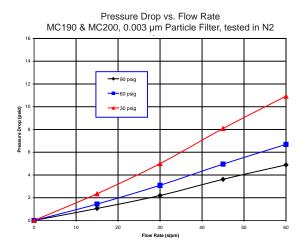
MC200

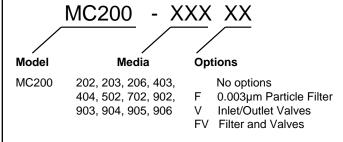
MicroTorr purifiers are the most complete and reliable solution for Point-of-Use (POU) gas purification. Combining model size with a selection of gas-specific purification materials, MicroTorr purifiers can be tailored to many different customer applications, while maintaining impurity removal to Part-Per-Billion (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: MC200-902F

Model: MC200 Media: 902 Options: 0.003µm Particle Filter



MC200

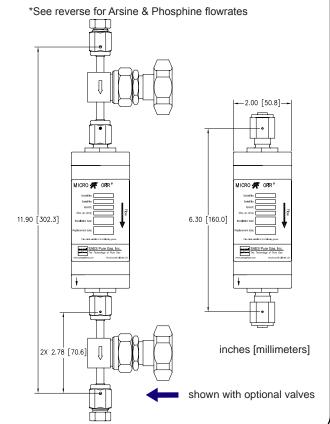
Lifetime

Consult factory for specific lifetimes

Maximum Flow: 50 slpm*

Nominal Flow: 5 slpm*

Maximum Pressure: 250 psig





Mechanical Specifications

Model	MC200-*	MC200-*V	MC200-*F	MC200-*FV						
Maximum Flow	50 slpm [†]	50 slpm [†]	50 slpm [†]	50 slpm [†]						
Nominal Flow	5 slpm [†]	5 slpm [†]	5 slpm [†]	5 slpm [†]						
Material	Body-316L Stainless Steel									
Filter (Outlet)	Integrated - 2	micron metal	Integrated 0.003 micron, metal							
Valves	N/A	1/4" manual	N/A	1/4" manual						
Max Operating Press	250 psig (17.3	barg) @ 40°C	250 psig (17.3 barg) @ 40°C							
Max Temperature Rating	40°C (104°F)	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						
Outlet	1/4" MVCR	1/4" FVCR	1/4" MVCR	1/4" FVCR						
Length (Face to Face)	6.30"±.03 [160mm±0.8]	11.90"±.08 [302.3mm±2.0]	6.30"±.03 [160mm±0.8]	11.90"±.08 [302.3mm±2.0]						
Outside Diameter	2.00" [50.8mm]	2.00" [50.8mm]	2.00" [50.8mm]	2.00" [50.8mm]						
Electropolish	Yes	Yes	Yes	Yes						
Leak Rating	1x10 ⁻⁹ atm cc/sec of He									
Weight	1.8 lbs (0.8 kg)	3.7 lbs (1.7 kg)	1.8 lbs (0.8 kg)	3.7 lbs (1.7 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	H ₂ O	< 1 ppbV	YES	Non-DG	
203 Ar, 0		H ₂ O, CO ₂ ,	< 100 pptV		Non-DG	
	Ar, CDA, H ₂ , He, Kr, N ₂ , Ne, O ₂ , Xe	Acids, Bases, Organics, Refractory Compounds*	< 10 pptV	YES		
206	CO	H ₂ O	< 1 ppbV	YES	Non-DG	
403	Ar, CDA, $\mathbf{H_2}$, He, Kr, $\mathbf{N_2}$, Ne, Xe	Acids, Bases, Organics, Refractory Compounds*	< 1 ppbV	NO	Non-DG	
404	CO ₂ , C ₂ H ₂ , Ar, CDA, H ₂ , He, Kr, N ₂ , Ne, Xe	NMHC	< 1 ppbV	YES	Non-DG	
502	PH ₃ , AsH ₃	H ₂ O, O ₂	< 1 ppbV	NO	Non-DG	
702	NH ₃ , C ₂ H ₇ N, C ₂ H ₈ N ₂	H ₂ O, O ₂ , CO ₂	< 1 ppbV	YES	DG - UN3089 Class 4.1	
902	Ar, He, Kr, N ₂ , Ne, Xe	H ₂ O, O ₂ , CO, CO ₂ , H ₂ NMHC	< 1 ppbV	YES	DG - UN2881 Class 4.2	
		H ₂ O, O ₂ , CO, CO ₂ , H ₂	< 100 pptV		DG - UN2881 Class 4.2	
903	Ar, He, Kr, N ₂ , Ne, Xe	Acids, Bases, Organics, Refractory Compounds*	< 10 pptV	YES		
904	H ₂	H ₂ O, O ₂ , CO, CO ₂ , NMHC	< 1 ppbV	YES	DG - UN2881 Class 4.2	
905	C_2F_6 , C_2H_6 , C_3F_8 , C_3H_8 , $C_2F_4H_2$, C_4F_8 , C_4H_{10} , CCI_4 , CF_4 , CH_4 , CHF_3 , SF_6	H ₂ O, O ₂ , CO, CO ₂ , H ₂ NMHC	< 1 ppbV	YES	DG - UN2881 Class 4.2	
906	CDA, O ₂	H ₂ O, CO, CO ₂ , NMHC	< 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	MC1500	MC2525	MC2550	MC3000	MC4500	MC9000
Maximum Flow (slpm)	5	10	50	50	60	75	100	250	300	500	500	1000	1000
Average Flow (slpm)	0.5	1.5	5	5	9	10	12	40	80	80	80	200	300

Piping Options Available

3 Valve Bypass

[†]Flowrates with 502 media: Arsine/Phosphene max= 10.0 slpm, nominal= 5.0 slpm.