

## Industrial UF Spiral-Wound E-Coat Element: V4 (PVDF 70kDa)

Synder Filtration is a leading supplier of Ultrafiltration (UF) membranes and complete systems to the E-Coat industry worldwide. With a full range of molecular weight cutoffs and element sizes for both cathodic and anodic paint baths, Synder can outfit any E-Coat paint line with reliable ultrafiltration membrane elements.

### MEMBRANE SPECS

Model	Polymer	Approx. Molecular Weight Cutoff
V4	PVDF	70,000



### COMMON APPLICATIONS

- Cathodic electrocoat paint
- Laundry waste water
- Industrial water processes

### RECOMMENDED OPERATING PARAMETERS

Operating Parameters	
Typical Operating Flux	5-35 GFD (8-60 LMH)
Membrane Type	Proprietary PVDF
Membrane Construction	Spiral-Wound with netted outerwrap or fiber glass shell (FRP)
Membrane Temperature	Continuous Operation: 122°F (50°C) Clean-In-Place (CIP): 110°F (43.3°C)
pH Range	Continuous Operation: 1-11 Clean-In-Place (CIP): 2-10.5
Maximum Pressure Drop	FRP Element: 35psi (241kPa) Net Wrap Element: 17psi (117kPa)
Chlorine Tolerance	180ppm maximum per cleaning cycle

### V-SERIES FEATURES & BENEFITS

- The V-Series has a proprietary hydrophilic charge to repel paint particles and promote maximum flux rates.
- Membrane only requires one cleaning chemical plus acid. No other additives required.
- Integrated end plugs allow for easy integration and removal.
- Synder maintains a large portion of E-Coat devoted sales, engineering, and support staff as other membrane manufacturers worldwide.

### COMPREHENSIVE TECHNICAL SUPPORT

- Paint/MEQ Analysis
- On-site Flow Analysis
- UF System Optimization
- Analyte System Optimization
- Personalized Technical Support
- Lab Results in 24 hours

### CONTACT US



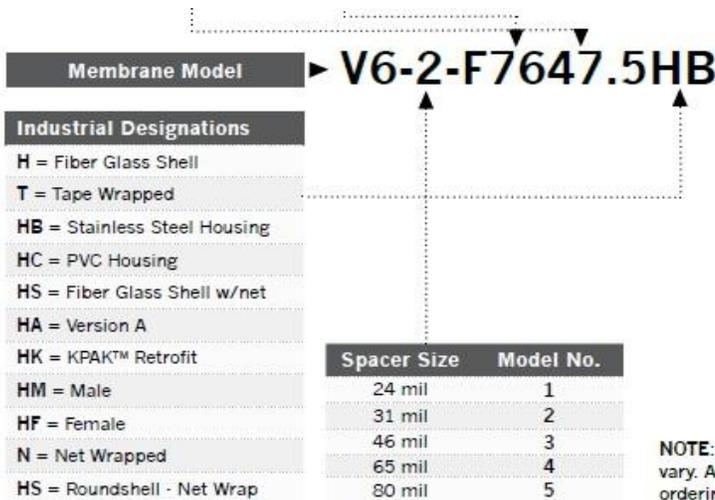
4941 Allison Parkway  
Vacaville, CA 95688, USA  
Phone: 1 (707) 451-6060  
Fax: 1 (707) 451-6064  
Email: [sales@synderfiltration.com](mailto:sales@synderfiltration.com)

*All inquiries will be responded to by a Synder employee personally within 24 hours.*



## ELEMENT DIMENSIONS & WEIGHT

Model #	Body Length (mm)	Element OD (mm)	ID Perm Tube ID (mm)	OD Perm Tube (mm)	Tube Ext Length (Male)	Feed Rate GPM (lpm)	Standard Housing
1812TM	10.00" (254)	1.8" (46)		0.675" (17)	0.75" (perm) 1.0" (plug)	2.0-3.0 (7.60-11)	IH-1812
2519H	19.25" (489)	2.5" (63.5)	0.62" (15.8)			6.0 (23)	IH-2519
2540H	38.00" (965.2)	2.5" (63.5)		0.75" (19.1)	1.00" (both ends)	6.0 (23)	IH-2540
3940AH	38.80" (985.5)	3.93" (99.8)		0.827" (21)	0.60" (both ends)	25 (95)	
3945H	45.00" (1143)	3.93" (99.8)	0.62" (15.8)			25 (95)	
4030H	27.0" (658.8)	3.93" (99.8)		0.84" (21.3)	3.00" (perm) 3.63" (plug)	25 (95)	IH-4030
4032H	29.50" (749.3)	3.93" (99.8)		0.75" (19.1)	1.06" (both ends)	25 (95)	
4033H	33.00" (838.2)	3.93" (99.8)	0.62" (15.8)			25 (95)	
4037H	27.00" (685.8)	3.93" (99.8)		0.84" (21.3)	3.00" (perm) 8.625" (plug=)	25 (95)	IH-KR4
4040AH	40.00" (1016)	3.93" (99.8)	0.62" (15.8)			25 (95)	
4045BH	40.00" (1016)	3.93" (99.8)		0.84" (21.3)	3.00" (perm) 1.875" (plug)	25 (95)	IH-4042
4045CH	45.00" (1143)	3.93" (99.8)	0.62" (15.8)			25 (95)	
4051.5H	40.00" (1016)	3.93" (99.8)		0.84" (21.3)	3.00" (perm) 8.50" (plug)	25 (95)	IH-40RF
5640H	40.00" (1016)	5.60" (142.2)	1.29" (32.8)			40 (151)	
5647.5H	40.00" (1016)	5.60" (142.2)		1.66" (42.2)	3.00" (perm) 4.375" (plug)	40 (151)	IH-60A
5651.5H	40.00" (1016)	5.60" (142.2)		1.66" (42.2)	3.00" (perm) 8.375" (plug)	40 (151)	IH-60RF
7637HB	33.00" (838.2)	7.45" (189.2)		1.66" (42.2)	2.00" (both ends)	70 (265)	
7640H	40.00" (1016)	7.28" (184.9)	1.29" (32.7)			70 (265)	
7640.5H	33.00" (838.2)	7.45" (189.2)		1.66" (42.2)	3.00" (perm) 4.375" (plug)	70 (265)	
7647.5HB	40.00" (1016)	7.45" (189.2)		1.66" (42.2)	3.00" (perm) 4.375" (plug)	70 (265)	IH-80S
7647.5HC	40.00" (1016)	7.28" (184.9)		1.66" (42.2)	3.00" (perm) 4.375" (plug)	70 (265)	IH-80D(C,E)
7640.5H	33.00" (838.2)	7.45" (189.2)		1.66" (42.2)	3.00" (perm) 4.375" (plug)	70 (265)	
7647.5HB	40.00" (1016)	7.45" (189.2)		1.66" (42.2)	3.00" (perm) 4.375" (plug)	70 (265)	IH-80S
7940HA	38.25" (717.6)	7.90" (200.7)		1.66" (42.2)	0.875" (both ends)	80 (303)	
F7940HA	40.00" (1016)	7.90" (200.7)	1.139" (28.9)	1.50" (38.1)		80 (303)	



### TECHNICAL NOTES

For element sizes not listed, please call or email Synder Filtration for details. We can design an element to fit your exact needs – just specify the element outer diameter (OD) or vessel/housing inner diameter (ID), element inner diameter (ID), and length. Additional feed spacers are also available.

**NOTE:** These vary. Always check ordering.