

## SlidaScope<sup>™</sup>

### **Sliding Drawer Scope Drying Cabinet**



### **FEATURES:**

- Endoscope capacity = 8 (suits flexible scopes)
- Suitable for long scopes
- X-ray or standard pass through options
- HEPA Filtered Air Drying Independent air supply via Shared Air Box (for up to 2 cabinets); or
- Remote Air Generator for multiple cabinets
- Vacuum channel drying reduces hook-up cross contamination
- Small footprint: 600mm(w) x 600mm(d) x 1810mm(h)
   Height excluding Shared Air Box. 2140 (h) Inclusive of SAB
- Hygienic acrylic cabinet construction
- Interlocking RFID door locks
- Airflow, temperature, pressure and humidity monitoring and reporting per EN16442 Standards
- RFID Scope Data Monitoring and Display:
  - o Countdown timers for each scope.
  - Electronic data backup and integration to other software packages via CSV or MySQL.
  - Live view of cabinets via software
- Data management system allows printing of labels to report scope status, cabinet cleaning status, error status
- Discrete lighting indicates cabinet hygiene status and prompts when cleaning or service is required
- Scope validation label with 'Expiry Date and Time' information for Washer to Patient validation
- Air connectors and vacuum hose kits supplied (eight sets including scope connectors)
- 12 168 hours storage time configurable



### CONTENTS

| CONTENTS   | 2  |
|--|----|
| NOTICE AND DECLARATION                           | 5  |
| PREFACE  | 6  |
| EN16442 COMPLIANCE REQUIREMENTS                  | 6  |
| CABINET OVERVIEW                                 | 7  |
| Door Opening Directions and Door Style Selection | 8  |
| Interlocking                                     | 8  |
| AIR OPTIONS                                      | 9  |
| Benefits of Shared Air System                    | 10 |
| Benefits of Vacuum Through Channels              | 14 |
| CABINET SPECIFICATIONS                           | 15 |
| Cabinet Conditions                               | 16 |
| Quick Reference Specifications Table             | 18 |
| OPERATION INSTRUCTIONS                           | 22 |
| Before Storage                                   | 24 |
| Storing a Scope                                  | 24 |
| Connecting Vacuum to a Scope:                    | 25 |
| DATA SYSTEM                                      | 27 |
| Data System Overview                             | 28 |
| Count Down Timers                                | 29 |
| Scope and Staff Tags                             | 29 |
| Tag Programmer                                   | 30 |
| Washer Station                                   | 31 |
| Sequence for Washing Scope: Who, What, Where     |    |
| Adding and Removing Scopes From the Cabinet      |    |

2





| Printer Station                                     | 32 |
|---|----|
| Replacing Labels                                    | 33 |
| Laptop Kit  | 34 |
| PC Operating Systems                                | 34 |
| Software – Installed onto Laptop                    | 35 |
| Positions of Components and Cable Distances         | 36 |
| Closed Network – TCP/IP                             | 36 |
| Cabinet Reset Button                                | 37 |
| Printing Labels                                     | 38 |
| INSTALLATION REQUIREMENTS                           | 39 |
| Information to Gather                               | 40 |
| Room Layouts, Ceiling Heights and Wall Construction | 40 |
| Bulkhead  | 42 |
| Access and Route for Install                        | 43 |
| Lifts / Stairwells                                  | 43 |
| Install Dates, Work Hours                           | 43 |
| Power Needs   | 43 |
| STAFF TRAINING AND EDUCATION                        | 44 |
| Standard Workflow                                   | 45 |
| Cabinet Reporting Conditions                        | 46 |
| Cabinet Light Colour Key                            | 47 |
| In-Service Training For Site                        | 48 |
| Additional Training and Setup                       | 48 |
| MAINTENANCE AND CLEANING                            | 49 |
| Air Lines   | 50 |
| Hook-ups (Cleaning Adaptors)                        | 50 |

3





| Baskets  | 50 |
|--|----|
| Cleaning   | 50 |
| Internal Surfaces  | 50 |
| Exterior Surfaces  | 50 |
| Cleaning Data Validation                                     | 51 |
| SAFETY   | 52 |
| Safe Operating Procedure                                     | 52 |
| Pre-Start Checks   | 52 |
| Turning On the Cabinet                                       | 52 |
| Maintenance Contracts  | 53 |
| Compliance   | 53 |
| TROUBLESHOOTING  | 54 |
| PHYSICAL TESTS AND CHECKS                                    | 55 |
| Air Flow Check   | 55 |
| Endoscope Condition Check                                    | 55 |
| Power Outages  | 55 |
| ANNEX A – VALIDATED SCOPES FOR STORAGE                       | 56 |
| Validated Scopes Overview                                    | 56 |
| Olympus Colonoscopes   | 56 |
| Olympus Gastroscopes   | 59 |
| Olympus Duodenoscopes  | 61 |
| Olympus Bronchoscopes  | 61 |
| Pentax Scopes  | 62 |
| Fujinon Scopes   | 64 |
| ANNEX B - INSTRUCTIONS FOR USE — ENDOSCOPE HOSE KIT CLEANING | 65 |
| Manual Cleaning  | 66 |

4





| atch Washers                   | .67 |
|--------------------------------|-----|
|                                |     |
| terilising for Sterile Storage | .67 |

### **NOTICE AND DECLARATION**

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Distributor Details:

Product designed and manufactured by Smartline Machinery Pty. Ltd. PO Box 532, Buderim, Qld 4556 Australia



### **PREFACE**

Products made by Smartline Machinery Pty Ltd are designed to meet specific needs in the healthcare industry and we manufacture in Australia under ISO 9001 quality system standards. Before our products leave the factory, they undergo quality assurance testing to ensure that they meet our quality standards. Should you experience problems with this product, please contact us for support or repairs.

This User Manual covers the installation, general use and maintenance of the SlidaScope™ Scope Drying Cabinet designed and supplied by Smartline Machinery or approved distributors.

In countries outside Australia, our products are supported by local distributors which are always ready to help you. See Distributor details on Page 5.

If the local distributor is unable to assist you, forward your support requests to Smartline Machinery at <a href="tech@smartlinemachinery.com">tech@smartlinemachinery.com</a>

This product has been designed to dry and store up to eight flexible Endoscopes. The construction and assembly is configured to do so reliably and effectively in conjunction with European and Australian Standards and Guidelines.

Number of Scopes stored per cabinet: 8 Endoscopes. Capable of storing Gastroscopes, Colonoscopes, Bronchoscopes, Duodenoscopes, EUS Scopes, Enteroscopes, ENT Scopes and more of most brands.

### **EN16442 COMPLIANCE REQUIREMENTS**

Continuous monitored air-drying cabinets complying with European Standard EN 16442:2015 – for drying Thermoliable Endoscopes. Globally this standard currently represents the highest documented level indicating best practice of Scope storage at time of publication of this document.

EN16442 requires the cabinet to monitor, report and print various parameters including airflow status indication, cabinet pressure, temperature, humidity, door open parameters and power outages.

All events are logged in the Data Management System for log retrieval and reporting

Maintenance: It is an operational requirement to have an up-to-date Maintenance Contract in place.

**Validation:** To maintain the accuracy of the environment monitoring equipment, the system needs to be recalibrated and checked annually by an approved service agent. A Certificate of Compliance will be issued upon each annual recalibration. A Validation Contract is separate to a Maintenance Contract and is also an operational requirement.

SlidaScope™ Cabinets meet current 2017 GENCA Guidelines and Position Statement March 2017 and are Compliant with EN16442.

Australia: According to the GENCA Position Statement, March 2017, all cabinets must comply with EN16442 by December 2020.

This product is TGA listed – Article ARTG 140018. According to GESA/GENCA/ACIPC August 2017, "Statement 7a, "All endoscopic instruments, except those in sterile packaging, should be stored in TGA-approved forced air-drying cabinets". And Statement 7b, "Endoscopes stored in TGA-approved forced-air drying cabinets may be used for a period of up to 7 days without reprocessing, unless otherwise stated by the manufacturer.



### SlidaScope<sup>™</sup>

### **CABINET OVERVIEW**

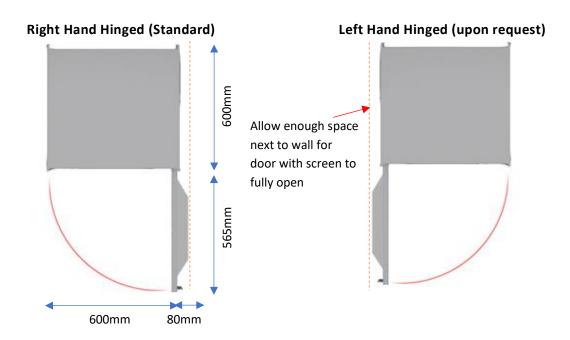


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### DOOR OPENING DIRECTIONS AND DOOR STYLE SELECTION

SlidaScope™ Cabinets come standard with doors hinged on the right. If there is a requirement that doors be hinged on the left, this needs to be shown in the room layout drawings and be noted on all documentation. It is very important that this information is detailed in the quoting stage, as although it is possible for the doors to be changed onsite, the client will incur additional charges if changes were not requested in the original specification.



### INTERLOCKING

If the selected SlidaScope™ Cabinet is of the pass-through variety, the standard door locking mechanism will prevent both doors from being open at the same time. This interlocking function will therefore prevent air from passing between the cleaning and procedure rooms.



## SlidaScope™

### **AIR OPTIONS**









MAN-0910 SlidaScope Cabinet RELEASE DATE: 01/2020 Model: 09.DC-B **461 7 5478 9977** 

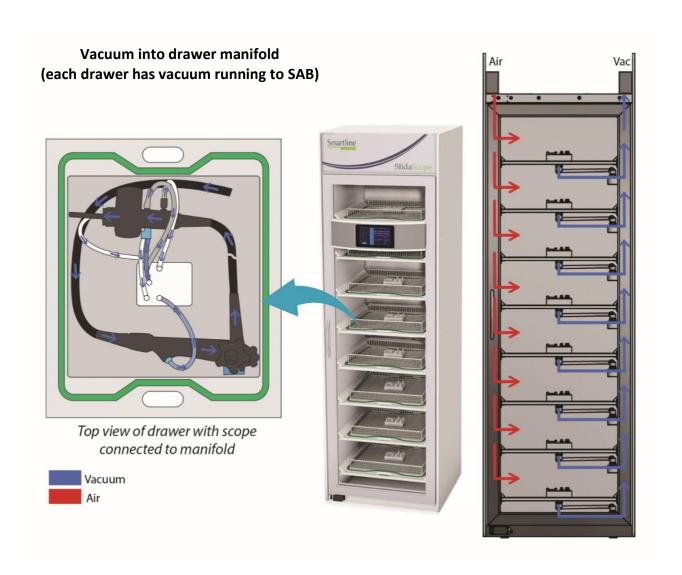
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### **BENEFITS OF SHARED AIR SYSTEM**

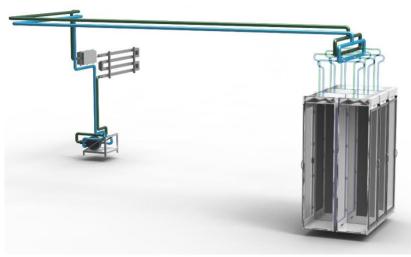
The cabinet will provide an environment fit for drying qualified scopes stored inside.





There are two options for the air generation for the SlidaScope<sup>™</sup> Cabinet. Both options are an inexpensive air supply and do NOT connect to the hospital, medical grade, air supply. Low servicing costs of filters (annually) and pumps (biannually) creates a cost-effective solution to airflow.

### 1. Remote Air System (Multiple Cabinets Use – Each site needs independent evaluation)



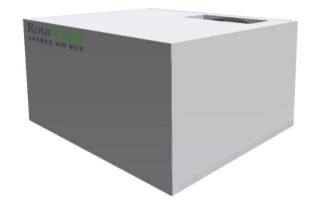
The Remote Air System can service 1 -7 cabinets and will require air ducting from the pump system (Remote Air Generator) to the cabinets. The largest pump will require a 3-Phase power source.

