

The future is bright.
And clean. And fully automated.



SciCan recognized years ago that the regulatory landscape was changing and responded with HYDRIM® – a remarkable collection of instrument washers intended not just to meet expectations, but exceed them. Quick, quiet and labour saving, the HYDRIM M2 uses an advanced surfactant that is gentle on instruments and actually prevents corrosion, while it cleans them... automatically. Take control, because the stakes are too high.™

Looking for the future? You'll find it here... www.scican.com

Your Infection Control Specialist™

SciCan Dental



SciCan

Originally founded in 1957, SciCan has over 50 years experience in the healthcare market. With roots in the distribution of high quality German medical products, SciCan developed and produced its first internationally recognized infection control innovation by the mid 1980's: STATIM.

Through a sustained legacy of growth and expansion, SciCan is a leader in 3 specific business areas in the field of infection control in over 100 countries around the world:

SciCan Dental – Complete systems that are designed to meet the highest international standards and prevent the occurrence and spread of infections for staff and patients alike. **SciCan Ophthalmology** – SciCan's full spectrum solutions designed for the washing, disinfection and sterilization and storage of delicate instruments. **SciCan Endoscopy** – SciCan offers complete systems for the reprocessing of flexible endoscopes (washing, disinfection, sterilization) including storage and transportation for any size facility.

If it isn't clean? It can't be sterilised!

Authorities now recommend that dental instruments must first be processed in a mechanical washer or washer-disinfector prior to sterilisation. Across Europe, standards and guidelines (ISO15883 / RKI / BDA Advice Sheet A12) reflect this advice.



Effective sterilisation begins with the Hydrim M2 washer disinfector which automatically washes, rinses, disinfects and dries dental instruments, simply by pressing a button on the touchscreen.

The Hydrim process begins with a powerful pre-wash cycle. Then three high-pressure sprays clean the instrument load from above and below removing virtually all organic debris. Cleaning solution is dispensed automatically and clean water is used with every new cycle.

The Hydrim M2 has been designed in accordance with the relevant sections of ISO15883, the International standard for washer disinfectors and also the UK guidelines, HTM2030.

The Hydrim M2 washer-disinfector is manufactured by SciCan Ltd, the creators of Statim Cassette Autoclaves, and is the result of years of expertise and experience in decontamination and sterilisation processes.



Safer for your staff

Integrating mechanical washing into the practice decontamination protocol provides a high level of safety, particularly against the risk of skin puncture injuries which occur during the hand washing, rinsing and patting dry of contaminated instruments. Hydrim eliminates the soaking, scrubbing and rinsing associated with traditional pre-sterilisation processes. Disinfection at 90°C for five minutes following the washing phase renders the instruments safe to handle.

The chemicals in ultrasonic baths are typically changed once per day. Microbial load builds throughout the day and instruments are often cleaned for variable periods of time. In contrast, mechanical washing in the Hydrim is more efficient than an ultrasonic bath because Hydrim is consistent, more powerful and uses only single-use water and detergent chemicals.

Kinder to your instruments



Hydrim Cleaning Solution with instrument protection (HIP™) has been formulated to achieve excellent cleaning results while assuring exceptional compatibility with a wide range of metals and coatings used in dental instruments. Your valuable instruments will be protected better and for longer by the HIP formulation.

SciCan's patented HIP cleaning solution, combined with Hydrim's specially designed washing/disinfection and drying programmes, provides a superior washing system which perfectly prepares your instruments for sterilisation with a Statim, Bravo or other sterilising process.

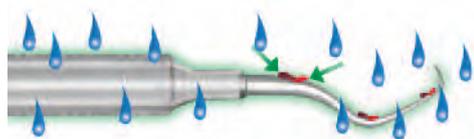
**SAFER
FOR YOUR
STAFF**

How HIP works to protect your Instruments

To ensure the effectiveness of cleaning and protection of the instrument during processing, all non-organic materials with setting properties should be removed at chairside while still in their 'wet' state. Materials such as composites, cements and similar materials cannot be removed by mechanical washing, or ultrasonic cleaning once they have set.

HIP has been carefully formulated to provide outstanding compatibility with a wide range of materials and coatings. However, some manufacturers' instruments may not be compatible. After prolonged use in Hydrim, anodised (ethoxylated) aluminium will show cosmetic changes.

