

ENGINE INTEGRATED CONTROL SYSTEM UPGRADE

Waukesha VHP Series 2 & Series 4 Engines

Overview

Cooper Machinery Services (Cooper), the original equipment manufacturer (O.E.M.) of many legendary engine and compressor brands, expanded into the Waukesha VHP engine line in 2021 and is now a leading supplier and service provider in that market. As our next advancement for the VHP offering, we are excited to introduce our solution to high-end controls, the Engine Integrated Control System (EICS) upgrade kit.

Optimizing the performance of a Waukesha VHP engine, while maintaining emissions compliance, is easier than ever, and nearly all Waukesha VHP engines are eligible for the EICS control system upgrade. The field-proven EICS control system upgrade combines key components into one convenient package, pre-calibrated to your engine's specifications. Cooper stocks inventory of EICS control systems to meet our customer's needs at a moment's notice, and both onsite field retrofits and in-house overhauls (with dyno testing capabilities) are available to ensure proper engine performance.

Waukesha VHP EICS Components

Cooper's EICS consists of the following:

- > Air/fuel control
- > Shielded ignition system
- > Speed governing controls
- > Interface and diagnostics capabilities
- > Sensors & harnesses
- > Engine Control Unit (ECU)
- > M-Link™ Remote access
- > Catalyst (optional), larger HMI display (optional)



Pre-Configured Components

The EICS is pre-configured for your convenience, ensuring your engine runs at optimum performance without the need for manual field adjustments. The mass flow based air and fuel control system accommodates wide variations in fuel composition and speed/load ranges, maintaining efficiency with load following technology for even the toughest applications.

Key Benefits

- > Direct measurement of air and fuel flow ensures precise air/fuel control for optimized emissions and performance across all operating ranges.
- > Reliable starting and leak diagnostics and reduced air flow restrictions improve overall engine efficiency.
- > Reduced mechanical adjustments result in fewer service manhours, providing significant cost savings.
- > Enhanced emissions control due to improved response of the left and right bank throttles, automatic manifold air pressure balance, and compression check mode.
- > The EICS performs over 200 engine diagnostic checks with specific fault messaging to support troubleshooting.
- > Simple and reliable installation using pre-fabricated harness connectors.
- > User-friendly HMI display performs key engine performance specifics.

LEGENDS DON'T STOP. WE MAKE SURE OF IT.™

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