

Solberg designs and manufactures high efficiency Crankcase Ventilation Systems to capture oil mist and particulate emissions (blow-by) from the crankcases of reciprocating engines and gen-sets.

Our Sales and Engineering teams are available for site visits, evaluation and continued support to ensure your project is a success. Let us help you eliminate vented emissions and control crankcase pressure.

Solutions Designed For

- Caterpillar
- Jenbacher
- Fairbanks Morse
- Enterprise
- Waukesha
- Wartsila
- MAN Diesel
- Cummins



Landfill Gas to Energy
Gen-Set Installation

Typical Applications

- Electric Power Generation
- Marine Power Generation
- Marine Propulsion
- Landfill Gas to Energy
- Gas Compression

Benefits & Purpose

- Eliminates the hazardous oil mist and particulate emissions “blow-by” vented from the crankcase
- Helps to achieve EPA **RICE NESHAP** Compliance
- Captures potential health hazards and improves the quality of the surrounding environment and workplace
- Maintains required crankcase pressure to protect engine seals
- Recovers expensive lube oil lost during the venting process, which allows for efficient operation and lower maintenance costs
- Protects the turbocharger and intake system in closed crankcase scenarios



Marine Diesel Engine
Crankcase Ventilation System

Solberg Crankcase Ventilation Systems

Designed for Reciprocating Engines & Gen-Sets

Design Features & Specifications

- 99.97% efficient for 0.3 micron oil mist; designed to eliminate oil mist emissions and particulate
- 5-10 ppm (mg/m³) estimated oil carryover
- Extensive flow range available: 16 - 2548 m³/h (10 CFM-1500 CFM)
- Valve included for crankcase pressure control
- Low back pressure filter media to minimize differential pressure across the system
- Differential pressure gauge to monitor filter element condition
- External drain port for oil recovery
- Carbon steel construction with powder coat finish
- Design temperatures: -40°C to 82°C (-40°F - 180°F)



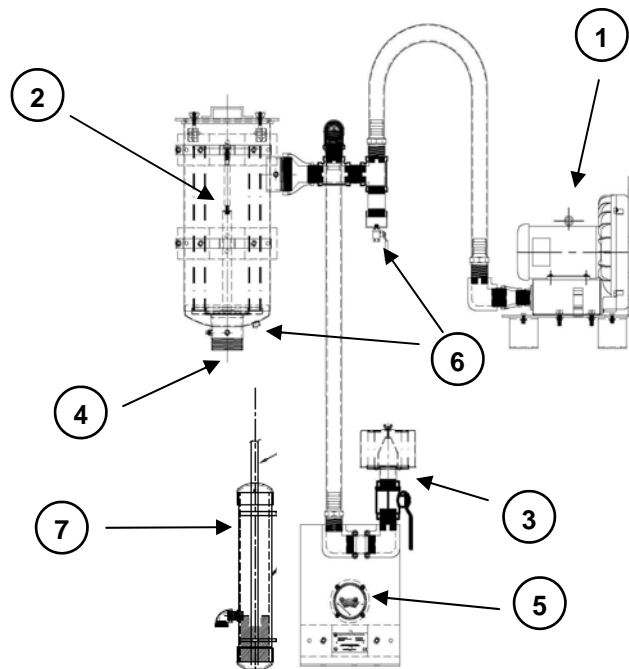
Stationary Diesel Engine
Crankcase Ventilation System

Options (Inquires Encouraged)

- Application specific designs
- Regenerative blower or centrifugal fan vacuum source
- Redundant blower/motor configurations
- Pressure relief valve
- Variable speed drives available for automatic vacuum control
- ATEX and explosion resistant construction and components
- Chemical resistant and stainless steel materials
- Leg supports and mounting brackets for easy installation
- Closed crankcase configuration available

Crankcase Ventilation System Components

1. Regenerative Blower Vacuum Source
2. Internal Air/Oil Separator Element:
(99.97% Efficient for 0.3 micron oil mist.)
3. Valve & Fresh Air Filter to Control Crankcase Pressure
4. System Inlet
5. Differential Pressure Gauge
6. Drain Ports for Oil Recovery
7. Optional Waste Oil Container



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