To be effective, HIP relies on constant contact with the instrument during all the washing and rinsing phases. During processing, therefore, it is automatically added to the various stages of the process as follows:



Prewash <30°C

- A small amount is dosed, with the water, in the pre-wash portion of the chosen cycle. Exposed portions of the instruments are therefore instantly protected. As organic matter is removed from the instrument during the cycle, newly exposed areas of the instrument become protected as they are exposed.



Wash 70°C

- The main dose of HIP is dispensed during the main hot wash portion of the cycle where it then continuously removes the more stubborn organic materials and continues to protect the instruments.



**Rinse/Disinfect
60-90°C**

- Finally, a further small amount of HIP is dosed in with the rinse or disinfect portion of the cycle to ensure continuing protection at all times that the instruments are exposed to water.



Dry

- During the drying cycle, as the water is evaporating from the instruments, HIP protects the instruments from corrosion in the moist, oxygen-rich chamber.

Liquid chemical dosing system

The HIP solution is kinder to your instruments and to the Hydrim unit itself, as the liquid detergent rapidly and fully disperses, unlike powder detergent which can form clumps and compromise the efficiency of the washing process.

HIP is very accurately dosed by a peristaltic pump. The amount of chemical and the temperature at which it is dosed are controlled by advanced software.

A sensor ensures that there is sufficient chemical to complete the cycle. If there is insufficient chemical, the Hydrim will not start.

Built-in dryer

Drying of instruments after cleaning, and before wrapping, is recommended by major instrument manufacturers to prevent corrosion. The Hydrim M2 has an active drying system that circulates warm air throughout the chamber following the disinfection cycle. A built-in dryer with Hepa filter ensures that instruments are dried with air free of contaminants. Since instruments are already warm due to the elevated temperature during disinfection, they dry in less than 30 minutes. The drying time can be extended or reduced if desired.

The drying cycle of the Hydrim eliminates the need for practice staff to pat instruments dry, as they would usually do following manual scrubbing or processing in an ultrasonic cleaner. This further reduces the risk of staff injury, and saves valuable time.

**ACTIVE
DRYING
SYSTEM**

Water efficiency

The low water consumption of the Hydrim M2, only 40 litres per cycle (without drying), makes the Hydrim M2 one of the most energy efficient units on the market.

Record keeping

A choice of datalogger or printer is available to keep full process records to meet the documentation needs of the practice.

Datalogger

A datalogger, designed for use with the Hydrim M2, is available as an optional accessory. It connects into an RS232 9 pin port and automatically captures the parameters of the cleaning and disinfection cycles within a text file on a USB stick. Afterwards these files can be saved from the USB stick onto the mainframe computer in the practice.



Printer

The RS232 9 pin port offers the user the option to connect the Hydrim M2 to a selection of standard printers.



Independent monitoring

Complying with the requirements of ISO15883, the Hydrim M2 offers independent monitoring of temperature, pump pressure and cleaning solution flow resulting in error codes when problems occur.

Validation

The three standard cycles on the Hydrim M2 have been validated to ensure repeatable washing and disinfection performance.

Flexible configurations

Whether instruments are placed in cassettes or processed loose in baskets, Hydrim can be easily configured to meet the practice requirements. As a guide, the Hydrim M2 can process about 100 instrument sets in a 10-hour day. One instrument set consists of a SciCan 8"x11"x1" (203mm x 280mm 25mm) cassette that can hold up to 20 instruments.



Hydrim M2 Cycles

| Cycle | P1 Rinse & Hold*** | P2 Regular Wash Cycle | P3 Wash-Disinfect 90°C |
|---|---|---|--|
| Description | Use to prevent soil from drying on instruments when they will not be washed within one hour | Use for instruments and cassettes when disinfection is not required | Use for instruments and cassettes when disinfection (minimum A ₀ of 3000) is required |
| Cold Prewash | <30°C | <30°C | <30°C |
| Wash | N/A | 70°C / 9 minutes | 70°C / 9 minutes |
| Rinse / Disinfect | 60°C | 60°C | 90°C for 5 minutes (adjustable up to 10 minutes) |
| Dry* | N/A | 20 min. standard 30 min. intensive | 15 min. standard 20 min. intensive |
| Total Time** (without drying) | 9 minutes | 31 minutes | 51 minutes |
| Water Consumption (without drying) | 11.5 L | 40 L | 40 L |

* Cassettes may be of a complex design that does not permit full dryness of the cassette inner surfaces.

