



MICROPURE® FILTRATION

A Senney Enterprises Filtration Company

Tank Vent Filters

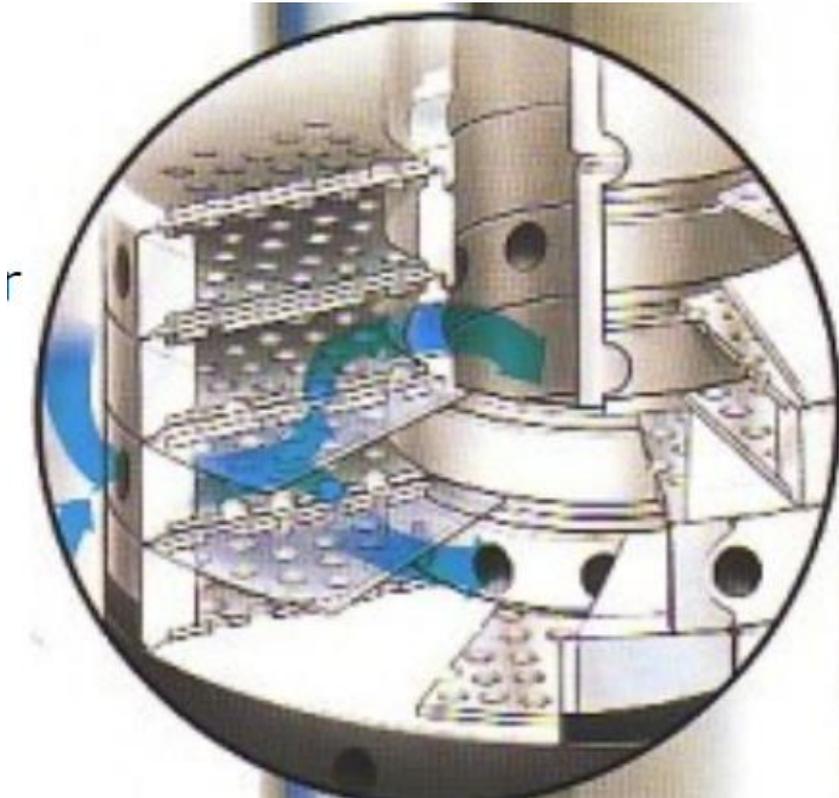


Segmented Filtration Design

- Different than typical cartridge style element
- Element Built with Modular SS support Discs
- Filtration Media Sandwiched in between Discs
- Unit Held Together by compression
- Only Filtration Media is replaced.

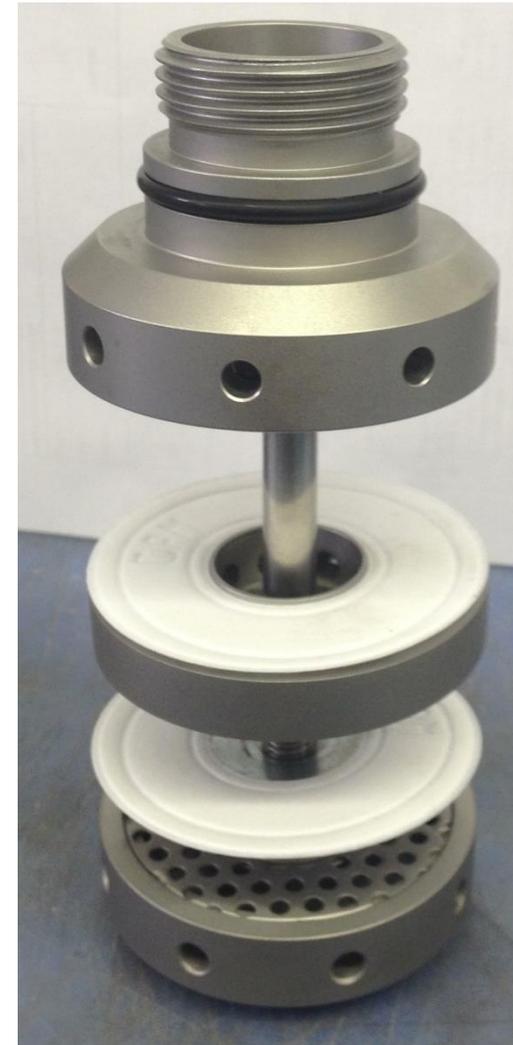


Flow through filter



Air flow is bidirectional

- Air enters element through holes in disc
- Air goes up or down through filtration surface
- Air exits adjacent disc through opposite sided holes



2 Layer element with media

Advantages of Segmented Filtration

- High Quality Materials
 - Robust stainless steel construction
 - Media made from PTFE and polypropylene
 - High Temperature and Pressure Resistance
- Unique Design
 - Ability for Bi-directional flow
 - Autoclave Sterilization possible
 - CIP or SIP possible
 - Compact Design

