Side Exhaust Mist Eliminating Filters

Series H20 - Enameled Steel • Series H22 - 304 Stainless Steel

FLTR Purple Engineering

- **Connection Sizes 1 ¼" to 24"**
- **All Steel Construction.** • **Options:** ΔP Taps, ΔP gauges, angle legs

Series H20 (enamel steel) and Series H22 (304SS) each employ a bolt seal closure with bottom inlet and side exhaust permitting remote vapor routing if desired.

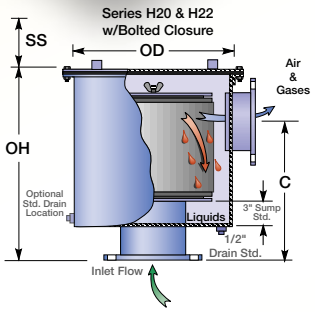
- **Rugged Design - 15 psid** @ -20 to 200°F (Non Code)
- **304 Stainless Steel Throat Safety Cages Standard**
- **Three Styles of Exhaust Elements Available**

Classic Two Stage Microglass Exhaust Elements are time-honored performers. However, their non-pleated cylindrical construction can generate a higher pressure drop (typ. ΔP 2 psi clean) and requires a larger filter housing to accept the physically large exhaust element.

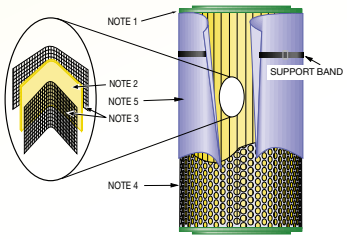
Newer High Flow Low ΔP Pleated Microglass Elements have permited a less expensive more compact housing design together with a proven much lower pressure drop. Their extended filter area effectively retains both particulates and mist droplets with removal performance to 0.3µ The extended filter area provides superior dirt and particulate retention capacities. Oil & Gas Resistant Ends with double track seals out perform metal end style elements.



Access Handles Standard on Models with OD 12" and greater.



High Flow Performance
Low ΔP, Pleated
Coalescing Filter Element Construction



1. *Oil & Gas Resistant Ends*
2. *MicroGlass/Synthetic composite media.*
3. *Upstream/Downstream epoxy coated screen jackets.*
4. *Perforated steel core; Perforated outer shell (corrosion control coated).*
5. *Outer foam drain wrap.*

High Flow, Low ΔP, Pleated Microglass Exhaust Elements with field removable foam drain wrap.



Classic Dual Stage Microglass Exhaust Filter Element.



Enameled Steel Housing Cat. No.	304SS Housing Cat. No.	Typ. Flow	Std. Connection		Approximate Dimensions, Inches				Wgt.	Select One Filter Element Below		
		CFM	Size	Type	OH	OD	C	SS	lbs.	Classic Filter Element	0.3 µ High Flow Pleated Element	≤ 0.3 µ High Performance Pleated Elem.
H20-0001-MT-012	H22-0001-MT-012	40	1.25"	M	13.5	6.63	9	5	23		321-2118WK907	321-2118WK927
H20-0012-MT-012	H22-0012-MT-012	40	1.25"	M	9.25	6.63	6	6	12	321-1890		
H20-0001-MT-015	H22-0001-MT-015	50	1.5"	M	13.5	6.63	9	5	23		321-2118WK907	321-2118WK927
H20-0013-MT-015	H22-0013-MT-015	50	1.5"	M	10.5	6.63	7	7	13	321-1864		
H20-0014-MT-015	H22-0014-MT-015	50	1.5"	M	13.5	10.75	9	10	33	321-1895		
H20-0002-MT-020	H22-0002-MT-020	100	2"	M	16	6.63	12	8	24		321-2119WK907	321-2119WK927
H20-0015-MT-020	H22-0015-MT-020	100	2"	M	17.5	16	12	12	75	321-1893		
H20-0003-MT-030	H22-0003-MT-030	250	3"	M	24	8.63	20	16	38		321-2120WK907	321-2120WK927
H20-0016-MT-030	H22-0016-MT-030	250	3"	M	23.5	20	17	17	125	321-1884		
H20-0004-MT-040	H22-0004-MT-040	350	4"	M	24	10.75	20	16	55		321-2121WK907	321-2121WK927
H20-0017-MT-040	H22-0017-MT-040	350	4"	M	23.5	24	17	17	175	321-1894		
H20-0005-FF-050	H22-0005-FF-050	700	5"	Flg	40	12.75	34	25	85		321-2122WK907	321-2122WK927
H20-0018-FF-050	H22-0018-FF-050	700	5"	Flg	30.5	24	24	24	195	321-1891		
H20-0005-FF-060	H22-0005-FF-060	1000	6"	Flg	40	12.75	34	25	90		321-2122WK907	321-2122WK927
H20-0019-FF-060	H22-0019-FF-060	1000	6"	Flg	30.5	24	24	24	200	321-1891		
H20-0006-FF-080	H22-0006-FF-080	1500	8"	Flg	40	16	34	25	120		321-2123WK907	321-2123WK927
H20-0007-FF-100	H22-0007-FF-100	2400	10"	Flg	44	20	34	25	160		321-2124WK907	321-2124WK927
H20-0008-FF-120	H22-0008-FF-120	3400	12"	Flg	44	24	34	25	200		321-2125WK907	321-2125WK927
H20-0009-FF-160	H22-0009-FF-160	5400	16"	Flg	48	32	34	21	350		321-2126WK907	321-2126WK927
H20-0010-FF-200	H22-0010-FF-200	8500	20"	Flg	48	36	34	25	450		321-2127WK907	321-2127WK927
H20-0011-FF-240	H22-0011-FF-240	12,000	24"	Flg	48	44	34	25	650		321-2128WK907	321-2128WK927

