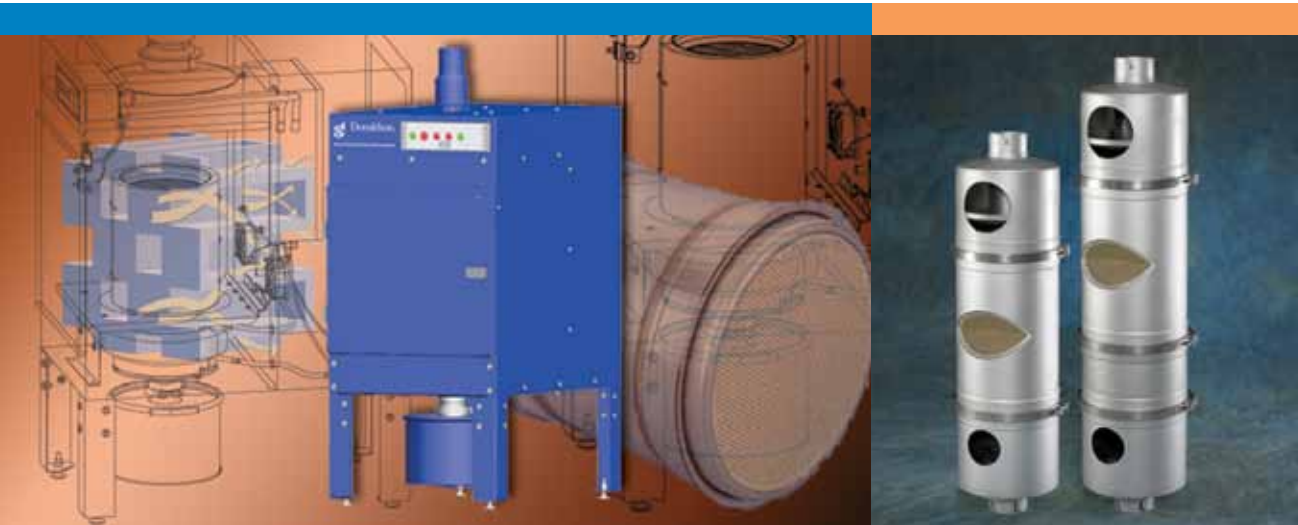


Heavy-Duty Engine Diesel Engine Diesel Particulate Filter Thermal Regenerator



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 c

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.

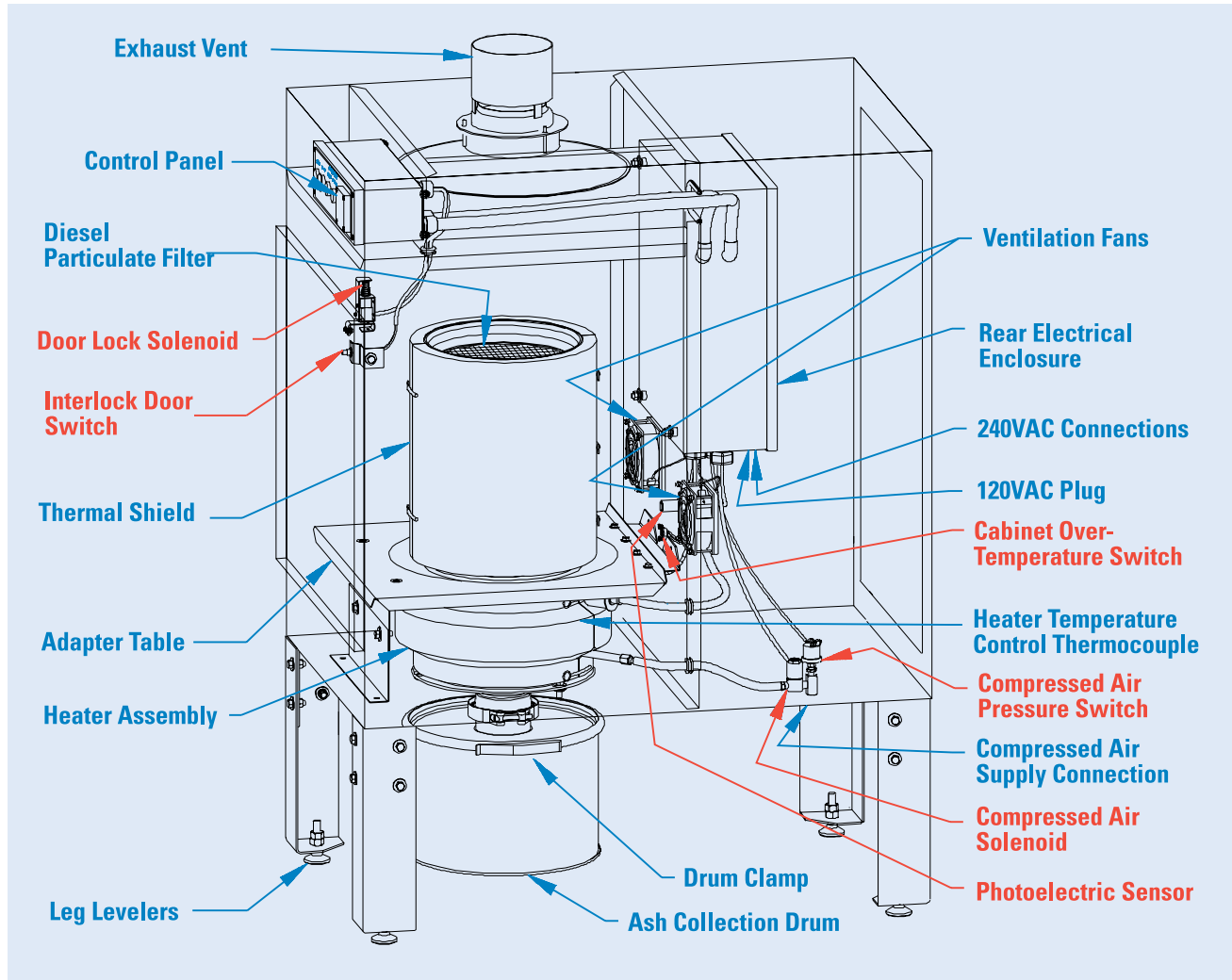
The cleaning cycle duration is seven (7) hours. Start it at the beginning of your day or at the end. With all the safety devices built in to the operation, you can easily leave this unit running anytime of the day.

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 Cleaner for a final cleaning of the ash residue.

* 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.



Donaldson

Donaldson Company, Inc.
Minneapolis, MN
55440-1299

www.donaldson.com

North & South America
866-675-2847
emissionssales@donaldson.com

Europe & Middle East
32-16-38-3811

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