Advantages of Segmented Filtration

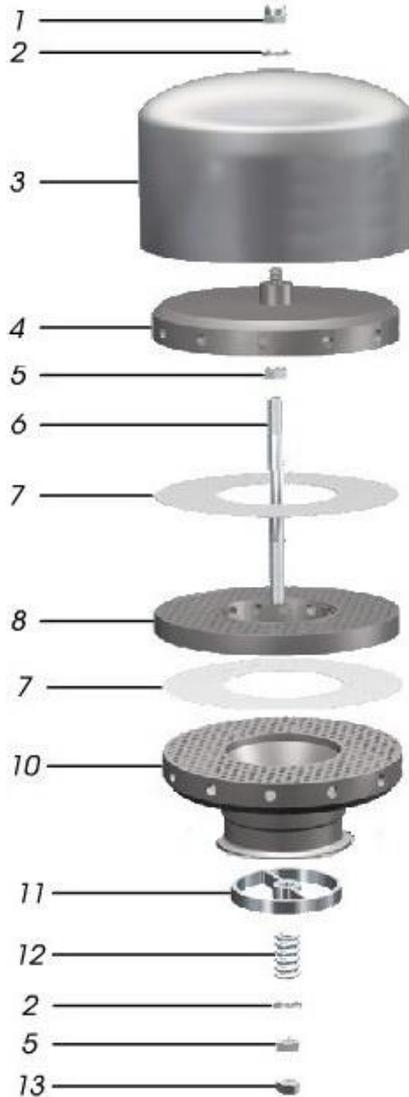
- Economical
 - Life of media
 - 150 cleanings or 1 year under normal working conditions
 - Cost of media
 - Fraction to conventional cartridges
 - Reduced Inventory Space
 - Quick Return on Investment and Low Cost of Ownership

Advantages of Segmented Filtration

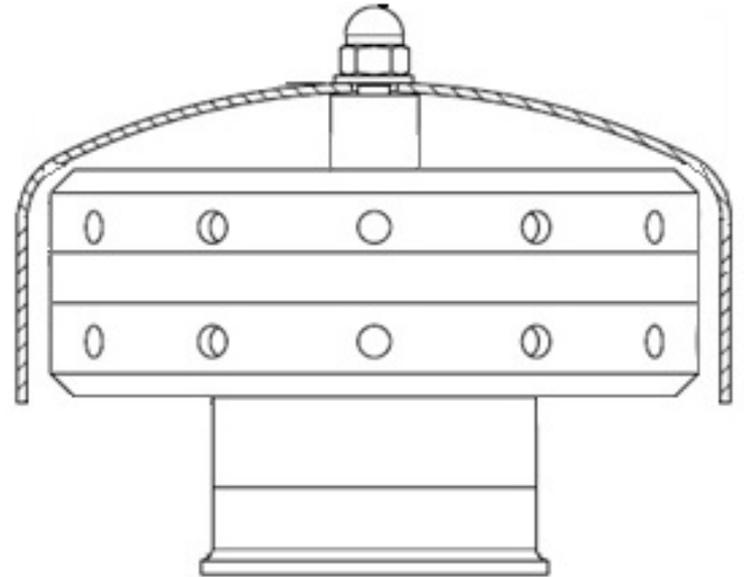
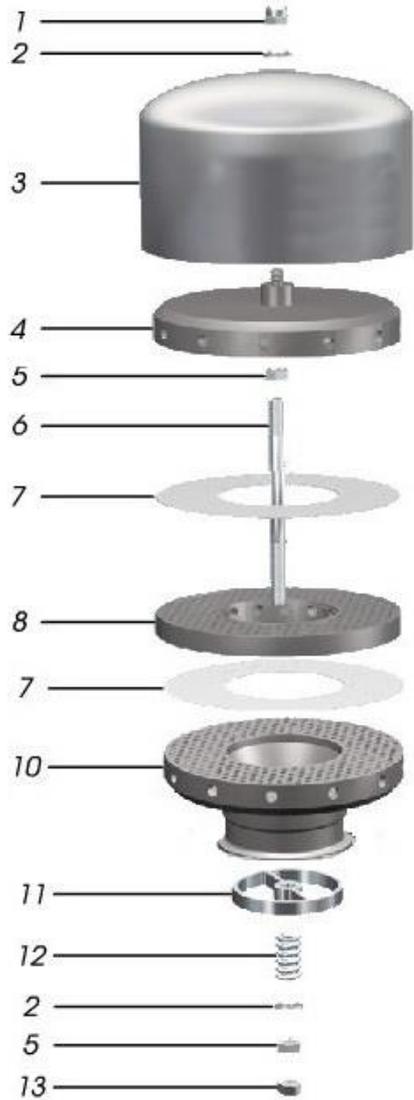
- Environmentally Friendly
 - Less filter changes per year
 - Less waste being thrown away.