For more information:

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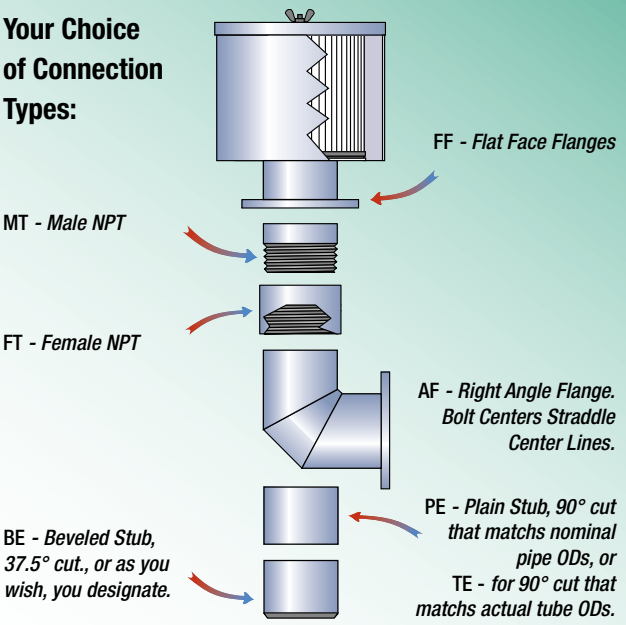
Air Intake Filter Choices

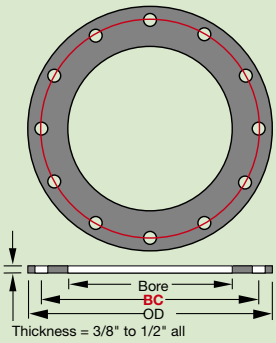
Model Considerations, Air Flow Sizing, Connection Style Choices, Plate Flange Sizing

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Filters are available in a wide selection of inlet and outlet sizes and configurations in both enamel finished carbon steel, 304SS, and 316SS. Atmospheric air intake series B10, B12, and B70 with weather hoods can be mounted directly, or piped from a roof top installation to equipment below. In sheltered installations, hoodless air intake series B50 and B52 with exposed filter elements make inspection or pre-filter cleaning a breeze. To silence excess noise at the equipment's inlet, chamber silenced series C10 & C12, or tube silenced series D10 & D12 can cut noise in half. In-line filters E20, E22, & Side Arm Housings F20, & F22 permit installation anywhere between the inlet source and equipment being served. They're perfect for indoor placement with exterior draws, eliminating the need to climb onto the roof. Models with bolt seal closures serve internal pressures to 5 psid (opt. greater) in air or gas services. The H20, H22 exhaust series can stop most mist and smoke in its tracks, without the ΔP penalty loss of older designs. Their revolutionary radial fin reverse flow design makes it happen. An exclusive removable 304SS perforated steel safety cage guards the housing's throat to eliminate the heart attacks when you drop your hat or the wing nut during change out of the filter element. This cage has been sized with excess open area to avoid pressure loss. If you've ever searched for the wing nut when changing the air filter on your auto, you know first hand just how important a throat guard can be. Standard models have male NPT (MT) or flat face flange (FF) connections. Flanges match the diameter & drilling for 150# ANSI standard. Select optional right angle base (AF) for side mounts, female NPT (FT), bevel (BV) or square cut stub necks (PE) where you wish to weld in place. The right angle connection permits exterior wall mounts with gravity still working on your side to ensure an enduring element seal. For situations where you absolutely positively must go truly on edge, we can provide units for horizontal mount with special interior element side mount support assemblies. Increased or decreased connection sizes are also available on any model. Consult us for other material options.

