

ENDO 3

Technological Features



Stainless steel design

ENDO 3s machines are completely made of AISI 304 (DIN 1.4301) stainless steel with a Scotch Brite brushed finish that facilitates cleaning operations. The door has a stainless steel frame, tempered glass doors, and a silicone perimeter gasket that provides a perfect seal and a good barrier against dirt and dust, which is also ensured by an overpressure inside the chamber.



Door locking and security system

Locking system capable of locking the door and allowing it to be opened only by authorized operators via password. In addition there is a lock with a key.



Touch-pad keyboard with graphic display

A colour touch screen monitor is installed on the side panel of the ENDO 3, which shows the status of the cabinet as well as being used to manage all parameters.



Alarm-check system

This system helps to understand why an alarm has occurred before consulting the user manual. A text appears on the display with the number, the image of the alarm and the text explaining the possible causes of it.



Connection ETHERNET port

ETHERNET port to connect to the PLC during extraordinary maintenance and/or to use the traceability system.



Sliding vertical panels

ENDO 3 is equipped with 3 vertical, removable, AISI 304 stainless steel panels, each equipped with 2 hooks on each side. For each panel, up to 4 endoscopes (Pentax, Fuji, Olympus etc.) can be stored via universal holders and hooks, for a total of 12 endoscopes per cabinet. The panels are equipped with removable drip trays and allow for easy insertion as well as secure attachment of the endoscopes in the provided slots to prevent any damage. The upright position also allows the internal drying of the channels to be maintained.



Ventilation with HEPA H14 filter

Ventilation of the endoscopes is via a three-way quick connector connected to the ducts. Ambient air is drawn in and filtered through a HEPA H14 filter, and then heated to the desired temperature (not exceeding 40°C / 104°F). The HEPA H14 filter can block fine particulate matter in the air with an efficiency of 99.995%. In addition, in order not to damage or clog the filter, a prefilter is placed in front of it to block larger dust.



Pressure monitoring

The free passage of air inside the endoscope channels is constantly monitored by a pressure switch that monitors pressure and allows for improved operation and safety.



Printer

ENDO 3s are equipped with a built-in thermal printer that prints a receipt each time an endoscope is picked up. The receipt shows the information: user, type of endoscope, day and time of loading and withdrawal, remaining hours of storage, status of the endoscope, and any other related events.



PLC system

The PLC system guarantees total traceability, storing every detail of the storage system. The system records the name of the operators using a particular endoscope, the date and time of storage and collection of the endoscope and much more. It also constantly monitors how long each endoscope is stored in the cabinet, alerting the user with an alarm when the set interval expires.



LED light inside cabinets

At the top of the cabinet, two low-energy LED lights are installed to improve visibility during loading and unloading endoscopes.



Ventilation endoscope ducts

For ventilation the endoscope ducts, connector kits are required (one per endoscope) consisting of silicon tubing and connectors suitable for the type of instrument used OLYMPUS, FUJI, PENTAX etc. The KIT is supplied on request by communicating the model and version of the instruments supplied.



Connection RS232 port

The cabinet is equipped with an RS232 port for external connections, such as a thermal printer.



Barcode reader

The cabinets are integrated with a barcode reader to identify the user operating the cabinet and the types and quantity of endoscopes being inserted and removed.



USB port

The cabinet is equipped with a USB port that allows a digital copy of the receipts, which are printed each time an endoscope is removed from the cabinet, to be saved on an external USB memory.



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