

detro[®]scopy

INTEGRATED ENDOSCOPE
WASHING AND DISINFECTION
SOLUTIONS

WASHING AND
DISINFECTION

HYGIENIC DRYING CABINET
AND SAFE STORAGE

TRANSPORT

detrox[®]
Integrated Disinfection Solutions

Endoscope Washing and Disinfection Device





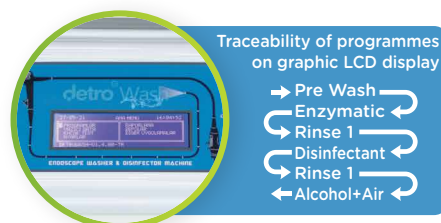
- > Large sink to prevent damage to endoscopes
- > Double scope washing feature (optional)
- > Use of brand-independent disinfectants
- > **Pedal-controlled automatic hatch system for safe washing operation**
- > Hepa filter to clean the drying air
- > **Continuous automatic leak test**
- > **Flow sensors for efficient washing and disinfection**
- > Printer system ensuring process traceability
- > Ethernet system sending transaction information to the hospital system
- > Self disinfection system
- > Advanced reporting system
- > Encryption system for secure user login
- > Precise dosing with enzymatic and alcohol depot-dependent dosing system adjustment
- > Validated by an accredited organisation to EN ISO 15883-1&4 standard.

Disinfection of
domestic water
with U/V System
(Optional)

Single Use
and Reusable
Disinfectants
Usage



TECHNICAL SPECIFICATIONS	
Capacity	1 or 2 flexible endoscopes
Tank Capacities	Ready-to-use Disinfectant Tank: 1 piece 15L
	Waste Tank: 1 piece 2L
	Concentrated Disinfectant Canister: 1 piece 5L
	Enzymatic Canister: 1 piece 5L
	Alcohol Canister 1 piece, 5L
Water Filtration	Air Tank: 1 piece 5L
	5 micron, 1 micron, 0.2 micron
Connections	Single Scope: 3 Channel - Double Scope: 6 Channel
Leakage Test	Pressure Value (min-max): 0,25-0,3 bar
Power	AC 220/230V, 50/60Hz Max. 360W 2A
Dimensions Without Pallet	Width: 690mm Length: 864mm Height: 1112mm
Dimensions With Pallet	Width: 1200mm Length: 800mm Height: 1200mm
Weight	Net: 103 kg - With Pallet: 155 kg
Disinfectants	Detro Plus PAA DW, Detro PAA 2200 / 1500, Detro OPA
Cleaners	Detro Enzym Plus DW



Disinfectant Type to Use	Screen Type	CE Model No	Catalog Code	Single Scope	Double Scope	Standart Hardware	Advanced Hardware
Ready to Use Disinfectant	Graphic Screen	DW-6001	MAKD6001	+		+	
		DW-6002	MAKD6002	+			+
		DW-6003	MAKD6003		+	+	
		DW-6004	MAKD6004		+		+
	Touch Screen	-	-	+		+	
		-	-	+			+
		-	-		+	+	
		-	-		+		+
Concentrate Disinfectant	Graphic Screen	DW-8001	MAKD8001	+		+	
		DW-8002	MAKD8002	+			+
		DW-8003	MAKD8003		+	+	
		DW-8004	MAKD8004		+		+
	Touch Screen	-	-	+		+	
		-	-	+			+
		-	-		+	+	
		-	-		+		+

Standart Hardware	
in CE scope	• Automatic Cover
	• Printer + USB
	• U/V Light + Indicator
	• Air gun
	• Manuel Leakage Test
	• Flow sensor (3 pcs)
Not in CE scope	• Stainless basket
	• Sprinkler

Advanced Hardware	
in CE scope	• Automatic and Full Time Leakage Test
	• Barcode Reader
	• Ethernet/RS232
	• Flow sensor (6-9 pcs)
	• Hepa Filter

Endoscope Washing and Disinfection Device





- > Reusable disinfectants
- > Double scope washing feature (optional)
- > Use of brand-independent disinfectants
- > 12 washing programmes
- > Lid locking system for safe washing
- > Disinfection of domestic water with U/V system (optional)
- > Self disinfection system
- > Validated in accredited organisation according to EN ISO 15883-1&4 standard has been made.

