

Supplier Scouting Opportunity 2023-020

Item to be scouted: .2 Micron, In-Line Water filter

Item description: In-line water filter, typically installed on supply lines to sinks, showers, ice machines, & fountains intended to address point-of-use infection control of legionella outbreaks in healthcare, nursing homes, and other business settings. A 0.2 micron filter delivers water usable for drinking, washing, and possible cleaning of medical instruments.

NAICS code: 339112, 332913

Technical Information

Supplier Information

Type of supplier being sought: Manufacturer

Reason for scouting submission: Price

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible): Injection molding of filter housing with integral plumbing fittings - PVC, ABS, or Polysulphone
Filter manufacturing - Polysulphone hollow fiber membrane is most common material

Provide dimensions / size / tolerances / performance specifications for the item:

Specification:

1. Functional Statement: In-line water filter, typically installed on supply lines to sinks, showers, ice machines, & fountains intended to address point-of-use infection control by delivering water usable for drinking, washing, and possible cleaning of medical instruments.
2. Physical:
 - 2.1. Size: maximum 2.5" diameter x 8.4" long 8.4" (smaller is better)
 - 2.2. Connections: ½" MNPT to accommodate 1/2"x 3/8" FNPT
 - 2.3. Rated inlet pressure: 75 psi (100 psi preferred)
 - 2.4. Rated temperature: 104°F
 - 2.5. Chemical compatibility: 400,000 ppm for 1 hour short-term Chlorine resistance (per IL5)
3. Filter characteristics:
 - 3.1. Flowing media: Water
 - 3.2. Material: Polysulfone hollow fiber membrane (preferred industry standard)
 - 3.3. Pore size: 0.2 micron max
 - 3.4. Flow rate: 2.5 gpm minimum @30 psi (≥5.8 gpm preferred @72psi per IL-5)
 - 3.5. Service Life: Life: 90 day minimum (180 day preferred), disposable end-of-life based on estimated capacity of IL5 @3400 gallons / 180 days ≈ 20 gallons/day
 - 3.6. Bacteria retention: >99.99999% per ASTM F838
4. Packaging:
 - 4.1. Individually heat sealed, sterile, clear/viewable pack
5. Regulatory:
 - 5.1. NSF/ANSI 61 certified materials for use in drinking water
 - 5.2. FDA approval (510k cleared) preferred, but not required by the CDC who requires a 0.2 micron

List required materials needed to make the product, including materials of product components:
PVC, ABS, or Polysulphone filter housing, Polysulphone hollow fiber membrane filter

Are there applicable certification requirements?: NSF/ANSI 61 certified materials for use in drinking water

Are there applicable regulations?: FDA approval (510k cleared) preferred, but not required by the CDC who requires a 0.2 micron

Are there any other standards, requirements, etc.?: No

Business Information

Volume and pricing

Estimated potential business volume:

Customer supply need:

1) Quantity:

- a) Annual volume: 10,000 units
- b) Minimum stock on hand: 1200 units at manufacturer
- c) Minimum purchase quantity: 25 units

2) Lead time:

- a) Delivery of stock on hand: 1 day
- b) Manufacture lead time (from out-of-stock): 7 days

Estimated target price / unit cost information (if unavailable explain): Competitive quote

Delivery requirements

When is it needed by?: Long term to replace existing overseas supply (1 year)

Describe packaging requirements: Individually heat sealed, sterile, clear/viewable pack

Where will this item be shipped?: Dayton, OH

Additional Information

Photos or diagrams of the item



Check if you uploaded file(s) to Box.com: Yes

Agree (click to read agreement): Yes

IN-LINE WATER FILTER

Product Value Proposition: In-line, point-of-use water filters can be used for rapid infection control of legionella outbreaks in healthcare, nursing homes, and other business settings. Unfortunately, there is a limited source of approved filter suppliers, with the majority manufactured overseas and sold at a premium price point. A lower cost, U.S. manufactured, in-line water filter with competitive performance to benchmarked products would have immediate impact in the U.S. market.

Product Benchmark:

Supplier:	Nephros	AquaMedix
Model:	SSU-H 	In-line IL5 
Part Number:	70-0284	49406
Dimensions:	7" L x 2.5" D	6.0"L x 2.4" D
Connection:	½" male pipe	
Replacement life:	90 days (typical sink)	180 days
Estimated capacity:	-	3,400 gallons
Housing material:	Polysulfone	ABS
Membrane material:	Medisulfone©	Polysulfone hollow fibers
Filter pore size:	.005 μm	0.2 μm
Bacterial Retention:	>99.99999% per ASTM F838-05	
Max inlet pressure:	75 psi	
Max temperature:	-	104°F
Flow rate:	2.5 gpm @30 psi	5.8 gpm @ 72psi
Regulatory:	FDA 510k cleared, class 2 medical device to aid in infection control	FDA Medical class 1 medical device approval

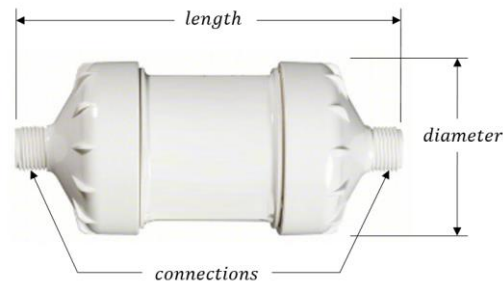
Supply need for our client:

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Specification:

Date: 2023-Feb-01

Revision: 1



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