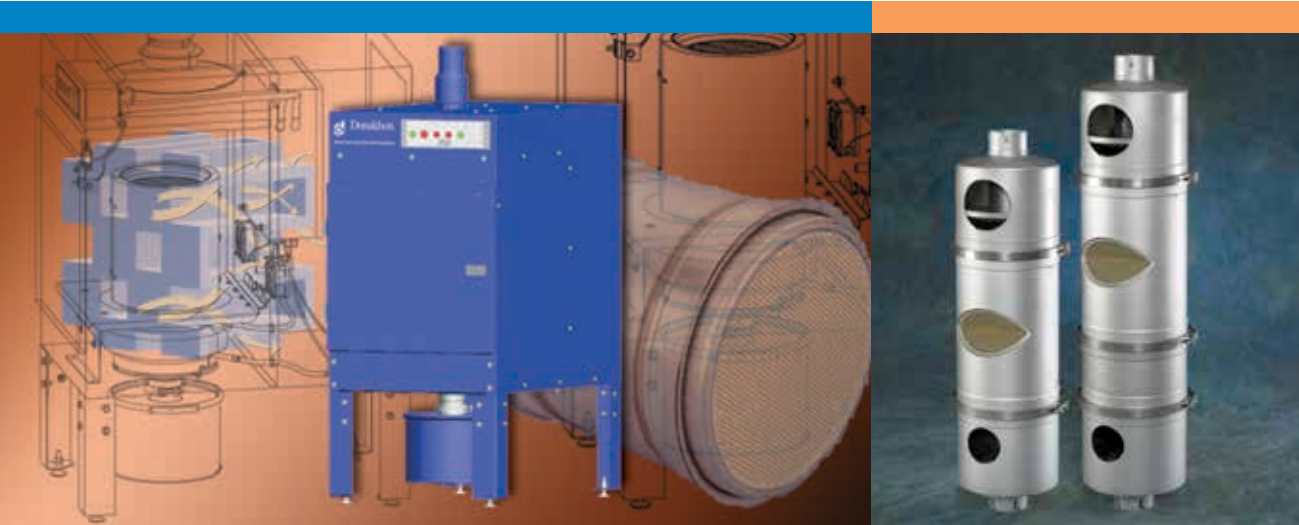


# Heavy-Duty Engine Diesel Engine Diesel Particulate Filter Thermal Regenerator



**Diesel particulate filters (DPF) require routine cleaning to remove ash that builds up over time. Most vehicles using a DPF system will have an on-board filter service monitor to indicate the filter condition and guide your filter cleaning schedule.**

**This unit cleans a plugged diesel filter using a high temperature heating process. This unit requires special power requirements and saves the on-going expense of a filter cleaning service.**

**This system is ideal for mid to large fleets equipped with diesel particulate filters.**

Donaldson®

# A simple, automated that regenerates plugged

When diesel particulates filters plug, they require a lengthy thorough high-heat cleaning. The Donaldson Thermal Regenerator (Item No X007955) is our solution that allows you to integrate a routine cleaning cycle into your fleet maintenance and eliminate your outside filter cleaning service.



## Specifications

### Dimensional foot print

28" Width x 43" Deep x 68.5" Height  
Clearance requirement: 12" on all sides.  
Unit Weight: 500 lbs.  
Requires and exterior vent connection to roof  
or outside wall.

### Electrical & Compressed

#### Air Requirements

Power Supply: Single phase 30 am 208 or  
240VAC with 15 amp 120VAC

Clean, dry compressed air source: 65-100 PSI  
shop air at 4 CFM

### Service Parts

Thermal shields for diesel particulate filters

### Finish:

Hi-gloss, powdered coating finish

## Features

- Burns soot/hydrocarbons off filter
- Heating cycle enhanced with low-volume, low-pressure pulse
- Enclosed cleaning system
- Collection hopper for ash
- Built-in safety features
- Accommodates competitive filters and Donaldson filters (DPF sizes from 11" to 15" diameter and up to 20" long)

## Basic Operation\*

This operation is even more simple than our pulse cleaner system. Once the filter is in the unit and the cleaning cycle started - you turn it on and walk-away.

