

# NON-CORROSIVE ANALYZER FILTERS

## Features:

- Ideal Instrumentation Filters
- Compact Design
- Low Cost Analyzer Protection
- All Metal Internals

## Applications:

- High Temperature / Heated Systems
- Emission Instrumentation Filters
- For Calibration Air



Our 200 series is an extension of the 300 series compressed air filters. However, the 200 series comes standard with Viton O-rings and should be used where non-corrosive gases are filtered. These housings are designed to use adsorption cartridges since they come with metal tie rod internals which will accept the adsorption cartridges. Standard elements can also be utilized.

The transparent polycarbonate bowl allows continuous element monitoring for accurate analyzer protection.

The housings are available without drains for particulate removal, and with manual drains for coalescing applications. They are also ideal for point-of-use instrumentation filtration or general-purpose compressed air service. Automatic float drains are available on the 300 series version.

## PRINCIPLE SPECIFICATIONS

Housing Model with Drain	210		210A		235	
Housing Model w/o Drain	205		205A		--	
Headline Part Number with Drain	210	213	210A	213A	235	235A
Headline Part Number w/o Drain	200	203	200A	203A	--	--
Port Size (NPT)	1/8"		1/8"		1/4" or 1/2"	
Drain (Nylon)	Twist		Petcock		Petcock	Petcock
Maximum Pressure (psig)	150		500		150	250
Maximum Temperature (°F)	120		240		120	240
Internal Volume (cc)	35		45		135	135
Principle Dimensions: (inches)						
Center Of Port To Head	0.39		0.39		0.39	
Head Diameter	1.57		1.57		2.44	
Overall Length	4.17		4.17		4.64	
Element Removal Clearance	1.49		1.49		2.48	
Filter Element Codes: (1)						
Disposable Element	12-32-□		12-32-□		25-64-□	
Stainless Steel Element	SS-12-32-□		SS-12-32-□		SS-25-64-□	
PEL Element	PEL-12-32-□		PEL-12-32-□		PEL-25-64-□	
PTFE Element	PT-12-32-□		PT-12-32-□		PT-25-64-□	
Materials Of Construction: (2)						
Head	AL		AL		AL	AL
Bowl	PC		AL		PC	AL
Internals	AL		AL		AL / SS	AL / SS
O-Rings (Standard)	Viton		Viton		Viton	Viton
Accessories:						
Mounting Bracket	MBSS110		MBSS110		MBSS235	
Buna-N Seal Set (Standard)	BN210		BN210		BN235	
EPDM Seal Set	GE210		GE210		GE235	
Kalrez Seal Set	KZ210		KZ210		KZ235	
Viton Seal Set	GV210		GV210		GV235	

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	205 Series / 210 Series		235 Series	
	50C	70C	50C	70C
2	1	3	1	3
15	2	6	2	6
30	3	9	3	9
60	4	14	4	14
100	6	23	6	23
150	9	31	9	31
200	12	46	12	46
250	13	47	13	47

- Notes: (1) Replace "□" with grade required, e.g. 12-32-70C, SS-12-32-25, PEL-25-64-10  
 (2) Material abbreviations, AL = Aluminum, PC = Polycarbonate, SS = Stainless Steel  
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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Partner of Headline Filters

AL200-2

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## Applications:

- High Temperature / Heated Systems
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Our 230 and 250 series of housings are designed for high flow instrumentation and analytical service. The all metal construction eliminates temperature and chemical compatibility issues that may occur when plastic filter housings are utilized.

They are often used as final "scrubbers" on calibration gases with adsorption cartridges. Please see bulletin for [adsorption cartridge](#) information.

## PRINCIPLE SPECIFICATIONS

Housing Model with Drain	230		230A		250		250A	
Housing Model w/o Drain	225		225A		245		245A	
Headline Part Number with Drain	230	233	230A	233A	250	253	250A	253A
Headline Part Number w/o Drain	223	225	223A	225A	243	245	243A	245A
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"
Drain (Nylon)	Twist		Petcock		Twist		Petcock	
Maximum Pressure (psig)	150		500		150		500	
Maximum Temperature (°F)	120		240		120		240	
Internal Volume (cc)	150		165		300		320	
Principle Dimensions: (inches)								
Center Of Port To Head			0.61				0.61	
Head Diameter			2.44				2.44	
Overall Length			6.38				10.43	
Element Removal Clearance			2.83				7.24	
Filter Element Codes: (1)								
Disposable Element			25-64-□				25-178-□	
Stainless Steel Element			SS-25-64-□				SS-25-178-□	
PEL Element			PEL-25-64-□				PEL-25-178-□	
PTFE Element			PT-25-64-□				PT-25-178-□	
Materials Of Construction: (2)								
Head	AL		AL		AL		AL	
Bowl	PC		AL		PC		AL	
Internals	AL / SS		AL / SS		AL / SS		AL / SS	
O-Rings (Standard)	Viton		Viton		Viton		Viton	
Accessories:								
Mounting Bracket			MBSS130				MBSS130	
Buna-N Seal Set (Standard)			BN230				BN230	
EPDM Seal Set			GE230				GE230	
Kalrez Seal Set			KZ230				KZ230	
Viton Seal Set			GV230				GV230	

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	230 Series		250 Series	
	50C	70C	50C	70C
2	3	6	6	8
15	6	11	10	13
30	8	16	15	19
60	13	26	25	32
100	21	44	40	50
150	29	58	55	68
200	42	88	80	100
250	45	89	83	106

- Notes: (1) Replace "□" with grade required, e.g. 25-64-70C, SS-25-178-25  
 (2) Material abbreviations, AL = Aluminum, PC = Polycarbonate, SS = Stainless Steel  
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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