### 2. Shared Air Box (Most common scenario)

The Shared Air Box can be positioned on top of a SlidaScope<sup>™</sup> Cabinet if the ceiling height is 2400mm. Alternatively, it can be wall mounted using the SAB Wall Mounting Kit (09.SC-SB -WMK).

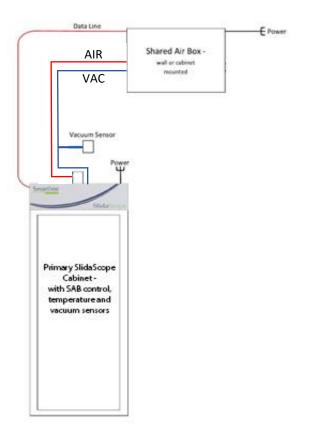
If a wall mount kit is used, there is a possibility that a 5-10 metre hose extension kit will be required to connect the SAB to the SlidaScope™ Cabinet. Similarly, a hose extension kit may be required to connect air to the secondary SlidaScope™ Cabinet if positioned up to 10m away from the primary cabinet that holds the SAB.

### **Shared Air Box**

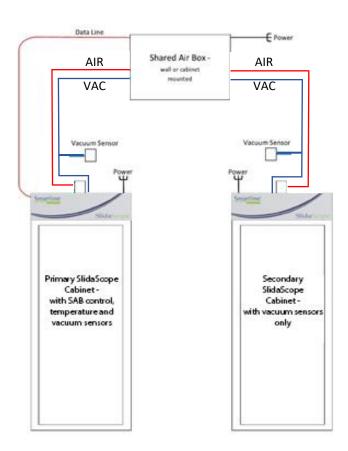




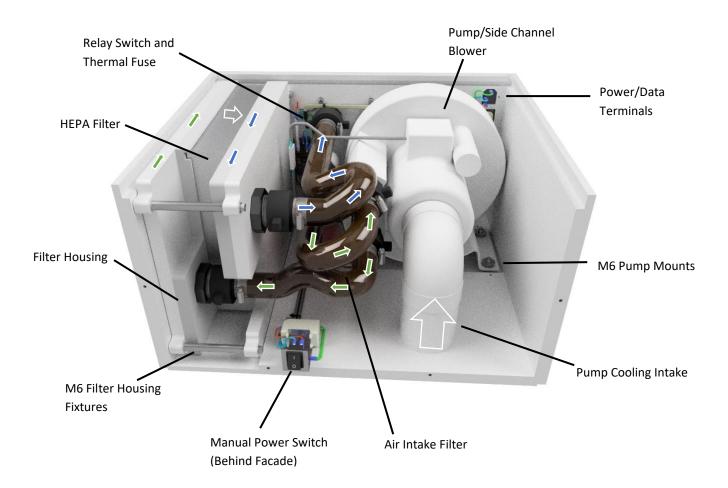
### Single cabinet install schematic



### **Double cabinet install schematic**







-Note: Top and Front plate, not shown.



The Shared Air Box (09.SAB) will generate HEPA Filtered air and vacuum for up to two cabinets.

The Shared Air Box is located with the cabinets (no plumbing or construction work required)

The ongoing costs of this product is low and only requires basic servicing.



The following table details replacement parts:

### QUANTITY OF CABINETS (One system can service two cabinets)

FILTER REPLACEMENT

PUMP REPLACEMENT

| Year | 1 Cabinet | 2 Cabinets | 3 Cabinets | 4 Cabinets | 5 Cabinets |
|------|-----------|------------|------------|------------|------------|
| 1    | 1x        | 1x         | 2x         | 2x         | 3x Filters |
| 2    | 1x        | 1x         | 2x         | 2x         | 3x         |
| 3    | 1x        | 1x         | 2x         | 2x         | 3x         |
| 4    | 1x        | 1x         | 2x         | 2x         | 3x         |
| 5    | 1x        | 1x         | 2x         | 2x         | 3x         |
| 1    |           |            | ,          |            | 1          |
| 1    | N/A       | N/A        | N/A        | N/A        | N/A        |
| 2    | 1x        | 1x         | 2x         | 2x         | 3x Pumps   |
| 3    | N/A       | N/A        | N/A        | N/A        | N/A        |
| 4    | 1x        | 1x         | 2x         | 2x         | 3x         |
| 5    | N/A       | N/A        | N/A        | N/A        | N/A        |

### BENEFITS OF VACUUM THROUGH CHANNELS

The SlidaScope™ Cabinet uses vacuum which ensures enough airflow passes through each endoscope channel to assist with drying the internal surfaces. The clean HEPA Filtered air is passed into the cabinet and across each scope, the air is pulled through the distil tip of the scope and returns through the various hook-up manifolds.

14





# SlidaScope

### **CABINET SPECIFICATIONS**



15



### **CABINET CONDITIONS**

### **Cabinet Mounted Touch Screen Interface**



Sensor Status Key

= Value out of range



= Scope Storage details (Expired in RED)

The SlidaScope™ Environmental Monitor measures and records the following cabinet conditions:

- Temperature
- Humidity
- Air (Cabinet Pressure)
- Vacuum
- Door Status
- Shared Air Box Temp
- Routine Cleaning Status Clean Due
- CONTROL SAB and Alarm Status
- Scope Location Button Detailed Storage Info

The air system automatically maintains a positive pressure within each cabinet. Having a positively pressured cabinet, minimises external airflow (cleaning room / theatre air) into the cabinet. All the Environmental Conditions are measured and recorded by the Data Management System as required to meet EN16442 Standards. If a deviant reading level is received (in the Warning or Alarm values of these conditions), the following will occur:

• An automatically generated printout identifies actions for Cabinet Clean Completed and Alarms





• Cabinet lighting will change colour (each fault has an assigned colour, see: Warnings and Alarms section)

### **Cabinet Mounted Touch Screen Control Screen**



Sensor Status Key

= Alarm Acknowledge Button

= SAB on/off

### **Cabinet Mounted Touch Scope Storage Details Screen**

| MAIN       | SCOPE DETAILS TRAY 2                 |                 |  |
|------------|--------------------------------------|-----------------|--|
| IVII VII V | REMAINING COUNT:                     | 71:59           |  |
|            | Remaining Out Of Cabinet Time (OoC): | 02:59           |  |
|            | Scope Type:                          | ENDOSCOPE       |  |
|            | Scope Name:                          | JF-140R Olympus |  |
|            | Wash Station:                        | AER 3           |  |
|            | Scope TAG:                           | 1363551789      |  |
|            | version: 06-June-2018                |                 |  |
|            |                                      |                 |  |



### QUICK REFERENCE SPECIFICATIONS TABLE

| Topic   | Answer   | Notes   |
|---|--|---|
| List of endoscopes that can be stored in the storage cabinet;     | See: Approved Scope List.                                      | Endoscope accessories (e.g. valves) can be stored inside the storage cabinet but it is not the intention of the storage cabinet to maintain the microbiological quality of these accessories.   |
| Storage temperature band  | 10 – 40degC  |   |
| Maximum storage time  | 168hrs   | 7 days maximum storage  |
| Drying function   | N/A  | Cabinet is not equipped with a drying function  |
| Drying temperature band   | N/A  | Not Applicable as cabinet does not use elevated temperatures to dry load.   |
| Time required to dry the endoscopes (if applicable)               | 3 Hours (MAX)  | Dryness may be achieved in less than 3 hours  |
| Automated channel flushing control                                | N/A  | Automated channel flushing NOT used   |
| Air Flow circulation diagram                                      | See: USER Manuals  | See: Benefits of Shared Air System RotaScope:Page 10 SlidaScope: Page 10  |
| Cabinet Flow Rate (Ports at Manifold)                             | >1.0 l/m   | Minimum detectable flow rate is .5 l/m  |
| Cabinet Flow Rate (Total)   | 120 – 200 l/m  | 10x Air Exchanges p/h Minimum detectable flow rate is 20 l/m  |
| Cabinet Pressure Band   | -1- 27pa   | Differential Pressure (above 27Pa is possible but not recorded.   |
| Endoscopes that one or more channels is below the detection limit | N/A  | Currently there are no endoscopes that can be stored in the cabinet that have a flow rate that is below the detectable flow rate of 1 l/min.  |
| Air Quality   | 99.99% @30µm Filtration Rate (HEPA<br>Filtered Supply Via SAB) | Third party air is not used by the storage cabinet. A Shared Air Box draws required air from the surrounding environment of which it is situated and therefore standard office working conditions need to be provided at all times. Room temperature range 10 °C to 30 °C, relative humidity between 40% and 70%, environmental room pressure greater than 102 kPa. |
| Humidity Band   | 3.0 – 90.0 %RH   |   |
| Oil Content   | N/A  | Compressed air not used   |
| Air Quality Testing Frequency                                     | Annually – Service   | HEPA Filter replaced Annually   |
| Cabinet Cleanliness Level   | N/A  | A specific cleanliness level is not claimed –<br>Clinical Clean at commissioning/handover is<br>required by HSO required  |
| Cabinet Cleaning Limits   | <168hrs  | Weekly cleaning required for cabinet and accessories (Vacuum Hose Kits)   |
| Cabinet Cleaning IFU  | See: User Manual   | See: Maintenance and Cleaning<br>RotaScope: Page 47   |





|  |  | SlidaScope: Page 48  |
|--|--|--|
| Accessory Cleaning IFU                     | See: Vacuum Hose Kit IFU Document  |  |
| Preventative Maintenance                   | See: Service Agreement and/or User<br>Manual   | RotaScope: Page 52 SlidaScope: Page 51 Annual Preventative Maintenance of Cabinets and Shared Air Systems are Recommended – To be done by a Smartline Medical Accredited Service Technician                        |
| Selectable storage cabinet cycles          | Out of Cabinet Time – 3hrs Non-alcohol Cycle – 12hrs Alcohol Cycle – 168hrs See: Staff Training Manual | See: Wash Validation of Scopes   |
| Transferring Endoscopes                    | See: User Manual   | See: Storing/Hanging A Scope RotaScope: Page 22 SlidaScope: Page 22  |
| IFU for Power Outage                       | See: User Manual   | After a power outage a cabinet will illuminate purple and a label will be printed with associated information.  See: Cabinet Reporting Conditions & Power Outages RotaScope: Page 46 & 54 SlidaScope: Page 45 & 53 |
| Model Numbers and Serial Numbers           | See: Cabinet   | See: Cabinet  Model Number – Top Façade  Serial Number – Behind front Door at top  See: SAB  Model Number – Top Façade  Serial Number – RHS at Top   |
| Environmental Conditions                   |  | Standard office working conditions need to be provided at all times. Room temperature range 10 C° to 30 C°, relative humidity between 40% and 70%, environmental room pressure greater than 102 kPa.               |
| Correcting, resetting and acting on faults | See: User Manual   | See: Cabinet Conditions RotaScope: Page 16 SlidaScope: Page 16   |
| Over and under pressure stabilisation band | Instant  | Cabinet Air pressure requires no time for stabilisation  |
| SAB Over Temp,                             | Instant  | Alarm:  • Subtracts time from OoC  • Causes SAB to Shutdown  Self-rectifying – attempts to run again after 2 minutes.  |

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|  |  | Note: Alarm Acknowledge required at Cabinet interface for normal operating function (Yellow Cabinet Lighting) however, OoC will only count  |
|--|--|---|
| Cabinet Temperature, Humidity, Air<br>Pressure, Vacuum and Door Alarms | 3 Minutes  | down whilst the pump is not running.  Warning Mode: Yellow warning light for first three minutes Alarm:  • Subtracts time from OoC  |
|  |  | Self-rectifying Alarm, once cabinet reads in normal status, the cabinet will return to green and OoC will cease counting down.  |
| Clean Alarm  | 24hr Warning (Blue Light)  | Alarm:  • Subtracts time from OoC  Requires Cabinet Clean Function to rectify alarm   |
| Storage Expiry   | Instant  | Visible:  • 00:00 On Door Screen  • "Re-Process Scope" on Label   |
| OoC Expiry   | Instant  | Visible:  • 00:00 On Door Screen  "Re-Process Scope" on Label   |
| Endoscope Channel Condition Prior to Storage                           | See: Automated Endoscope Reprocessor (AER) IFU or Manual Cleaning Regime | The verification that all channels allow the passage of air before the device is loaded into the storage cabinet is required when a scope has been cleaned and disinfected using a manual cleaning procedure. In the case where the endoscope is cleaned and disinfected using a validated processing procedure (washers compliant with EN ISO 15883-4:2009) this verification is included through channel monitoring however, extensive air flushing of all channels is recommended before placing the endoscope in the cabinet to purge any water left inside endoscope channels from the washers.  The absence of purge of internal channels of endoscopes at the end of a washing/disinfection procedure could impact the storage cabinet efficiency. It is reminded to users that it is important to conform to manufacturer's recommendations and instructions. |
| Cabinet Dimensions (Height x Width x                                   | 1810 x 600 x 600mm   | NOTE: In accordance with EN16442  |
| Depth) Cabinet Weight Metric   | 104 kg   |   |

