SOLBERG®
Filtration & Separation

ACV Series

Crankcase Ventilation

Standby Power Engines for Data Center

The Challenge

A power systems dealer required a quick turn around on a closed crankcase ventilation solution for over 40 Caterpillar C175-16 engines. This would bring the total number of closed crankcase ventilation systems required to over 80 in a very short amount of time. The new solution had to integrate into the existing generator set platform with minimal modification. The engines would be used for standby / emergency power at a new data center.

The Solution

Solberg utilized its ACV Series Advanced Crankcase Ventilation System as a readily available and economical solution. Solberg was able to apply its base model ACV and build a specific component kit tailored to the engine and the power systems dealer streamlining the installation process.

Results

With the Solberg ACV (Advanced Crankcase Ventilation) complete installation kit designed for this power systems dealer, they were able to successfully meet all testing and delivery dates with very minimal modification to the existing generator set platform.

Rev: C175-16-US1903K

SOLBERG Manufacturing, Inc.
1151 Ardmore Avenue
Itasca, IL 60143
Sales/Service: 630.773.1363
sales@solbergmfg.com

Solberg Products Provided

ACV-1-40-300L-K8

ACV-1-40-300R-K8

Advanced Crankcase Ventilation System

ACV Accessory Components consisting of platform specific fittings, hose lengths and more.

The Product

The ACV is designed to protect your engine's turbo, coolers, and inlet air filters as well as help ensure environmental compliance while keeping engine rooms clean, safe & free of oil mist. The series comes standard with industry leading automated vacuum control technology to regulate crankcase pressure and prevent seal leakage. The replaceable filter element contains a proprietary media pack offering exceptional efficiency levels with an extremely long life, allowing operators up to one year before an element change is required.

ACV Design Features

- Eliminates visible emissions (99%+ efficient at 0.3 um)
- High performance coalescing elements offer long life
- Flow ranges from 2 - 40 CFM (3 - 68 m^3/hr) for single units
- Integrated vacuum control valve controls precise range of vacuum
- Diaphragm vacuum regulation valve design, no springs; No manual vacuum adjustment required
- Drain port for oil recovery
- Universal mounting bracket
- Available with installation kits
- Optional atmospheric bypass

PART NUMBER	ACV-1-40-300L
INLET/OUTLET	3" NPT
DRAIN	1" NPSC
GAUGE TAP	.25" NPSC
FLOW RATE	40 CFM | 68 m^3/hr
HEIGHT	28.6" | 718 mm
LENGTH	10" | 254 mm
DEPTH	14.7" | 374 mm