

Wafergard® Bulk Gas Filter Housing

Stainless steel gas filter housings for ultra-high flow filtration

Entegris offers a complete portfolio of high-flow filtration products to supply particle-free process gas at the point of supply. Constructed of durable stainless steel, Wafergard® bulk gas filter housings provide excellent chemical resistance. They are designed to work with our Savana® UP series of filter cartridges that provide quality, high-flow filtration for bulk gas applications or bulk specialty gas system applications. Wafergard bulk gas filter housings come in a variety of sizes with custom fittings to meet supply and installation requirements.

Housings have been qualified, tested, and meet the ASTM G93/G3M guideline cleanliness level for an oxygen enriched environment. All housing packaging is labeled with, "Cleaned for oxygen service in accordance to ASTM G93."



FEATURES & BENEFITS

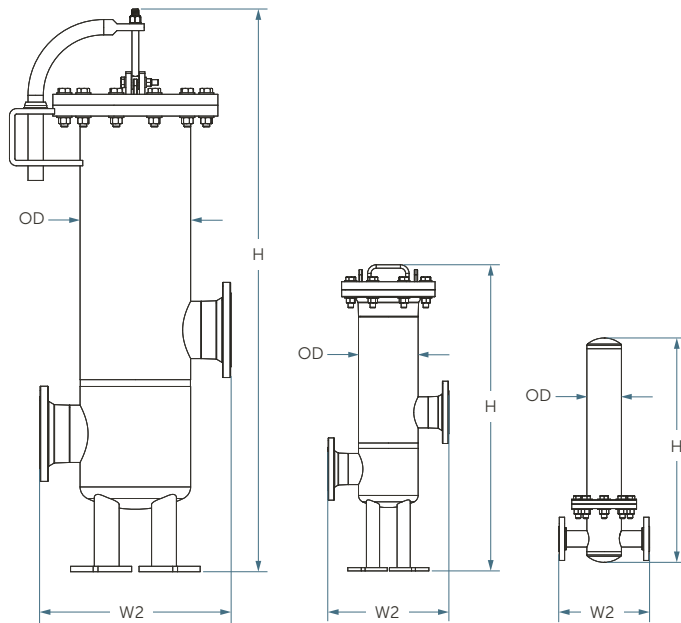
Houses one or multiple cartridges	Provides design flexibility and enables flow up to 60000 Nm ³ /hr
Housing side connections	Provide easy, user-friendly installation
Reduced housing construction with one body flange	Saves valuable space
All butt weld ends are extended at least 3" from its housing body	Provides easier onsite cutting and welding
Mirror finish exterior surface	Provides cleanroom ready installation

SPECIFICATIONS

Materials of construction	304 or 316L stainless steel	
	Electropolished (EP), Bright Annealed (BA) equivalent, Mechanically Polished (MP)	
	Internal surface finish at Ra <0.2 µm with EP and BA equivalent or Ra <0.63 µm with MP	
Configurations	ANSI, JIS, DIN size flanges or butt weld customized to requirements	
	FNPT vent and drain connections (optional)	
	Up to ¾" VCR connections available for single cartridge housing	
	FNPT differential pressure instrument taps on housing sides	
Compliance	Housing is custom designed, manufactured, tested, audited, and stamped in compliance to the local pressure vessel regulatory requirements.	
	All 6" OD or smaller housings are shop tested: - Hydraulic pressure holding tested 1.3x design pressure for 30 minutes - N₂ leak tested 1x design pressure for 5 minutes	
Operating conditions	Design pressure option: Up to 34 barg at 65°C (149°F)	
Helium (He) leak rating	Qualified	6 × 10 ⁻¹⁰ atm cc/sec
	Tested	1 × 10 ⁻⁶ atm cc/sec
Oxygen service	Assessed, tested, and meets ASTM G93/93M cleanliness guidelines.	
	Packaging labeled with "Cleaned for oxygen service per ASTM G93."	
Certification mark	CE marked to EU Pressure Equipment Directive: Housings that are designed, manufactured, test and CE marked in compliance to European Union Pressure Equipment Directive 2014/68/EU. U-stamped to ASME section VIII: Housings that are designed, manufactured and U-stamped in accordance to the ASME Code Section VIII Designed, manufactured, tested, inspected and marked in compliance with the applicable Japanese pressure vessel code below: Japan Industrial Safety Act - Design Pressure, DP: 0.2MPaG < DP < 1MPaG - One of the following geometrical conditions must be met: - Internal volume, V ≥ 0.04m³, or - Shell length, L ≥ 1000 mm AND Shell inner diameter, d ≥ 200 mm High Pressure Gas Safety Act - DP ≥ 1MPaG - No geometric requirements Pressure vessels which do not meet the above conditions have no applicable Japanese pressure vessel code, and no authorized inspection is necessary.	

Please consult your Entegris sales representative to have the correct certification mark performed to your requirement.

DIMENSIONS



Model	Number of cartridges	Cartridge length	Nominal height (H)	Nominal diameter (OD)	Connection distance (W2)
Savana UP AT/Mini 10	1	250mm (10")	420mm (16.4")	102mm (4")	267mm (10.5")
Savana UP AT/Mini 20	1	500mm (20")	660mm (25.9")	102mm (4")	267mm (10.5")
Savana UP AT/Mini 30	1	760mm (30")	900mm (35.5")	102mm (4")	267mm (10.5")
Savana UP AT/Mini Multi-5 20	5	500mm (20")	1120mm (44.3")	219mm (8.6")	445mm (17.5")
Savana UP AT/Mini Multi-5 30	5	760mm (30")	1350mm (53")	219mm (8.6")	445mm (17.5")
Savana UP (AT only) Multi-12 20	12	500mm (20")	1430mm (56.3")	324mm (12.8")	563mm (22.2")
Savana UP (AT only) Multi-12 30	12	760mm (30")	1650mm (65")	324mm (12.8")	563mm (22.2")
Savana UP 10	1	250mm (10")	510mm (20.2")	152mm (6")	368mm (14.5")
Savana UP 20	1	500mm (20")	770mm (30.2")	152mm (6")	368mm (14.5")
Savana UP 30	1	760mm (30")	1020mm (40")	152mm (6")	368mm (14.5")
Savana UP Multi-7 20	7	500mm (20")	1440mm (57")	466mm (18.3")	737mm (29")
Savana UP Multi-7 30	7	760mm (30")	1680mm (66")	466mm (18.3")	737mm (29")
Savana UP Multi-15 20	15	500mm (20")	1870mm (73")	674mm (26.5")	1004mm (39.5")
Savana UP Multi-15 30	15	760mm (30")	2100mm (82")	674mm (26.5")	1004mm (39.5")
Savana UP HF 20	1	550mm (20")	1410mm (56")	273mm (10.8")	457mm (18")
Savana UP HF 40	1	1056mm (40")	1910mm (75")	273mm (10.8")	457mm (18")
Savana UP HF Multi-3 40	3	1000mm (40")	2000mm (79")	466mm (18.3")	737mm (29")
Savana UP HF Multi-6 40	6	1000mm (40")	2340mm (92")	674mm (26.5")	1004mm (39.5")
Savana UP HF Multi-13-40	13	1000mm (40")	2710mm (106")	1030mm (41")	1500mm (59.1")

Housing part number contains 17 characters as described below.

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FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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