Cleaning and disinfection plan

ATMOS C 21 | ATMOS C 31

Pre-cleaning:
All articles with cavities should always be rinsed with water for at least 10 seconds. Remove any coarse soiling with a soft brush.

Wipe cleaning/disinfection procedure:
All surfaces must be wiped with a clean (disposable) cloth moistened with disinfectant; moisten evenly, do not dry afterwards.

Immersion disinfection procedure:
Rinse the accessories first with water for at least 10 seconds and remove any coarse soiling with a soft brush. Do not forget the cavities. For immersion disinfection, the accessories must be completely immersed in the disinfectant solution. Rinse the accessories with demineralized water after the contact time has elapsed. Dry the accessories before the next use.

Automated cleaning and disinfection
Automated cleaning and disinfection in the washer-disinfector is to be preferred. The following parameters for automated cleaning and disinfection have been validated (in the Miele PG8535 / Miele G7882 washer-disinfector):
- Fastening the accessories to a suitable load carrier
- Cleaning and disinfection with a suitable program
- Pre-rinse: 1 min with cold water
- Cleaning: 5 min, 55 °C / 131 °F with neodisher® MediClean forte (Dr. Weigert)
- Neutralization: 2 min with cold water
- Intermediate rinse: 1 min with softened, cold water
- Disinfection: 5 min, 93 °C / 199 °F with demineralized water
- Drying: 12 min, 110 °C / 230 °F
- Washer-disinfector: in accordance with EN ISO 15883-1
- Program: Vario TD

Sterilization:
Sterilize the accessories using a suitable procedure:
- Validated method: steam sterilization / autoclaving
- Sterilizer: in accordance with EN 285 / SYSTEC V-150 and SYSTEC HX-320
- Pre-fractionated vacuum: 3x
- Temperature: 134 °C / 273 °F
- Time: 5 min
- Drying: 10 min

Please follow the manufacturer's operating instructions!

REF	What	How			When				Notes
	Parts to be reprocessed	Manual cleaning & disinfection	Automated cleaning & disinfection (washer-disinfector)	Sterilization	After each procedure	Daily	Weekly	Monthly	
	[1] Recommended surface disinfection | [2] Recommended instrument disinfection | [3] Recommended endoscope disinfection								
	Secretion canister								
443.0252.0	Bacterial filter housing	X[2]	X[2]			X			Replace if there are any signs of aging such as cracks in the material.
320.0012.0	Bacterial filter cover	X[2]	X[2]			X			Replace if there are any signs of aging such as cracks in the material.
340.0054.0	DDS bacterial filter								Disposable product. Exchange daily or when blocked.
320.0011.0	Secretion canister lid	X[2]	X[2]			X			Replace if there are any signs of aging such as cracks in the material.
320.0016.0	Sealing ring for filter	X[2]	X[2]			X			Replace as soon as it is porous or has cracks.
320.0010.0	Overflow protection sleeve	X[2]	X[2]			X			Replace if there are any signs of aging such as cracks in the material.
320.0015.0	Float	X[2]	X[2]			X			Replace as soon as it is porous or has cracks.
000.0544.0	Secretion canister	X[2]	X[2]			X			Empty the canister when it is full; at least once a day (50 sterilization cycles).
*	Disposable canister								Exchange/dispose of the canister when it is full.
	Hose rinsing system								
506.2228.1	Hose-rinsing attachment	X[1]			X				Replace if there are any signs of aging such as cracks in the material.
	Silicone attachment piece	X[2]	X[2]		X				Replace the silicone attachment once a week; rinse using the hose rinsing system. Material is dimensionally stable at 134 °C.
506.7621.0	Plug-in suction nipple	X[2]	X[2]		X				Rinse using the hose rinsing system (manual cleaning after each application). Service life: 60 reprocessing cycles. Material is dimensionally stable at 134 °C.
006.0025.0	Hose, diameter 8 x 12 mm	X			X				Rinse out the suction hose using the hose rinsing system.
			X[2]				X		Exchange or disinfect the hose weekly, service life: 60 reprocessing cycles. Material is dimensionally stable at 134 °C.
000.0544.0	Secretion canister 1.25 l	X[2]	X[2]			X			Clean with a brush; service life: 50 reprocessing cycles; material is dimensionally stable at 134 °C.
	Ear irrigation								
505.0353.0	Ear irrigation bowl	X[2]	X[2]		X				Replace if damaged or worn.
*	Irrigation handle	X[1]			X				
508.0427.0	Jet connection	X[2]	X[2]		X				Service life: 60 reprocessing cycles Material is dimensionally stable at 134 °C.
501.0331.0	Splash protection	X[2]	X[2]		X				Service life: 100 reprocessing cycles
502.0844.0	Hose tip								Dispose of after each use (disposable article).
508.0452.0	Irrigation bottle cap, complete	X[2]	X[2]			X			Replace if individual parts become detached or there is rust on the coating.
000.0504.0	Irrigation bottle	X[2]	X[2]			X			Replace if the material is damaged. Material is dimensionally stable at 134 °C.
*	Ear irrigation hose system (ATMOS C 31)	X[1]				X			Empty, dry, wipe, and disinfect.
		X					X		Weekly rinsing with Bilpron (REF 510.2049.0)
	Medication sprayer | Politzer								
*	Compressed-air handle	X[1]			X				
505.0280.0	Sprayer nozzle, straight, complete	X[2]			X				
			X[2]			X			Service life: 60 reprocessing cycles. Material is dimensionally stable at 134 °C.