MAN-0910 SlidaScope Cabinet RELEASE DATE: 01/2020 Model: 09.DC-B 20





| Scope Holding Capacity                  | 8  |  |
|---|--|--|
| Min ceiling height requirement metric   | 2400mm                                       |  |
| Height (bottom edge) GPO & Data points  | 2000+mm                                      |  |
| Power USA                               | 110V – Cabinet                               | Cabinet Only 2 A @240v                       |
| Power Other regions                     | 240V 50-60Hz                                 | Data 12V                                     |
| Shipping Crate (Height x Width x Depth) | 2420 x 770 x 900mm (195kg)                   | Certified Treated Timber                     |
| SHARED AIR BOX                          |  |  |
| Shared Air Box Dimensions (Height x     | 334 x 600 x 500mm                            |  |
| Width x Depth)                          |  |  |
| Power USA                               | 110V/60Hz 20A Cabinet                        | Actual 3.1A@240V                             |
| Power Other regions                     | 240V/50Hz 10A                                | Data: 12V                                    |
| SAB Product Weight Metric               | 51 kg  |  |
| Room Operating Temperatures Range       | >10 to 40°C                                  |  |
| Max Room Humidity - air intake          | <70% RH                                      |  |
| Environment                             | Indoor use only                              |  |
| Airflow capacity                        |  | -200l/m 1x cabinet                           |
|   | 350 I/m capacity                             | 120 l/m 2x cabinets                          |
|   |  | 270 mbar vacuum                              |
| Thermal protection: Fuse and Measured   | 80 °C: Thermal Fuse in SAB Housing           | 76 °C: Electronic Regulated                  |
| Shipping Crate (Height x Width x Depth) | 750 x 750 x 570mm (95kg)                     | Certified Treated Timber                     |
| Cabinet Materials per                   | Glass, Anodised Aluminium, Acrylic,          | Conforms to AS4187 and EN16442 and is        |
| AS4187 and EN16442                      | Stainless Steel, Silicone, and PVC labelling | tested                                       |
|   |  | SEE: EN16442 test results - Biotech-Germande |
|   |  | (France) 2017/2018                           |

### **Electronic and Compliance Testing**

FCC Approved 2018 – Incomplete but in progress 2018 / CE Approval 2018 – Incomplete but in progress 2018

EMC 60601-1 and 60601-2 Complete and independently accredited 2018

EN16442:2015 Complete and accredited to 31 days Storage via international test house Biotech-Germande (France) 2018

### **Quality Assurance and Manufacture Approvals**

ISO-9001 Quality Assurance – 2018 Audited and current & EN-13485 Manufacture Medical Devices 2018 – Incomplete but in progress 2018

### **TGA-approval article number**

ARTG 140018 – Current 2018







### SlidaScope™ with Shared Air Box fitted on top

Dimensions: 600mm W x 600mm D x 1810mm mm H Cabinet (2140mm H with Shared Air Box Fitted)

NOTE: Bulkhead also 600 x 330mm



### **OPERATION INSTRUCTIONS**

MAN-0910 SlidaScope Cabinet

RELEASE DATE: 01/2020 Model:

09.DC-B

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23

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### **BEFORE STORAGE**

NOTE: If you do not air purge the internal channels of the endoscopes after the washing/disinfection procedure, retained moisture could impact on the storage cabinet efficiency. Users are reminded that it is important to conform to manufacturer's recommendations and instructions.

In the case where the endoscope is cleaned and disinfected using a validated processing procedure (washers compliant with EN ISO 15883-4:2009) this verification is included through channel monitoring, however, extensive air flushing of all channels is recommended before placing the endoscope in the cabinet to purge any water left inside endoscope channels from the washers. Scopes should have channels blown dry with medical air from handpiece ports including biopsy channel and thumb ports for *suction* and *air/water*.

Endoscopes should be transferred into storage/ drying cabinet as soon as possible after endoscope has completed all of it set cleaning phases. Take care to not touch any part of the endoscope on surfaces that may cause a cross contamination onto the endoscope.

### STORING A SCOPE

- 1. WHO Operator Tag presented to Cabinet Door Mounted Wand
- 2. Open the SlidaScope™ Cabinet door
- 3. Coil the scope loosely and place inside basket, around the air manifold in the centre
- 4. Attach the vacuum hoses
- 5. Hoses are connected to the air manifolds via push in & turn clockwise "Luer Lock" fittings. Attach vacuum blockers to all unused luer lock fittings that are not attached via the connectors to the scope channels.
- 6. WHAT Use Cabinet Door Mounted Wand to swipe Scope Tag
- 7. WHERE Use Cabinet Door Mounted Wand to swipe desired Storage Location (Position Number)
- 8. **System will announce** Scope "Stored"
- 9. As soon as the Scope(s) have been placed in the baskets (and connected if applicable) close the door & keep the door closed at all times whenever possible.
- 10. Removal of a Scope is the reverse of the procedure to store them Steps 1-7
- 11. System will announce Scope "Removed"



### **CONNECTING VACUUM TO A SCOPE:**

There are usually four channels that need to be connected to vacuum, these are shown below:

To connect to the SlidaScope™ cabinet the cleaning adaptors that are supplied with the scopes need to be used and differ between the endoscope brands.

NOTE: In accordance with EN16442 it is recommended the scope channels and external surfaces of the scope to be purged and blown off using medical grade air to remove excessive moisture prior to loading into the cabinet for continuous drying. Extra attention must be paid to remove all water droplets from in between control knobs on handpiece.

There are usually four channels that need to be connected to vacuum, these are shown below:

To connect to the SlidaScope™ Cabinet the cleaning adaptors that are supplied with the scopes need to be used and differ between the endoscope brands.

### **Suction Connection Hose Auxilliary Connector Hose** Leave This End Open 47.VHW-1-AC-4 - Auxilliary Connector Hose 47.VHC-1-6 - Connection Hose 9 per Kit 9 per Kit **Biopsy Valve Hose** Air Water Connection Hose 47.VHB-1-BV14-4 - Biopsy Valve Hose 47.VHM-AW - Air/Water Channel Connection Hose **Bronchoscope Biopsy Valve Hose Bronchoscope Port Hose** 47.VHB-1-BV17-4 - Bronch Biopsy Valve Hose 47.VHC-1-BPP-6 - Bronchial Port Hose 1 per Kit



All other ports must be blocked to ensure a continuous airflow through the channels, these connections are shown below:

### **Channel Separator 47.VHB-CS**





### \*IMPORTANT: O-rings must be regularly inspected for wear.



Minimum and maximum temperatures for sterilization of channel separator O-Rings is -40 to 125 C. Washing the O-Rings for prolonged periods over 115 C may cause them to swell, leading to damage to the surface that makes connection and disconnection to endoscopes unworkable. It is recommended O-Rings are replaced at the annual service or prior where visual damage to O-Rings occurs.



Endoscope ports should also be monitored for signs of damage such as sharp edges that could scour the O-Ring surface leading to deterioration and difficulty fitting and removing the channel separators.



# SlidaScope™

27

DATA SYSTEM





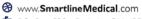
### **DATA SYSTEM OVERVIEW**

The SlidaScope Data System functions on Linux and RFID Tags, the concept functions on the concept of WHO, WHAT and WHERE, with WHEN being automatically captured by the Data System.

- 1. WHO = Operator Tag
- 2. WHAT = Scope Tag

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### 3. WHERE = Device Tag

- Washer Information
  - WHO Operator that washed the scope in the AER
  - o WHAT Which Scope
  - WHERE Where it was washed (Washer/AER Chamber)
    - Into the AER
    - Out of the AER
- Storage Information
  - o WHO Operator that stored the scope in the Cabinet
  - o WHAT Which Scope
  - WHERE Where is was stored (Cabinet and Location)
    - Into the Cabinet
    - Out of the Cabinet

### **COUNT DOWN TIMERS**

A reduction in reprocessing costs can be obtained through improved efficiencies via the Data Starter Kit to each SlidaScope™ cabinet site. Utilising the oldest stored scope first, will reduce department reprocessing costs.



### **SCOPE AND STAFF TAGS**

SCOPE TAG - FITS ONTO UMBILICAL CORD

STAFF TAG - USE ON KEY FOB







### TAG PROGRAMMER

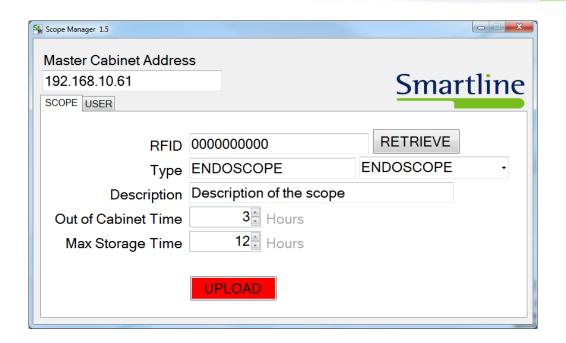
The Scope Programmer is used to link RFID Tag Information to the Data System. This unit runs off USB and with a PC and software (Scope Manager™). The Scope Manager is used to link storage time and scope names to Scope Tags, it is also used to link operator names to Operator Tags.





BELOW: Scope Manager Software – Used to easily create Scope Tags, Loan Scope Tags or Operator Tags





### **WASHER STATION**



Fig 2 – Washer Area

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31



### SEQUENCE FOR WASHING SCOPE: WHO, WHAT, WHERE

# WHO ANY Waster State Order Now Name C Day Server C Smartine

Who - Initiated the wash cycle

What - Which scope

**WHAT** 

### WHERE



Where- Which Washer/AER

### ADDING AND REMOVING SCOPES FROM THE CABINET

### **WHO**



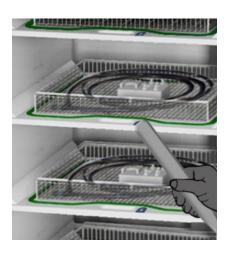
Who - Unlocked the door and is storing/removing the scope

### **WHAT**



What - Which Scope

### WHERE



Where – Which cabinet drawer/location

### **PRINTER STATION**

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### Present Scope Tag to Printer





### SCOPE STORAGE RECORD

SCOPE TYPE: ENDOSCOPE SCOPE NAME: scope 4 LOADED TO: ROTASCOPE 1:1 LOADED TIME: 11:46:58 Jan-06 20

LOADED BY: Door TAG REMOVAL TIME 11:47:09 Jan-06 20

REMOVED BY: Richard2 STORED FOR: 0.0 HOURS

OOC EXPIRES: 14:46:52 Jan-06 20

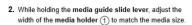
### **REPLACING LABELS**

### 2.3 LOADING LABELS OR TAGS

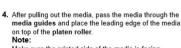
### 2.3.1 Loading Roll media

1. With the power supply off, pull the cover open/close latches (1) on both sides of the printer toward you to unlock the top cover, and then open the top cover (2).

Make sure that the cover rests firmly so that it will not fall forward and injure your hands.







Make sure the printed side of the media is facing









Printed side should face



### **LAPTOP KIT**



### **Laptop Kit Inclusions:**

Computer and

1.1 gigahertz (GHz), 64-bit dual-core processor

Processor

Operating System Windows 10

Display 1366 x 768p

Memory (RAM) 4 gigabyte (GB) RAM (64-bit)

Auxiliary parts Tag reader, Loan Scope tags, Wireless mini USB adaptor

### **PC OPERATING SYSTEMS**

The Tag Programmer or Monitor Software is to be installed on a hospital Laptop or PC (with Wi-Fi). This is an integral part of the system.