TECHNICAL SPECIFICATIONS	
Capacity	1 or 2 flexible endoscopes
Tank Capacities	Clean Water Tank: 1 piece 15L
	Waste Tank: 1 piece 15L
	Ready-to-use Disinfectant Tank: 2 pieces 15L
	Concentrated Disinfectant Tank: 1 piece 5L
	Enzymatic Tank: 1 piece 5L
	Alcohol Tank: 1 piece 5L
Water Filtration	5 micron, 1 micron
Connections	Single Scope: 4 Channel - Double Scope: 6 Channel
Leakage Test	Pressure Value (min-max): 0,3-0,4 bar
Power	AC 220/230V, 50/60Hz Max. 360W 2A
Dimensions Without Pallet	Width: 600mm Length: 986mm Height: 1100mm
Dimensions With Pallet	Width: 1200mm Length: 800mm Height: 1342mm
Weight	Net: 80 kg - With Pallet: 140 kg
Disinfectants	Detro PAA 2200 / 1500, Detro OPA
Cleaners	Detro Enzym



Wide sink to prevent damage to endoscopes



Traceability of programmes on graphic LCD display

→ Pre Wash
→ Enzymatic
→ Rinse 1
→ Disinfectant
→ Rinse 1
→ Alcohol+Air



Traceable, advanced reporting system that records each washing, disinfection and drying process (Optional)

Disinfectant Type to Use	Screen Type	CE Model No	Catalog Code	Single Scope	Double Scope	Double Tank	U/V Lamp	Printer
Ready to Use Disinfectant	Graphic Screen	DW-5001	MKD5001	+		+		
		DW-5002	MKD5002	+		+	+	
		DW-5004	MKD5004	+		+		+
		DW-7001	MKD7001		+	+		
		DW-7002	MKD7002		+	+	+	
		DW-7004	MKD7002		+	+		+

Drying and Storage Cabinet for Flexible Endoscopes





- > 6 or 12 endoscope storage capacity
- > Programme update via remote connection
- > Ethernet sending transaction information to the hospital system
- > Encryption system for secure user login
- > 6 adjustable programmes
- > Hepa filter and U/V lamp to improve drying air quality
- > Easy-to-clean acrylic water collection reservoir



Automatic rotary hanger system with connection outlets sending drying air to each endoscope and ensuring homogenous drying



Drying and storage information built-in thermal printer reporting

MODEL TABLE

Model No	Number of Scope	Dimensions	Weight	Max. Scope Length	Power Current	Electricity Supply	Traceability	Catalog Code
DSC-601	6	W.: 1110mm L.: 821mm H.: 2300mm	200 kg	2050 mm	5 kW - 20A	220/230vac 50/60 Hz	Barcode Scanner, Printer, Ethernet System	DSC-601
DSC-602	6	W.: 1110mm L.: 821mm H.: 2200mm	190 kg	1950 mm	5 kW - 20A	220/230vac 50/60 Hz	Barcode Scanner, Printer, Ethernet System	DSC-602
DSC-603	6	W.: 1110mm L.: 821mm H.: 2100mm	180 kg	1850 mm	5 kW - 20A	220/230vac 50/60 Hz	Barcode Scanner, Printer, Ethernet System	DSC-603
DSC-1201	12	W.: 1130mm L.: 900mm H.: 2320mm	226 kg	2050 mm	5 kW - 20A	220/230vac 50/60 Hz	Barcode Scanner, Printer, Ethernet System	DSC-1201
DSC-1202	12	W.: 1110mm L.: 821mm H.: 2200mm	210 kg	1950 mm	5 kW - 20A	220/230vac 50/60 Hz	Barcode Scanner, Printer, Ethernet System	DSC-1202
DSC-1203	12	W.: 1110mm L.: 821mm H.: 2100mm	200 kg	1850 mm	5 kW - 20A	220/230vac 50/60 Hz	Barcode Scanner, Printer, Ethernet System	DSC-1203