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506.5226.0	Sprayer head, straight, complete	X	X[2]				X		Screw on the sprayer nozzle and pull it off the sprayer head. Rinse the sprayer head several times with water.
506.5228.0	Hose on sprayer head								Exchange the hose weekly or when the medication is changed.
000.0577.0	Glass container 50 ml	X[2]	X[2]				X		Replace if the material is worn. Reprocess weekly or when changing the medication.
000.0241.0 000.0241.1	Politzer olive	X[2]	X[2]		X				Service life: 60 reprocessing cycles Material is dimensionally stable at 134 °C.
505.0284.0	Politzer olive adapter	X[2]	X[2]		X				Service life: 60 reprocessing cycles Material is dimensionally stable at 134 °C.
	Endoscope management								
506.7015.0	Plastic quiver (in the event of alteration or discoloration of the material)	X[2]				X			Clean with a brush, then rinse with water, and finally disinfect (manually). Dispose of if the material becomes discolored.
508.0775.0	Metal quiver	X[2]	X[2]			X			Clean with a brush and then rinse with water. Material is dimensionally stable at 134 °C. Replace if there are signs of aging such as abrasion of the material.
508.0777.5	Protection sleeve	X[2]	X[2]			X			Replace if there are signs of aging such as abrasion of the material.
	Instrument management								
*	ENT instruments	X[2]	X[2]	X	X				Please observe the local hygiene regulations and manufacturer's specifications.
506.7751.0 506.7752.0	Instrument disposal bowl with cover	X[2]				X			Disassemble, clean with a brush, and then disinfect (manually).
	Visualization								
*	ATMOS iQam	X[1]			X				
*	ATMOS Strobo 21 LED	X[1]			X				
*	ATMOS Scope (flexible endoscope)	X[3]	X[3]	X	X				Pre-treat at the place of use; remove any coarse soiling using a cleaning cloth.
*	Rigid endoscope	X[3]	X[3]	X	X				ditto
*	Laryngoscope	X[3]	X[3]	X	X				ditto
*	Fiber optic light cable	X[1]				X			
*	Light handle	X[1]				X			
*	ATMOS i View 21/31 / ATMOS i View PRO	X[1]			X				
	Surfaces								
*	Housing	X[1]				X			
*	Roller cover	X[1]				X			
*	Drawers	X[1]				X			
*	Pull-out desk	X[1]			X				
*	Instrument deposit	X[1]			X				
*	Mirror preheater	X[1]				X			
*	Swab dispenser	X[1]				X			Daily or when refilling.
*	Waste disposal	X[1]				X			Daily or when emptying the canister.
508.0058.2 505.0516.2	Instrument tray	X[1]				X			Daily or when refilling.