34



### **SOFTWARE - INSTALLED ONTO LAPTOP**

### **Scope Manager**



- Installed onto Laptop
- For setting up RFID tags
- Complete executable installer file

### **Tag Reader**



- Supplied with Laptop Kit
- For reading tags and using with Scope Manager to set up tags

### **Team Viewer**



Enables remote access to the site Laptop

### **VNC Viewer**



- Access to cabinet screen/control
- Via the shortcut on the laptop



The laptop's desktop background

35



### POSITIONS OF COMPONENTS AND CABLE DISTANCES

Details of the required cable lengths can be identified if the quantities and locations of the components are shown on a set of room layout drawings. By measuring and determining the path the cables run between components, the job can be quoted and ordered easily, and will result in a seamless and easy installation.

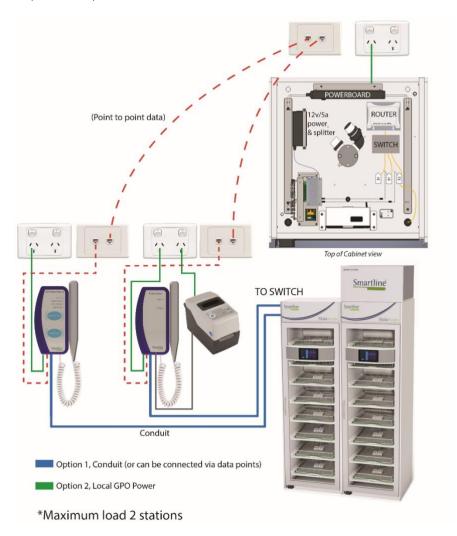
### **CLOSED NETWORK - TCP/IP**

The Data System runs on an independent LAN (Local Area Network), separate from the hospitals own data network. This closed system reduces the additional traffic on the Hospital's IT system and allows the department to completely control the inclusions, as well as arrange and rearrange the components used.

When data needs to be run between rooms, a cable needs to be installed (Cat6 / Ethernet cables and wall sockets).

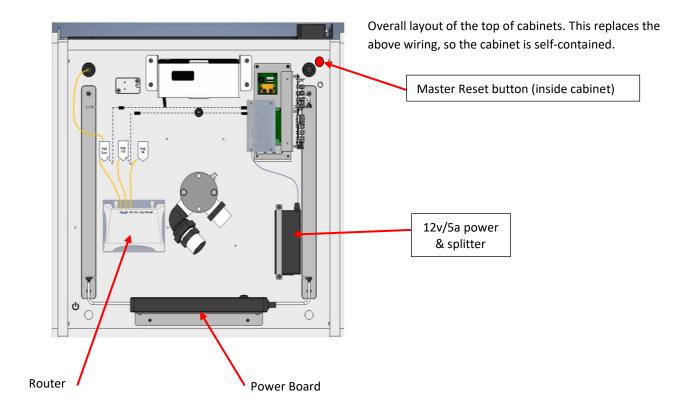
Details of integrating the system onto the hospital network need to be discussed on a case-by-case basis.

A simplified data and power setup can be seen below:





# **CABINET RESET BUTTON**





# **PRINTING LABELS**

To improve endoscope tracking and traceability, a sticker label printer can instantly display the last use time and processing details. The images below show the three labels that can be generated:

| After Storage (2x Labels) | <b>To print this record:</b> Remove scope from cabinet using Who, What, Where sequence, and present Scope Tag to Printer Station Wand                                | SCOPE WASH RECORD  SCOPE TYPE: ENDOSCOPE SCOPE NAME: scope 4 WASHER: AER 1 LOADED TIME: 11:46:36 Jan-06 20 LOADED BY: Richard2 REMOVAL TIME: 11:46:42 Jan-06 20 REMOVED BY: Richard2 MAX STORAGE: 168 HOURS OOC EXPIRES: 14:46:52 Jan-06 20             |
|---------------------------|--|---|
|                           |  | (Along with:)   |
|                           |  | SCOPE STORAGE RECORD  SCOPE TYPE: ENDOSCOPE SCOPE NAME: scope 4 LOADED TO: ROTASCOPE 1:1 LOADED TIME: 11:46:58 Jan-06 20 LOADED BY: Door TAG REMOVAL TIME 11:47:09 Jan-06 20 REMOVED BY: Richard2 STORED FOR: 0.0 HOURS OOC EXPIRES: 14:46:52 Jan-06 20 |
| After Clean               | To print this record: Once scope is removed from AER, this label prints  | CABINET CLEAN RECORD  Cabinet: ROTASCOPE 1 Date: 08:07:52 Jan-06 20 User: RICHARD   |
|                           |  | www.smartlinemachinery.com  |
| Incorrect Scope Removal   | To print this record:  If a scope is removed from cabinet without the correct process being followed, the Incorrect Scope Removal label will print for your records. | INCORRECT SCOPE REMOVAL  SCOPE TYPE: ENDOSCOPE SCOPE NAME: scope 4 AER / WASHER: AER 1 WASHED AT: 14:46:58 Dec-16 19 AER OPERATOR: RICHARD STORED IN: REMOVAL TIME: SIGN: www.smartlinemachinery.com  |

NOTE: These printed labels can add to the efficiencies of the department with a standard and consistent point of reference for the storage and wash details. If Scope status is unconfirmed, a printout can be done to validate the Scope quickly.

38

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RELEASE DATE: 01/2020 Model:

09.DC-B



# SlidaScope

# INSTALLATION REQUIREMENTS





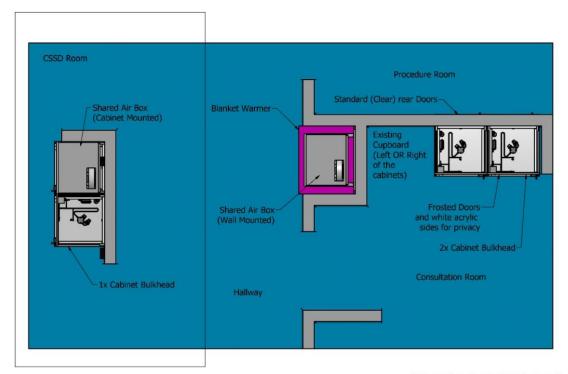
# **INFORMATION TO GATHER**

Prior to your order being processed there is a range of things to consider and clarify with the customer. **Refer to form F227 for required information.** 

# ROOM LAYOUTS, CEILING HEIGHTS AND WALL CONSTRUCTION

The cabinets and components can be drawn in by obtaining the room layout drawings from the engineering department or creating your own. This drawing will become the most important reference for the job process.

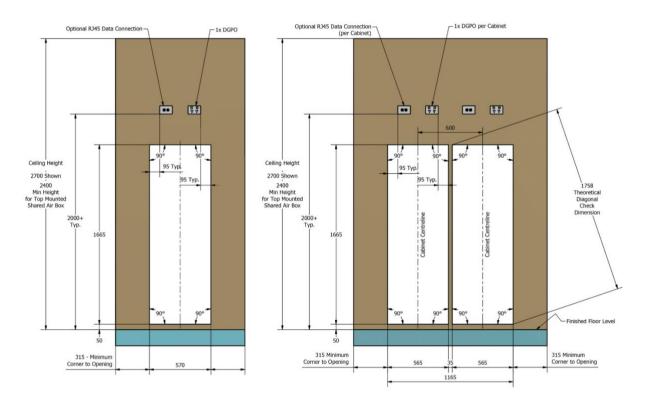
# **Plan View Example**



All doors Hinged on the Right (unless otherwise specified)



# Front View Opening and Power & Data Points Example



### NOTES:

Drawer Cabinet has 575mm (F to R) x 600mm (L to R) Footprint. Floor to Wall Coving behind Cabinet no greater than R15 No Cornice above Cabinet if Ceiling Height below 2500mm Hole Opening Tolerance details below, left.

41

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RELEASE DATE: 01/2020 Model:

09.DC-B



# **BULKHEAD**

If the ceiling height is 2400-2700mm and there is no SAB mounted on top of the cabinet, a bulkhead should be added to the job. The hospital/builder can arrange to have a bulkhead built onsite to suit but if so, they must have a gas strut hatch at the front for access and servicing.

# **Cabinet with an Acrylic Bulkhead**





# **ACCESS AND ROUTE FOR INSTALL**

Prior to each installation, it is very important to confirm access to the location of the cabinets. Mapping the complete route to be sure that a cabinet can be moved through the department / hospital without obstacles / impediments is necessary, to ensure the installation can be completed within the allocated timeframe.

# LIFTS / STAIRWELLS

As the SlidaScope™ Cabinet is of significant size, access on site can be of concern on occasion. Lifts being used for access must be at least 2500mm in any one direction, and if not, it will have to be confirmed that the stairwell is an acceptable alternative route.

# **INSTALL DATES, WORK HOURS**

On occasion, capital equipment installation and work with pass-through SlidaScope™ Cabinets must be completed during particular hours e.g. between lists or when department is not in use. Early establishment of the customer needs in this regard will assist Smartline Machinery with planning and logistics and should be discussed at the point of sale.

\*\*All the above points are outlined, and data is collected within the F227 form.

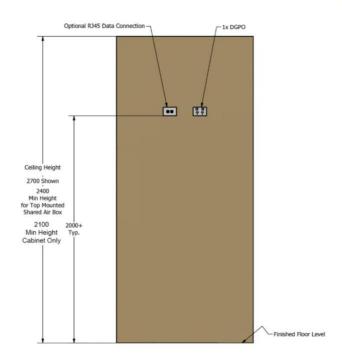
# **POWER NEEDS**

One double GPO must be installed per cabinet in the position shown below:

NOTE: For details on pass-through wall opening where more than one cabinet is to be installed, refer to wall opening drawings.

**Power and Data Point Positions** 





# $SlidaScope^{\text{\tiny{M}}}$

STAFF TRAINING AND EDUCATION





# STANDARD WORKFLOW

The following flow chart includes the SlidaScope™ wash-use workflow. This diagram may cover some steps that are not required for every installation.

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The typical endoscope workflow is as follows:

- 1. End of procedure (bedside wipe down)
- 2. Manual wash and leak test
- 3. Scan Scope into AER washer
- 4. AER wash (automated endoscope re-processor)
- 5. Scan scope out of AER washer
- 6. Print receipt (scope processing record)
- 7. Storage in SlidaScope™ Cabinet (in & out)
- 8. Print receipt (scope processing and storage record)
- 9. Start of procedure (bedside)

# **CABINET REPORTING CONDITIONS**

The SlidaScope™ Environmental Monitor measures and records the following cabinet conditions:

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- Temperature
- Vacuum
- Humidity
- Pressure
- Routine Cleaning Status
- Power outages

The system automatically maintains a positive pressure within each cabinet. By having a positively pressured cabinet, external air (cleaning room / theatre) will not flow into the cabinet.

All the Environmental Conditions are measure and recorded by the Data Management System as required to meet the EN16442 standards. Upon a reading level in the Warning or Alarm values of these conditions the following will occur:

- An automatically generated printout identifies the issue
- Cabinet alarm will sound
- Cabinet lighting will change colour (each fault has an assigned colour)

# **CABINET LIGHT COLOUR KEY**



Red = Alarm

White = Door Open

Magenta = Power Outage

Blue = Clean Due

Green = Neutral /
Normal
Operation

Yellow = Warning



### IN-SERVICE TRAINING FOR SITE

At the commencement of an installation, the department manager and key staff will require 'In-service' training.

The time and date of this training needs to be discussed prior to installation, however, cannot be done before the site is functioning- i.e. power, data and endoscopes available.

If the cabinets are being installed on a construction site and/or for contractors, in-service training may need to be carried out in two stages:

Stage 1 – Before handover and to the nominated parties of the contractors

Stage 2 – After site handover and to the operators / department staff

If this is the case, Hospital / Department may be required to be quoted separately. This is due to the fact that all purchases of the contractors will need to be signed off prior to handover and usually happens before completion of the build.

