

Heavy-Duty Diesel Engine DPF Pulse Cleaner



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 is designed to clean the DPF filter by removing ash and unburned hydrocarbons in less than 15 minutes. It has no 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 quickly and safely clean

No tools are required to clean a DPF in the Donaldson Pulse Cleaner (part number X007954). The unit also has numerous built-in safety mechanisms.



Specifications

Size, Weight and Clearance

28" Width x 43" Depth x 78" Height

Clearance requirement: 4" on left side; 12" on right side for crank handle and rear for filter service.

Unit Weight: 710 lbs.

Electrical and Compressed Air Requirements

Standard connection: 120V, 15 amp

Clean, dry compressed air source:

90 PSI minimum shop air at 4 CFM

Service Parts

Ash Receptacle (1) and Panel Filters (5)

Finish (interior and exterior)

Hi-gloss, powdered coating finish

Approximate Energy Consumption

(based on \$0.08 / KW)

100 DPFs / yr. \$ 8.00

150 DPFs / yr. \$12.00

200 DPFs / yr. \$16.00

300 DPFs / yr. \$24.00

Features

- Uses high-volume, low-pressure pulse to dislodge unburned soot/ash from the DPF
- Captures soot/ash in disposable receptacle
- Self-contained cleaning system prevents contaminant from escaping into ambient air during operation
- Unique design accommodates Donaldson and competitive filter designs (DPFs from 8" -15" diameter and 13" -20" long)
- Short process time - 15 minutes or less
- Standard electrical connection
- Installation time - approximately 1 hour

Basic Operation

The pulse cleaner uses compressed air pulses to clean a DPF (centerbody) and efficiently capture the contaminant. The unit has a pressure gauge to indicate when the DPF is cleaned and ready for re-installation.

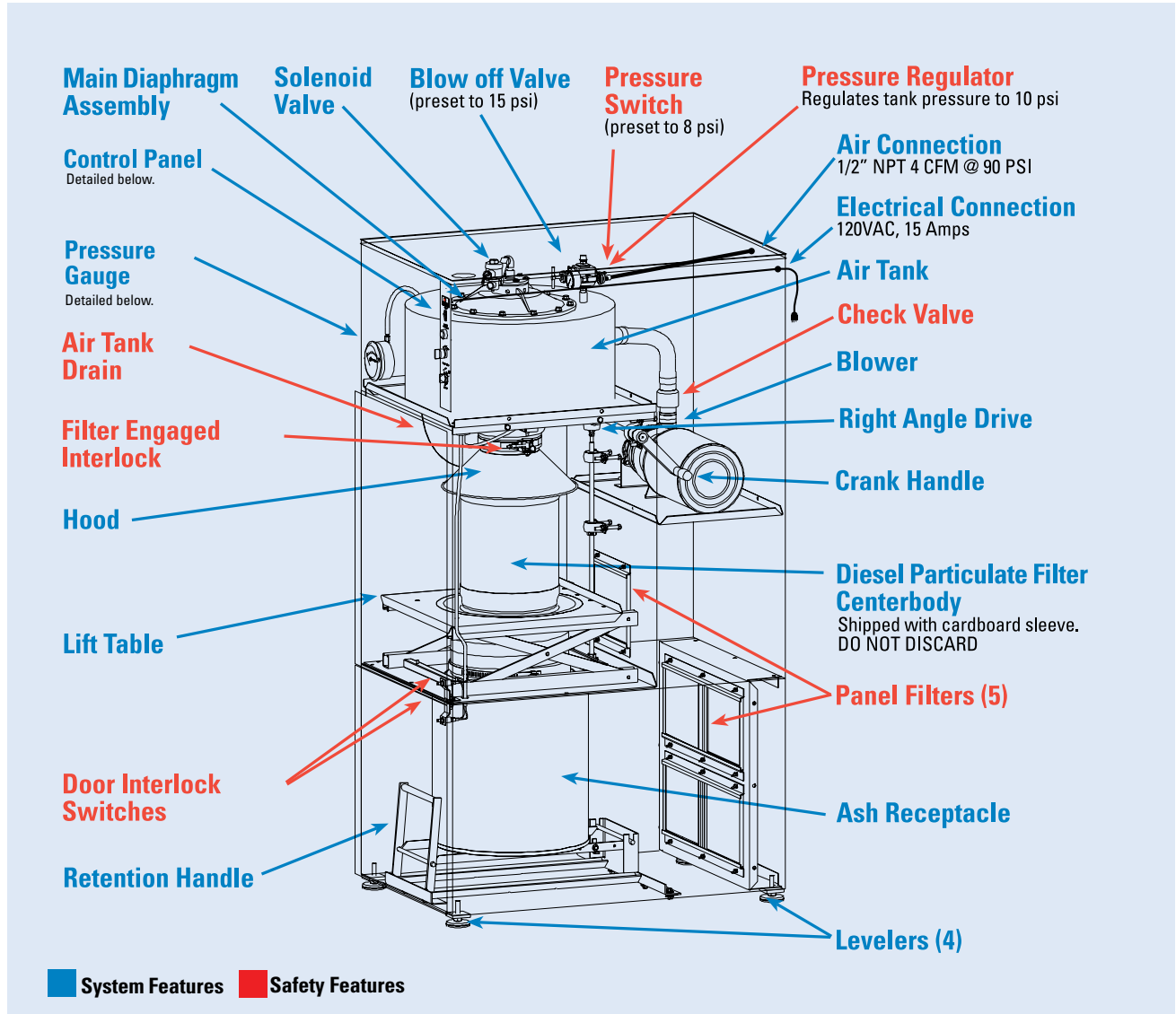
The diesel soot and ash removed from the filter is captured in a series of filters. The bulk of the contaminant is collected in the cartridge-style, ash receptacle (filter). The ash receptacle must be replaced every 50 filter cleanings, although actual life may vary.

