Ultramet-L[®] 5500 Series Filter Assembly



Data Sheet MEUL55EN

Description

The Ultramet-L® 5500 Series Filter Assembly is an all 316L stainless steel filter designed for \geq 3 nanometer (0.003 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

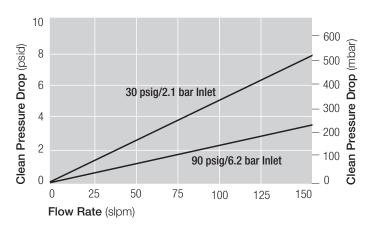
Filter Medium	316L stainless steel			
Internal Surface Finish	5500: ≤ 10 μin / 0.25 μm R _a 5502: ≤ 0.7 μm R _{max}			
Housing	Electropolished 316L stainless steel Housing material meets or exceeds VIM / VAR specifications			
Removal Rating	≥ 3 nm			
Particle Removal Characteristics	10° particle reduction 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)			

Connections	¹ / ₄ " Gasket Seal Male / Male (VCR ² or compatible)		
	½" Butt Weld Male / Male (0.035" / 0.89 mm wall)		
	¹ /2" Gasket Seal Male / Male (VCR or compatible)		
	½" Butt Weld (0.049" / 1.24 mm wall)		
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		
Leak Rating	100% helium leak tested to 10 ⁻⁹ atm•cm³/s		
	Design validated to 10 ⁻¹¹ atm·cm³/s		
EU pressure equipment directive	Assemblies have been evaluated and are CE marked per the European Union's Pressure Equipment Directive 2014/68/EU		

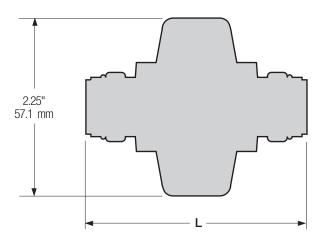
¹ The 5500 Series Filter Assembly is also available with a nickel filter. Contact Pall Microelectronics for more information.

 $^{^{\}rm 2}$ 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	$\frac{1}{2}$ "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	½"Gasket Seal (VCR or Compatible) Male/Male	5.00 / 127	Yes
GLFF5502BW4	All 316L Stainless Steel	1/4"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	1/2"Gasket Seal (VCR or Compatible) Male/Male	3.31 / 84	Yes

Unit conversion: 1 bar = 100 kilopascals



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IF APPLICABLE Please contact 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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