STERILUCENT

Simply smart.

iQVHP™

LIFE SCIENCE PROCESSOR SYSTEM

An entirely new class of intelligent processor provides smart data and analytics, redefining what's possible.

- Achieves ≥6-log reduction of bacteria and viruses on hard surfaces
- Shorter cycle times, lower operating costs
- Customizable validated sterilization cycles
- Compatible with sensitive lab materials (plasticware, sensors, packaging)
- Compact footprint

Dynamic, gentle cycling

Continuous in-chamber sensing and cycle adjustments virtually eliminates material damage.

Intelligent moisture sensing & drying

Cycle assurance is maintained by patented iQVHP™ technology, reducing failed cycles.

Smart chemistry delivery

Smart data analytics deliver just the right amount chemistry, at just the right time, using less hydrogen peroxide.

A new level of control

User-friendly interface, intuitive analytics and a wealth of smart features enable superior performance and user confidence.

SUITABLE FOR BIODECONTAMINATION OF:

- Laboratory instruments
- Medical devices
- Single-use packaging components
- Biotech sensors
- R&D devices
- Plasticware, tubing

NOTICE: This system is not cleared or approved by the FDA for re-sterilization of medical devices, surgical instruments, or any patient-contacting materials.

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CHAMBER VOLUME:
83 liters

CHAMBER OPERATING TEMPERATURE:
40-55°C (104-131°F)

PHYSICAL CHARACTERISTICS

HEIGHT: 82 cm (32.25 in.)

WIDTH: 76 cm (30 in.)

DEPTH: 79 cm (31 in.)

WEIGHT: 138.8 kg (306 lbs.)

POWER REQUIREMENTS

VOLTAGE: 100 – 120 VAC or 200 – 240 VAC (depending on model)

FREQUENCY: 50/60 Hz ± 2 Hz

PHASE: Single

MAXIMUM POWER: 2400 W

CURRENT: 15.4A Long-Time, 42A Momentary @ 100 – 120 VAC 8.5A Long-Time, 33A Momentary @ 200 – 240 VAC
Power Cord Length: 2.5 m (8.2 ft.)

OPERATING CONDITIONS

TEMPERATURE: 16 to 29°C (61 to 84°F)

HUMIDITY: 60% Maximum at 29°C (84°F) Altitude: ≤2000m (6,562 ft.)

POLLUTION INDEX: 2

ROOM VENTILATION: Minimum of 10 air changes per hour

DRAINAGE: No drainage requirements

REQUIRED MINIMUM OPERATING CLEARANCES

FRONT: 90 cm (36 in.)

BACK: 5 cm (2 in.)

SIDES:
Left side: 10 cm (4 in.) when facing front
Right side: 20 cm (8 in.) when facing front

MATERIAL COMPATIBILITY

Sterilucent has performed exhaustive material compatibility and biocompatibility testing on the materials listed below in both coupon and medical device form. The samples were cycled in the iQVHP™ System for a minimum of 200 cycles as well as tested against the following biocompatibility standards: cytotoxicity, sensitization, intracutaneous reactivity, ocular Irritation, system toxicity, and hemolysis.

The following materials passed the above testing and are deemed to be compatible with the iQVHP™ System.

- Acrylonitrile Butadiene Styrene (ABS)
- Aluminum
- Aluminum (Anodized)
- Brass
- Chrome Plated SS
- Ethylene-Chlorotrifluoro-ethylene (ECTFE; Halar®)
- Ethylene-Vinyl Acetate (EVA, PEVA)
- Fluroelastomer (FKM, Viton®)
- Glass
- Gold
- Liquid Crystal Polymer (LCP, Xydar®)
- Nickel Titanium (Nitinol)
- Nylon
- Ocular Machemer Magnifying Glass
- Polyamide Aliphatic (PA, Nylon, Zytel®)
- Polycarbonate (PC, Lexan®)
- Polychloroprene (CR; Neoprene®)
- Polydimethylsiloxane (PDMS, Silicone)
- Polyester (PE)
- Polyetheretherketone (PEEK, Ketaspire®)
- Polyetherimide (PEI, Ultem®, Duratron®)
- Polyethylene, High Density (HDPE)
- Polyethylene, Low Density (LDPE)
- Polymethyl Methacrylate (PMMA, Acrylic, Plexiglass, Optix®)
- Polyoxymethylene (POM, Acetal, Delrin®)
- Polyphenyleneoxide (PPO, Noryl®)
- Polyphenylsulfone (PPSU, Radel®)
- Polypropylene (PP)
- Polystyrene (PS)
- Polysulfone (PSU)
- Polytetraflouroethylene (PTFE, Teflon®)
- Polyurethane (PUR, Pellathane®, Tecothane®)
- Polyvinylchloride (PVC)
- Santoprene
- Silicone
- Stainless Steel (SS)
- Stellite™
- Styrenic Block Copolymer Thermoplastic Elastomer (SBC TPE or TPE-S, Kraton™/Versaflex™)
- Thermoplastic Elastomer Vulcanizate (TPV, TPV-V or TPE-V, Santoprene™ TPV, Dynaflex)
- Titanium
- Tungsten Carbide

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