

Side Exhaust Mist Eliminating Filters

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



For more information contact :
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- **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.

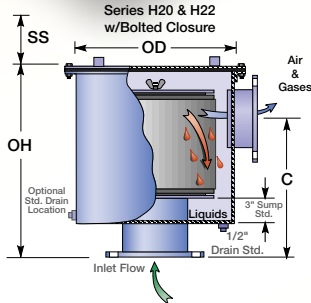
- **Rugged Design - 15 psid @ -20 to 200°F (Non Code)**
- **304 Stainless Steel Throat Safety Cages Standard**
- **Three Styles of Exhaust Elements Available**

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.

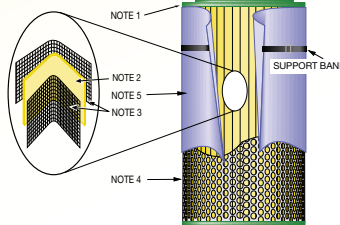
Newer High Flow Low ΔP Pleated Microglass Elements have permitted a less expensive more compact housing design together with a proven much lower pressure drop. Their extended filter area effectively retains both particulates and mist droplets with removal performance to 0.3μ The extended filter area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



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 CFM | Std. Connection Size | Std. Type | Approximate Dimensions, Inches | | | | Wgt. lbs. | Select One Filter Element Below | | |
|---------------------------------|------------------------|---------------|----------------------|-----------|--------------------------------|-------|----|----|-----------|---------------------------------|---------------------------------|--|
| | | | | | OH | OD | C | SS | | 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 |



Air Intake Filter Choices

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

For more information contact :

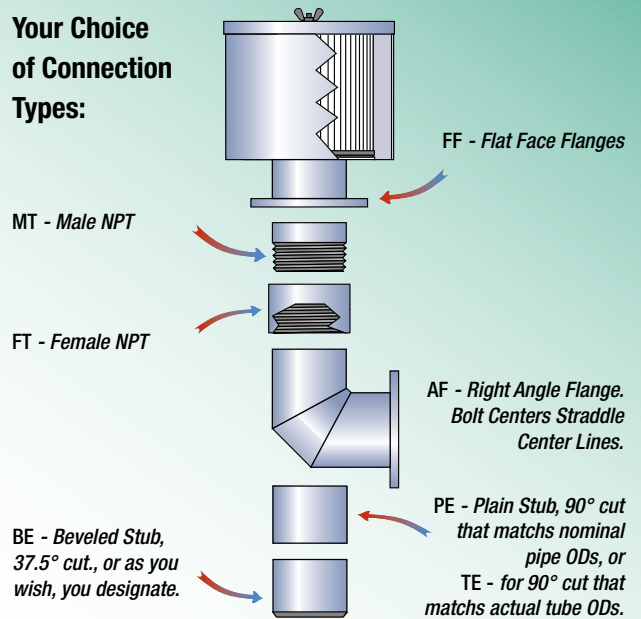
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Sparksfilters are available in a wide selection of inlet and outlet sizes and configurations in both enamel finished carbon steel, 304SS, and 316SS. Atmospheric air intake series B10, B12, and B70 with weather hoods can be mounted directly, or piped 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:

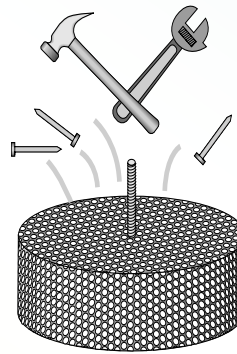


See <http://www.sparksfilters.com> for more options.

| 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 |

Thickness = 3/8" to 1/2" all

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 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.

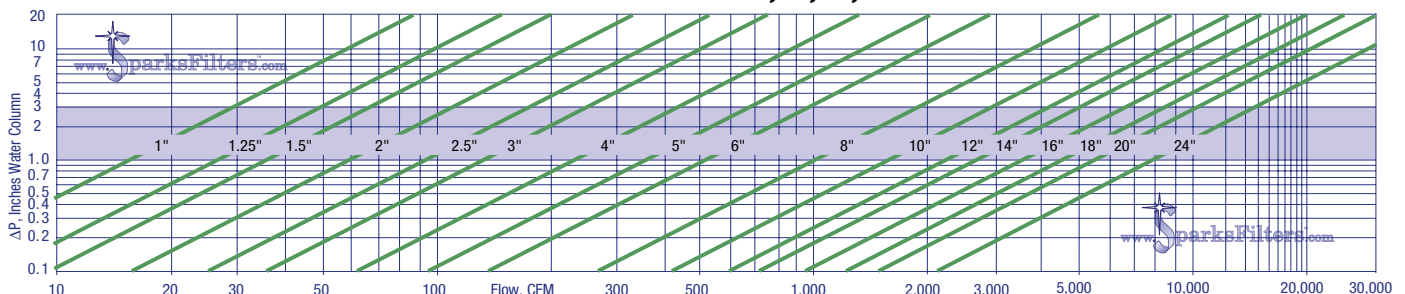


A 304SS throat safety cage sits beyond the filter element on all but economy housings. This exceptional feature ensures that the handle or pen you drop during change out doesn't fall into the process equipment downstream! And because it's 304SS, it's maintenance free.



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 initial 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 initial ΔP does not

increase, the specific filtration resistance of the airborne contaminants 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.