



Donaldson Delivers

High Temperature Exhaust Filter

For Diesel-Powered Equipment

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



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



Close-up of reinforced filter media

All materials are engineered to withstand high temperature operations and are non-combustible

High temperature gasket material ensures proper sealing



Close-up of filter gasket

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

Accepted for use by MSHA¹

Part No. P604516

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

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 I) 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-FilterEffiist.pdf



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

P604516	U.S.	metric
Outer diameter	12.74"	324 mm
Inner diameter	8.38"	213 mm
Length	26.00"	660 mm
Weight	16.5 lbs.	7.5 kg

Exhaust Flow

Maximum exhaust flow	400 acfm per filter
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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 back-pressure 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.

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.



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