GEA VTrac can minimize unplanned compressor driveline shutdowns

To minimize equipment downtime and reduce costly compressor rebuilds, GEA offers the VTrac continuous vibration monitoring system for industrial refrigeration and gas compression packages.

The GEA VTrac system consists of four accelerometers measuring the spectrum of vibration in the horizontal plane. Two accelerometers are mounted on the compressor and two on the motor, as pictured on the right. Each accelerometer sensor is placed above the bearing on each end of the motor and compressor. The accelerometers are wired to a compact module located in the control panel. The vibration spectrum is categorized to specific bands to detect early failures associated with: Unbalance, Motor Rotor Bar failures, twice rotational speed anomalies, and bearing defect signatures. The GEA VTrac is a fully integrated solution with the GEA Omni refrigeration controller, which displays the data and provides early warning and even safety shutdown. Small developing issues can be detected early and planned for repair, before catastrophic failure occurs. The GEA VTrac is also adaptable to other control panels and equipment.

To explore the benefits of the GEA VTrac on new or field retrofit compressor drivelines, please contact your local GEA sales professional.

Key features of the GEA VTrac System when integrated with the GEA Omni Control Panel

- Continuously trends vibration amplitudes.
- Relative vibration levels are historically trended and accessible via communications.
- “Damage View” displays the relative vibration level in an easily understood bar graph (pictured at right).
- Switching to “Spectrum View” displays the full vibration spectrum with fault frequencies.
- “Warning” and “Damage” levels are annunciated. The “Damage” level can be configured to automatically shut down the compressor.

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