

Executive Summary: Results of STERIS V-Pro Low-Temperature Sterilization System Testing of Seal Shield Core Products

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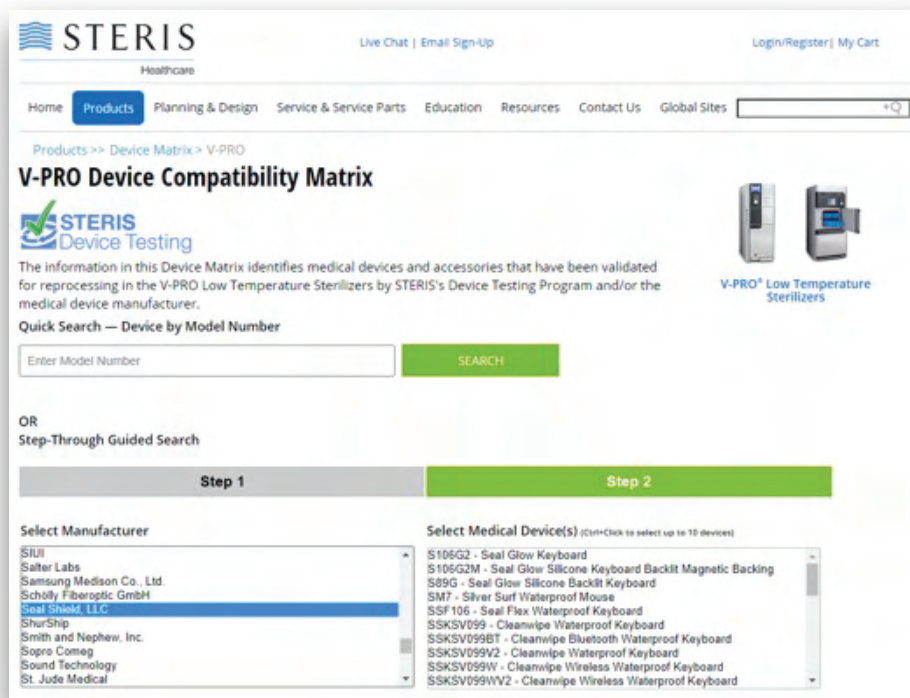
In 2020, STERIS agreed to test Seal Shield keyboards and mice in their V-Pro Low-Temperature Sterilization System. The V-Pro uses hydrogen peroxide vapor at less than 150°F to sterilize many types of instruments used in hospitals. Sterilizing electronics in the V-Pro is not typical, but various Seal Shield products can be cycled in the V-Pro because of their engineered waterproof qualities. Upon careful consideration, STERIS was sent working models of the S106G2 (Seal Glow keyboard), STM042 (Seal Storm mouse), SSKSV207 r4 (Seal Clean keyboard), and the SSKSV099WV2 (Cleanwipe wireless keyboard).

The tests involved a standard method developed by STERIS whereby each device went through multiple sterilization cycles within the V-Pro, and following those cycles the functionality of the sterilized device would be tested. In addition, small bacterial inoculations were placed on strategic locations on the products to ensure that sterilization did indeed occur in the V-Pro. The results of these experiments were that Seal Shield products passed all tests with no aberrations or loss of functionality. Sterilization was verified on the inoculated areas.

The conclusion of their report: “As determined by Seal Shield LLC, the following test articles [as listed above] are compatible with the Lumen Cycle of the V-Pro 60/ Low Temperature Sterilization System for 100 cycles... The selected test sites of the following test articles [as listed above] were successfully sterile processed by the V-Pro Max ½ cycle with a maximum load weight...”

These Seal Shield products are now listed on the online STERIS Device Compatibility Matrix, which catalogs all devices that STERIS has tested internally with the V-Pro.

The V-Pro Device Compatibility Matrix can be found here, selecting Seal Shield in the Manufacturer search: <https://ww1.steris.com/products/vpro/index.cfm?step=2>. A screenshot is provided below.



Sterilization can be performed in the following STERIS V-Pro models with associated cycles. Devices must be cleaned, rinsed, and dried in accordance with the Instructions For Use of the sterilizers. Refer to STERIS’s Operator Manual for proper operation of the unit and cycle selection.

- V-PRO® maX Low Temperature Sterilization System: Lumen, Non-Lumen, and Flexible Cycles
- V-PRO® maX 2 Low Temperature Sterilization System: Lumen, Non-Lumen, Flexible, and Fast Non-Lumen Cycles
- V-PRO® 60 Low Temperature Sterilization System: Lumen, Non-Lumen, and Flexible Cycles
- V-PRO® s2 Low Temperature Sterilization System: Lumen, Non-Lumen, Flexible, and Fast Cycles

Additional equivalent models of tested Seal Shield devices are listed in the STERIS Device Compatibility Matrix, and a full list of those models is available in the following table.

Device Listing on STERIS.com:

Model Number	Device Name / Description
S106G2	Seal Glow Keyboard
S106G2M	Seal Glow Silicone Keyboard Backlit Magnetic Backing
S89G	Seal Silk Mini Glow Silicone Backlit Keyboard
SSF106	Seal Flex Waterproof Keyboard
SSKSV099WV2	Cleanwipe Wireless Waterproof Keyboard
SSKSV099W	Cleanwipe Wireless Waterproof Keyboard
SSKSV099BT	Cleanwipe Bluetooth Waterproof Keyboard
SSKSV099	Cleanwipe Waterproof Keyboard
SSKSV099V2	Cleanwipe Waterproof Keyboard
SSKSV099xx	Cleanwipe Waterproof Keyboard
SSKSV207 r4	Seal Clean Waterproof Keyboard
SSKSV207	Seal Clean Waterproof Keyboard
SSKSV207L	Seal Clean Waterproof Keyboard Long Cable
SSKSV207G	Seal Clean Glow Waterproof Keyboard
SSKSV207G r4	Seal Clean Glow Waterproof Keyboard
SSKSV207GL	Seal Clean Glow Waterproof Keyboard Long Cable
SSKSV207GL r4	Seal Clean Glow Waterproof Keyboard Long Cable
SSKSV207GRC125	Seal Clean Waterproof Backlit Keyboard (Tap & Go)
SSKSV207GRC13.56	Seal Clean Waterproof Backlit Keyboard (Tap & Go)
SSKSV207RC125	Seal Clean Waterproof Keyboard (Tap & Go)
SSKSV207RUSA	Seal Clean Waterproof Keyboard with Card Reader
SSKSV208(*)	Seal Clean Waterproof Keyboard (*All International Models)
STM042	Seal Storm Waterproof Mouse
STWM042	Seal Storm Waterproof Mouse
STM042BT	Seal Storm Bluetooth Waterproof Mouse
SM7	Seal Surf Waterproof Mouse
STM042P	Seal Storm Waterproof Mouse PS2
STWM042P	Seal Storm Waterproof Mouse PS2
STM042RED	Seal Storm Waterproof Mouse
SWM7	Seal Surf Waterproof Mouse
STM042W	Seal Storm Wireless Waterproof Mouse
STWM042BT	Seal Storm Bluetooth Waterproof Mouse
STWM042WE	Seal Storm Wireless Waterproof Mouse Encrypted
STM042USA	Seal Storm Waterproof Mouse TAA Compliant