

# AORt

TECHNICAL SPECIFICATIONS

*endoCleaner*

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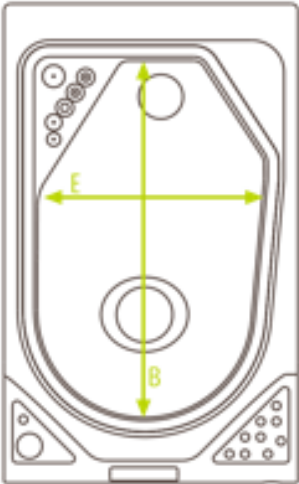
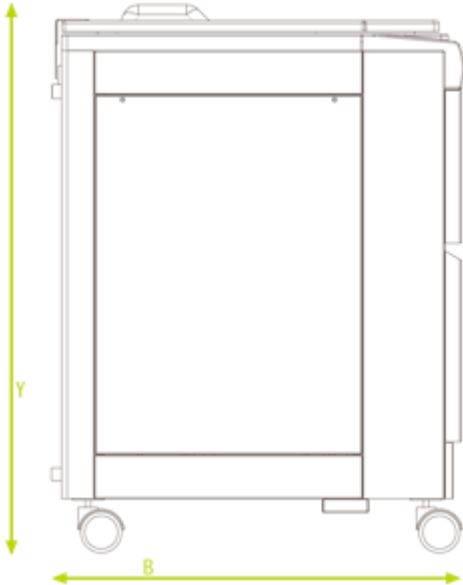
## ENDOCLEANER TECHNICAL SPECIFICATIONS

|   |                                 |                                                                                                                                               | EC-411 | EC-711 |
|---|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| 1 | Endoscope compatibility         | Olympus                                                                                                                                       | Yes    | Yes    |
|   |                                 | Pentax                                                                                                                                        | Yes    | Yes    |
|   |                                 | Fujinon                                                                                                                                       | Yes    | Yes    |
|   |                                 | Storz                                                                                                                                         | Yes    | Yes    |
|   |                                 | Other flexible endoscopes                                                                                                                     | Yes    | Yes    |
| 2 | Disinfectants used              | Nonfoaming disinfectants                                                                                                                      | Yes    | Yes    |
|   |                                 | Concentrated disinfectant                                                                                                                     | Yes    | Yes    |
|   |                                 | Ready to use disinfectant                                                                                                                     | Yes    | Yes    |
|   |                                 | Single use disinfectant                                                                                                                       | Yes    | Yes    |
|   |                                 | Disinfectant activator using by water                                                                                                         | OP     | OP     |
| 3 | Programing and mesagging screen | Touch screen colour LCD                                                                                                                       | Yes    | Yes    |
|   |                                 | User coding system                                                                                                                            | Yes    | Yes    |
|   |                                 | Language selectable warning screen (TR-ENG)                                                                                                   | Yes    | Yes    |
| 4 | Washing and disinfecting steps  | Pre-cleaning (with water)                                                                                                                     | Yes    | Yes    |
|   |                                 | Enzymatic / detergent washing                                                                                                                 | Yes    | Yes    |
|   |                                 | Enzymatic rinsing (with water)                                                                                                                | Yes    | Yes    |
|   |                                 | Disinfection                                                                                                                                  | Yes    | Yes    |
|   |                                 | Disinfection rinsing (with water)                                                                                                             | Yes    | Yes    |
|   |                                 | Alcohol                                                                                                                                       | OP     | OP     |
|   |                                 | Air                                                                                                                                           |        |        |
|   |                                 | The washing and disinfecting steps are configurable in terms of cycle duration and the number of repetitions, depending on user requirements. | Yes    | Yes    |
| 5 | Leakage test                    | By air                                                                                                                                        | Yes    | Yes    |
|   |                                 | By air and water                                                                                                                              | Yes    | Yes    |
|   |                                 | Full automatic (Viisual and voice warning)                                                                                                    | Yes    | Yes    |
|   |                                 | Leak test connection is different from other channel connections                                                                              | Yes    | Yes    |
|   |                                 | Connection inside the basin                                                                                                                   | Yes    | Yes    |
|   |                                 | During the whole process                                                                                                                      |        |        |
|   |                                 | By applying 0.20-0.45 mbar air pressure                                                                                                       | Yes    | Yes    |
| 6 | Concentrated liquits used       | Enzymatic                                                                                                                                     | Yes    | Yes    |
|   |                                 | Concentrated disinfectant                                                                                                                     | OP     | OP     |
| 7 | Dosing concentrated liquids     | 0-999 ml                                                                                                                                      | OP     | OP     |
|   |                                 | 0-500 ml                                                                                                                                      | Yes    | Yes    |
|   |                                 | 0-100ml                                                                                                                                       | OP     | OP     |
|   |                                 | 0-n (specially adjustable)                                                                                                                    | Yes    | Yes    |

