

Coral Washers



Infection Control





Monitoring of the cleaning and hygiene process

Cleaning efficacy is traditionally done by visual inspection but this has only limited value and should be used only as the first stage in an integrated monitoring programme. Health care providers are increasingly turning to process challenge devices and rapid hygiene monitoring techniques. AS/NZS 4187:2003 emphasizes reducing the risks of infection transmission and cross contamination. Part of this reduction process offers guidance on monitoring the every-day procedures undertaken.

- Monitoring the cleaning efficiency of all types of washer and the cleanliness of the washed instruments
- Monitoring the inner surface of washes to ensure that they are not harboring microorganism that may contaminate a load

There are products available that make this task easier. The products provide a scientific means of assessing cleaning, cleanliness and the efficiency of certain procedures. Aside from cleaning being important in its own right, sterilization cannot be achieved if the item cannot be cleaned. To check the cleaning power, test objects with defined test soil are required. The most stubborn soil on surgical instruments and the one which is hardest to remove is normally coagulated blood. Assessing the cleanliness of items provides proof of due diligence and also peace of mind.

Monitoring of Cleaning Efficiency

This is done via a pre-prepared test giving efficient repeatable results with a test soil correlated to human blood. The test simulates coagulated blood and has a transparent cover to enable a visual check on the result. Challenge devices are available for washers, ultrasonic cleaners, rigid and flexible scope washers.

Hygiene Monitoring

It is a way of validating the cleaning process. Hygiene monitoring provides a simple, rapid and proactive means to assess the cleaning regime. The cleaning process can be monitored directly using swabs, where surfaces are accessible, or by testing final rinse water when surfaces are inaccessible. Depending upon your requirements, tests are available for (1) residual protein detection and (2) organic contamination of surfaces and water.

Progression to Effective Monitoring Control

To apply a qualified and efficient disinfection and sterilization process it is necessary to respect a proven reproducible and traceable procedure:

1. Eliminate soil and bacterial mass by efficient cleaning and bio-cleansing. (Pre-disinfection)
 - Ensure Water Quality
 - Select correct Cleaning agent
 - Inspection – Visual and/or Soil test.
2. Disinfection scrupulously ensuring contact time and water temperature.
3. Sterilization of the device/load following a proven monitored procedure.
 - Correct cycle selection
 - Ensure correct wrapping and loading
 - Monitor operational performance
4. Ensure sterile integrity and store in sterile conditions.
5. Document, trace and control the validity of the operation and procedure.
 - Data logging of sterilization performance parameters
 - Tracking and trace ability of load

Coral Washers

Instruments, Glassware and Plastic Holloware are a major asset and represent a significant share of the total capital spending of a Health Care provider or Laboratory. Preparation processes are increasingly subject to legislation with a worldwide harmonization of these legal provisions and standards.

Three major factors impact the decision making process for the Health Care providers when providing services with the risk of infection to the patient.

These are:

- i) the capital investment in instruments and Infection Control Equipment.
- ii) the availability and return on these investments and
- iii) limiting risk and liability.

Apart from value retention of the instruments, prevention of health risks to staff and patients must be the highest priority.

Laboratory practitioners are subjected to similar requirements when cleaning glassware and laboratory devices.

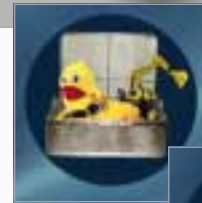
Manual cleaning carries a high risk of injury and cross infection to staff due to sharps injury, the creation of aerosols of patient debris and because of the increasing occurrence of multi-resistant germs. It is also difficult to ensure the effectiveness of manual cleaning as the cleaning action and cleaning agent varies with every manual cleaning event. Moreover, staff cannot be asked to work with disinfectants which are injurious to health, even when masks and protective clothing are worn.

The most important reason, however, is that manual cleaning and disinfecting may not achieve the required level for full protection of patients. Absolute reliability in the cleaning, sanitation and disinfection of wash goods is of great significance for safe working procedures.

Automated pre-sterilization cleaning has been the choice of most Health Care providers and Laboratory practitioners. **If it is not clean, it cannot be sanitized, disinfected or sterilized with any certainty.**

Washer sanitizers and disinfectors for medical and laboratory purposes have a rinse and washing cycle for removing debris and a disinfection cycle that raises the temperature to the predetermined temperature that will destroy vegetative Micro-organisms.

The innovative multifunctional "CORAL" is the ideal solution for decentralised Sanitization and Disinfection needs. Designed as a self sufficient free-standing model, the Washer Sanitizer, Disinfector or Instrument Washer is suitable for most load applications and it's compact footprint makes it fit anywhere especially under counters.



