

ENDOSAUBER ES



- ✓ SINGLE-SCOPE Washer
- ✓ Table Top Model, Occupies less space.
- ✓ Data Log Printer for Endoscope Cleaning Data.
- ✓ USB Data Storage.
- ✓ Memory Backup Mode for Safe Cycle functions.
- ✓ Cleaning With Water Rinse / Disinfectant / Enzymatic.
- ✓ Compatible with Any Flexible Endoscope.
- ✓ Compatible With Any froth free Disinfectant.
- ✓ Economical - Lower quantity of disinfectant required.
- ✓ Air Purge System after each cleaning process.

Manufactured By

Endotech

103, Jaygopal Industrial Estate,
B. Parulekar Marg, Dadar West,
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ENDOTECH

IN TOUCH WITH LIFE

Item Discription	Fully Automatic Single Endoscope Washer
Quantity	One
Department	Endoscopy
Date	
Supplier	
Manufacturer	Endotech,103, Jaygopal Ind. Estate, B Parulekar Marg, Dadar (W), Mumbai- 400 028. Maharashtra (India)
Technical Specifications	
Model	Endosauber - ES (Single Scope Automatic Endoscope Washer)
Number of Reprocessed Endoscopes	Max. 1 Endoscopes - simultaneously
Machine Designed for Use	Endoscope Washer - Table Top & Indoor Use only
Machine Dimensions	19" H x 27" W X 27" D (Inches) 47 H x 69 W X 69 D (cm)
Weight	45 Kg (Dry Condition) 50 Kg (When in use)
Power Cord & Socket	230 VAC / 6 Amp / 18 AWG / 3 Pin Computer Cord & Socket
Power Supply (At Inlet)	Voltage : 230 VAC Frequency : 50 Hz Input Current : 5 Amp
ELECTRICAL Protection	Replacable fuse 3 Amp (Inbuilt Spare fuse in Power Socket)
Water Supply Flow	10-12 ltr/min OR more when water Tap is fully open
Water Pressure Tolerance (Inlet)-Requirement	Between 0.2 to 0.3 Mpa (2 to 3 BAR) - 2-3 Kg
Water Supply Temperature-Req (INLET)	Max 25 °C (RECOMMENDED FOR ENDOSCOPE)
Disinfection Solution Tempreture-REQ (INLET)	Max 25 °C (RECOMMENDED FOR ENDOSCOPE)
Operating Tempreture	10 - 40 °C
WATER FILTER / Purifier	External Filter Required. R.O. OR U V Filtered water with Candle filter
Water Hardness	50 - 120 ppm (Parts per million)
Maximum fluid Delivery through Channels	1 ltr / min
Maximum Air Pump Pressure	29 PSI (2 BAR)
Cycle Time Range Setting (Disinfection /Water Rinse)	1 to 99 minutes
Pre-Cleaning & Enzymatic Wash cycle Time	Pre-Cleaning circulation: 1 Min Fixed / Enzymatic Wash : 3 Min Fixed
Air Purge (Through Endoscope Channels) with Drain	2 Min fixed Time

