutions include Softened, DI, Purified water, WFI, detergent and detergent mixtures. Compressed air (or nitrogen) is used to dry the cleaned glassware.

THE ADVANTAGES OF THE STERILINE EXTERIOR WASHER INCLUDE:

- **High washing efficiency**
- **Highly effective drying**
- **Protection of the seals**
- **Flexible transport system**
- **Short and reliable changeover time**
- **Longer processing time**

ST EDM 10 17



AWS BIO-PHARMA TECHNOLOGIES

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Star-wheels drive the glassware through the various washing and drying stations. The star-wheel's side guides are made of silicone and are self-adjustable. Thus the guides may be adjusted according to the different glassware diameters, in order to create friction causing the glassware to rotate. The diameters of the vial carrier pockets of the starwheels are cut to fit specific glassware diameter ranges. The washing fluid spraying nozzles are specifically designed and contoured to avoid process fluid introduction at sea level. The compressed air blowing nozzles remove the residual washing fluids from the outer glassware surfaces. Changeover parts consist only of star wheels, infeed and outfeed guides. Nozzles are adjustable.

The decontaminating machine has a conveyor belt that is loaded by trays or by the upstream machine's conveyor. The conveyor belt feeds the glassware to the washing star-wheel that has hollows suitable for the diameter of the glassware.

The washing star-wheel transports the glassware through the washing stations. There can be up to three various types of fluids used to wash the vials. The drying starwheel transports the glassware through the drying station. Thorough drying is achieved by special nozzles that blow compressed air onto the vials. At the end of the drying star-wheel the vials are unloaded onto trays. The machine can also be connected in-line to a downstream machine (such as a labeling machine or tray-loader). Accident prevention hood as well as negative pressure RABS* are also available.

Our integrated control system, including PLC and HMI, automatically controls all the process and functional parameters of the machine, according to various glassware sizes and types. Parameters are stored in different recipes, protected by password, accessible only by supervisor and authorized personnel. **All decontaminating machines are built in compliance with cGMP, GAMP and 21CFR Part11 requirements.**

EDM SERIES EXTERIOR GLASSWARE PERFORMANCE DATA

MODEL	DIMENSIONS [LxWxH]	OUTPUT [pcs/min]				WASHING FLUIDS CONSUMPTION [l/h]	COMPRESSED AIR CONSUMPTION [Nm³/h]
		2-4R	6-15R	20-30H	50-100H		
EDMC	850x700x2700	100	60	30	10-20	150	30
EDM1	1350x1250x2700	400	200	150	80	200	60
EDM2	1700x1450x2700	800	300-400	250	160	400	80
EDM3	1560x2190x2100	800	300-400	250	160	800	100

All Steriline systems are designed and manufactured and in accordance with cGMP regulations and CFR21/PART11 compliance, are completely validatable, and suitable for use in FDA and EMA regulated facilities.



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