

INSTALLATION INSTRUCTIONS


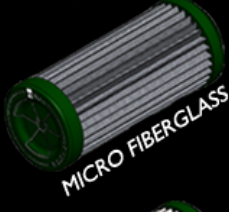


HIGH FLOW FUEL FILTER

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Document# 19-0105

WARNING: DO NOT EXPOSE WORK AREA TO ANY SPARKS OR FIRE. DO NOT SMOKE WHILE OPERATING ON THE FUEL SYSTEM. CLEAN UP ALL FUEL SPILLS IMMEDIATELY. WORK IN A WELL VENTILATED AREA.

The Radium Engineering filter housing is designed for high fuel pressures < 150psi. Please reference the chart below describing each available element and illustrating where the filter should be plumbed in the system.

| | Micron Rating | Reusable | Best Use | Compatibility | Notes |
|--|-----------------------------------|----------|------------------|---|---|
|  CELLULOSE PAPER | 10µm Nominal 92% Efficiency | No | Post Pump | Gasoline Diesel | -Excellent filtration -Most economical element -Most commonly used element -No maintenance but requires replacing |
|  MICRO FIBERGLASS | 12µm Absolute 99.9% Efficiency | No | Post Pump | Gasoline Diesel E85* Ethanol* Methanol* | -Excellent element for all applications -Newest advanced technology offering the highest filtration efficiency available on the market -No maintenance but requires replacing |
|  STAINLESS CLOTH FINE | 10µm Nominal | Yes | Pre or Post Pump | Gasoline Diesel E85* Ethanol* Methanol* | -Excellent filtration -Superior compatibility with all fuels -Requires occasional cleaning to maintain optimal flow rate. |
|  STAINLESS CLOTH COARSE | 100µm Nominal | Yes | Pre Pump | Gasoline Diesel E85* Ethanol* Methanol* | -Excellent prepump filter for any application -Low pressure drop prevents fuel pump cavitation -Superior compatibility with all fuels |

** Alcohols may reduce service life if poor quality fuel or excessive water absorption is present. To prevent, use high-quality fuel mixtures and purge alcohol fuels from the fuel system when the vehicle is stored for long periods.*

PLUMBING

The inlet and outlet ports are threaded for -10AN ORB (7/8"-14 O-Ring). Adapter fittings are available for a wide variety of hose connections. DO NOT USE ANY TYPE OF THREAD SEALANT ON ADAPTER FITTING THREADS. Generously lubricate the adapter fitting O-rings with oil and tighten in place.

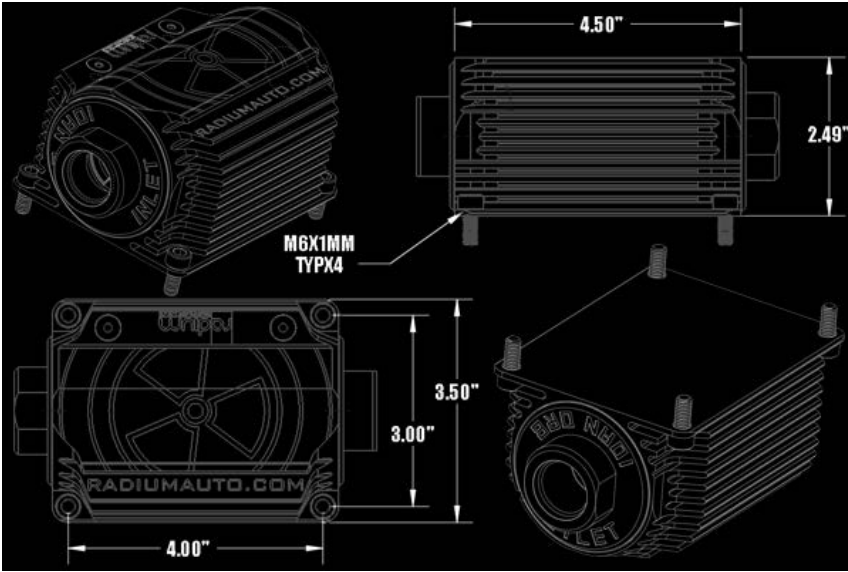
For proper flow direction, the **BLACK** end cap signifies the filter **INLET** and the **GREEN** end cap indicates the filter **OUTLET**. The **GREEN** cap also denotes the end to remove for servicing the filter element.



MOUNTING

Select a suitable location that is clear of moving components, high heat sources, and high current electrical components. The Radium Engineering filter should be positioned so that fuel hoses can be routed without kinks or sharp bends.

If using one of the Radium Engineering clamps, ensure there is a solid mounting surface.



If installing a **20-0218 2-Piece Clamp** (shown above), use the included M5x.8mm nuts and bolts. All bolts require a 4mm Allen wrench. The nuts require a 8mm wrench.

If installing the **20-0221 Heat Exchanger Mount** (shown right), it is imperative that it is placed near cool circulating air for proper heat transfer. Slide the filter body through the unit and fasten the 2 countersink screws with a 3mm Allen wrench. Use the four included M6x1mm bolts to secure to a cool flat surface for maximum conductivity. Fasten down with a 5mm Allen wrench.

SERVICING

If possible, take pressure readings while the fuel pump is running before and after the filter. If the difference is more than 10psi, the element should be replaced. To replace the filter element, unscrew the GREEN “outlet” end cap from the filter body, as shown. All other components can stay intact. NOTE: the large O-ring should be lubricated when reassembled.

When inspecting the filter element, look for excess buildup of contaminants. If the element inspection reveals no significant contaminant buildup, continue to use the filter and inspect at the next interval according to the following schedule.



| Radium P/N | Element Type | Fuel Type | Inspection Interval | Service Action |
|------------|-------------------|------------------|---------------------|---|
| 18-0025-01 | Cellulose | Gasoline | 10,000 miles | Replace as needed |
| | | Alcohols, Diesel | 5,000 miles | |
| 18-0025-01 | Microglass | Gasoline | 8,000 miles | Replace as needed |
| | | Alcohols, Diesel | 3,000 miles | |
| 18-0025-01 | Stainless, Fine | Gasoline | 10,000 miles | Preferred cleaning method: Ultrasonic solvent bath Alternative cleaning method: Carb cleaner followed by light air blast from inside |
| | | Alcohols, Diesel | 5,000 miles | |
| 18-0025-01 | Stainless, Coarse | Gasoline | 15,000 miles | Preferred cleaning method: Ultrasonic solvent bath Alternative cleaning method: Carb cleaner followed by light air blast from inside |
| | | Alcohols, Diesel | 10,000 miles | |

NOTE: A vehicle that is inactive for a long period of time should have the fuel system drained to prevent gelling of the fuel and water absorption. Failure to do this could lead to premature clogging of the filter element.