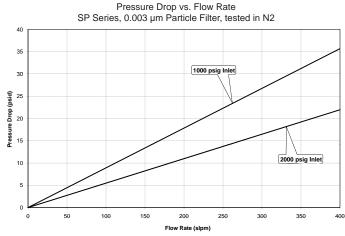


SP70, SP300, SP600

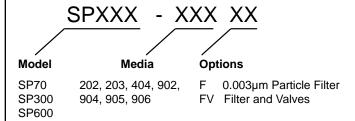
MicroTorr purifiers are the most complete and reliable solution for Point-of-Use (POU) gas purification. Combining model size with a selection of gas-specific purification materials, MicroTorr purifiers can be tailored to many different customer applications, while maintaining impurity removal to Part-Per-Billion (ppbV) levels or better. Optional valves and a 0.003 micron particle filter are available as well as custom subsystem configurations.

Competitive Advantages and Benefits:

- Reliability. Uncompromised process consistency and yield improvement.
- Performance. State-of-the-art purification technology, low pressure drop, and long lifetimes.
- Regenerability. Most MicroTorr media are factory regenerable, minimizing potentially hazardous waste.
- Quality. 316L stainless steel, Helium leak checked, pressure tested, and analytical testing to Part-per-Trillion (pptv) levels.
- Support. Lifetime estimation and regeneration service available through SAES Pure Gas Sales Network.



Ordering Information



Example: SP600-902F

Model: SP600 Media: 902 Options: 0.003µm Particle Filter



SP70, SP300, SP600

 Lifetime Consult factory for specific lifetimes

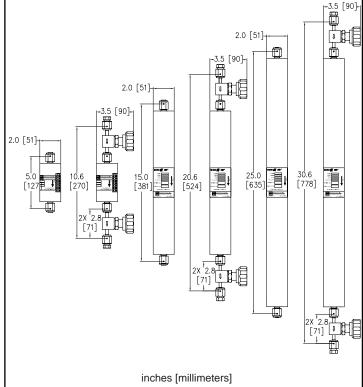
SP70 SP300 SP600

• Maximum Flow†: 75 slpm 200slpm 400slpm

Nominal Flow: 1.5 slpm 10 slpm 15 slpm

Maximum Pressure: 3000 psig
†Maximum flowrate at pressure over 2000 psig.

See reverse for more information.



Install Vertically with flow downward in direction of

arrow. Consult factory for other mounting options.



Mechanical Specefications

Model	SP70-*F	SP70-*FV	SP300-*F	SP300-*FV	SP600-*F	SP600-*FV	
†Maximum Flow (psig ≤ 2,000)	20 s	lpm	100	slpm	200 slpm		
†Maximum Flow (psig > 2,000)	40 s	lpm	200	slpm	400 slpm		
Nominal Flow		slpm		slpm	15 slpm		
Material	Body-316L S	tainless Steel	Body-316L S	tainless Steel	Body-316L Stainless Steel		
Filter (Outlet)	Integrated00	3 micron metal	Integrated00	03 micron metal	Integrated003 micron metal		
Valves	N/A	YES	N/A	YES	N/A	YES	
Max Operating Pressure	3000 psig (206.	8 barg) @ 40°C	3000 psig (206	.8 barg) @ 40°C	3000 psig (206.8 barg) @ 40°C		
Max Temp Rating	40° C (104° F)	40° C (104° F)	40° C (104° F)		
Inlet	1/4" MVCR	1/4" FVCR	1/4" MVCR	1/4" FVCR	1/4" MVCR	1/4" FVCR	
Outlet	1/4" MVCR	1/4" FVCR	1/4" MVCR	1/4" FVCR	1/4" MVCR	1/4" FVCR	
Length (Face to Face)	5.00"±.05 [127.0mm±1.3]	10.60"±.10 [270.0mm±2.5]	15.00"±.05 [381.0mm±1.3]	20.60"±.10 [524.0mm±2.5]	25.00"±.05 [635.0mm±1.3]	30.60"±.10 [778.0mm±2.5]	
Outside Dia (Purifier)	2.00" [50.8mm]	2.00" [50.8mm]	2.00" [50.8mm]	2.00" [50.8mm]	2.00" [50.8mm]	2.00" [50.8mm]	
Electropolish	Ye	es	Y	es	Yes		
Leak Rating		cc/sec of He		cc/sec of He	1x10-9 atm cc/sec of He		
Weight	< 2.3 lbs (< 1.0 kg)	< 4.3 lbs (< 1.9 kg)	6.6 lbs (3.0 kg)	8.6 lbs (3.9 kg)	11.0 lbs (5.0 kg)	13.0 lbs (5.9 kg)	

^{*}The 3 digit number found in the model number equates to the "Media" row in the table below.

Purification and Removal Capabilities

Media	Gases Purified	Impurities Removed	Outlet Performance	Regenerable	Dangerous Goods (DG) Classification	
202	Ar, CDA, H_2 , He, Kr, N_2 , Ne, O_2 , Xe, CO_2 , N_2O , CO , D_2	H ₂ O	< 1 ppbV	YES	Non-DG	
		H ₂ O, CO ₂ ,	< 100 pptV			
203	Ar, CDA, H_2 , He, Kr, N_2 , Ne, O_2 , Xe, N_2O , CO, D_2	Acids, Organics, Refractory Compounds*	< 1 pptV	YES	Non-DG	
		Bases*	< 5 pptV			
404	Ar, CDA, H_2 , He, Kr, N_2 , Ne, O_2 , Xe, CO_2 , C_2H_2 , C_3H_6 , C_2H_4 , NH_3	Organics*	< 1 ppbV	YES	Non-DG	
		H ₂ O, O ₂ , CO, CO ₂ , H ₂	< 100 pptV	YES	DG - UN2881 Class 4.2	
902 Ar, He,	Ar, He, Kr, N ₂ , Ne, Xe	Acids, Organics, Refractory compounds*	< 1 pptV			
		Bases*	< 5 pptV			
		H ₂ O, O ₂ , CO, CO ₂	< 100 pptV			
904	H ₂ , H ₂ -Inerts Mix, D ₂	Acids, Organics, Refractory compounds*	< 1 pptV	YES	DG - UN2881 Class 4.2	
		Bases*	< 5 pptV			
905	C ₂ F ₆ , C ₂ H ₆ , C ₃ F ₈ , C ₃ H ₈ , C ₂ F ₄ H ₂ , C ₄ F ₈ , C ₄ H ₁₀ , CCl ₄ , CF ₄ , CH ₄ , CHF ₃ , SF ₆	H ₂ O, O ₂ , CO, CO ₂ , H ₂ NMHCs	< 1 ppbV	YES	DG - UN2881 Class 4.2	
906	CDA, O_2, N_2O	H ₂ O, CO, CO ₂ , NMHCs	< 1 ppbV	YES	Non-DG	

^{*}Organic compounds (C>5) measured as Toluene. Acid compounds (SO2, NOx, H2S..) measured as SO2. Base compounds (NH3, amines...) measured as NH3. Silicon/Refractory compounds (HMDSA, HMDSO, TMS) measured as HMDSO

Other Sizes Available

Model Number	MC1	MC50	MC190	MC200	MC400	MC450	MC500	MC700	MC1500	MC2525	MC2550	MC3000	MC4500	MC9000
Maximum Flow (slpm)	5	10	50	50	60	75	100	120	250	300	500	500	1000	1000
Average Flow (slpm)	0.5	1.5	5	5	9	10	12	25	40	80	80	80	200	300