Tank Vent Filter Design

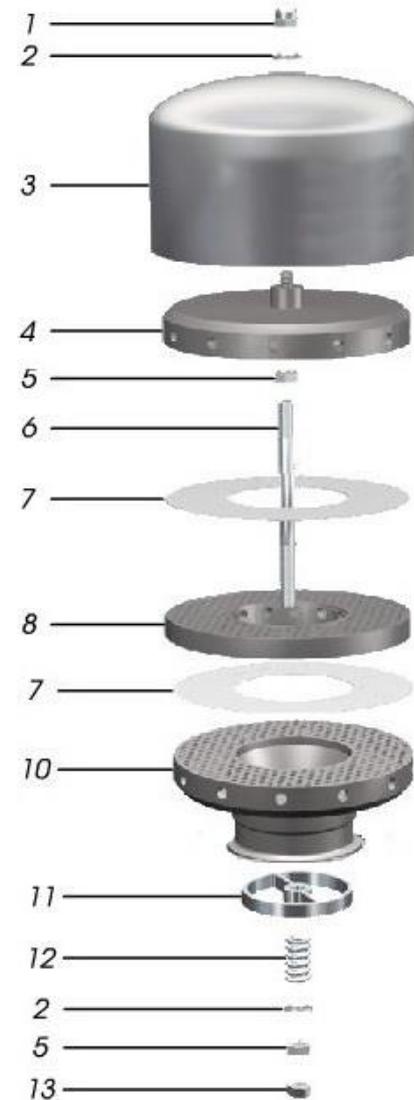


Tank Vent Filter Design



Filter Overview

Housing Assembly	
Diagram #	Item Number
1	13 mm Acorn Nut
2	13 mm Washer
3	Tank vent Hood
4	End plate for tank vent filter
5	13 mm Nut
6	13 mm Threaded Rod
7	Filter media
8	Support Disc with interior holes
10	Headplate
11	Headplate insert
12	Compression Spring
13	13 mm Lock Nut



