

ENDOSAUBER ES Invent

- SINGLE-SCOPE Washer
- 🕑 Table Top Model, Occupies less space.
- 🗹 Authorization Security RFID Tag.
- RFID Endoscope Data Reader.
- 🕥 Cleaning Data Bifurcation.
- 🕥 Data Log Printer (Thermal Printer).
- **VSB** 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.

Manufactured By

Endotech

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www.endotech.in



IN TOUCH WITH LIFE

Item Discription	Fully Automatic Single Endoscope Washer
Quantity	One
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Department	Endoscopy
Date	
Supplier	
Manufacturer	Endotech,103, Jaygopal Ind. Estate, B Parulekar Marg, Dadar (W), Mumbai-400 028. Maharashtra (India)
Т	echnical Specifications
Model	Endosauber - ES INVENT (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 Endescones	Olympus Flexible & Immersible Endoscopes	
Compatible Endoscopes	Fujinon Flexible & Immersible Endoscopes	
	Pentax Flexible & Immersible Endoscopes	
	Karl Storz Flexible & Immersible Endoscopes	
Compatible With Bronchoscope	Yes	
Compatible Disinfectant Solution	Compatible with any frath free Dicinfectant	
Compatible Disinfectant Solution	Compatible with any froth free Disinfectant	
Compatible Soap / Detergent	Any Low Foam Liquid Soap	
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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	
Disinfactant Requirement for Cleaning	Approximately 11 12 ltrc	
Disinfectant Requirement for Cleaning	Approximately 11-12 ltrs	
Level Sensor	Maintain appropriate level of fluid / Overflow / No Drain	
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Display	LCD Display, Showing Running cycle Status	
LED Indication	Liquid Circulation & Air Purge	
RFID Functions	Works as single Scope if sensed only one Endosope RFID	
Authorisation Security RFID Tag for Wash Cycle time setting	Wash cycle Time (Disinfectant Circulation & Water Rinse) can be set by Authorised person after sensing Security RFID Tag. Note : Contact Time of Disinfectant should be set as per recommended by Disinfectant Manufacturer. Water Rinse time should be set for minimum 2 Min	
RFID Endoscope Data Reader	Easy Storage & printing of Endoscope details like Make, Type, Model, Serial No.	
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 (Incase 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)	

Тес	hnical Specifications
	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.
	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
Operational RFID Working	Single Scope cleaning cycle only
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 Lekage 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 No, RFID Tags for Endoscopes : Maximum 10 Nos., Authorisation Security RFID Tag (Wash Cycle). (Extra Charges for additional Tags & Lost Tags with visit charges)
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</u> <u>requirement drawing from manufacturer (ENDOTECH).</u>

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