



Crankcase Ventilation Systems

Eliminate Visible Crankcase Emissions
(CCV Series)

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

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



Landfill Gas to Energy
Gen-Set Installation

Solutions Designed For

- Caterpillar
- Jenbacher
- Fairbanks Morse
- Waukesha
- Wartsila
- Man Diesel

Typical Applications

- Electric Power Generation
- Marine Power Generation
- Gas Compression
- Landfill Gas to Energy
- Mechanical Drive

Benefits & Purpose

- Eliminates the visible oil mist emissions “blow-by” vented from the engine crankcase
- Removes potential health hazards and improves the quality of the environment
- Helps to achieve **RICE NESHAP** compliance
- Maintains required crankcase vacuum/pressure to protect engine seals
- Protects the turbocharger in closed crankcase scenarios in which emissions are directed to the engine intake
- Recovers expensive lube oil lost during the venting process, which allows for efficient operation and lower maintenance costs



Marine Application
Diesel Engine Installation

Crankcase Ventilation Systems (CCV Series)

Designed for Reciprocating Engines & Gen-Sets

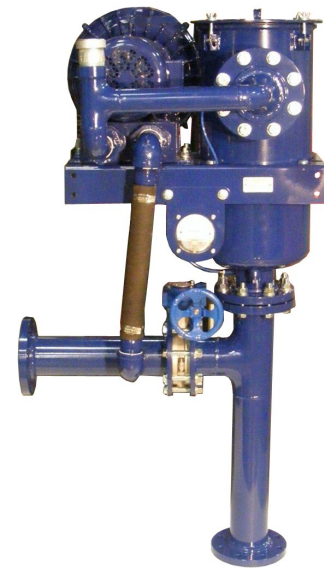
Design Features & Specifications

- 99.97% efficient for .3 micron oil mist; designed to eliminate visible emissions
- 5-10 ppm estimated oil carryover
- Extensive flow range available: 10 CFM-1500 CFM
- Valve included for crankcase vacuum/pressure control
- Low back pressure filter media to limit differential pressure across the system
- External drain port for oil recovery
- Leak tested to 0.5 bar pressure
- Design temperatures: -40°F (-40°C) to 170°F (77°C)
- Full design & conformance documentation



Options (Inquires Encouraged)

- Application specific designs
- Blower or fan vacuum source
- Redundant blower/motor configurations
- Pressure relief valve
- Variable speed drives available for automatic vacuum control
- ATEX and explosion resistant construction
- Chemical resistant and stainless steel materials
- Leg supports and mounting bracket design and fabrication
- Closed crankcase and static versions available



CCV System Components

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

