

**DRESSER-RAND**®

Bringing energy and the environment into harmony.®

# ENVISION™ CONDITION MONITORING SOFTWARE

# Envision™

## condition monitoring software

**Dresser-Rand Controls Systems has been designing control systems for various applications for more than 50 years and with this heritage comes a wealth of experience designed into every system.**

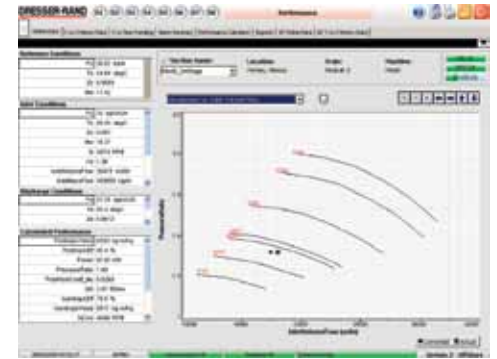
Large rotating equipment plays a critical role in supporting the global oil, gas and petrochemical energy infrastructure. There is simply no substitute for the varied applications this equipment serves. So when critical equipment fails, the failure reaches beyond visible equipment damage. Equipment that isn't running equates to lost profits. As a supplier of premier rotating equipment, Dresser-Rand strives to provide the safest, most efficient, and highly reliable rotating equipment.

To help achieve this goal, Dresser-Rand has worked to provide the most efficient and mechanically sound equipment available, and then augment these units with condition monitoring systems that are based on the latest electronic and software tools for predicting performance anomalies. By providing rotating equipment operators with diagnostic and performance monitoring, they are more empowered to assess the health of their equipment and predict failure before it occurs. This ability is provided within the single computer interface of D-R's Envision condition monitoring software.

### LOWER COSTS, IMPROVED PERFORMANCE

Envision provides a uniquely differentiated value proposition that allows for process control and condition monitoring within a single computer platform. Unlike traditional systems that use separate control and monitoring displays, the Envision system combines these primary functions to allow for unprecedented insight into a unit's performance and mechanical health.

At its foundation, the Envision suite of software analysis tools and data collection hardware constantly monitors machinery condition in real-time. This allows for immediate recognition of point alarms and performance deficiencies. Multiple users can simultaneously access data for evaluation from local

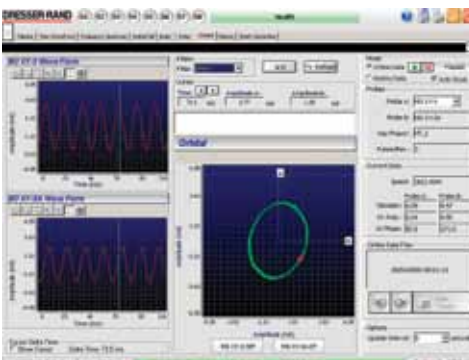
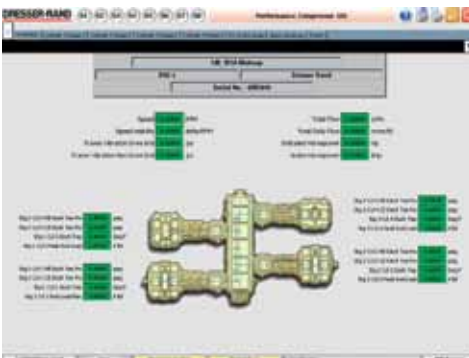
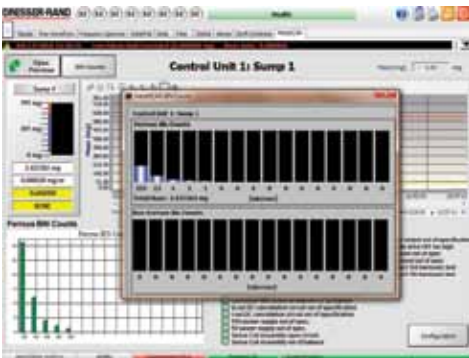


and remote locations in user-specific viewing sessions. So your compressor expert can view performance data at the same time your rotating diagnostics expert views vibration data, regardless of where they are in the world. By combining all data needs into a single interface the Envision software solution leads to increased equipment availability and reliability, ultimately reducing cost of ownership and increasing retained value.

### COMPREHENSIVE ANALYSIS AND REMOTE ACCESS — DRESSER-RAND DELIVERS

The Envision suite provides a means for achieving lower total life cycle costs. It is scalable and applies to nearly all applications. The fully optioned Envision solution provides a comprehensive analysis for all types of rotating equipment, including steam turbines, gas turbines, engines, expanders, motors, reciprocating compressors, turbo compressors, and generators. It can monitor D-R manufactured equipment in addition to other manufacturers' equipment — regardless of nameplate or location.

Machine monitoring must extend beyond basic data acquisition and data processing because accurate data sources and data processing tools are only as useful as they are accessible. The ability to instantly access critical data from anywhere in the world is important. Likewise, data is more coherent when presented in a single user interface that combines data for all machine train components, performance results, condition alerts, reporting functions, and any other critical data suited to specific user needs. Dresser-Rand's Envision condition monitoring software provides this remote access interoperable solution.



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