Guaranteed Cleaning Reliability

Instrument Washer

Coral Instrument washer disinfector



- The CORAL instrument washer is ideal for use in small sterile service departments as a primary washer and also useful in larger departments as a secondary resource for busier days.
- Automated washing is the logical progression from manual washing and the CORAL is a simple to use introductory machine at a competitive price.
- It also has a place in busy veterinary surgeries and small private practices where manual washing is seen as an infection control issue.
- The rack insert is designed to hold 6 instrument trays with the spray arms designed for maximum washing coverage.
- The spray system has been thoroughly tested using the world leading cleaning monitoring test, TOSI (manufactured by Pereg GmbH).
- The machine is designed to dose both a detergent and rinse aid - these are automatically dosed from external containers for ease of access.
- Installation is relatively simple with fully flexible hoses for ease of connection to water outlet, power supply and detergents.
- The controls are angled for easy viewing with a bright two line fluorescent display.
- The controller is also fully configurable so that any time / temperature requirements can be met. It is easy to operate and all instructions are detailed in the accompanying manual.
- The design of the machine is front loading with a slide out rack so that the awkward lifting and unloading found with top loaders is minimized.

Features

- Latest Micro Controller incorporating A₀ disinfection function.
- Bright 2 line vacuum fluorescent display.
- Powerful wash and cleaning action.
- Heater and fan assisted drying with condenser.
- Door interlock system.
- Fully automatic detergent dispensing system.
- In-line sensor for detergent flow detection.
- 3 stage flood protection.

Loading capacity

- 6 Instrument trays.

Guaranteed Cleaning Reliability

Ward Washer

Coral Ward Washer

- The CORAL washer disinfectant is ideal for use in hospitals, laboratories and where decentralized decontamination of any items occurs.
- It has 6 cycles which covers the full range of requirements for any facility, including drying and A₀ disinfection.
- The insert has been designed to maximize load capacity with a lower and upper rack. To compliment this rack system there are 4 water spray levels (2 rotating arm sprayers) for maximum efficiency and coverage.
- The machine is designed to dose both a detergent and rinse aid - these are automatically dosed from external containers for ease of access. Installation is relatively simple with fully flexible hoses for ease of connection to water outlet, power supply and detergents.
- The controls are angled for easy viewing with a bright two line fluorescent display.
- The controller is also fully configurable so that any time / temperature requirements can be met. It is easy to operate and all instructions are detailed in the accompanying manual.
- The design of the machine is front loading with a slide out rack so that the awkward lifting and unloading found with top loaders is minimized.



Features

- Latest Micro Controller incorporating A₀ disinfection function.
- Bright 2 line vacuum fluorescent display.
- Powerful wash and cleaning action.
- Heater and fan assisted drying with condenser.
- Door interlock system.
- Fully automatic detergent dispensing system.
- In-line sensor for detergent flow detection.
- 3 stage flood protection.

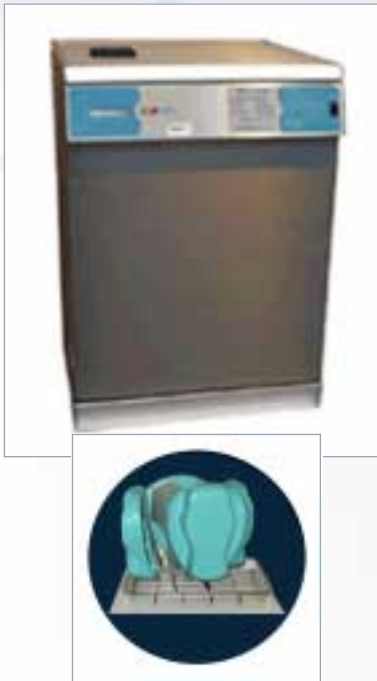
Loading capacity

- 5 large washing bowls.
- 6-12 kidney dishes.

Guaranteed Cleaning Reliability

Sanitizer

Guaranteed Cleaning Reliability



Coral Washer Sanitizer

- The CORAL washer sanitizer is ideal for use in hospital wards and rest homes where quiet operation and under bench fitting is an important consideration.
- The insert is designed to hold both bedpans and urinals in such a way as to maximize the load capacity whilst ensuring that all parts can be reached by the spray arms.
- The sanitizer has a choice of 2 cycles, one with a drying option.
- Cleaning detergent and rinse aid can be used in the machine, these are automatically dosed from external containers for ease of access.
- Installation is relatively simple with fully flexible hoses for ease of connection to water outlet, power supply and detergents.
- The controls are angled for easy viewing with a bright two line fluorescent display.
- The controller is also fully configurable so that most time / temperature requirements can be met.
- Easy to operate and all instructions are detailed in the accompanying manual.
- The design of the machine is front loading with a slide out rack so that the awkward lifting and unloading found with top loaders is minimized.