# ADDITIONAL TRAINING AND SETUP

A representative will guide the implementation of the Data System at a high level i.e. set up:

- Hose Kits How to connect a scope
- Operator Tags How to program RFID Operator Tags
- Scope Tags How to program RFID Scope Tags



# SlidaScope<sup>™</sup>

# MAINTENANCE AND CLEANING



Follow these cleaning processes to ensure a decontaminated environment before using the cabinet for storing any endoscopes.



# **AIR LINES**

Hose kits and ESC connectors are to be disinfected every 7 days or upon disconnection from a valid stored endoscope if time since last disinfection exceeds 7 days. Hoses and ESC connectors should be inspected for any damage or degradation of the items that would diminish the items ability to perform at its full capacity.

Before attaching the airline to the scopes or the cabinet we recommend sterilizing the hoses and lines in an autoclave washer.

# **HOOK-UPS (CLEANING ADAPTORS)**

Pre cleaning is required - These scope hook-ups (if required) should be washed according to manufacturer's recommendations before use, this may be achieved in the endoscope washer or autoclave.

### **BASKETS**

Pre-cleaning of baskets is required. Before using inside the cabinet we recommend washing and/or sterilizing the baskets. Baskets should be disinfected every 7 days minimum (along with the hose attachments).

### **CLEANING**

Cabinet interior & exterior surfaces to be cleaned using soft, clean cloths & non-abrasive cleaning/disinfecting products that do not contain ammonia or alcohol. Any abrasive cleaning product or cloth/scourers will permanently mark the surface & potentially allow bacteria to grow within the fine surface scratches.

Do not allow electrical or electronic components, where fitted, to become wet or splashed with water or other fluids. Any fluids issuing from recently attached scopes should immediately be wiped up.

# **INTERNAL SURFACES**

Cleaning of the SlidaScope™ cabinet should be carried out regularly in accordance with hospital procedures.

Clean from top to bottom, and hardest to reach section to easiest to reach section of the cabinet. The recommended cleaning technique is to wipe all interior surfaces with a non-alcoholic disinfectant wipe. (Please avoid cleaners containing ammonia or alcohol, as it will cause damage to the cabinet surfaces).

Any fluids inadvertently spilled or dripped onto the drawers or cabinet floor are to be wiped up immediately.

# **EXTERIOR SURFACES**

Depending on the type of external environment in which the cabinet is located, you could follow the directions for cleaning interior surfaces or simply wipe all surfaces down with a mild detergent and soft cloth. Please avoid cleaners containing ammonia or alcohol, as it will cause damage to the cabinet surfaces.

50

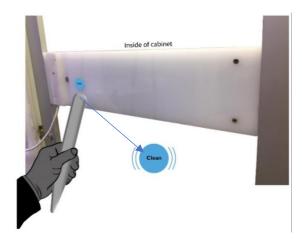


### **CLEANING DATA VALIDATION**

The Clean Due time is a **reminder** of the scheduled cleaning day. The internal cabinet light will turn Blue at 7am of the day of cleaning (as a reminder). The cabinet should be cleaned within 24 hours of the Blue light reminder. \*It is also acceptable to clean *before* the scheduled day.



Once cabinet is cleaned, operator should validate the clean by scanning USER tag, then CLEAN spot inside the cabinet. Cabinet will announce "Cleaned". A Cabinet Cleaning Record will automatically be printed and the cabinet light will return to neutral. If this clean process is not performed within 24 hours of the Clean reminder, the cabinet will turn RED and assumed 'contaminated'.





Cabinet: SLIDASCOPE A
Date: 13:37:01 Nov-19 18
User: Richard

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Printer on included bracket



# **SAFETY**

# SAFE OPERATING PROCEDURE

- SlidaScope™ Cabinets MUST BE positioned on a stable, level floor.
- Cabinet power cable must be securely plugged into a standard GPO & switched 'On'. Note that not all variants require power for each unit.
- Inspect door components of the equipment prior to use as well as daily inspection to also be performed on rear door where fitted.
  - Inspect the door components i.e.: handle, hinges, and locking mechanism (where fitted) for functionality, "wear and tear" or damage.
  - o Is the door easy to open and shut?
  - o Are there any obstructions in front of, or near the door to prevent it from opening?
  - Do the cabinet interior lamps illuminate when the door is opened & extinguish when the door is closed?
  - o Inspect that each occupied drawer basket has no more than one scope attached.
- Inspect the silicone connection hoses & luer fittings for "wear & tear" or damage
- Are the silicone connection hoses connected to the manifold luer fittings?
- Are the silicone connection hoses connected to the cleaning adaptors or scopes as per instruction diagrams?
- Are the instruction diagrams located within convenient view?
- Is the power cable securely plugged in & power turned 'On'?
- Inspect all data system components power cables are securely plugged in & power switched 'On'.
- Inspect all data system components, accessories & connection cables for functionality, 'wear & tear' or damage.
- If any inspection fails, please advise your supervisor as soon as possible.

### PRE-START CHECKS

Ensure that the cabinet is connected to a certified GPO.

If Shared Air Box (SAB) is mounted on or near the cabinet in question, please check the following:

- Ensure that the SAB external wiring loom is plugged into the cabinet controller and the SAB.
- Ensure that the air and vacuum hoses are connected.
- Refer to installation drawings to ensure correct installation of the SAB.

# **TURNING ON THE CABINET**

- The SAB is controlled by the cabinet-mounted touch screen on the front of the SlidaScope™ cabinet.
- Press the SAB ON / SAB OFF on the Control Screen to start the SAB.
- Once the SAB is running the display will update with cabinet temperature, humidity, air, vacuum





# **MAINTENANCE CONTRACTS**

To ensure you get the best performance out of your SlidaScope™ Cabinets, it is an operational requirement to have a Maintenance Contract in place. These contracts are to be set up through the Maintenance Department. A Maintenance Contract is an annual service agreement covering replacement equipment e.g. filters and parts for the Shared Air Box and basic ongoing cabinet maintenance.

# **COMPLIANCE**

A sample compliance sticker has been shown below. Please refer to your individual product for the compliance label that relates to your region.



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# SlidaScope

# **TROUBLESHOOTING**





# PHYSICAL TESTS AND CHECKS

# AIR FLOW CHECK

User to connect OXYVIEW in-line between scope channel and vacuum manifold to check air circulation through different channels.

Using OxyView flow meter the minimum flow rate detectable is 1 l/min.

# **ENDOSCOPE CONDITION CHECK**

The verification that all channels allow the passage of air before the device is loaded into the storage cabinet is required when a scope has been cleaned and disinfected using a manual cleaning procedure. The internal channels of the endoscope are to undergo an aeration test (bubble test) as per manufactures instructions.

In the case where the endoscope is cleaned and disinfected using a validated processing procedure (washers compliant with EN ISO 15883-4:2009) this verification is included through channel monitoring however, extensive air flushing of all channels is recommended before placing the endoscope in the cabinet to purge any water left inside endoscope channels from the washers.

# **POWER OUTAGES**

Restore power as quickly as possible to endoscope storage cabinet or transfer endoscope to a fully operational cabinet. Endoscope count down timer will count every minute that the endoscope is stored without power as a minute of Out of Cabinet time. Each endoscope has only 180 minutes of Out of Cabinet time per cleaning cycle. If endoscopes are stored without power for a time period that excess the Out of Cabinet time, endoscopes will have to go through the cleaning cycle again in full to be reprocessed in order to be used.



# SlidaScope

# ANNEX A - VALIDATED SCOPES FOR STORAGE

# **VALIDATED SCOPES OVERVIEW**

Currently there are some endoscopes that can be stored in the cabinet that have a flow rate that is below the detectable flow rate of 1 l/min.

AUX, air & water channels have less than the minimum detectable flow rate of the Oxyview. The cabinets do not monitor individual channel flow rates, only vacuum air pressure is monitored in the manifold of the cabinets. Air flow device should be used to verify that air is flowing through the channels of the endoscope under test conditions only, not for normal operation use.

### **OLYMPUS COLONOSCOPES**

| Name            | Brand   | Series | Туре        |
|-----------------|---------|--------|-------------|
| *+CF-H260AZI158 | Olympus |        | Colonoscope |
| *+CF-H260AZL158 | Olympus |        | Colonoscope |
| *CF-240AI49     | Olympus |        | Colonoscope |
| *CF-240AL49     | Olympus |        | Colonoscope |
| *CF-H180DI293   | Olympus |        | Colonoscope |
| *CF-H180DL293   | Olympus |        | Colonoscope |
| *CF-H260AI158   | Olympus |        | Colonoscope |
| *CF-H260AL158   | Olympus |        | Colonoscope |
| *CF-H260DI293   | Olympus |        | Colonoscope |
| *CF-H260DL293   | Olympus |        | Colonoscope |
| *CF-H290I297    | Olympus |        | Colonoscope |
| *CF-H290L297    | Olympus |        | Colonoscope |
| *CF-HQ290I297   | Olympus |        | Colonoscope |
| *CF-HQ290L297   | Olympus |        | Colonoscope |
| *CF-Q240AI49    | Olympus |        | Colonoscope |
| *CF-Q240AL49    | Olympus |        | Colonoscope |
| *CF-Q260AI158   | Olympus |        | Colonoscope |
| *CF-Q260AL158   | Olympus |        | Colonoscope |
| *PCF-160Al36    | Olympus |        | Colonoscope |
| *PCF-160AL36    | Olympus |        | Colonoscope |

