

## Optimizer™ Engine and Compressor Control System Retrofit and Upgrade Package

For Waukesha® VHP-Series Natural Gas-Fueled Engines\* Driving Reciprocating, Multi-Stage Compressors (\*operating with or without the ESM® control package)

- Optimized engine and compressor monitoring and control system incorporating proven and reliable Altronic ignition, instrumentation, and control technologies such as the CPU-95EVS VariSpark® Digital Ignition System (w/EZRail Ignition Wiring System), DE-3000 Compressor Monitoring and Control System, the DET-1600 Detonation Detection System, and the EPC-100E Advanced Air/Fuel Ratio Control
- All engine and compressor-critical functions previously managed by the OEM control systems are addressed in the new Altronic retrofit system inclusive of:
  - Ignition System (with optional Altronic EZRail® ignition rail system)
  - Detonation control
  - Air/fuel ratio control
  - Temperature/pressure monitoring
  - Engine speed governing and control with manual speed station
  - Compressor lubrication
  - Maintenance switches for manual lube and crank
  - Unit start/run/stop control
- Optional MIDAS® HMI offers centralized access to key system information
- Expandable to include integrated remote monitoring, automated compressor valve process control, vibration monitoring, and other user-specified functionality
- Enclosure, stand, and inner-panel material and finish can be specified by the customer to insure long-term service in the operating environment
- Easily operated and serviced by end-user personnel
- Technical support and service spares provided through the global network of Altronic Distributors
- Hazardous area rated and non-rated designs available

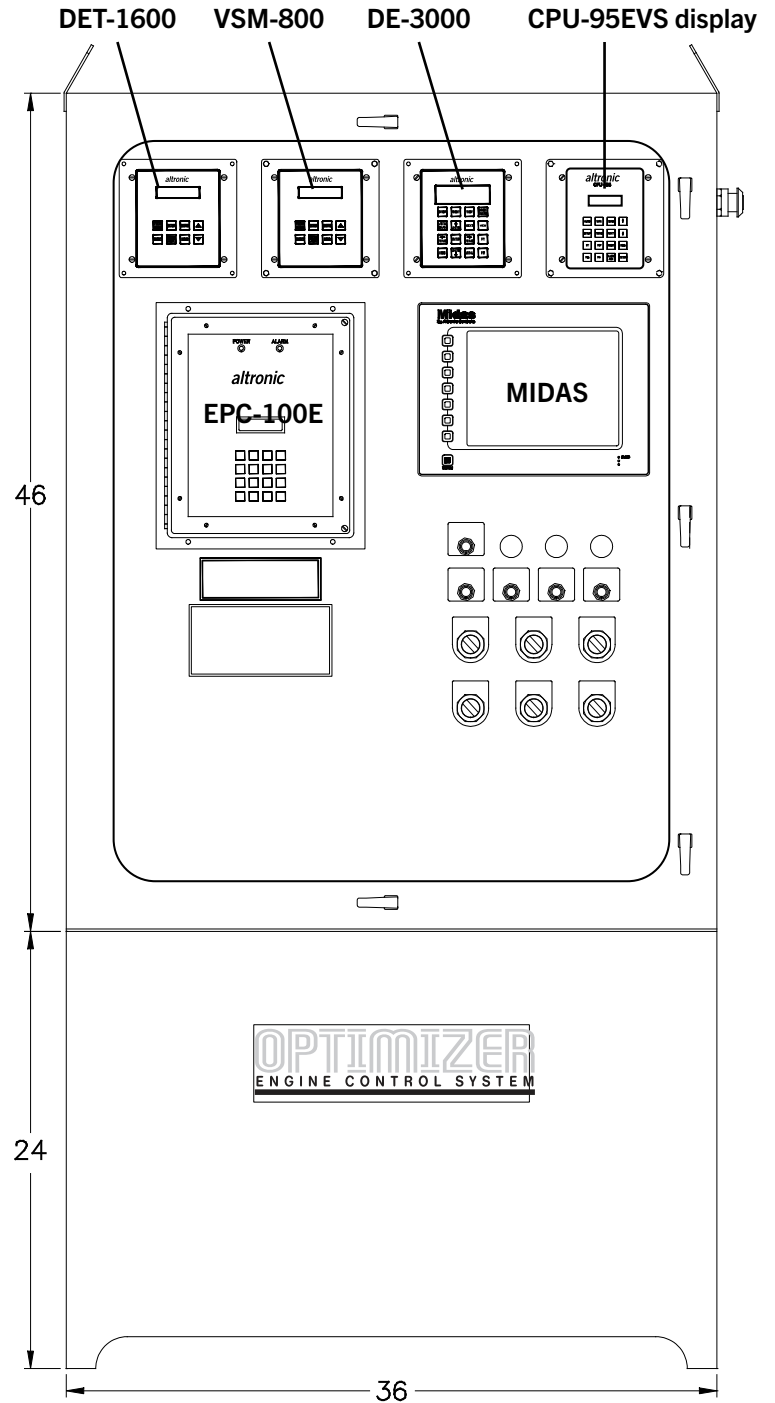
The Altronic Controls Optimizer™ Engine and Compressor Control System Retrofit and Upgrade Package has been engineered from the ground up to provide Waukesha VHP® engine-driven compressor package operators with a state-of-the-art control system for the entire engine/compressor package that is effective, reliable, and easily serviced by the user themselves. It also brings operators additional functionality beyond the OEM systems, as well as the added-value and accessibility of the global network of Altronic Distributors and their inventory of parts and in-house service personnel.

This unique control system leverages field-proven and reliable products such as the CPU-95EVS VariSpark® Digital Ignition System and DE-3000 Monitoring and Control System into a tightly integrated, yet flexible and scalable package. With these products and others like the EPC-100E Advanced Air/Fuel Ratio Control and the DET-1600 Detonation Detection System as the base, the standard system can be customized to exactly meet the performance and operating requirements of the application, while at the same time insuring that the system is both cost-effective and is within the scope of the customer to easily operate and maintain. Painted or stainless steel construction is available, as are CSA-certified and unrated designs.



## Optimizer™ System Component and Function Overview

- Altronic CPU-95EVS Digital Ignition System with optional Altronic EZRail Ignition Wiring System
- Altronic ActuCOM R Electronic Governor with Integrated Actuator for engine speed control
- Altronic DE-3000 Monitoring and Control System for safety shutdown, temperature/pressure monitoring, start-stop control, compressor cylinder lubrication, and optional telematics and skid process valve control
- Altronic EPC-100E Advanced Air/Fuel Ratio Control System
- Altronic DET-1600 Detonation Detection System for engine detonation/knock
- Altronic VSM-400/800 Vibration Sensing Module for skid/package vibration monitoring, including the engine, compressor, cooler, etc
- Large Altronic MIDAS HMI Color Touchscreen Display for convenient access to critical data



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