Cleaning agent / disinfectant recommendation

[1] Surface disinfection

Coated surfaces:
- Green & Clean SK (ATMOS)
- Dismozon® plus (Bode Chemie)
- Kohrsolin® FF (Bode Chemie)
- perform® (Schülke & Mayr)
- terralin® protect (Schülke & Mayr)

Other surfaces:
- Dismozon® plus (Bode Chemie)
- Kohrsolin® FF (Bode Chemie)
- Mikrobac® forte (Bode Chemie)
- perform® (Schülke & Mayr)
- terralin ® protect (Schülke & Mayr)
- Surface disinfectant FD 312 (Dürr Dental)

Please refer to the manufacturer's instructions for concentrations, contact times, temperature, and material compatibility!

* REF numbers are specified only for the accessories and consumables.
Otherwise, the information can be found in the operating instructions of the respective product.

[2] Instrument disinfection

Manual disinfection of instruments:
- Korsolex® basic (Bode Chemie)
- Korsolex® plus (Bode Chemie)
- Korsolex® extra (Bode Chemie)
- Sekusept® aktiv (Ecolab)
- gigasept® instru AF (Schülke & Mayr)
- gigazyme® (Schülke & Mayr)
- gigasept® FF (new) (Schülke & Mayr GmbH)

Automated disinfection of instruments:
- Dismoclean® twin basic / twin zyme (Bode Chemie)
- neodisher® FA (Dr. Weigert)
- neodisher® MediClean forte (Dr. Weigert)
- thermosept® alka clean forte (Schülke & Mayr)

Wrong disinfectant concentrations may damage the materials!

[3] Endoscope disinfection

Manual disinfection of endoscopes:
- Helipur® H plus N (BBraun)
- Stabimed® ultra (BBraun)
- Korsolex® basic (Bode Chemie)
- neodisher® MediClean forte (Dr. Weigert)
- Sekusept® aktiv (Ecolab)

Automated disinfection of endoscopes:
- Korsolex® basic (Bode Chemie)
- neodisher® MediClean forte (Dr. Weigert)
- gigasept® FF new (Schülke & Mayr)
- Endozime® AW Plus (Ruhof)

ATMOS MedizinTechnik GmbH & Co. KG
Ludwig-Kegel-Str. 16 | 79853 Lenzkirch/Germany
Phone +49 7653 689-0 | Fax +49 7653 689-190
info@atmosmed.com | www.atmosmed.com

This hygiene plan was compiled based on the MDR, the German Medical Devices Operator Ordinance (MPBetreibV), § 18 of the German Infection Protection Act (IfSG), and the recommendations of the Robert Koch Institute (RKI).

The required reprocessing steps were defined on the basis of the recommendation "Hygiene Requirements for the Reprocessing of Medical Devices" from the Robert Koch Institute. The medical devices were categorized into the risk groups non-critical, semi-critical, and critical. The steps specified in this hygiene plan are a recommendation of ATMOS MedizinTechnik. The operator is responsible for carrying out any necessary additional reprocessing steps.

The disinfectants recommended in this hygiene plan are listed disinfectants (VAH/RKI list) and have been tested for their material compatibility with the ATMOS C 21 / ATMOS C 31. ATMOS MedizinTechnik cannot be held liable for any damage to the materials caused by using other non-recommended disinfectants or incorrect concentrations.

Patients with suspected or clinical cases of transmissible spongiform encephalopathy (CJK, vCJK, etc.) must be treated at facilities that have suitable infection prevention measures in place. Reusable instruments and materials should be reprocessed only at facilities with externally certified QM management according to DIN EN ISO 13485.

The Medical Devices Implementation Act (MDPG), IfSG, RKI guidelines, BGR 250, and TRBA 250 must always be considered.

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