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| *PCF-H2901297         Olympus         Colonoscope           *PCF-H290149         Olympus         Colonoscope           *PCF-P240Al49         Olympus         Colonoscope           *PCF-Q260Al158         Olympus         Colonoscope           *PCF-Q260Al158         Olympus         Colonoscope           *PCF-Q260Al293         Olympus         Colonoscope           *CF-Q160Zl37         Olympus         Colonoscope           *CF-Q160Zl37         Olympus         Colonoscope           CF-10011, 98         Olympus         Colonoscope           CF-10011, 98         Olympus         Colonoscope           CF-100714         Olympus         Colonoscope           CF-100714         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1402         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1602L         Olympus         Colonoscope   |                   |                                       |             |
|--|-------------------|---------------------------------------|-------------|
| *PCF-P240Al49         Olympus         Colonoscope           *PCF-P240Al29         Olympus         Colonoscope           *PCF-Q260Al158         Olympus         Colonoscope           *PCF-Q260Al293         Olympus         Colonoscope           *PCF-Q260A21293         Olympus         Colonoscope           *PCF-Q160Z137         Olympus         Colonoscope           *CF-Q160Z137         Olympus         Colonoscope           CF-100111, 98         Olympus         Colonoscope           CF-10011, 98         Olympus         Colonoscope           CF-10011, 98         Olympus         Colonoscope           CF-100114         Olympus         Colonoscope           CF-100114         Olympus         Colonoscope           CF-100114         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-1301129         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-14013, 105         Olympus         Colonoscope           CF-14014         Olympus         Colonoscope           CF-16021         Olympus         Colonoscope  |                   | · · · · · · · · · · · · · · · · · · · | •           |
| *PCF-P240AL49         Olympus         Colonoscope           *PCF-Q260AL158         Olympus         Colonoscope           *PCF-Q260AL158         Olympus         Colonoscope           *PCF-Q260A21293         Olympus         Colonoscope           +CF-Q160Z137         Olympus         Colonoscope           +CF-Q160ZL37         Olympus         Colonoscope           CF-10011, 98         Olympus         Colonoscope           CF-10011, 198         Olympus         Colonoscope           CF-10011, 198         Olympus         Colonoscope           CF-10011, 198         Olympus         Colonoscope           CF-13011, 199         Olympus         Colonoscope           CF-13011, 199         Olympus         Colonoscope           CF-1401, 199         Olympus         Colonoscope           CF-1401, 199         Olympus <t< td=""><td></td><td><u> </u></td><td></td></t<>  |                   | <u> </u>                              |             |
| *PCF-Q260Al158         Olympus         Colonoscope           *PCF-Q260AL158         Olympus         Colonoscope           *PCF-Q260AI293         Olympus         Colonoscope           *PCF-Q160Z137         Olympus         Colonoscope           *CF-Q160Z137         Olympus         Colonoscope           CF-Q100I1, 98         Olympus         Colonoscope           CF-100I11, 98         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-16021         Olympus         Colonoscope           CF-16038         Olympus         Colonoscope           CF-20041         Olympus         Colonoscope           CF-24021         Olympus         Colonoscope           CF-24  | *PCF-P240AI49     | Olympus                               | Colonoscope |
| *PCF-Q260AL158         Olympus         Colonoscope           *PCF-Q260AZI293         Olympus         Colonoscope           +CF-Q160ZI37         Olympus         Colonoscope           +CF-Q160ZL37         Olympus         Colonoscope           CF-100L11, 98         Olympus         Colonoscope           CF-100L11, 98         Olympus         Colonoscope           CF-100TI14         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-140138, 105         Olympus         Colonoscope           CF-14038         Olympus         Colonoscope           CF-14038         Olympus         Colonoscope           CF-1601         Olympus         Colonoscope           CF-16021         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200E9         Olympus         Colonoscope           CF-240D156         Olympus         Colonoscope           C  | *PCF-P240AL49     | Olympus                               | Colonoscope |
| *PCF-Q260AZI293         Olympus         Colonoscope           +CF-Q160ZI37         Olympus         Colonoscope           +CF-Q160ZI37         Olympus         Colonoscope           CF-100I1, 98         Olympus         Colonoscope           CF-100I1, 98         Olympus         Colonoscope           CF-100S98, 50         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-1301129         Olympus         Colonoscope           CF-130S127, 129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140L38, 105         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-20HL         Olympus         Colonoscope           CF-20DHL         Olympus         Colonoscope           CF-240D156         Olympus         Colonoscope           CF-240D156         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope  | *PCF-Q260AI158    | Olympus                               | Colonoscope |
| +CF-Q160Z137         Olympus         Colonoscope           +CF-Q160ZL37         Olympus         Colonoscope           CF-1001L1, 98         Olympus         Colonoscope           CF-100S98, 50         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-1301L29         Olympus         Colonoscope           CF-130L129         Olympus         Colonoscope           CF-130S127, 129         Olympus         Colonoscope           CF-140L38, 105         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-16OZI         Olympus         Colonoscope           CF-20HL         Olympus         Colonoscope           CF-20UHL         Olympus         Colonoscope           CF-20UH         Olympus         Colonoscope           CF-240H2         Olympus         Colonoscope           CF-240H2         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-21fol         Olympus         Colonoscope           CF-2716OL         Olympus         Colonoscope           CF-4  | *PCF-Q260AL158    | Olympus                               | Colonoscope |
| +CF-Q160ZL37         Olympus         Colonoscope           CF-100111, 98         Olympus         Colonoscope           CF-100111, 98         Olympus         Colonoscope           CF-100598, 50         Olympus         Colonoscope           CF-100TI14         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-1305127, 129         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-1401         Olympus         Colonoscope           CF-140138, 105         Olympus         Colonoscope           CF-140538         Olympus         Colonoscope           CF-16021         Olympus         Colonoscope           CF-16021         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200H2         Olympus         Colonoscope           CF-240D1156         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF  | *PCF-Q260AZI293   | Olympus                               | Colonoscope |
| CF-100I11, 98         Olympus         Colonoscope           CF-100L11, 98         Olympus         Colonoscope           CF-100TI14         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130I129         Olympus         Colonoscope           CF-130L129         Olympus         Colonoscope           CF-130S127, 129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-240D156         Olympus         Colonoscope           CF-240H9         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-27160I         Olympus         Colonoscope           CF-24160L         Olympus         Colonoscope           CF-40I         Olympus         Colonoscope           CF-H160AZI         Olympus         Colonoscope           CF-H180AI <td>+CF-Q160ZI37</td> <td>Olympus</td> <td>Colonoscope</td>  | +CF-Q160ZI37      | Olympus                               | Colonoscope |
| CF-100L11, 98         Olympus         Colonoscope           CF-100S98, 50         Olympus         Colonoscope           CF-100TI14         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130I129         Olympus         Colonoscope           CF-130L129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200H2         Olympus         Colonoscope           CF-24D1156         Olympus         Colonoscope           CF-24D20S49         Olympus         Colonoscope           CF-24D1156         Olympus         Colonoscope           CF-24D1156         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-27160I         Olympus         Colonoscope           CF-40I         Olympus         Colonoscope           CF-H260AZI   | +CF-Q160ZL37      | Olympus                               | Colonoscope |
| CF-100S98, 50         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130I129         Olympus         Colonoscope           CF-130L129         Olympus         Colonoscope           CF-130S127, 129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-240DL         Olympus         Colonoscope           CF-24DL156         Olympus         Colonoscope           CF-24DL156         Olympus         Colonoscope           CF-24DL49         Olympus         Colonoscope           CF-24DL49         Olympus         Colonoscope           CF-27160I         Olympus         Colonoscope           CF-27160L         Olympus         Colonoscope           CF-40I <t< td=""><td>CF-100I11, 98</td><td>Olympus</td><td>Colonoscope</td></t<>  | CF-100I11, 98     | Olympus                               | Colonoscope |
| CF-100TL14         Olympus         Colonoscope           CF-100TL14         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-130L129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZL         Olympus         Colonoscope           CF-20HL         Olympus         Colonoscope           CF-20S49         Olympus         Colonoscope           CF-24DD156         Olympus         Colonoscope           CF-24DL156         Olympus         Colonoscope           CF-24DL49         Olympus         Colonoscope           CF-271G0L         Olympus         Colonoscope           CF-271G0L         Olympus         Colonoscope           CF-40I         Olympus         Colonoscope           CF-40E-401         Olympus         Colonoscope           CF-FH260AZI         Olympus         Colonoscope           CF-FH260AZI         Olympus         Colonoscope           CF-H180AI <t< td=""><td>CF-100L11, 98</td><td>Olympus</td><td>Colonoscope</td></t<>  | CF-100L11, 98     | Olympus                               | Colonoscope |
| CF-100TL14         Olympus         Colonoscope           CF-130129         Olympus         Colonoscope           CF-130S127, 129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140I.38, 105         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200549         Olympus         Colonoscope           CF-240D156         Olympus         Colonoscope           CF-240L156         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-27160I         Olympus         Colonoscope           CF-27160L         Olympus         Colonoscope           CF-40I         Olympus         Colonoscope           CF-40L22, 34, 105         Olympus         Colonoscope           CF-FH260AZI         Olympus         Colonoscope           CF-H180AI         Olympus         Colonoscope           CF-H180AL         Olympus         Colonoscope           CF-H18  | CF-100S98, 50     | Olympus                               | Colonoscope |
| CF-130I129         Olympus         Colonoscope           CF-30L129         Olympus         Colonoscope           CF-130S127, 129         Olympus         Colonoscope           CF-140I         Olympus         Colonoscope           CF-140L38, 105         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200S49         Olympus         Colonoscope           CF-240DL156         Olympus         Colonoscope           CF-240L499         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-27160I         Olympus         Colonoscope           CF-27160L         Olympus         Colonoscope           CF-40I         Olympus         Colonoscope           CF-FH260AZI         Olympus         Colonoscope           CF-H180AI         Olympus         Colonoscope           CF-H185I         Olympus         Colonoscope           CF-H185I         Olympus         Colonoscope           CF-H190I  | CF-100TI14        | Olympus                               | Colonoscope |
| CF-130L129 Olympus Colonoscope CF-140I Olympus Colonoscope CF-140I Olympus Colonoscope CF-140L38, 105 Olympus Colonoscope CF-140S38 Olympus Colonoscope CF-160ZI Olympus Colonoscope CF-160ZL Olympus Colonoscope CF-200HL Olympus Colonoscope CF-200HL Olympus Colonoscope CF-240DI156 Olympus Colonoscope CF-240DL156 Olympus Colonoscope CF-240DL156 Olympus Colonoscope CF-240H9 Olympus Colonoscope CF-270HQ Olympus Colonoscope CF-27160L Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope   | CF-100TL14        | Olympus                               | Colonoscope |
| CF-130S127, 129  CF-140I  CF-140I  CF-140IS, 105  CF-140S38  CF-140S38  CF-160ZI  CF-160ZL  CF-160ZL  CF-200HL  CF-200HL  CF-200S49  CF-240D156  CF-240D156  CF-240DL156  CF-2 | CF-130I129        | Olympus                               | Colonoscope |
| CF-140I         Olympus         Colonoscope           CF-140L38, 105         Olympus         Colonoscope           CF-140S38         Olympus         Colonoscope           CF-160ZI         Olympus         Colonoscope           CF-160ZL         Olympus         Colonoscope           CF-200HL         Olympus         Colonoscope           CF-200H2         Olympus         Colonoscope           CF-240D156         Olympus         Colonoscope           CF-240L156         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-240L49         Olympus         Colonoscope           CF-2160I         Olympus         Colonoscope           CF-2160L         Olympus         Colonoscope           CF-40I         Olympus         Colonoscope           CF-40L22, 34, 105         Olympus         Colonoscope           CF-FH260AZI         Olympus         Colonoscope           CF-H180AI         Olympus         Colonoscope           CF-H185I         Olympus         Colonoscope           CF-H185L         Olympus         Colonoscope           CF-H190I         Olympus         Colonoscope   | CF-130L129        | Olympus                               | Colonoscope |
| CF-140L38, 105  CF-140S38  Olympus  Colonoscope  CF-160ZI  Olympus  Colonoscope  CF-160ZL  Olympus  Colonoscope  CF-200HL  Olympus  Colonoscope  CF-200S49  Olympus  Colonoscope  CF-240DL156  Olympus  Colonoscope  CF-240L49  Olympus  Colonoscope  CF-240L49  Olympus  Colonoscope  CF-27160I  Olympus  Colonoscope  CF-27160L  Olympus  Colonoscope  CF-27160L  Olympus  Colonoscope  CF-40L22, 34, 105  Olympus  Colonoscope  CF-H1260AZI  Olympus  Colonoscope  CF-H180AL  Olympus  Colonoscope  CF-H180AL  Olympus  Colonoscope  CF-H185I  Olympus  Colonoscope  CF-H185L  Olympus  Colonoscope  CF-H190I  Olympus  Colonoscope  CF-H185L  Olympus  Colonoscope  CF-H190I  Olympus  Colonoscope   | CF-130S127, 129   | Olympus                               | Colonoscope |
| CF-140S38 Olympus Colonoscope CF-160ZI Olympus Colonoscope CF-160ZL Olympus Colonoscope CF-20OHL Olympus Colonoscope CF-20OHL Olympus Colonoscope CF-20OKP Olympus Colonoscope CF-240DI156 Olympus Colonoscope CF-240DL156 Olympus Colonoscope CF-240H9 Olympus Colonoscope CF-240L49 Olympus Colonoscope CF-27160I Olympus Colonoscope CF-27160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-H1260AZI Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope   | CF-140I           | Olympus                               | Colonoscope |
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| CF-160ZL Olympus Colonoscope CF-200HL Olympus Colonoscope CF-200S49 Olympus Colonoscope CF-240DI156 Olympus Colonoscope CF-240DL156 Olympus Colonoscope CF-240I49 Olympus Colonoscope CF-240L49 Olympus Colonoscope CF-27160I Olympus Colonoscope CF-27160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope  | CF-140S38         | Olympus                               | Colonoscope |
| CF-200HL Olympus Colonoscope CF-200S49 Olympus Colonoscope CF-240DI156 Olympus Colonoscope CF-240DL156 Olympus Colonoscope CF-240I49 Olympus Colonoscope CF-240L49 Olympus Colonoscope CF-2T160I Olympus Colonoscope CF-2T160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-FH260AZI Olympus Colonoscope CF-FH260AZI Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope   | CF-160ZI          | Olympus                               | Colonoscope |
| CF-200549OlympusColonoscopeCF-240Dl156OlympusColonoscopeCF-240DL156OlympusColonoscopeCF-240I49OlympusColonoscopeCF-240L49OlympusColonoscopeCF-2T160IOlympusColonoscopeCF-2T160LOlympusColonoscopeCF-40IOlympusColonoscopeCF-40L22, 34, 105OlympusColonoscopeCF-FH260AZIOlympusColonoscopeCF-H180AIOlympusColonoscopeCF-H180ALOlympusColonoscopeCF-H185IOlympusColonoscopeCF-H185LOlympusColonoscopeCF-H190IOlympusColonoscope  | CF-160ZL          | Olympus                               | Colonoscope |
| CF-240Dl156 Olympus Colonoscope CF-240Dl156 Olympus Colonoscope CF-240I49 Olympus Colonoscope CF-240L49 Olympus Colonoscope CF-2T160I Olympus Colonoscope CF-2T160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-H260AZI Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope   | CF-200HL          | Olympus                               | Colonoscope |
| CF-240DL156 CF-240I49 Olympus Colonoscope CF-240L49 Olympus Colonoscope CF-2T160I Olympus Colonoscope CF-2T160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-FH260AZI Olympus Colonoscope CF-FH260AZL Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope  | CF-200S49         | Olympus                               | Colonoscope |
| CF-240I49 Olympus Colonoscope CF-240L49 Olympus Colonoscope CF-2T160I Olympus Colonoscope CF-2T160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-H260AZI Olympus Colonoscope CF-FH260AZL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope   | CF-240DI156       | Olympus                               | Colonoscope |
| CF-240L49 CF-2T160I CF-2T160I CF-2T160L CF-2T160L CF-40I CF-40I CF-40L22, 34, 105 CF-40L22, 34, 105 CF-FH260AZI CF-FH260AZI CF-H180AI CF-H180AL CF-H180AL CF-H185I CF-H185L COlympus Colonoscope CF-H190I COlonoscope  | CF-240DL156       | Olympus                               | Colonoscope |
| CF-2T160I Olympus Colonoscope CF-2T160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-H260AZI Olympus Colonoscope CF-FH260AZL Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope  | CF-240I49         | Olympus                               | Colonoscope |
| CF-2T160L Olympus Colonoscope CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-FH260AZI Olympus Colonoscope CF-FH260AZL Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope  | CF-240L49         | Olympus                               | Colonoscope |
| CF-40I Olympus Colonoscope CF-40L22, 34, 105 Olympus Colonoscope CF-FH260AZI Olympus Colonoscope CF-FH260AZL Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope  | CF-2T160I         | Olympus                               | Colonoscope |
| CF-40L22, 34, 105  CF-FH260AZI  CF-FH260AZL  CF-H180AI  CF-H180AL  CF-H185I  CF-H185L  CF-H190I  Olympus  Colonoscope  COlonoscope  CF-H190I  Colonoscope  Colonoscope  Colonoscope  Colonoscope  Colonoscope  Colonoscope  CF-H185L  Colonoscope  Colonoscope  Colonoscope  Colonoscope  Colonoscope  Colonoscope  Colonoscope  | CF-2T160L         | Olympus                               | Colonoscope |
| CF-FH260AZI CF-FH260AZL Olympus Colonoscope CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope   | CF-40I            | Olympus                               | Colonoscope |
| CF-FH260AZLOlympusColonoscopeCF-H180AIOlympusColonoscopeCF-H180ALOlympusColonoscopeCF-H185IOlympusColonoscopeCF-H185LOlympusColonoscopeCF-H190IOlympusColonoscope  | CF-40L22, 34, 105 | Olympus                               | Colonoscope |
| CF-H180AI Olympus Colonoscope CF-H180AL Olympus Colonoscope CF-H185I Olympus Colonoscope CF-H185L Olympus Colonoscope CF-H190I Olympus Colonoscope   | CF-FH260AZI       | Olympus                               | Colonoscope |
| CF-H180ALOlympusColonoscopeCF-H185IOlympusColonoscopeCF-H185LOlympusColonoscopeCF-H190IOlympusColonoscope  | CF-FH260AZL       | Olympus                               | Colonoscope |
| CF-H185IOlympusColonoscopeCF-H185LOlympusColonoscopeCF-H190IOlympusColonoscope   | CF-H180AI         | Olympus                               | Colonoscope |
| CF-H185L Olympus Colonoscope CF-H190l Olympus Colonoscope  | CF-H180AL         | Olympus                               | Colonoscope |
| CF-H190I Olympus Colonoscope   | CF-H185I          | Olympus                               | Colonoscope |
| · ·  | CF-H185L          | Olympus                               | Colonoscope |
| CF-H190L2 Olympus Colonoscope  | CF-H190I          | Olympus                               | Colonoscope |
|  | CF-H190L2         | Olympus                               | Colonoscope |



