

ED 150

Drying and storage cabinet for flexible endoscopes



After the reprocessing in an endoscope washer, the endoscope is ready to be used right away. If it is not used immediately, the latter should be dried and stored in controlled conditions in a drying and storage cabinet.

Steelco ED 150 dries and stores flexible endoscopes keeping them in controlled conditions while waiting for the next patient.

The aseptic storage time is **independently certified up to 720 hours**.

ED 150 allows to hung endoscopes vertically with dedicated supports to prevent their distal part from touching the bottom of the chamber. For the positioning and the withdrawal of the endoscopes, the operator is facilitated by the system of vertical sliding drawers that allows the almost total extraction of the drawers and the convenient access to the instruments.

The ED 150 model is available in different configurations as single or side-by-side combined module.

The double module version reduces the used space by sharing the central control module. The two cabinets are indeed configured in a more compact frame that combines two devices into a single frame despite being two independent units regarding all other aspects: mechanical, connections, control panels etc.

Models

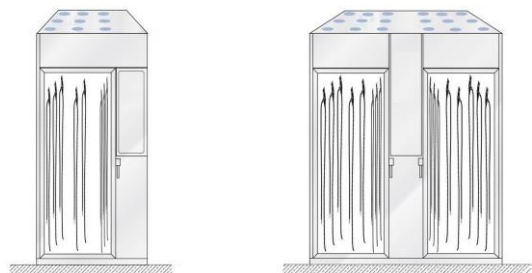
Single device – 9 endoscopes capacity

ED 150/1 – Single door model

ED 150/2 – Double door model

Combined device – 18 endoscopes capacity

ED 150/3 – Single door model



Specifications

Dimensions

External dimension

ED 150/1 – 968 mm x 810 mm x 2270 mm

ED 150/2 – 968 mm x 845 mm x 2270 mm

ED 150/3 – 1713 mm x 810 mm x 2270 mm

Drying/storage chamber

ED 150/1 – 548 mm x 714 mm x 1700 mm

ED 150/2 – 548 mm x 752 mm x 1700 mm

ED 150/3 – 548 mm x 714 mm x 1700 mm

Sound level

< 50 dB

Drying

Endoscope channels purging with pressurized HEPA H14 filtered air.

The device is also equipped with an efficient warm air flow that dries both the chamber and the endoscopes external surface.

Certifications

ED 150 is classified class I, according to rule 13 of Annex VIII of the regulation EU 2017/745 (MDR).

Cabinet/instrument connection

Steelco ED 150 is equipped with sliding panels, each one with three (3) hangers where the endoscopes are dried and stored vertically with dedicated supports to prevent their distal part from touching the bottom of the chamber.



The sliding panels allow the almost total extraction of the panels themselves and the simplified access to all the instruments.

The connection system of the endoscope channels is made of silicone pipes, completed with connectors dedicated to endoscope channels (different brands and models). Such tubes have CPC male connectors on the other side to allow the endoscope connection to the cabinet.



Construction

- External frame and panels in stainless steel AISI 304.
- Vertical panels in stainless steel AISI 304.
- Drying and storage chamber coating in polish stainless steel AISI 304.
- Vertical panels upper guides made of AISI 304 stainless steel and equipped with plastic wheels on bearings. The lower guides are made of AISI 304 with Teflon.
- Instrument hangers made of stainless steel AISI 304 with instrument protection system.
- Chamber thermal insulation made by mineral wool panels coating.
- Hinged reversible door, configurable for right or left opening, realized with a double HST (High Shock Tested) tempered glass.
- Three (3) 0,75 kW air drying heating elements.
- Safety lock for the end position of extraction of the drawers.

- Drying circuit, with a dedicated blower, for a homogeneous distribution of the heat inside the chamber, in order to prevent the creation of high temperature areas. The circuit is monitored by a pressure switch.
- Endoscope channels are purged through filtered compressed air (built-in air compressor).
- Alternatively, the cabinet can also be directly connected to external medical grade quality compressed air (air compressor not available).
- The filtration system is made up of a pre-filter and a HEPA H14 filter and it serves both the drying circuits.
- Easy filters maintenance with access from the frontal superior lifting panel.



- Sensors to monitor the door opening.
- Panel-controlled door locking system.

Control system and connection interface

Control panel with 3-digit LED display.

Device settings, safety features

- Chamber temperature set at +40°C.
- Visual and acoustic alarm if the temperature is out of the pre-set working range.
- Visual and acoustic alarm in case of non-correct functioning of the air-drying flow system. This alarm cannot be removed until the flow is restored within the working range.
- Visual and acoustic alarm in case of non-correct instrument connection.
- Visual and acoustic warning when HEPA filter maintenance is needed.
- Visual and acoustic alarm in case one door is left opened for a longer period than a pre-set time.
- All acoustic alarms can be disabled through a general parameter.
- Interlocked doors in case of double door model to avoid the simultaneous door opening.

Standard configuration

Endoscope connectors up to cabinet capacity

Standard equipped with Olympus connectors.

If different connectors are needed, endoscope brands and models must be specified in the order.

HEPA H14 air filtering

Optional

Device main switch

Humidity detection system

Indirect UV drying air treatment

And others, to be verified with your local distributor/agent.

Connections

For any connection detail, please refer to installation drawing of the selected model.

Electrical requirements

- The total power of the machine in the standard configuration is:
 - Single cabinet: 2,75 kW.
 - Combined cabinet: 5,5 kW.
- 230V/~50Hz.
- Other electrical connections available to match electrical requirements of the installation site.