Ultramet-L® 5500 Series Filter Assembly (1.5 nm)



Data Sheet MEUL55ENa

Description

The Ultramet-L® 5500 Series Filter Assembly is an all 316L stainless steel filter designed for ≥ 1.5 nanometer (0.0015 μm) filtration of semiconductor process gases.

Features & Benefits

- All 316L stainless steel construction
- State-of-the-art 316L stainless steel media
- Excellent particle removal efficiency versus pressure drop
- Excellent gas displacement and desorption characteristics
- High temperature capabilities
- Compact size
- 100% helium leak tested
- Clean room manufactured and packaged
- Available preconditioned
- CE marked in accordance with PED 2014/68/EU



Specifications

Filter Medium	316L stainless steel			
Internal Surface Finish	5500: ≤ 10 µin / 0.25 µm R _a 5502: ≤ 0.7 µm R _{max}			
Housing	Electropolished 316L stainless steel			
	Housing material meets or exceeds VIM / VAR specifications			
Removal Rating	≥ 1.5 nm			
Particle Removal Characteristics	10° particle reduction up to 150 slpm			
Preconditioned Option ¹ (5502 Series)	< 10 ppb moisture contribution (Qualified per SEMASPEC test method #90120397B-STD)			
	< 10 ppb thc contribution (Qualified per SEMASPEC test method #90120396B-STD)			
	< 10 ppb 02 contribution (Qualified per SEMASPEC test method #90120398B-STD)			
	No particle contribution above background ≤ 1 particle / (ft³ or m³)			
	2 ,			

Connections	(VCR ² or compatible)		
	½" Butt Weld Male / Male (0.035" / 0.89 mm wall)		
	½" Gasket Seal Male / Male (VCR or compatible)		
	½" Butt Weld (0.049" / 1.24 mm wall)		
Leak Rating	100% helium leak tested to 10 ⁻⁹ atm·cm³/s		
	Design validated to 10 ⁻¹¹ atm∙cm³/s		
Maximum Operating Pressure	750 psig @ 100 °F / 51.7 bar @ 38 °C		
	550 psig @ 800 °F / 38 bar @ 426 °C for inert gases only		
Maximum Allowable Differential Pressure	75 psid @ 68 °F / 5.2 bar @ 20 °C		
EU Pressure Equipment	Assemblies have been evaluated and designed using SEP per the European Union's Pressure		

1/4" Gasket Seal Male / Male

and are not CE marked.

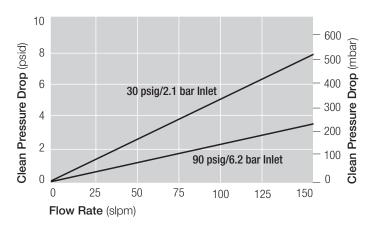
Equipment Directive 2014/68/EU

Equipment Directive

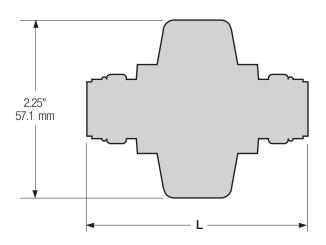
¹ The 5500 Series Filter Assembly is also available with a nickel filter. Contact Pall Microelectronics for more information

² VCR is a registered trademark of Swagelok Co.

Pressure Drop vs. Gas Flow Rate



Dimensions



Part Numbers / Ordering Information

Part Number	Description	Fitting Type	Length (L) (in / mm)	Preconditioned
GLFF5500VMM4	All 316L Stainless Steel	¹ ⁄₄"Gasket Seal (VCR or Compatible) Male / Male	5.00 / 127	No
GLFF5500VMM8	All 316L Stainless Steel	1/2"Gasket Seal (VCR or Compatible) Male / Male	5.00 / 127	No
GLFF5500BW4	All 316L Stainless Steel	½"Butt Weld, 0.035" / 0.89 mm wall	2.50 / 64	No
GLFF5500BW8	All 316L Stainless Steel	½"Butt Weld, 0.049" / 1.24 mm wall	2.50 / 64	No
GLFF5502VMM4	All 316L Stainless Steel	1/4"Gasket Seal (VCR or Compatible) Male / Male	5.00 / 127	Yes
GLFF5502VMM8	All 316L Stainless Steel	1/2"Gasket Seal (VCR or Compatible) Male / Male	5.00 / 127	Yes
GLFF5502BW4	All 316L Stainless Steel	½"Butt Weld, 0.035" / 0.89 mm wall	2.50 / 64	Yes
GLFF5502BW8	All 316L Stainless Steel	½"Butt Weld, 0.049" / 1.24 mm wall	2.50 / 64	Yes
SGLFF5500VMM4	All 316L Stainless Steel	1/4"Gasket Seal (VCR or Compatible) Male / Male	3.31/84	No
SGLFF5500VMM8	All 316L Stainless Steel	1/2"Gasket Seal (VCR or Compatible) Male / Male	3.31/84	No
SGLFF5502VMM4	All 316L Stainless Steel	1/4"Gasket Seal (VCR or Compatible) Male / Male	3.31/84	Yes
SGLFF5502VMM8	All 316L Stainless Steel	$\frac{1}{2}$ "Gasket Seal (VCR or Compatible) Male / Male	3.31/84	Yes

Unit conversion: 1 bar = 100 kilopascals



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6-5-1, Nishishinjuku, Shinjuku-ku Tokyo 163-1325 Japan +81 3 6901 5700 telephone +81 3 5322 2109 fax Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

 ${\it IF APPLICABLE} \ {\it Please} \ contact \ {\it Pall Corporation} \ to \ verify \ that \ the \ product \ conforms \ to \ your \ national \ legislation \ and/or \ regional \ regulatory \ requirements for \ water \ and \ food \ contact \ use.$

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