



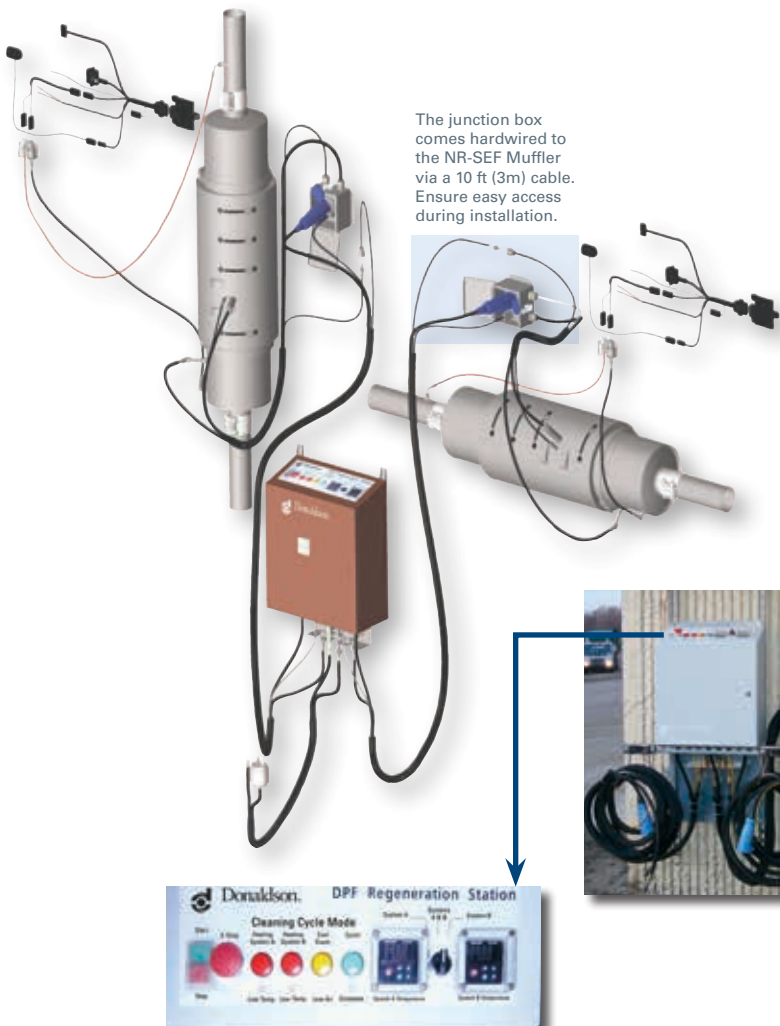
EPA Verified Non-Road SEF Muffler System

Solutions for Off Road Vehicles

Semi-Active Non-Road SEF Muffler System

The Donaldson EPA Verified Non-Road Semi-Active Electric Filter (NR-SEF) Muffler System is designed to reduce emissions from in-use diesel engines. Besides reducing diesel particulate matter (PM) emissions by over 90%, the NR-SEF Muffler is also effective at reducing hydrocarbon and carbon monoxide emissions.

The NR-SEF Muffler System is a semi-active Diesel Particulate Filter (DPF) system designed to capture diesel PM and eliminate gaseous emissions. The system uses an electric heater to periodically burn the PM captured in the DPF. An off-board DPF Regeneration Station controls the regeneration process once connected to the vehicle-mounted junction box. The Regeneration Station provides the control and monitoring needed to ensure complete DPF regeneration in a safe and timely manner. An Emissions Device Monitor (EDM) is included to inform the operator when DPF regeneration is required.



The junction box comes hardwired to the NR-SEF Muffler via a 10 ft (3m) cable. Ensure easy access during installation.