The cleaning cycle is typically completed in 15 minutes or less, depending upon the level of contamination on the filter.

Extremely plugged filters will require time on the thermal regenerator (baking) unit.

Each unit comes with an installation, operation and maintenance manual.

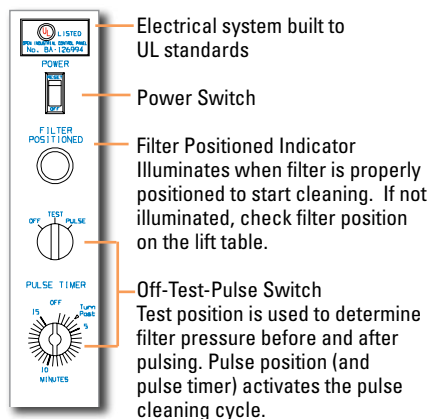
process ans diesel particulate filters



Five Basic Cleaning Steps

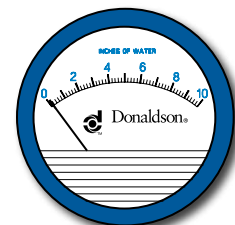
1. Remove DPF centerbody from muffler
2. Place filter centerbody on lift table and secure.
3. Check filter backpressure before cleaning.
4. Initiate cleaning cycle. Pulse until backpressure is 50% of first test. If not 50% reduction in backpressure, use Thermal Regenerator (second stage).
5. Re-install DPF centerbody into muffler on the vehicle.

Control Panel



Pressure Gauge

The pressure gauge indicates the filter pressure in inches of water. Cleaning is complete when the final pressure reading is less than half of the pre-cleaned (test) pressure reading.



If you're considering the Donaldson Pulse Cleaner for maintenance, you may be interested in the Donaldson DPF Thermal Regenerator.



DPF filters will plug over time and require a high-temperature cleaning cycle (thermal regenerating) that bakes off the contaminant and unburned hydrocarbons.

For more information on the DPF thermal regenerator, request brochure number F111182 or visit our web site at www.donaldsonexhaust.com.



Donaldson

Donaldson Company, Inc.
Minneapolis, MN
55440-1299

www.donaldson.com

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North & South America
866-675-2847

Europe & Middle East
32-16-38-3811

Asia Pacific
65-6311-7373

South Africa
27-11-389-8800

Australia
612-4352-6677