

High Temperature Exhaust Filter For Diesel-Powered Equipment

When you need a durable, high efficiency exhaust filter that captures diesel particulate matter, call Donaldson.

Accepted
for use by
MSHA¹



Part No. P604516

This proprietary and patented² design requires installation of a retrofit filter housing. An engineering drawing of the filter is available upon request.

Features

- Reinforced filter media with wire backing maximizes performance and durability
- Water-resistant filter media can eliminate the need for de-misters when used with water-bath exhaust conditioners
- All materials are engineered to withstand high temperature operations and are non-combustible
- High temperature gasket material insures proper sealing
- Open-ended filter design allows for multiple filter operation (stacked end-to-end or side-by-side)
- Filter size maximizes performance and minimizes operating costs



Close-up of reinforced filter media



Close-up of filter gasket

Please read the CAUTION statement on reverse side before purchasing.

1 Meets U.S. Department of Labor, Mine Safety & Health Administration (MSHA) application criteria for permissible (MSHA Table 1) engines that limit exhaust gas temperature to 302°F or less AND non-permissible (MSHA Table 2) engines that limit exhaust gas temperature to 650°F or less.
Ref: www.msha.gov/01-995/Coal/DPM-FilterEfflist.pdf

2 U.S. Patent No. 7,294,162

CAUTION!

Diesel emissions (such as carbon, unburned fuels, etc.) can ignite at temperatures below the rated filter limits. Ensure proper safeguards are in place to protect against damages resulting from ignition and/or uncontrolled regeneration.

Exhaust Filter Service Life

Engine emission rates and exhaust temperatures affect overall filter life. Emission rates vary with many factors, including; engine age, level of maintenance, fuel quality, exhaust flow and duty cycles. Engines should be well maintained and calibrated regularly to maximize service life.

Exhaust temperatures within MSHA's permissible application range have little or no impact on filter material life. Higher exhaust temperatures will degrade filter materials over time.

Specifications

Product Attributes

Part No.: P604516

Dimensions

Outer diameter: 12.74" (324mm)

Inner diameter: 8.38" (213mm)

Length: 26.00" (660mm)

Weight: 16.5 lbs. (7.5 kg)

Exhaust Flow

Maximum exhaust flow:
400 acfm per filter

Multiple filters must be used to accommodate higher airflows. Contaminant collects on the inner liner of the filter (reverse flow filtration).

Maximum Pressure Drop

60" H₂O maximum pressure drop across the filter. Do not exceed total system backpressure limits as defined by the engine manufacturer.

Installation Guidelines

- Do not use this filter in applications that produce exhaust gas temperatures at the filter inlet in excess of 650°F.
- Position the filter housing and exhaust outlet to maintain a minimum distance of 12 inches from un-shielded flammable material.
- Avoid localized areas of high exhaust flow through the filter element via a filter housing of an "end outlet" or multiple "side outlet" design. The minimum total area of the side outlet(s) must be two times greater than the inlet section area.
- Install an in-line temperature sensing device ahead of the filter housing to alert the operator should exhaust temperatures exceed 650°F.

Note: The filter media contains trace amounts of vegetable oils that may produce light smoking during initial heat-up. Individual components of the off-gassing have been analyzed and are non-toxic.



Donaldson®

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