Ideal for Home-based Fleets

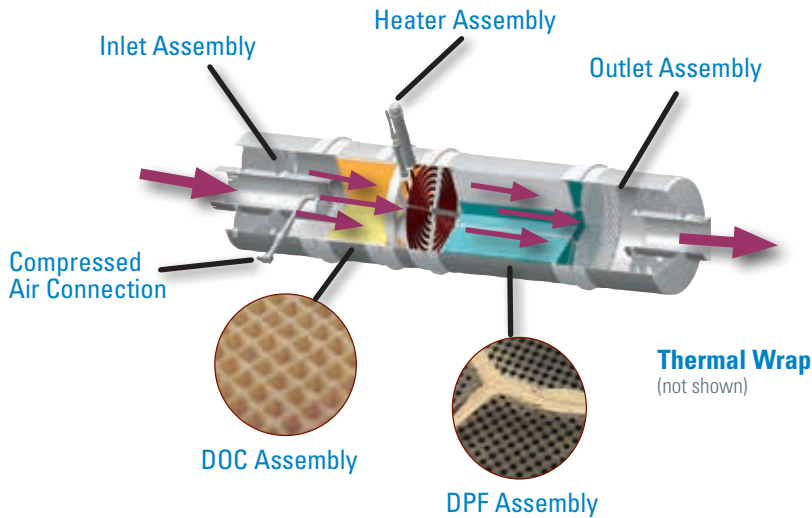
- Semi-active DPF technology – relies on an integrated electric heater to provide heat for DPF regeneration
- Ideal for colder duty cycles: No specific minimum application temperature criteria; therefore no data logging required (recommended)
- Time between DPF regens depends on engine certification level (soot output rate), duty cycle and maintenance level
- DPF Regeneration Cycle – 4.5 hours for one vehicle; 7 hours for two vehicles
- Broad on-road engine coverage (1991-2006 MY) EGR and non-EGR engines.
- Designed for engines with less than 2700 cfm exhaust flow and less than 400 HP
- Typical SEF Muffler installation time is 5-9 hours

Proven Field Experience

- Delivering ARB and EPA verified retrofit emissions solutions for more than 10 years
- 1,000's of Level 3+ systems in service
- 1,000's of hours of testing and design validation
- Made in Auburn, Alabama USA
- Certified network of dealers
- Exhaust and Emissions system suppliers to on and off road OEM's for more than 30 years
- Filtration solution providers to OEM's for over 95 years

Donaldson DPF Regeneration Station (Part No. X009584) with simple, automated control panel.

Inside the NR-SEF Muffler



EDM

The Donaldson EDM tells the vehicle operator when DPF regeneration is required. It also records and monitors DPF operating conditions. Temperature and backpressure readings are continuously recorded to aid in analyzing vehicle operating trends and to support troubleshooting.

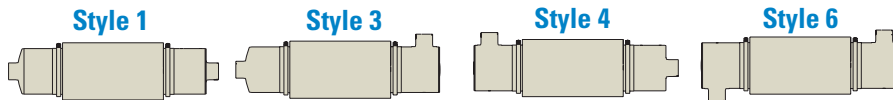


An EDM Kit is included with every SEF Muffler Kit. In-cab display shown.

For more information on the Emissions Device Monitor and diagnostic service tool, see Brochure F111276.

Non-Road SEF System Order Information

Four muffler styles with different inlet/outlet connections available to simplify installation



Each NR-SEF Muffler Kit Includes:

- Emissions Device Monitor (EDM)
- Serialized Muffler and Engine Tag
- Heavy Duty Mounting Bracket

NR-SEF Muffler Kits*

Muffler	Inlet I.D.	Outlet I.D.	Body Length	Body Dia.**	Inlet Assembly	Outlet Assembly	Kit No. 100-275 HP	Replacement DPF	Kit No. 275-400 HP	Replacement DPF
Style 1	4.0"	4.0"	44.25"	11.08"	P232153	P232157	X011644	X009811	X011656	X011241
	4.0"	5.0"	44.25"	11.08"	P232153	P232160	X011646	X009811	X011658	X011241
	5.0"	5.0"	44.25"	11.08"	P232156	P232160	X011652	X009811	X011664	X011241
Style 3	4.0"	4.0"	45.75"	11.08"	P232154	P232157	X011648	X009811	X011660	X011241
	4.0"	5.0"	45.75"	11.08"	P232154	P232160	X011650	X009811	X011662	X011241
	5.0"	5.0"	45.75"	11.08"	P232155	P232160	X011655	X009811	X011667	X011241
Style 4	4.0"	4.0"	46.63"	11.08"	P232153	P232158	X011645	X009811	X011657	X011241
	4.0"	5.0"	46.63"	11.08"	P232153	P232159	X011647	X009811	X011659	X011241
	5.0"	5.0"	46.63"	11.08"	P232156	P232159	X011653	X009811	X011665	X011241
Style 6	4.0"	4.0"	48.13"	11.08"	P232154	P232158	X011649	X009811	X011661	X011241
	4.0"	5.0"	48.13"	11.08"	P232154	P232159	X011651	X009811	X011663	X011241
	5.0"	5.0"	48.13"	11.08"	P232155	P232159	X011654	X009811	X011666	X011241

*Kits include EDM and Junction Box

** Muffler body dia. with wrap is 13.9". Muffler weight 120 lbs / 55 kg.

For more information on service parts see Brochure No. F111249



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Minneapolis, MN

www.donaldson.com/emissions

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