



**SOLBERG®**  
Filtration & Separation

**ACVB Series**

**Crankcase Ventilation**

## **Cogeneration / CHP**

### ***The Equipment***

Caterpillar G3520H

### ***The Challenge***

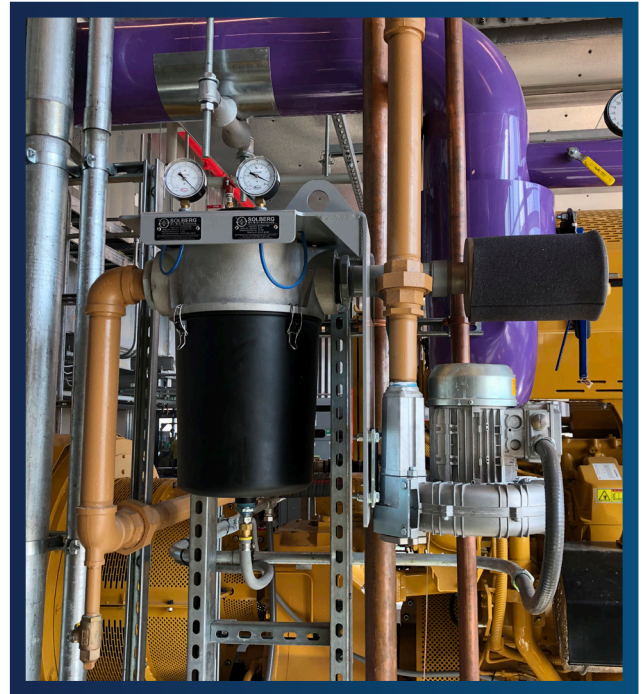
A power systems dealer on the east coast of the United States required a reliable closed Crankcase ventilation solution. A closed system is routed back to the low pressure side of the turbo, downstream of the air cleaner. This was for a new Combined Heat and Power (CHP) gas engine application for a large University expansion project.

### ***The Solution***

Solberg has developed the ACVB (Advanced Crankcase Ventilation with Blower) solution specifically for the Caterpillar G3500H series engines. Over the past 3-5 years, Solberg has partnered with a handful of authorized dealers across the globe to develop this solution. We have continuously upgraded and modified the offering to provide the most effective and efficient solution that is available today. With thousands of operating hours in the books, it was an easy selection process for this application. Once installed, Solberg visited the site to confirm a proper installation.

### ***Results***

With a visit from Solberg to ensure the system was installed correctly, the unit performed well for initial engine testing and will protect the engine and surrounding environment for years to come.



Rev: G3520H ACVB US0320K

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## Solberg Products Provided

ACVB-80136

Advanced Crankcase Ventilation System

## The Product

The ACVB 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 and 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.



## ACVB Design Features

- Integrated vacuum control valve to automatically maintain a 0-1" W.C. vacuum/suction level in the crankcase
- Drop down bucket for easy element change-out
- Minimal required drain mounting height (from Solberg canister drain port to high oil level of waste oil console)
- Gauges supplied as a standard to easily monitor vacuum level and filter life (change-out values listed on nameplates)
- High efficiency coalescing element – 99.97% @ droplet and particle size of 0.3um and larger
- Make up air is brought in downstream of coalescing element to provide maximum coalescing element longevity. Make up air is also filtered
- Vacuum relief valve as a standard
- Utilizes regenerative blower as suction source