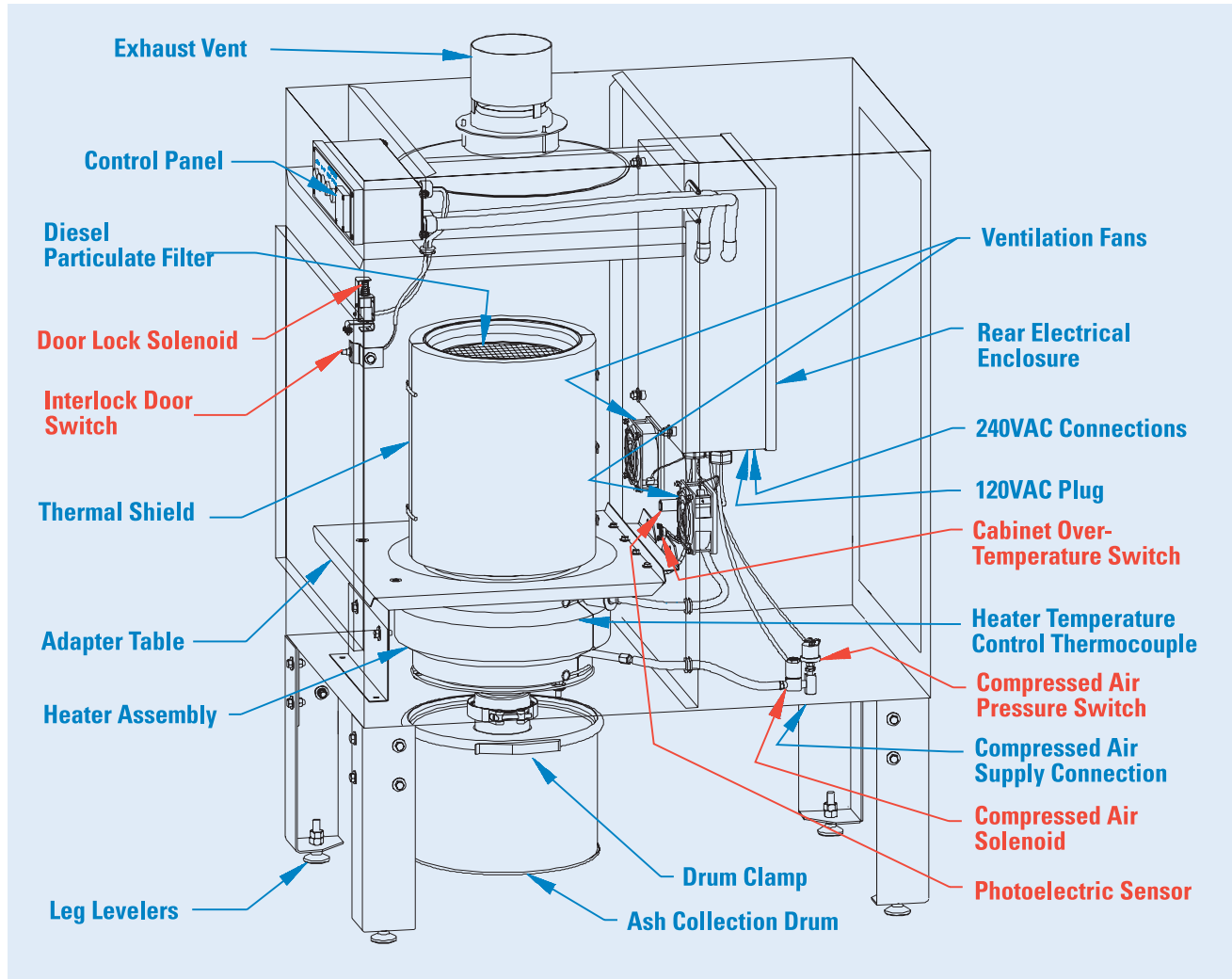
The cleaning cycle duration is seven (7) hours. Start it at the beginning of your day or at the end. With all the safety devices built in to the operation, you can easily leave this unit running anytime of the day.

During the cleaning process the filter goes through a pre-heating stage, a controlled combustion air pulse heating cycle, followed by a cool down cycle to slowly lower the temperature of the filter and reduce the potential of filter damage from thermal shock.

After the cool down cycle is completed, the diesel particulate filter can be removed from the Thermal Regenerator cabinet and reinstalled in the Pulse

\* A diesel particulate filter must be pulse cleaned before you start the process and after it's complete.

# process diesel particulate filters



## Basic Cleaning Steps

1. Remove DPF centerbody from muffler.
2. Pulse clean the filter (requires separate unit).
3. Wrap a thermal shield (supplied) around the DPF centerbody.
4. Place on the adapter table in the cabinet and close door.
5. Press button on control panel to initiate cleaning cycle (7 hours).
6. Remove thermal shields
7. Pulse clean filter before reinstalling in vehicle.

## Cabinet Control Panel

### Start Button

Initiates the cleaning cycle.



### E-Stop

Emergency Stop button

### Heating/Cool Down Cycle & Complete Indicators

The entire process will take 7 hours. The lights will illuminate continuously during their respective cycle or until the cleaned filter is removed from the unit.

## Safety Mechanisms

1. An open door alert switch that prevents the cleaning process from starting if the door is not properly closed.
2. An electric door lock that prevents the door from opening during the cleaning process.
3. A filter placement sensor checks if the dirty filter is properly centered and placed on the heater assembly. The cleaning operation will not start if the filter is not installed correctly.
4. An air pressure safety switch - detects improper air pressure.
5. A high-heat sensor shutdown. If the filter does not have the proper thermal shield protection excessive heat in the cabinet is generated and this sensor shuts down the cleaning cycle.
6. An emergency stop button.

As you investigate your options for diesel particulate filter cleaning, you'll want to also consider the Donaldson DPF pulse cleaner. Having both units on your premises will simplify your DPF cleaning routines and eliminate your outside filter cleaning expense.



**For more information on this device, please request brochure number F111181 or visit our web site at [www.donaldsonexhaust.com](http://www.donaldsonexhaust.com).**



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