|    |                                            |                                                    |     |     |
|----|--------------------------------------------|----------------------------------------------------|-----|-----|
| 8  | Channel Connections                        | 2-4 connections                                    | Yes | Yes |
|    |                                            | 2-6 connections                                    | OP  | OP  |
|    |                                            | 2-8 connections                                    | OP  | OP  |
|    |                                            | 2-10 connections                                   | OP  | OP  |
| 9  | Number of scopes                           | 1 scope                                            | Yes | Yes |
|    |                                            | 2 scope                                            | OP  | OP  |
| 10 | Traceability                               | Personnel recognition with RFID                    | Yes | Yes |
|    |                                            | Endoscope recognition with RFID                    | Yes | Yes |
| 11 | Kind of programs                           | 15 washing program (F1....F15 automatic)           | Yes | Yes |
|    |                                            | Manuel washing program                             | Yes | Yes |
|    |                                            | Self disinfection program                          | Yes | Yes |
|    |                                            | Automatic disinfectant tank disinfection program   | Yes | Yes |
|    |                                            | Automatic basin disinfection program               | Yes | Yes |
| 12 | Liquids passing through channels (lt/min)  | 2,5                                                | OP  | OP  |
|    |                                            | 3                                                  | OP  | OP  |
|    |                                            | 3,2                                                | Yes | Yes |
| 13 | Air passing through channels               | 1,5 (lt/5sec)                                      | OP  | OP  |
|    |                                            | 2 (lt/5sec)                                        | OP  | OP  |
|    |                                            | 2,5 (lt/5sec)                                      | Yes | Yes |
|    |                                            | Drying                                             | Yes | Yes |
|    |                                            | Hepafilter                                         | Yes | Yes |
| 14 | Number of disinfectant tank                | Disinfectant tank A (1 tank)                       | Yes | Yes |
|    |                                            | Disinfectant tank A and B (2 tank)                 | OP  | OP  |
| 15 | Capacity of disinfectant tank              | 3-15 lt                                            | Yes | Yes |
|    |                                            | 3-20 lt                                            | OP  | OP  |
| 16 | Capacity of water tank                     | 3-15 lt                                            | Yes | Yes |
|    |                                            | 3-20 lt                                            | OP  | OP  |
| 17 | Capacity of concentrated disinfectant tank | 1-3 lt                                             | Yes | Yes |
|    |                                            | 1-5 lt.                                            | OP  | OP  |
|    |                                            | 1-7 lt.                                            | OP  | OP  |
|    |                                            | Different colored lid                              | Yes | Yes |
| 18 | UV Lamp                                    | 1 lamp                                             | Yes | Yes |
|    |                                            | 2 lamps                                            | OP  | OP  |
|    |                                            | Hour meter for UV lamp (Visual and voice warning ) | Yes | Yes |
| 19 | Liquid level indicators                    | Digitally LCD                                      | Yes | Yes |
| 20 | Waste channels                             | 1 for all liquids                                  | Yes | Yes |
|    |                                            | 1 for only chemicals                               | OP  | OP  |
| 21 | Heater                                     | Disinfectant A (4-65°C)                            | OP  | OP  |

|    |                     |                                             |     |     |
|----|---------------------|---------------------------------------------|-----|-----|
|    |                     | Disinfectant B (4-65°C)                     | OP  | OP  |
|    |                     | Water (4-65°C)                              | OP  | OP  |
| 22 | Power               | AC 220/230V 50/60Hz 100W                    | Yes | Yes |
|    |                     | AC 220/230V 50/60Hz 500W                    | OP  | OP  |
|    |                     | AC 220/230V 50/60Hz 1000W                   | OP  | OP  |
|    |                     | AC 220/230V 50/60Hz 150W                    | OP  | OP  |
| 23 | Voltage Protection  | Siemens Relay for current leakage           | Yes | Yes |
| 24 | Weight              | 80-100 kg                                   | Yes | Yes |
| 25 | Dimensions          | 45 x 75 x 101 cm                            | Yes | Yes |
| 26 | Printer             | Thermal                                     | Yes | Yes |
|    |                     | Dot matrix                                  | OP  | OP  |
|    |                     | All the datas are printable                 | Yes | Yes |
| 27 | Data connections    | RJ-45 Network                               | OP  | OP  |
|    |                     | RS-232 Serial Port                          | OP  | OP  |
|    |                     | RS-485                                      | Yes | Yes |
|    |                     | Wireless                                    | OP  | OP  |
|    |                     | RF                                          | OP  | OP  |
|    |                     | USB                                         | OP  | OP  |
|    |                     | GPRS                                        | OP  | OP  |
|    |                     | All the datas are convertable for computers | Yes | Yes |
| 28 | Data record systems | Process date and time                       | Yes | Yes |
|    |                     | Process sequence number                     | Yes | Yes |
|    |                     | Process number                              | Yes | Yes |
|    |                     | Personnel data                              | Yes | Yes |
|    |                     | Scope data                                  | Yes | Yes |
|    |                     | Process duration                            | Yes | Yes |
|    |                     | Process result                              | Yes | Yes |
| 29 | Basin               | 1-8 injection system                        | Yes | Yes |
|    |                     | 360° sprinkler system                       | Yes | Yes |
| 30 | Wheels              | 4 lockable wheels                           | Yes | Yes |
| 31 | Top cover           | Silicon seal                                | Yes | Yes |
| 32 | Entegration         | MedGate MIP                                 | OP  | OP  |
|    |                     | HIS                                         | OP  | OP  |
|    |                     | XML                                         | OP  | OP  |
| 33 | Water filtration    | 0.2 micron string or spun                   | OP  | OP  |
|    |                     | 1 micron string or spun                     | Yes | Yes |
|    |                     | 5 micron string or spun                     | Yes | Yes |
|    |                     | Carbon                                      | OP  | OP  |