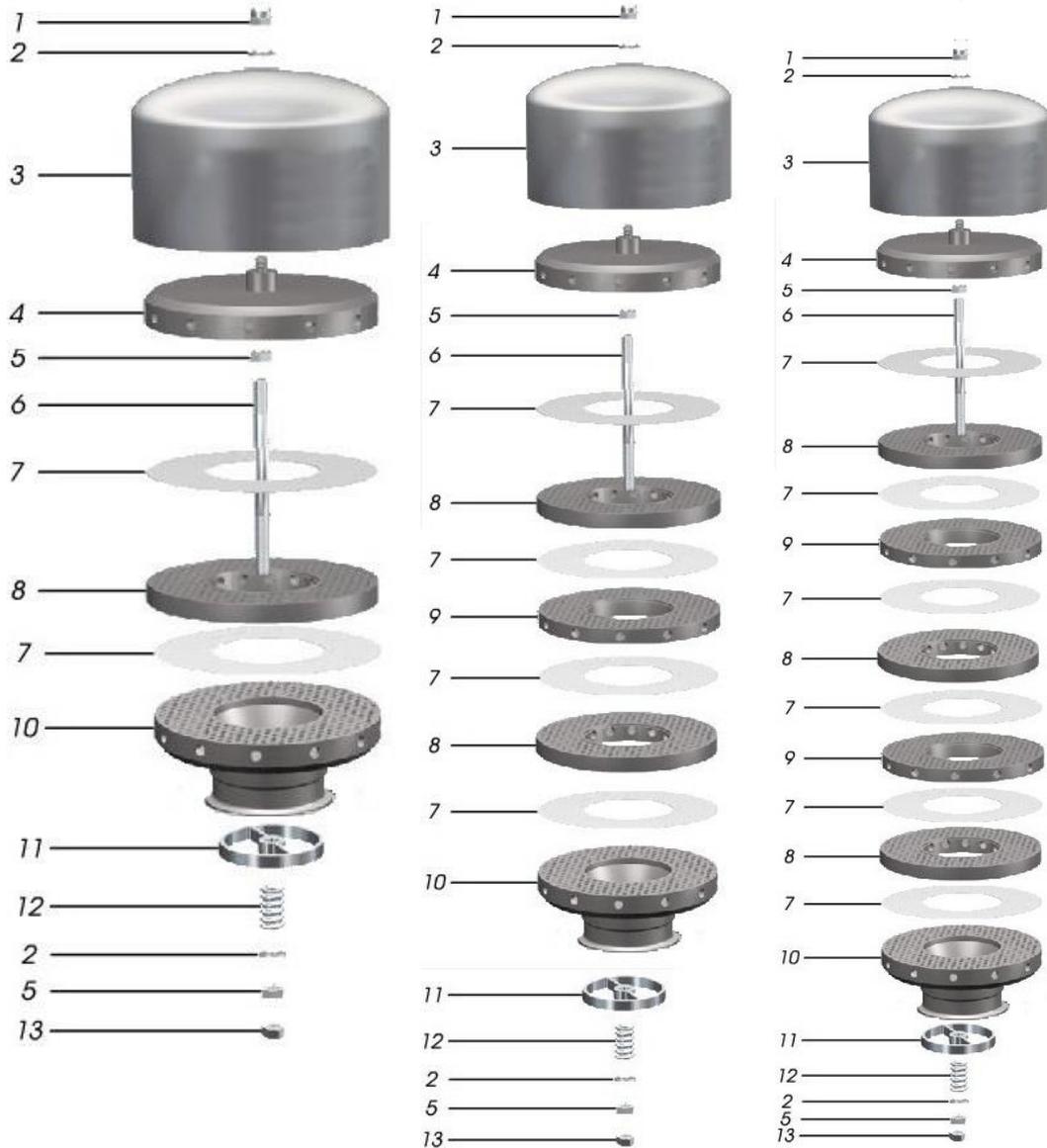
Tank Vent Filter Design

Unit Compression



- Unit is compressed and held together with compression spring.
- Element Stack is held secure by Threaded Rod and Nuts on both ends

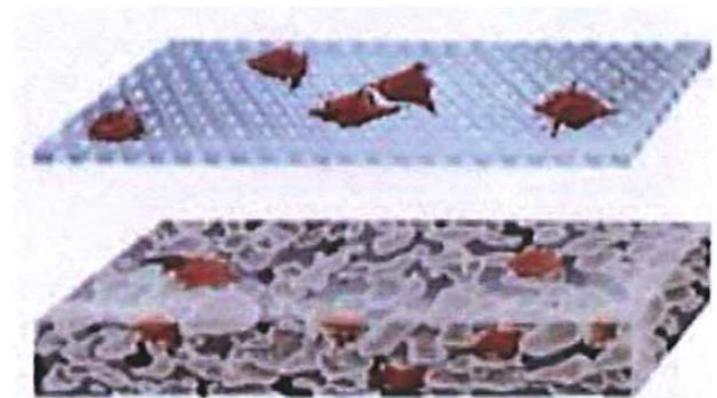
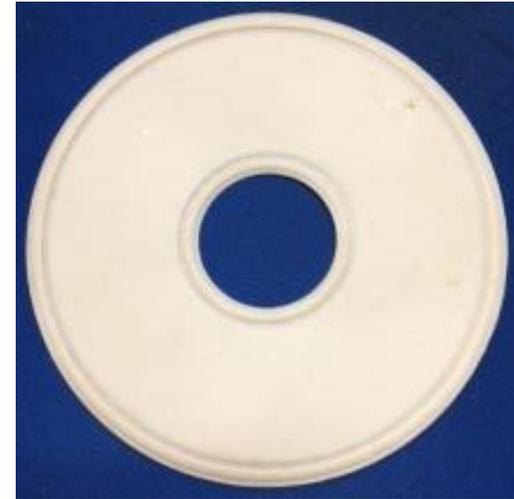
Modular Growth Capability



- Filter Capacity Growth can be achieved by added more support discs and filter media to your element.
- Multiple size growth is capable without buying a new housing or complete new filter.

Tank Vent Filtration Media

- Nonwoven polypropylene substrate
- Double Layer PTFE membrane
- Hydrophobic
 - No bacteria Growth possible
 - Media traps contaminants instead of absorbing
- 0.1 or 0.2 absolute micron rating standard
- Smaller micron available upon request
- High pore distribution and low PSID
 - Large surface area per inch of element height



Tank Vent Filtration Media

- Multiple sterilization methods possible
 - Steam
 - Hot air or Autoclave
 - PTFE compatible chemicals
- No deterioration or higher PSID after sterilizations
- 150 cleanings possible prior to replacement
- Simple Visual inspection of media integrity
- Quick and simple media replacement process



PSID Example Chart for BA-1404

Design PSID: $\Delta P < 0.29$

* Design flow of BA-1404*

GPM FLOW	SCFM LOAD	% Spike from Design	PSID
150*	20*	0	0.0414
187	25	25%	0.0518
225	30	50%	0.0621
299	40	100%	0.0829
374	50	150%	0.1036
449	60	200%	0.1243



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Product Line:

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