

High Efficiency Filtration
for compressed air



Compressed Air Filters



Compressed
air treatment



high efficiency
**Coalescing, Particulate &
Activated Carbon**

Filters

Coalescing Filters



Pleated media with up to eight times the surface area of conventional filters, resulting in extended element life, efficiency and lowest operating costs.



ISO 8573-1 exceeds international air quality standards.



The proper selection and use of filtration can save up to 80% in maintenance costs caused by air contamination.

Differential
Pressure
Gauge

Aluminum
Housing

Pleated Filter
Element

Automatic Float-type
Condensate Drain
(Full Electronic Drain Optional)



Filter elements **3** Grades U, H, C



- ✓ Only the highest quality borosilicate microfibers are used to insure the most efficient coalescing process.
- ✓ Engineered for optimal performance
- ✓ Stainless steel support screens
- ✓ Aluminum end caps
- ✓ Three grades to satisfy all applications

	Grade U Coalescer	Grade H Fine Coalescer	Grade C Activated Carbon
Oil content residual (ppmw)	0.05	0.001	0.0003
Particulate residual (microns)	1.0	0.01	—
Efficiency D.O.P.	99.99	99.9999	99.9



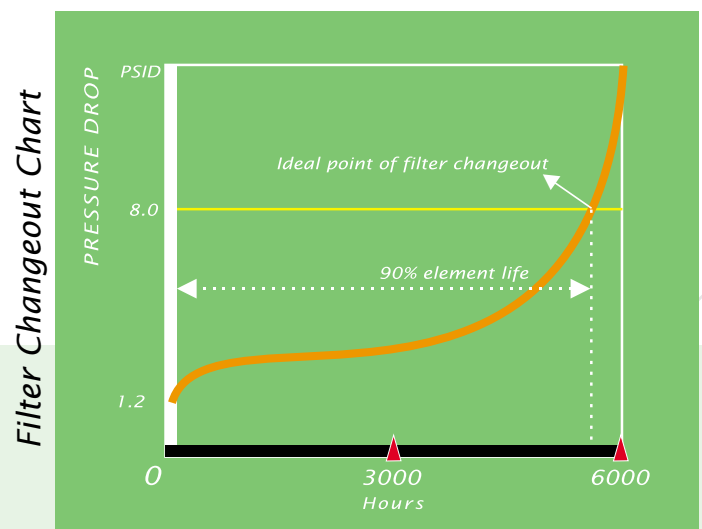
NewGate Filter

Conventional Filter

The basic benefits that we offer with our pleated filter media are:

- Higher effective filtration area
- Higher dirt holding capacity/Longer life
- Lower pressure drop

Wrapped media filters are inferior in performance, life and operating cost.



Filter Changeout Chart

Change filter elements annually or as per pressure differential gauge or when cost of pressure drop is higher than the cost of the replacement element.

- ✓ The filtration process does not change the dewpoint of the compressed air. Temperature drop after the filter can still result in condensate downstream.
- ✓ To obtain the best coalescing performance, the air temperature should be reduced to approximately 33 °F, allowing maximum oil removal.
- ✓ Correctly size filters by air flow and not pipe connection size.
- ✓ Filter grade H should be preceded by filter grade U. Filter grade C must always be preceded by either filter grade U and/or H.

Filter Technical Information

Filter Model	Pipe Conn. NPT	Capacity 100 PSIG (scfm)	Max Oper. Pressure (psig)	Approx. Weight (lbs)	Dimensions (inches)				Replacement Element Model*
					A	B	C	D	
G10	½	25	235	3	3	7	1	2	EA10
G15	½	35	235	3	3	8	1	3	EA15
G20	½	50	235	3	3	8	1	4	EA20
G30	½	70	235	4	3	11	1	4	EA30
G55	1	115	235	9	5	12	2	5	EA55
G95	1½	200	235	11	5	16	2	9	EA95
G150	1½	320	235	12	5	20	2	13	EA150
G220	1½	470	235	19	5	28	2	21	EA220
G290	2	620	235	25	7	32	2	21	EA290
G430	2½	925	235	29	7	42	2	30	EA430
G625	3	1325	235	44	10	41	3	24	EA625
G775	3	1650	235	61	10	47	3	30	EA775

*For larger flow requirements contact NewGate Technologies.

*Specify filter grade U, H or C.

Capacity Correction Factors For Various Operating Pressures

Pressure (psig)	15	30	45	60	75	90	100	115	130	145	160	175	190	200	220	235
Factor	0.25	0.38	0.5	0.65	0.75	0.88	1.0	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2.0	2.13

Filter Grade	Particle Removal Down To	Oil Removal Down To (*)	Nominal Initial Pressure Drop
U	1 micron	0.05 ppmw	0.75 psid
H	0.01 micron	0.001 ppmw	1.3 psid
C	—	0.0003 ppmw	1.5 psid

(*) Referred to 100PSIG and 75 °F.

General Information

Maximum recommended operating temperature is 140 °F.

Minimum recommended operating temperature is 33 °F.

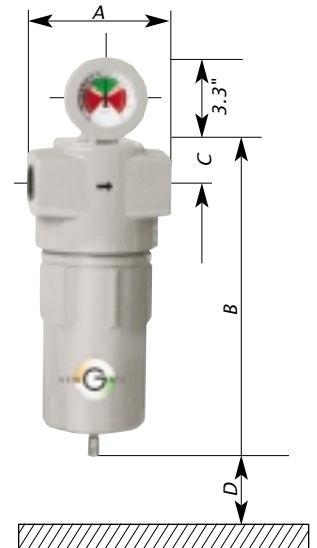
Maximum recommended operating pressure is 235 PSIG.

Maximum recommended pressure differential for element change is 10 PSIG. (Except Grade C)

Filter housing is aluminium alloy, epoxy paint.

Filters come complete with autodrain. Gauges are standard on models G95 and above.

Timed electronic and Zero Air-loss drain valves optional.



Integrated Refrigerated Dryers



High Temperature Refrigerated Dryers



Desiccant Dryers



Air-Cooled Aftercoolers



Electronic Drain Valves



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