# Diesel Retrofit and Clean Fuel Frequently Asked Questions

# What size are particulate filters?

Dimensions vary between manufacturers, but a general estimate is about 12" in diameter and about 34" in length. Usually filters are designed to fit the existing muffler area.

### How much do the filters weigh?

Again, weights vary. In general, they weigh between 60 and 90 pounds.

## How long does it take to install the filter?

It usually takes between 2 and 4 hours, though sometimes instillation can take up to 7 hours.

#### How long does it take to install the back pressure monitor?

This generally takes from 1 to 3 hours.

# How do you clean the filter?

As long as the filter is appropriately sized for the engine, cleaning can be fairly simple and mostly focused on cleaning ash. In such a case, cleaning can be as simple as dropping the center body and blowing shop air through the filter, capturing the ash and reinstalling the center body. For specifics, contact the vendor that sold the filter.

It is important to note that if a filter is not appropriately applied, i.e. the exhaust temperature does not meet the minimum requirements of the filter technology, it is likely to require more frequent cleaning intervals and/or contain soot. A filter with soot cannot be cleaned with shop air but requires a baking process. Once again, it is necessary to consult with the product supplier for options.

If the service interval is due to an engine upset condition, i.e. a turbo failure or other engine related failures, shop air cleaning may not be sufficient. An engine upset condition can fill the filter with soot and lead to soot plugging. Once again a bake cleaning may be required. Please consult with the supplier.

### How often do you have to clean the filters?

Under normal operating conditions, filters should be cleaned about once a year or every 60,000 miles.

# How long does it take to clean?

Ash cleaning with shop air usually takes about 1 hour. Soot cleaning is a longer process and can take as long as 3 hours.

### How long does it take to remove filter for cleaning?

About 15 to 30 minutes.

**Does filter effectiveness diminish over time? When do they have to be replaced?** Under normal operating conditions, filters should last the life of the vehicle and not diminish in effectiveness over time.

- How do particulate filters or ultra-low sulfur diesel (ULSD) affect vehicle performance? The effects on vehicle performance are negligible.
- Do particulate filters affect fuel consumption?

The effects on fuel consumption are negligible.

What will happen if I use regular diesel, instead of ultra low, in an emergency? In general, filters can withstand an occasional mis-fueling with regular diesel. Check with the manufacturer to find out specific information for your filter.

How do I switch my fueling station to ULSD?

A tank at the station needs to be dedicated to ULSD.

**Do I need to add a lubricity agent to the fuel if I use a particulate filter?** No. Fuel suppliers add a lubricity agent.

Do I need to modify the exhaust system if I use a particulate filter?

Most filters are designed to replace the existing muffler and tailpipe. Other parts do not need to be altered, except by adding additional mounting brackets to support the additional weight.

How can I know if my engines will attain the temperature required to regenerate the filter? In many instances, the vendor may have sufficient data on the particular vehicle and engine. If not, most vendors will help datalog vehicles. Datalogging records engine temperature over a week of general operating. A datalogger takes about one hour to install, 45 minutes to remove, and a couple of hours to analyze the data.

# How does installing filters and changing fuels affect the warranty?

As long as the device is compliant to engine specifications, aftermarket devices should not affect the warranty.



**RETROFITS CLEAN FUELS ANTI-IDLING**