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| CF-Q140I        | Olympus | Colonoscope |
| CF-Q140L20, 38  | Olympus | Colonoscope |
| CF-Q145I        | Olympus | Colonoscope |
| CF-Q145L        | Olympus | Colonoscope |
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| CF-Q150L290     | Olympus | Colonoscope |
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| CF-Q160DL       | Olympus | Colonoscope |
| CF-Q160I        | Olympus | Colonoscope |
| CF-Q160L        | Olympus | Colonoscope |
| CF-Q160S        | Olympus | Colonoscope |
| CF-Q165I        | Olympus | Colonoscope |
| CF-Q165L        | Olympus | Colonoscope |
| CF-Q180AI       | Olympus | Colonoscope |
| CF-Q180AL       | Olympus | Colonoscope |
| CF-Q240I49      | Olympus | Colonoscope |
| CF-Q240L49      | Olympus | Colonoscope |
| CF-Q240ZI49     | Olympus | Colonoscope |
| CF-Q240ZL49     | Olympus | Colonoscope |
| CF-Q260AL       | Olympus | Colonoscope |
| CF-Q260DI158    | Olympus | Colonoscope |
| CF-Q260DL158    | Olympus | Colonoscope |
| CF-V70I183, 184 | Olympus | Colonoscope |
| CF-V70L183, 184 | Olympus | Colonoscope |
| CF-VI           | Olympus | Colonoscope |
| CF-VL           | Olympus | Colonoscope |
| PCF-100127      | Olympus | Colonoscope |
| PCF-130I84      | Olympus | Colonoscope |
| PCF-130L84, 129 | Olympus | Colonoscope |
| PCF-140I38, 105 | Olympus | Colonoscope |
| PCF-140L38      | Olympus | Colonoscope |
| PCF-240I49      | Olympus | Colonoscope |
| PCF-240L49      | Olympus | Colonoscope |
| PCF-240S49      | Olympus | Colonoscope |
| PCF-H180AI      | Olympus | Colonoscope |
| PCF-H180AL      | Olympus | Colonoscope |









| PCF-H190DI    | Olympus | Colonoscope |
|---------------|---------|-------------|
| PCF-H190DL    | Olympus | Colonoscope |
| PCF-H190I     | Olympus | Colonoscope |
| PCF-H190L     | Olympus | Colonoscope |
| PCF-PH190I    | Olympus | Colonoscope |
| PCF-PH190L    | Olympus | Colonoscope |
| PCF-PQ260I293 | Olympus | Colonoscope |
| PCF-PQ260L293 | Olympus | Colonoscope |
| PCF-Q160AI    | Olympus | Colonoscope |
| PCF-Q160AL    | Olympus | Colonoscope |
| PCF-Q180Al205 | Olympus | Colonoscope |
| PCF-Q180AL    | Olympus | Colonoscope |
| PCF-Q260JI293 | Olympus | Colonoscope |
| PCF-Q260JL293 | Olympus | Colonoscope |

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| GF-UM240             | Olympus | Gastro      |
| GF-UE160-AL5         | Olympus | Gastro      |
| GF-UMQ240            | Olympus | Gastro      |
| GF-UM2000            | Olympus | Gastro      |
| GIF-100              | Olympus | Gastro      |
| GIF-130              | Olympus | Gastro      |
| GIF-14038, 105       | Olympus | Gastro      |
| GIF-145              | Olympus | Gastro      |
| GIF-160              | Olympus | Gastro      |
| GIF-1T10098          | Olympus | Gastro      |
| GIF-1T130128         | Olympus | Gastro      |
| GIF-1T140            | Olympus | Gastro      |
| GIF-1T160            | Olympus | Gastro      |
| GIF-1T2098, 122      | Olympus | Gastro      |
| GIF-1T3035           | Olympus | Gastro      |
| GIF-1TH190           | Olympus | Gastro      |
| GIF-1TQ160           | Olympus | Gastro      |
| GIF-2T100            | Olympus | Gastro      |
| GIF-2T160            | Olympus | Gastro      |
| GIF-2T200243         | Olympus | Gastro      |



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| GIF-2T1480        | Olympus   | Gastro |
| GIF-2TH180        | Olympus   | Gastro |
| GIF-E             | Olympus   | Gastro |
| GIF-E3            | Olympus   | Gastro |
| GIF-FQ260         | Olympus   | Gastro |
| GIF-FQ260Z        | Olympus   | Gastro |
| GIF-H180          | Olympus   | Gastro |
| GIF-H180J         | Olympus   | Gastro |
| GIF-H185          | Olympus   | Gastro |
| GIF-H190          | Olympus   | Gastro |
| GIF-H260158       | Olympus   | Gastro |
| GIF-H260Z293      | Olympus   | Gastro |
| GIF-H290297       | Olympus   | Gastro |
| GIF-HQ190         | Olympus   | Gastro |
| GIF-HQ290297      | Olympus   | Gastro |
| GIF-PQ20          | Olympus   | Gastro |
| GIF-Q10           | Olympus   | Gastro |
| GIF-Q140          | Olympus   | Gastro |
| GIF-Q145          | Olympus   | Gastro |
| GIF-Q150290       | Olympus   | Gastro |
| GIF-Q160          | Olympus   | Gastro |
| GIF-Q160Z         | Olympus   | Gastro |
| GIF-Q165          | Olympus   | Gastro |
| GIF-Q180          | Olympus   | Gastro |
| GIF-Q200155       | Olympus   | Gastro |
| GIF-Q2031, 98     | Olympus   | Gastro |
| GIF-Q260158       | Olympus   | Gastro |
| GIF-Q260J293      | Olympus   | Gastro |
| GIF-Q30122        | Olympus   | Gastro |
| GIF-Q4034         | Olympus   | Gastro |
| GIF-V2125         | Olympus   | Gastro |
| GIF-V43           | Olympus   | Gastro |
| GIF-V70183, 184   | Olympus   | Gastro |
| GIF-XQ10          | Olympus   | Gastro |
| GIF-XQ140         | Olympus   | Gastro |
| GIF-XQ20          | Olympus   | Gastro |
| GIF-XQ260158      | Olympus   | Gastro |
| GIF-XQ30          | Olympus   | Gastro |
| GIF-XQ4034        | Olympus   | Gastro |
| GIF-XT30          | Olympus   | Gastro |
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| OLYMPUS DUODENOSCOPES |              |         |
|-----------------------|--------------|---------|
| Name                  | Brand Series | Туре    |
| PJF-16                | Olympus      | Duodeno |
| PJF-160               | Olympus      | Duodeno |
| PJF-240               | Olympus      | Duodeno |
| TJF-140               | Olympus      | Duodeno |
| TJF-140F              | Olympus      | Duodeno |
| TJF-140R              | Olympus      | Duodeno |
| TJF-145               | Olympus      | Duodeno |
| TJF-160F              | Olympus      | Duodeno |
| TJF-160R              | Olympus      | Duodeno |
| TJF-160VF             | Olympus      | Duodeno |
| TJF-160VR             | Olympus      | Duodeno |
| TJF-240               | Olympus      | Duodeno |
| TJF-260V              | Olympus      | Duodeno |
| JF-140                | Olympus      | Duodeno |
| JF-140F               | Olympus      | Duodeno |
| JF-1T40               | Olympus      | Duodeno |
| JF-240                | Olympus      | Duodeno |
| TJF-Q180V             | Olympus      | Duodeno |
| TJF-Q180V             | Olympus      | Duodeno |

| OLYMPUS BRONCHOSCOPES |              |        |
|-----------------------|--------------|--------|
| Name                  | Brand Series | Туре   |
| BF-30                 | Olympus      | Bronco |
| BF-40                 | Olympus      | Bronco |
| BF-140                | Olympus      | Bronco |
| BF-160                | Olympus      | Bronco |
| BF-180                | Olympus      | Bronco |
| BF-200                | Olympus      | Bronco |
| BF-240                | Olympus      | Bronco |
| BF-240AWY1            | Olympus      | Bronco |
| BF-260                | Olympus      | Bronco |
| BF-6C240              | Olympus      | Bronco |
| BF-6C260              | Olympus      | Bronco |
| BF-MP160              | Olympus      | Bronco |
| BF-MP160F             | Olympus      | Bronco |
| BF-MP60               | Olympus      | Bronco |