Features

- Latest Micro Controller incorporating A₀ disinfection function.
- Bright 2 line vacuum fluorescent display.
- Powerful wash and cleaning action.
- Heater and fan assisted drying with condenser.
- Door interlock system.
- Fully automatic detergent dispensing system.
- In-line sensor for detergent flow detection.
- 3 stage flood protection.

Loading capacity

- 4 bedpans.
- 4 urinals.

Cleaning Monitoring

Cleaning Monitoring

As a general definition 'validation' shall be explained as the proof that a certain process fulfills the requirements for its intended use. It is possible to test this process. These tests are an efficient way to challenge the automated washer. It is important to know on a day to day basis whether the washers that you rely upon are working to their optimum specification. The easy method of adding a 'test object' to a normal load ensures that no extra time is spent assessing the washer's efficiency. A result that indicates a problem with the washer can be rectified quickly ensuring limited 'down time' of the machine. Simply add the test to the load and assess the result visually on its completion.

TOSI (Test Object Surgical Instrument).

This test monitors the efficiency of washer disinfecting machines. The test piece is a pre-prepared test giving efficient repeatable results. It is easy to use and the test soil is correlated to human blood. The stainless steel material and hinged cover closely mimics an actual surgical instrument. TOSI has a transparent cover for visual assessment of the result and has clips for easy attachment onto the washing rack. If the TOSI test fails a comprehensive wall chart is available that suggests possible reasons for the test result and the subsequent corrective actions.



SonoCheck

Ultrasonic cleaning is very important to assist in the reprocessing of surgical instruments, therefore the energy level and presence of cavitation should be monitored routinely.

SonoCheck is used to monitor the ultrasonic energy level during the cleaning of surgical instruments. The small vials are placed in the ultrasonic bath with the load. A colour change from green to yellow can be observed if the ultrasonic is working to its specification. Effects such as insufficient energy, overloading, water level and de-gassing will increase the time needed for the colour change. In case of major problems SonoCheck will not change colour at all.



HemoCheck-S

HemoCheck-S is a test for the detection of blood residues on surfaces. It is ideally used as an audit tool for both manually and mechanically cleaned items. It can also detect denatured blood on items that have been sterilized. A colour change to blue-green indicates blood residues and it is sensitive down to 0.1µg within 30 seconds.



TOSI LumCheck and TOSI FlexiCheck

Pre-prepared tests for monitoring the cleaning efficiency of rigid and flexible endoscope washers. The removal of the test soil is vital to demonstrate the removal of any contaminants from the actual used scope. TOSI LumCheck and TOSI FlexiCheck will monitor the efficiency of the washer and the detergent.



Specifications

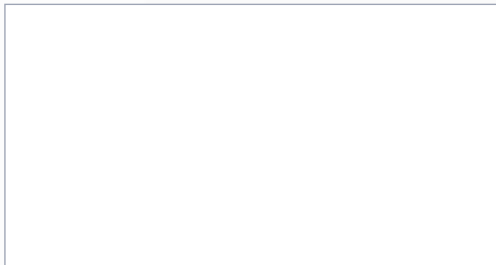
Guaranteed Cleaning Reliability

Coral Ward Washer / Sanitizer Technical Specification

Dimensions	Width	600mm
	Height	850mm
	Max depth	610mm
	Max depth with open door	1150mm
Electrical Connection		230 V - 50 Hz
Fuse Rating (ward washer)		10 Amps
Fuse rating (sanitizer)		20 Amps
Power of Heating Elements (ward washer)		2000 W
Overall Power (ward washer)		2150 W
Power of heating(sanitizer)		4000 W
Overall power (sanitizer)	Voltage	4150 W
Water Supply Pressure	Minimum	350 kPa
	Maximum	600 kPa
Water Capacity		4, 3 L
Consumption (approx)	Water	20 L

Coral instrument washer technical specs

Dimensions	Width	600mm
	Height	1260mm
	Max depth	610mm
	Max depth with open door	1150mm
Electrical Connection	Voltage	230 V - 50 Hz
Fuse Rating		30 Amps
Power of Heating Elements		5000 W
Overall Power		6500 W
Water Supply Pressure	Minimum	350 kPa
(COLD AND HOT)	Maximum	600 kPa
Water Capacity		25 L
Max Consumption (approx)	Water	120 L



www.mercers.co.nz

www.mer-med.com