Technical Specifications

Cycle Completion indicator	Visual & Data Print
Compatible Endoscopes	Olympus Flexible & Immersible Endoscopes Fujinon Flexible & Immersible Endoscopes Pentax Flexible & Immersible Endoscopes Karl Storz Flexible & Immersible Endoscopes
Compatible With Bronchoscope	Yes
Compatible Disinfectant Solution	Compatible with any froth free Disinfectant
Compatible Soap / Detergent	Any Low Foam Liquid Soap
Tubings Available for Internal Endoscope Channel Cleaning	Biopsy / Suction / Air / Auxiliary (Elevator)
Cleaning Method	Exterior Cleaning : With Disinfectant / Water / Soap immersion Internal Channels Cleaning : With Disinfectant / Water / Soap flushing / Air Purge
Endoscope Immersion Tray Capacity	Approximately 14 ltrs
Disinfectant Solution Tank Capacity	Approximately 13 ltrs
Disinfectant Requirement for Cleaning	Approximately 11-12 ltrs
Level Sensor	Maintain appropriate level of fluid / Overflow / No Drain
Display	LCD Display, Showing Running cycle Status
LED Indication	Liquid Circulation & Air Purge
Cleaning Data Bifurcation	Disinfection Contact (Immersion) Time / Water Rinse Time / Total cycle Time / Cycle start Time / Cycle End Time / Auto cycle completion details (Auto1 / Auto2 / Manual)
Data Log Printer (Thermal Printer)	Data printing of Endoscope Cleaning details with Hospital Name / Date / Endoscope Make, Type, Model & Serial No / Disinfection Time, Water Rinse Time, Total Time Duration / Auto cycle completion (Auto1 / Auto2 / Manual)
USB Data Storage	Stored all cleaning data in USB Drive.
Memory Backup Mode for Safe Cycle functions	Time saver (In case of Power Failure, Cycle stops at any stage (Circulation / Air Flushing), it will starts where it had been stoped when power begins.
Functions	Auto 1 / Auto 2 / Manual / Time & Date Setting / Wash Cycle : External immersion & Internal Circulation Cycle Time Selection
Cycle / Modes / Time	Auto 1 : Precleaning Water / Disinfectant / Water Rinsing (All with Air purge) / Time : 14 Min (If Disinfection Time set for 5 Min & Water Rinse 2 Min) Auto 2 : Soap (Enzymatic) Cleaning / Water Rinsing / Disinfectant / Water Rinsing (All with Air purge) / Time : 23 Min (If Disinfection Time set for 5 min & Water Rinse 2 Min). Note : In Auto 2 operation, put the appropriate amount of liquid soap in scope immersion Tray and start AUTO 2 function. Any Liquid Soap (Recommended froth free Concentrated) as per the ratio of dilution in water given by the Soap manufacturer. Manual : Can be select Water & Disinfectant Cycle individually as per user requirements.

Technical Specifications

	Note : In all Auto cycles, the total cycle operation time depends on Disinfectant OR Water immersion with Circulation Time. If using High level Disinfectant with set 5 min immersion Circulation time & 2 min for Water immersion Circulation time, then it will take 14 min for a complete reprocessing Cycle in Auto 1 & 19 Min in Auto 2.
Cycle Duretion Time	Precleaning : 1 Min Fixed Immersion + 2 Min Drain & Air Purge : Total 3 Min
	Soap (Enzymatic) : 3 Min Fixed immersion + 2 Min Drain & Air : Total 5 Min
	Disinfection : 5 Min (As per user setting) immersion & Circulation + 2 Min Drain & Air Purge : Total 7 Min
	Water Rinse : 2 Min (As per user setting) immersion & Circulation + 2 Min Drain & Air Purge : Total 4 Min
Different Make Endoscope cleaning Mode	User can wash two makes of endoscopes without changing original cleaning adaptors with selection of ' Default Scope Selection Mode '
Leak Test	Not Available. (We recommend External Leakage Test for Each Endoscopes. It is essential to leak test the endoscope according to the manufacturers instructions. A general outline of the procedure is provided below. All endoscopes should be leak tested prior to immersion and between each patient use. The leak test will detect damage to the interior or exterior of the endoscope. Proceed to angulate the scope UP/ Down & Left/ Right, while keeping the bending section completely submerged. This practice can expose any pinholes or tears that may have been concealed while the scope was in the straight position. Perforated channels of endoscopes are an infection control risk and damage may also occur to parts of the endoscope not designed for fluid exposure.) https://www.totalscopeinc.com/insiders-guide-better-scope-leak-testing/
Free Accessories	Printer Rolls : 02 Nos, USB Drive : 01
Shelf Life Of Equipement	Approx 5-7 Years
Upgradation	Upgradation is possible if any. (*Upgradation charges will be extra)
Reusable liquid filters	Air Channel Filter - Stainless Steel Mesh Filter (To Prevent Scope Air Channel Blockage during cleaning Process) / Suction filter - Stainless Steel Mesh filter
Consumables	Printer Rolls
Endoscope Channel Connectors (Adaptors)	Required Original Channel Connectors (Adaptors) supplied by Endoscope Manufacturer for leakfree connection.
Requirements For Installation	Stabilizer / RO Or UV Water with Candle filter / Stopcock at Water Inlet / External Water Pressure (2-3 Kg) / Platform OR Trolley / Drainage. <u>Ask for Installation requirement drawing from manufacturer (ENDOTECH).</u>

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