



Sanitization & Sterilization

(Reference Guide)

Distributed by:

John Mulhern Company
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Cartridge Grade

VPS & **(FPS - Polyethersulfone Membrane)**

Sterilizing & Sanitizing Agents

Filtered Hot Water:	190°F (87.8°C)	30 min cycle	(Stainless steel ring recommended. Do not exceed 3 psid inline flow)
Autoclave:	260°F (127°C)	30 min, multiple cycles	(Stainless steel ring required)
In-line Steam:	275°F (135°C)	30 min, multiple cycles	(Stainless steel ring required)

Chemical Sanitization

Hydrogen Peroxide	Minimum 15% Concentration	30 min
Isopropyl Alcohol:	70% Concentration	30 min
Ethanol:	80% Concentration	30 min
Peroxyacetic Acid:	Minimum 1% Concentration	30 min
Citric Acid:	Minimum 1% Concentration	30 min

Cleaning

Tergazyme:	Per manufactures directions
Minnclean TF:	Per manufactures directions
Triton X-100:	Per manufactures directions

Storage

Sodium Hydroxide:	Minimum .5% Concentration
Citric Acid:	Minimum 1% Concentration
Grain Alcohol:	80% Concentration
Ethanol:	80% Concentration



Note:

CARTRIDGES MUST BE FULLY IMMERSSED AND SOAKED FOR THE MINIMUM TIMES GIVEN.

ALL CARTRIDGES MUST BE RINSED AND CLEANED WITH CLEAN WATER TO ASSURE REMOVAL OF ALL CLEANING AND SANITIZING AGENTS PRIOR TO REUSE.

THE ABOVE INFORMATION IS FOR GUIDE LINES ONLY AND IS DESIGNED TO EXTEND THE USEFUL LIFE OF THE CARTRIDGES.