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| BF-P30     | Olympus | Bronco |
|------------|---------|--------|
| BF-P40     | Olympus | Bronco |
| BF-P60     | Olympus | Bronco |
| BF-P150    | Olympus | Bronco |
| BF-P160    | Olympus | Bronco |
| BF-P180    | Olympus | Bronco |
| BF-P190    | Olympus | Bronco |
| BF-P200    | Olympus | Bronco |
| BF-P240    | Olympus | Bronco |
| BF-P290    | Olympus | Bronco |
| BF-Q180-AC | Olympus | Bronco |
| BF-Q190    | Olympus | Bronco |
| BF-TE2     | Olympus | Bronco |
| BF-XP160   | Olympus | Bronco |
| BF-1T30    | Olympus | Bronco |
| BF-1T30D   | Olympus | Bronco |
| BF-1T40    | Olympus | Bronco |
| BF-1T180   | Olympus | Bronco |
| BF-1TQ180  | Olympus | Bronco |
| BF-1T200   | Olympus | Bronco |
| BF-1T240   | Olympus | Bronco |
| BF-1T260   | Olympus | Bronco |
| BF-Q180    | Olympus | Bronco |
| BF-XT30    | Olympus | Bronco |
| BF-F260    | Olympus | Bronco |
| BF-H190    | Olympus | Bronco |
| BF-XP190   | Olympus | Bronco |
| BF-1TH190  | Olympus | Bronco |
| BF-P260F   | Olympus | Bronco |
| ENF-VT     | Olympus | Bronco |
| ENF-VT2    | Olympus | Bronco |
| LTF-160    | Olympus | Bronco |
| LTF-240    | Olympus | Bronco |
| MAF-TM     | Olympus | Bronco |
|            |         |        |

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| Name                         | Brand  | Series | Туре        |
|------------------------------|--------|--------|-------------|
| EC-3801F <sup>76, 115</sup>  | Pentax | 3800   | Colonoscope |
| EC-3801F2 <sup>76, 115</sup> | Pentax | 3800   | Colonoscope |



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| EC-3801M <sup>76, 115</sup>     | Pentax | 3800 | Colonoscope |
|---------------------------------|--------|------|-------------|
| EC-3801M2 <sup>76, 115</sup>    | Pentax | 3800 | Colonoscope |
| EC-3801S2 <sup>76, 115</sup>    | Pentax | 3800 | Colonoscope |
| FC-38FW <sup>111</sup>          | Pentax | W    | Colonoscope |
| FC-38FW2 <sup>111, 140</sup>    | Pentax | W    | Colonoscope |
| FC-38MW <sup>111</sup>          | Pentax | W    | Colonoscope |
| FC-38MW2 <sup>288</sup>         | Pentax | W    | Colonoscope |
| FC-38SW2 <sup>140</sup>         | Pentax | W    | Colonoscope |
| FC-38FV <sup>60, 66, 111</sup>  | Pentax | V    | Colonoscope |
| EC-3830F <sup>64, 67, 72</sup>  | Pentax | 30   | Colonoscope |
| EC-3830F2 <sup>64, 67</sup>     | Pentax |      | Colonoscope |
| EC-3830M <sup>64, 67, 72</sup>  | Pentax |      | Colonoscope |
| EC-3830M2 <sup>64, 67, 72</sup> | Pentax |      | Colonoscope |
| EC-3831F <sup>145</sup>         | Pentax |      | Colonoscope |
| EC-3830FK                       | Pentax | 30K  | Colonoscope |
| EC-3831FK <sup>127</sup>        | Pentax | 30K  | Colonoscope |
| EC-3840F                        | Pentax | 40   | Colonoscope |
| EC-3840FK                       | Pentax | 40K  | Colonoscope |
| EC-3840TFK                      | Pentax | 40K  | Colonoscope |
| EC-3470FK <sup>169</sup>        | Pentax | 70K  | Colonoscope |
| EC-3470MK <sup>169</sup>        | Pentax | 70K  | Colonoscope |
| EC-3870FK                       | Pentax | 70K  | Colonoscope |
| EC-3870MK <sup>169</sup>        | Pentax | 70K  | Colonoscope |
| EC-3870FZK                      | Pentax | 70K  | Colonoscope |
| EC-3880FK                       | Pentax | 80K  | Colonoscope |
| EC-3880FK2                      | Pentax | 80K  | Colonoscope |
| EC-3880MK <sup>169</sup>        | Pentax | 80K  | Colonoscope |
| EC-3880MK2                      | Pentax | 80K  | Colonoscope |
| EC-3885F <sup>169</sup>         | Pentax | 85   | Colonoscope |
| EC-3885F2 <sup>169</sup>        | Pentax | 85   | Colonoscope |
| EC-3885M2 <sup>169</sup>        | Pentax | 85   | Colonoscope |
| EC-3885S2 <sup>169</sup>        | Pentax | 85   | Colonoscope |
| EC-3885FK                       | Pentax | 85K  | Colonoscope |
| EC-3885FK2                      | Pentax | 85K  | Colonoscope |
| EC-3885MK <sup>169</sup>        | Pentax | 85K  | Colonoscope |
| EC-3885MK2 <sup>169</sup>       | Pentax | 85K  | Colonoscope |
| EC-3885SK2 <sup>169</sup>       | Pentax | 85K  | Colonoscope |
| EC-3885TFK                      | Pentax | 85K  | Colonoscope |



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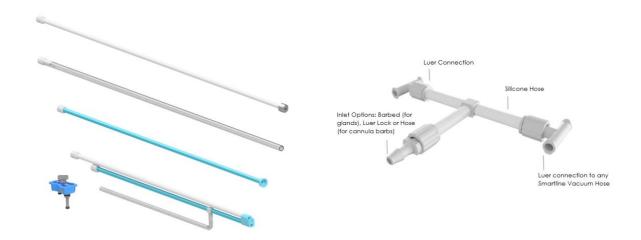
| EC-3885TMK <sup>169</sup> | Pentax | 85K | Colonoscope |
|---------------------------|--------|-----|-------------|
| EC-201WM                  | Pentax | 201 | Colonoscope |

# **FUJINON SCOPES**

| Name                            | Brand   | Series | Туре        |
|---------------------------------|---------|--------|-------------|
| EC-450ZW5/M                     | Fujinon | 450    | Colonoscope |
| EC-490ZW5/M <sup>262, 264</sup> | Fujinon | 490    | Colonoscope |
| EC-250WM5                       | Fujinon | 250    | Colonoscope |
| EC-450WM5                       | Fujinon | 450    | Colonoscope |
| EC-530FM                        | Fujinon | 530    | Colonoscope |
| EC-530MT <sup>293</sup>         | Fujinon | 530    | Colonoscope |
| EC-530WM                        | Fujinon | 530    | Colonoscope |
| EC-530WTM <sup>263</sup>        | Fujinon | 530    | Colonoscope |
| EC-590WM                        | Fujinon | 590    | Colonoscope |
| EC-590ZW/M                      | Fujinon | 590    | Colonoscope |
| EC-250DM5                       | Fujinon | 250    | Colonoscope |
| EC-450DM5                       | Fujinon | 450    | Colonoscope |
| EC-530DM                        | Fujinon | 530    | Colonoscope |
| EC-450WM                        | Fujinon | 450    | Colonoscope |
| EC-530WM3                       | Fujinon |        | Colonoscope |
| EC-530MWM3                      | Fujinon |        | Colonoscope |
| EC-590WM4                       | Fujinon | 590    | Colonoscope |
| EC-590ZW3M                      | Fujinon | 590    | Colonoscope |



# ANNEX B - INSTRUCTIONS FOR USE — ENDOSCOPE HOSE KIT CLEANING



Olympus Endoscope Vacuum Hose Kit (09.HK-OL) Washer rack Hose Connection Kit (09.SC-WRHKC)

Note: applicable to other scope brand variants also – Endoscope Vacuum Hose Kits join Endoscopes to the RotaScope or SlidaScope Drying Cabinet airflow system

High-level disinfection of each hose connector should be undertaken weekly (during the cabinet cleaning cycle).

Cleaning may be Manual or Automated and can also be autoclaved to gain shelf life.

Below is the minimum requirement to ensure hoses are in a satisfactory condition to provide a clean connection between the endoscope and the cabinet.

During Weekly Cleaning, please reference the following instructions and modify where required, to suit the equipment available to the department.

Smartline have created a modular accessory called a "Washer Rack Vacuum Hose Connection Kit", that can be utilised during the cleaning process.



### **MANUAL CLEANING**

### **RECOMMENDED STEPS:**

- 1. Prepare appropriate amount of cleaning solution (biofilm remover or enzymatic detergent solution) in a sink, as per the manufacturer's instructions.
- 2. Remove hose/s to be cleaned from cabinet and place in sink.
- 3. Make sure the hoses remain fully immersed throughout the cleaning process.
- 4. Use a small soft brush to clean the connectors at each end of the hose.
- 5. Wipe exterior surfaces of hoses with a nonabrasive and lint free cloth.
- 6. Check that all visible debris have been removed.
- 7. Attach hoses to a Washer Rack Hose Connection Kit.
- 8. Use a syringe to push fresh solution through hoses and then flush out. Repeat a minimum of two more times, do not flush out on last action.
- 9. Achieve contact time with hoses submerged for the appropriate timeframe outlined in the chosen cleaning solution IFU.
- 10. Purge cleaning solution from channels while fully immersed.
- 11. Repeat steps 7-10 until all hoses have been flushed and purged.
- 12. Discard cleaning solution.
- 13. Use a syringe to push fresh water through hoses to remove all cleaning solution.
- 14. Thoroughly wash exterior of all hoses with fresh water to remove all traces of cleaning solution.
- 15. Remove hoses from sink and hold in a vertical position to allow water to drain out. Use a syringe or medical air supplied air gun to purge any remaining water from the inside of the hose.
  - a. Dry in a drying cabinet where possible.
  - b. Dry with medical grade air where possible.
- 16. Remove hoses from the Washer Rack Hose Connection Kit.
- 17. Hang hoses back inside endoscope cabinet connected to forced air for additional drying.



### **BATCH WASHERS**

or

### **RECOMMENDED STEPS:**

- 1. Attach hoses to a Washer Rack Hose Connection Kit and attach to a washer rack.
  - a. Insert barb by inserting it into a rubber grommet
  - b. or remove barb and utilise luer fitting onto suitable washer rack luer connection
  - c. or remove luer fitting slip hose over a suitable injector barb on washer rack
- 2. Connect the male luer ends of the **Endoscope Vacuum Hose Kit** to a washer rack for cannulated items.
- 3. Run the washer on an appropriate setting for model and chemicals used.
- 4. Remove hoses from washer rack and hold in a vertical position to allow water to drain out. Use a syringe or medical air supplied air gun to purge any remaining water from the inside of the hoses.
  - a. Dry in a drying cabinet where possible.
  - b. Dry with medical grade air where possible.
- 5. Remove hoses from the Washer Rack Hose Connection Kit.
- 6. Hang hoses back inside endoscope cabinet connected to forced air for additional drying.

### STERILISING FOR STERILE STORAGE

### **RECOMMENDED STEPS:**

After Manual or Automated disinfection of the hose kits, it is at times efficient to sterilise the hose kit for external storage, this especially applies to sites that use a secondary hose kit (Swap out hose kit for cleaning). By doing this you can achieve 7 days or more storage prior to use in the cabinet.

### **RECOMMENDED STEPS:**

- 1. Take disinfected and dried hoses from cleaning area or drying cabinet.
- 2. Add hoses individually or in appropriate groups into a steripeel bag or on a tray and wrapped in sterilization wrap (AKA Kimguard).
- 3. Put into steriliser on a suitable cycle that does not exceed 121°C.
- 4. At completion of cycle, remove from the steriliser and store in an appropriate storage environment (sterile storeroom).
- 5. When required, hoses can be removed from sterile packaging and hung directly into the cabinet.
- 6. Note: Regular sterilisation of **Endoscope Vacuum Hose Kits** may have a detrimental effect on the materials and replacement may be required.