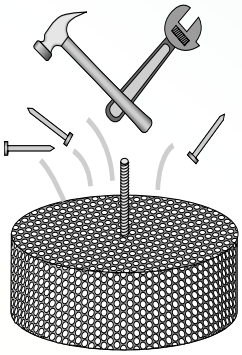
Your Choice of Connection Types:





Flange	Bore	OD	BC	Hole Bore	# Holes
3	3.5	7.5	6	0.75	4
4	4.5		7.5	0.75	8
5	5.6	10	8.5	0.875	8
6	6.7	11	9.5	0.875	8
8	8.7	13.5	11.75	0.875	8
10	10.88	16	14.25	1	12
12	12.88	19	17	1	12
14	14.1	21	18.75	1.125	12
16	16.1	23.5	21.25	1.125	16
18	18.1	25	22.75	1.25	16
20	20.2	27.5	25	1.25	20
24	24.2	3	29.5	1.375	20

Data above will assist in matching the flange connection of any existing filter housing(s) in need of replacement. Sparks™ flanges match the diameter & drilling for 150# ANSI standard. Since it is not practical to measure the Bore of an installed unit, wrestle with your not very flexible metal tape to measure a 90° arc (1/4 of the circle, see red line) over the bolts of of your existing flange. Multiply by 4. Count the bolts. Compare with the chart above. Do Not rely upon the more easily measured flange OD for flange sizing as it can vary between suppliers.

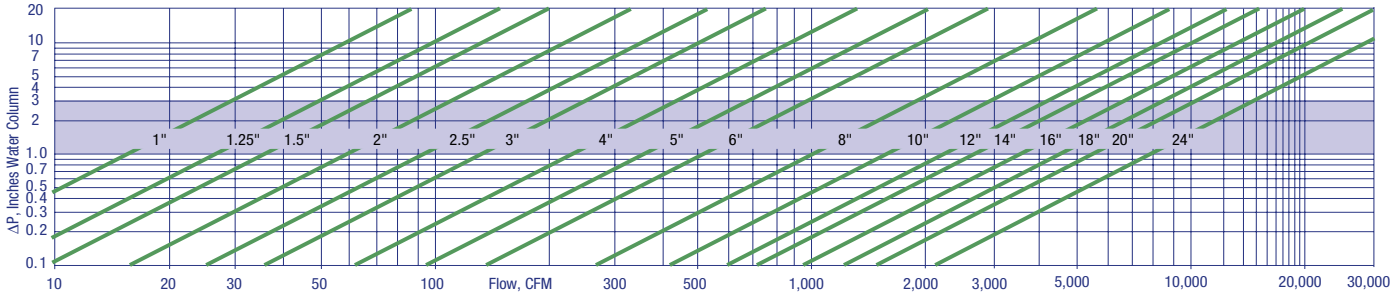


A 304SS throat safety cage sits beyond the filter element on all but economy housings. This exceptional feature ensures that the handle or pen you drop during change out doesn't fall into the process equipment downstream! And because it's 304SS, it's maintenance free.



Wing nuts and sealing washer for easy access. Another small detail that eliminates your need to hunt around for a wrench in order to take a quick look at the filter element.

ΔP vs. Flow: Series A, B, C, and D



Use the chart above to access the init. ΔP vs. flow for series A, B, C, & D air intakes. Be aware that the maximum practical flow through a filter housing, like other piping, is limited primarily by the cross sectional area of the connection. Compare the connection size shown below with the desired flow. It is prudent to select a connection having a value that is central to the shaded area. While engines and reciprocating compressors can tolerate inlet air restrictions to 20" W.C., lesser blowers or fans may require element service at 5" W.C. While the init ΔP does not increase, the specific filtration resistance of the airborne contaminates in your location ultimately dictate element life. High performance textile elements routinely serve for periods from 3 mos. to 2 yrs., with 1 yr. being common.

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