

Combination Filter/Ultraviolet Sterilizers

Filtration and sterilization in one compact unit

– Filters particulates down to 0.5 µm; UV system kills 99.9% of bacteria

These filter/sterilizers feature a UV bulb in the center of a carbon filter cartridge—the filter system removes chemicals and sediment, while the UV system kills 99.9% of the bacteria. UV bulb life is 9000 hours. Sterilizers feature an extended pass carbon block (EPCB) filter designed to provide longer contact with the UV system. Filter has 0.5-µm pore size to effectively remove chemicals, sediment, and *Giardia* cysts.

What's included: brackets, mounting hardware, 5 feet of polypropylene tubing (adapters included), and 6-ft cord (1-GPM 120 VAC model has two-prong plug, 2-GPM 120 VAC model has three-prong plug, 220 VAC models have a European plug).



Process Cartridges

Flow rate	Dimensions (W x H x D)	Connections (inlet/outlet)	Power	Watts	Catalog number	Price
1 GPM	4½" x 13½" x 4½" (11.4 x 34.3 x 11.4 cm)	¾" NPT(F)	120 VAC, 60 Hz 220 VAC, 50 Hz	16	GH-99280-00 GH-99280-05	
2 GPM	5½" x 15" x 5½" (14.0 x 38.1 x 14.0 cm)	¾" NPT(F)	120 VAC, 60 Hz 220 VAC, 50 Hz	16	GH-99280-12 GH-99280-17	

[GH-99280-70](#) Replacement EPCB filter
[GH-99280-50](#) Replacement UV bulb
for 99280-00, -05
[GH-99280-52](#) Replacement UV bulb
for 99280-12, -17

Single-Open-End Absolute-Rated Cartridge Systems

Meet your regulatory needs

These SOE cartridges have a 222 O-ring configuration to create a tight seal and prevent influent bypass. They are autoclavable to 250°F (121°C) and in-line sterilizable to 257°F (125°C) for up to 30-minute cycles; 10 hours total. May also be sanitized with compatible chemical agents. Suitable to 180°F (82°C) at 10 psid.

The cartridges comply with US CFR Title 21 guidelines for repeated food contact, comply with USP Class VI-121°C Plastics guidelines and pass the MEM Elution Cytotoxicity Test. Aqueous extracts contain less than 0.25 EU/mL and typically exhibit low levels of non-volatile residues.

Use a cartridge-sump adapter kit (sold below) to secure cartridges within housings.

Multilayer Nylon Cartridges. Two pleated nylon membranes; top layer acts as a prefilter to increase cartridge life and efficiency.

Glass Microfiber Cartridge. Resin-bonded borosilicate glass microfibers that do not leach flavor-altering substances. Meets NSF Standard 53 for the reduction of cysts. Ideal as a prefilter to protect membrane filter/RO systems.

Polypropylene (PP) Cartridges. Thermally bonded high-purity PP fiber. Economical for a chemically inert media with high dirt-loading capacity. Also suitable for air/gas filtration. All materials FDA-acceptable. Hydrophobic—prewet before liquid filtration.†

Pleated PTFE Cartridges. Ideal for more aggressive liquid or air/gas filtration. Hydrophobic—prewet before liquid filtration.†

Semiconductor Cartridge. Single-layer PES membrane over PP core. Each is flushed with high-purity water to leach less than 5 ppb TOC and less than 5 ppb trace metals. Ideal for any high-purity chemical or DI water application.

Cartridge type	Pore size††	Filtration area	Length	Catalog number	Price
Serial nylon	0.20 µm	6.9 sq ft	10" (25.4 cm)	GH-06479-18	
	0.45 µm			GH-06479-22	
Glass fiber	3.0 µm	4.3 sq ft	10" (25.4 cm)	GH-06479-26	
	1.0 µm			GH-06479-34	
Polypropylene	3.0 µm	4.7 sq ft	10" (25.4 cm)	GH-06479-38	
	5.0 µm			GH-06479-42	
	10 µm			GH-06479-46	
	0.1 µm			GH-06479-50	
PTFE	0.2 µm	5.9 sq ft	10" (25.4 cm)	GH-06479-54	
	0.45 µm			GH-06479-58	
	0.20 µm			GH-06479-62	
Semiconductor	0.20 µm	6.9 sq ft	10" (25.4 cm)	GH-06479-62	

†To use with aqueous solutions, prewet with methanol, then rinse with water before use.

††Pore sizes for polypropylene cartridges are nominal.

[GH-01508-96](#) SOE Cartridge-sump adapter kit, fills the variable gap left by various manufacturers' SOE cartridges when used in a 12" polypropylene housing



High-Purity SOE Housing

Designed for use with 222 O-ring sealing cartridges. Pure polypropylene with no fillers, colorants, plasticizers or lubricants. Molded with ultra-smooth contact surfaces to prevent bacterial adhesion and build-up. Also suitable for aggressive fluids.

Inlet/outlet ports are ¾". Housings include ¼" plugged inlet, outlet, and sump ports for sampling or differential pressure monitoring. Suitable to 100°F (38°C); max pressure is 100 psi; Viton® seal.



[GH-01508-24](#) High-purity polypropylene housing for use with SOE 222 O-ring cartridges (at left)