|    |                                                                            | The other cartridge filters                                                         | OP  | OP  |
|----|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|
| 34 | <b>Biopsy channel connectors<br/>(only one for one brand is standard)</b>  | GZD-44 (For Olympus)                                                                | Yes | Yes |
|    |                                                                            | EC-1102 (For Pentax)                                                                | Yes | Yes |
|    |                                                                            | KML-44 (For Fujinon)                                                                | Yes | Yes |
|    |                                                                            | ODW-29 (For Storz)                                                                  | Yes | Yes |
| 35 | <b>Aspiration Connection Pipe<br/>(only one for one brand is standard)</b> | Olympus                                                                             | Yes | Yes |
|    |                                                                            | Pentax                                                                              | Yes | Yes |
|    |                                                                            | Fujinon                                                                             | Yes | Yes |
|    |                                                                            | Storz                                                                               | Yes | Yes |
| 36 | <b>Handle Connectors<br/>(only one for one brand is standard)</b>          | OK-19 (For Olympus)                                                                 | Yes | Yes |
|    |                                                                            | PK-19 (For Pentax)                                                                  | Yes | Yes |
|    |                                                                            | FJ-21 (For Fujinon)                                                                 | Yes | Yes |
|    |                                                                            | OK-22 (For Storz)                                                                   | Yes | Yes |
| 37 | <b>Neutralization System</b>                                               | Neutralization program                                                              | Yes | Yes |
|    |                                                                            | Cap for glycine                                                                     | OP  | OP  |
|    |                                                                            | Cap for sodium bisulfate                                                            | OP  | OP  |
| 38 | <b>Disinfection types</b>                                                  | Endoscope outer surface                                                             | Yes | Yes |
|    |                                                                            | Endoscope channels(Continuous disinfection circulation during disinfection)         | Yes | Yes |
|    |                                                                            | Top surface of sprinkle in basin                                                    | Yes | Yes |
|    |                                                                            | Base of taps in basin                                                               | Yes | Yes |
|    |                                                                            | All the connectors in basin                                                         | Yes | Yes |
|    |                                                                            | Disinfection tank                                                                   | Yes | Yes |
|    |                                                                            | Water Tank                                                                          | Yes | Yes |
| 39 | <b>Basin</b>                                                               | Acrylic                                                                             | Yes | Yes |
|    |                                                                            | Stainless steel                                                                     | OP  | OP  |
| 40 | <b>High-tech functions</b>                                                 | Audible and visual warning in case of blockage in the basin microfilter             | Yes | Yes |
|    |                                                                            | Audible and visual warning in case of blockage in the disinfectant tank microfilter | Yes | Yes |
|    |                                                                            | Cover sensor                                                                        | OP  | OP  |
|    |                                                                            | Cover lock                                                                          | OP  | OP  |
|    |                                                                            | Hepa filter                                                                         | Yes | Yes |
|    |                                                                            | Measurement of the amount of liquid passing through the channel                     | OP  | Yes |
|    |                                                                            | Open cover with foot pedal                                                          | OP  | OP  |
|    |                                                                            | Color LCD                                                                           | Yes | Yes |
|    |                                                                            | Endomonitorizing                                                                    | Yes | Yes |
|    |                                                                            | Channel monitoring                                                                  | OP  | Yes |
|    |                                                                            | Double water inlet for temperature control                                          | OP  | OP  |
|    |                                                                            | Disinfectant performance test strip area                                            | OP  | OP  |
|    |                                                                            | On GPRS, trouble and maintenance warnings                                           | Yes | Yes |

|    |                                  |                                                                                     |              |
|----|----------------------------------|-------------------------------------------------------------------------------------|--------------|
| 41 | Top View Dimensions of the Basin |   | 340 x 540 mm |
| 42 | Side View Dimensions             |  | 75 x 101 mm  |
| 43 | Front View Dimensions            |  | 45 x 101 mm  |