Ability to control parameters such as cabin temperature, humidity, slot number viewing and selection, etc. with a large touch screen



Traceable, advanced reporting system that records each washing, disinfection and drying process

Safe use thanks to the door that can be controlled by user barcode

For Endoscopes Ergonomic Trolley





- > Ergonomic and safe design
- > 4 endoscope carrying capacity
- > Easy transport with disassembled structure

TECHNICAL SPECIFICATIONS

Capacity	4 transport trays
Dimensions Without Pallet	Width: 960mm Length: 550mm Height: 1100mm
Dimensions With Pallet	Width: 1200mm Length: 800mm Height: 1320mm
Weight Without Pallet	45 kg
Weight With Pallet	95.5 kg
Accessories	4 transport trays
	4 green stickers (dirty-clean distinction)
	4 red stickers (dirty-clean distinction)
	2 compartments (for user's auxiliary equipment)



Damage to the endoscopes preventing and specially designed leak-proof wide carrying trays



Green and red labels designed to distinguish between dirty and clean



Sliding shelves for ergonomic and safe transport of endoscopes



For comfortable and ergonomic movement of the endoscope trolley push handle feature in both directions



Ability of the user to use auxiliary equipment (hand and skin disinfectant, disinfection wipes, etc.) with the endoscope trolley



Compatible with the floor and locking feature reliable medical castors available

CATALOG CODE

DTRL-401

Endoscope Washing and Disinfection Solutions

HIGH LEVEL DISINFECTANTS



DETRO® OPA

Orthophthalaldehyde Based High Level Medical Instrument and Endoscope Disinfectant

USAGE AREAS: Detro® OPA solution is used for high level cleaning of surgical instruments, bendable and non-bendable endoscopes. Used for disinfection. Polystyrene, stainless steel, PVC, acrylic, polycarbonate, ceramic, ABS, silicone, HDPE, rubber, suitable for disinfection of medical devices made of glass.

PROPERTIES: It has KARL STORZ brand endoscope approval. It is a ready-to-use product.

COMPOSITION: 0,55% orthophthalaldehyde, anticorrosive agents, deionised water.

MICROBIOLOGICAL ACTIVITY: Bactericidal (including Tbc), fungicidal, virucidal, sporicidal in 5 minutes



DETRO® PAA 2200 / DETRO® PAA 1500

Peracetic Acid Based High Level Medical Instrument and Endoscope Disinfectant

USAGE AREAS: Used for high level disinfection of surgical instruments, flexible and rigid endoscopes. It is compatible with medical devices/equipment made of polystyrene, stainless steel, PVC, acrylic material, polycarbon, ceramic, ABS, silicone, HDPE, rubber and glass.

PROPERTIES: Ready to use. It is prepared by mixing base and activator. Solution life is minimum 7 days.

COMPOSITION: Base: hydrogen peroxide, stabiliser, auxiliary substances; Activator: N-acetylcaprolactam, n-methyl pyrrolidone, auxiliary substances; Active substance: peracetic acid formed by mixing base and activator.

MICROBIOLOGICAL ACTIVITY: Bactericidal, tuberculocidal, fungicidal, virucidal, sporicidal in 5 minutes.



DETRO® PLUS PAA DW

Peracetic Acid Based High Level Endoscope Disinfectant

USAGE AREAS: It is used for high level disinfection of endoscopes. Detrowash endoscope washing and suitable for use with disinfection devices. With materials made of plastic, silicone, glass, acrylate, rubber and rubber compatible.

PROPERTIES: Concentrated product. It is automatically diluted and disposable.

One drum of product can be used for 70 washes.

COMPOSITION: 15% peracetic acid, auxiliary substances.