** Cycle times depend on the temperature of incoming water, mass of the load and mains voltage.

*** This is not a wash cycle. Always run a wash cycle following a rinse cycle.

Accessories



Hinged instrument rack
01-110409S
192 x 100 x 109 mm



Basket with hinged lid, 1/4 size
01-109966S
159 x 216 x 54 mm



Hygiene basket, 1/4 size
01-109967S
159 x 216 x 44 mm



Statim 2000 basket
01-107240
275 x 178 x 32mm



Statim 5000 basket
01-107241
373 x 178 x 32mm



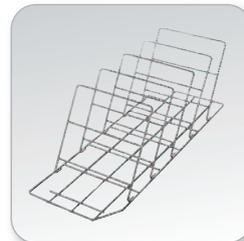
Long basket
01-108232
442 x 150 x 42 mm



Cleaning Solution Bottle
CS-HIPL
Case of 2 x 3.8 L



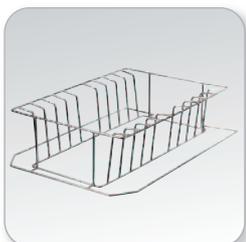
5-cassette rack, full size
01-109963S
480 x 355 x 158 mm



5-cassette rack, half-size
01-109964S
480 x 168 x 158 mm



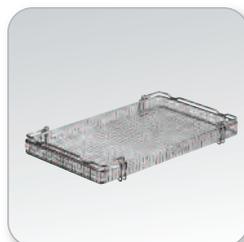
Handpiece /suction tube adapter rack.
17166.60



Insert for 8 half-trays
01-110412S



Rack for vertical instruments
01-110411S



Medical basket with handles, B
01-108262S



Medical basket with handles, C
01-108263S



SYS-TM Instrument Cassettes
SYS-TM1 – 178 x 64 x 13 mm
SYS-TM2 – 178 x 64 x 25 mm
SYS-TM3 – 178 x 114 x 13 mm
SYS-TM4B – 267 x 165 x 25 mm

Easy to install

The compact Hydrim M2 should be installed under the counter. It requires standard utilities – 230-240V, 50Hz outlet, hot and cold water inlets (standard configuration) and a drain.

The unit is supplied with one hot water and one cold water hose which are 1.9 m long with 2 cm / 3/4" female fittings. The drain tube provided with the unit is 1.5 m long with an inner diameter of 2 cm / 3/4".

In case extension is needed, please note that the drain tube should not exceed 3.3 m.

Optional installation

The M2 can alternatively be installed using cold water and a reverse osmosis (RO) system.

Water hardness

In areas of hard water of over 30.3dh° it is recommended to install an in-house water softener to provide water to the Hydrim M2.

Technical Specifications

| | |
|--|---|
| Overall product width | 600 mm |
| Overall product height | 850 mm (free standing) 830 mm (under bench) |
| Overall product depth | 600 mm |
| Depth with door open | 1200 mm |
| Unpacked weight | 85kg (max) |
| Water softener | Standard, Salt Capacity 1.0 kg |
| Running noise | 60dB (A) |
| Drying system | 2-stage blower |
| Hot and cold water connections | G 3/4" |
| Drain | 3/4" / DN 20 |
| Inlet water pressure | 2 - 5 bar |
| Electrical connections | 230-240V, 50Hz, 13 amp |
| Independent second temperature sensor | Standard |
| Independent monitoring of chemical dosing | Standard |
| Independent monitoring of circulation pump | Standard |
| RS 232 data port | Standard |
| Test port | Standard |
| Electrical door closing mechanism | Standard |
| Window in door | Standard |
| Number of wash arms | 3 |
| Steam condenser | Standard |
| User friendly touch screen | Standard |
| Display for temperature, cycle time, and program completion. | Standard |
| Built-in liquid dosing system | Standard |
| Space requirement including detergent | 60cm x 60cm |

Manufactured by:

SciCan Ltd.

1440 Don Mills Road
Toronto ON M3B 3P9
CANADA
Tel.: +1 416 445-1600
Fax.: +1 416 445-2727



U.S.A.

SciCan Inc.

701 Technology Drive
Canonsburg, PA 15317
USA
Phone: 724-820-1600
Toll Free: 1.800.572.1211
Fax: 724-820-1479

EU Representative

SciCan GmbH

Wangener Strasse 78
88299 Leutkirch
GERMANY
Tel.: +49 (0)7561 98343 - 0
Fax: +49 (0)7561 98343 - 699

(Office for Swiss customers)

SciCan Medtech AG

Alpenstrasse 16
6300 Zug
SWITZERLAND
Tel.: +41 (0) 41-727 7027
Fax.: +41 (0) 41-727 7029