

WFHSS Guideline No. 01

Checks / tests needed for the automated equipment used for cleaning, disinfection and sterilization after maintenance tasks / repairs carried out by (service) engineers

This guideline has been compiled after several (serious) defects have been detected in the course of routine checks or revalidation of washer-disinfectors (WDs) (as well as in WDs for flexible endoscope) and sterilizers.

The following table lists the checks / tests to be carried out by the (service) engineer following repairs and maintenance tasks and, if applicable, required information to the specialist in charge (e.g. infection control doctor).

Documentation on maintenance tasks / repairs and on the subsequent checks / tests must be forwarded to the management of the Reprocessing Units for Medical Devices (RUMEDs).

Compiled by the Testing Committee of the Austrian Society for Sterile Supply and finalized by the Education/Guideline Working Group of the WFHSS.

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WDs (including WDs for flexible endoscopes)

Maintenance / repairs	Documented checks / tests by (service) engineer before release of the equipment	Information to and decision about further measures by the specialist in charge
Routine maintenance	Temperature measurement for at least one (blank) cycle	
Changes to cycles program	Temperature measurement for at least one (blank) cycle using the modified program	X
Interventions in the dosing system (adjustment / replacement of dosing pumps, etc.)	Applicable check of dosage (e.g. volumetric, gravimetric, conductivity)	
Changes of detergent or disinfectant and /or their set points	Applicable check of dosage (e.g. volumetric, gravimetric, conductivity) Check of fault signalling system	X
Replacement of circulation pumps	Technical functional test, check for correct direction of rotation	X
Modification / adjustment / replacement of instrument parts (temperature and, if applicable, pressure sensors, etc.)	Temperature / if applicable pressure measurement for at least one (blank) cycle Calibration protocol	
Modification / adjustment / replacement of loading racks	If relevant pressure measurement for at least one (blank) cycle	X
Replacement / repair of water-softening unit	Check of water hardness	
Software update	Temperature / if applicable pressure measurement for at least one (blank) cycle Program printout for all programs	
Only endoscope WDs for all tasks outlined above	<u>Additionally</u> , cycle with batch control system containing a cleaning indicator Acceptance criterion: no visible residues of the test soil	

Steam Sterilizers

Maintenance / repairs	Documented checks / tests by (service) engineer before release of the equipment	Information to and decision about further measures by the specialist in charge
Routine maintenance	Leak test, B&D test	
Changes to program cycles (conditioning, sterilization phase)	Temperature / pressure measurement for at least one (blank) cycle	X
Modification / replacement of vacuum pump (-system)	Leak test, Temperature / pressure measurement in test loads critical for air removal (e.g. test pack acc. EN 285) or measurement with electronic B&D test system	X
Modification / adjustment / replacement of instrument parts (temperature and, if applicable, pressure sensors, etc.)	Temperature / pressure measurement for at least one (blank) cycle Calibration protocol	
Changes to feed water supply	Check of conductivity	
Modification / repair of steam supply system	Temperature / pressure measurement (empty chamber with alternative B&D pack) or measurement with electronic B&D test system	X
Replacement of door gaskets	Leak test, B&D test	

For low temperature sterilizers appropriate tests have to be carried out!