MICROBIOLOGICAL ACTIVITY: Bactericidal, tuberculocidal, fungicidal, virucidal, sporicidal in 5 minutes.

CLEANERS



DETRO® ENZYM

Enzymatic Cleaner for Medical Instruments and Endoscopes

USAGE AREAS: Provides pre-cleaning of all kinds of surgical instruments, medical devices and endoscopes. Cleans organic wastes such as blood, oil, protein, starch on surfaces. Glass, rubber, wood, ceramic, silicone, plastic and stainless steel compatible with steel material.

PROPERTIES: It is a concentrated product. It is used by diluting 0.5%. Tools thanks to the enzymes it contains provides a more effective cleaning by dissolving the residues on it.

COMPOSITION: Enzymes (amylase, protease, lipase, cellulase), glycol, nonionic surfactant, quaternary ammonium compounds, anticorrosive agents.



DETRO® ENZYM PLUS DW

Enzymatic Cleaner for Endoscopes

USAGE AREAS: Used for pre-cleaning of endoscopes. Detrowash endoscope washing and disinfection suitable for use with devices. Cleans organic wastes such as blood, oil, protein, starch on surfaces. Glass, rubber, compatible with wood, ceramic, silicone, plastic and stainless steel materials.

PROPERTIES: Concentrated product. It is used by diluting automatically. Tools thanks to the enzyme it contains provides a more effective cleaning by dissolving the residues on it. One drum of product can be used for 100 washes.

COMPOSITION: Enzymes (amylase, protease, lipase, cellulase, mannanase), glycol, nonionic surfactant, anticorrosive agents.



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INTEGRATED ENDOSCOPE WASHING AND DISINFECTION SOLUTIONS



PROCEDURE
WITH ENDOSCOPE



CONTAMINATED ENDOSCOPE
SAFE TRANSPORT



WASHING AND
DISINFECTION



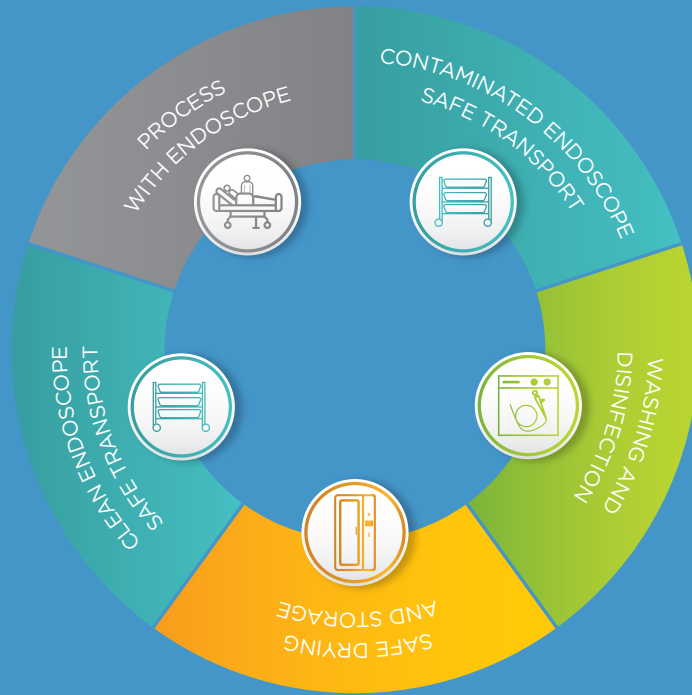
SAFE DRYING
AND STORAGE



CLEAN ENDOSCOPE
SAFE TRANSPORT



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DETRO HEALTHCARE KİMYA SANAYİ A.Ş.

Atatürk mah. Cemal Gürsel cad. No:8/3 Esenyurt/İSTANBUL-TÜRKİYE

Tel: +90 (212) 659 77 62 E-mail: info@detrox.com.tr - international@detrox.com.tr



detrohealthcare.tr



detrohealthcare



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www.detrox.com.tr