Jordan Technologies, an AEREON Company, has been servicing, designing and building VRU systems for over 35 years. The experience gained through servicing all manufacturers’ types of VRUs, has allowed AEREON to gain broad and deep insights into the design, operability and maintenance of different equipment packages associated with carbon-bed vapor recovery units.

The heart of carbon-based VRU systems is the vacuum pump itself. Historically, vacuum pumps supplied were liquid ring technology, however with major advances in system designs, much of the industry has started to switch to dry pump technology for new systems. In addition, older systems are being retrofitted to the more efficient and economical dry technology. Eliminating the contamination of recovered vapors with lubricating oils and glycols, plus negating the disposal of contaminated seal fluids are some of the value-drivers.

In terms of dry pump units, AEREON’s Jordan Technologies routinely supplied its VRUs with many different manufacturer types of pumps, but in 2009 Jordan introduced the Hori Dry Vacuum Pump to the industry. Since its introduction the Hori has demonstrated the following key advantages that are rapidly making it the pump of choice for Carbon-based Vapor Recovery Systems:

- Operates at much lower RPM’s: This leads to lower power consumption, low vibration, low noise and extended equipment life as there is less wear and tear on moving parts.
- Higher efficiency and capacity: Can create higher capacities, in excess of 200 CFM above other dry pumps at 800 RPM versus the 3600 RPM required by others.
- Compact robust modular design: The Hori compact robust modular skid design makes unit footprints easy to configure and retrofits simplified.
- No direct coolant injection requirement: The Hori does not require direct coolant injection to cool the pump. This eliminates all possibilities of over injection, resultant hydraulic compression failures, and the need for frequent draining of liquid build-up.
- Ease and ability to repair: The Hori Pump is easily repairable in local maintenance shops unlike other pumps that must be sent back to the OEM’s specialty repair facilities. When coupled with AEREON’s “Hori pump emergency back-up program” a spare pump can be sent to your facility from our global operational centers, immediately upon notice, reducing system downtime.
- Proven track record of reduced failure rates and up time: AEREON’s Jordan Technologies track record allows us to provide extended warranties, with confidence, to the end user.
- ATEX certified pumps: All of our Hori pumps are certified to ATEX Group II, Equipment Category 2(T4) - which makes their use permissible for ATEX 2GD.
AEREON, headquartered in Austin, Texas with its Centre of Excellence of Vapor Recovery located in Louisville, Kentucky, home of Jordan Technologies, is a global leader in the supply of high-quality technologies and services for gas and vapor handling, combustion and recovery for the oil and gas industries. AEREON was formed in 2012 when Flare Industries, LLC acquired Jordan Technologies. Under the two brands, AEREON offers the broadest product line of engineered flare systems, enclosed combustion systems, ignition systems and vapor recovery units, and is the largest field service company for vapor recovery and combustion equipment in the world. AEREON operates in more than 45 countries around the globe. For more information, visit www.aereon.com.

Lower RPM operation leading to higher reliability, low vibration and low noise: The HORIZ pump runs with a top speed of 800 RPM versus 3,600 RPM for other dry vacuum pumps. The lower RPM operation results in lower noise levels (75 Dba), reduced wear and tear on the pumps and longer life cycle, while still providing more capacity than the competition’s pumps.

Compact, robust design: The unique design of the Hori pump that maximizes the usage of the available cylinder displacement provides for a compact and lightweight design, with units measuring 5x6 ft.

Elimination of coolant injection and need for frequent draining of liquid build-up: Hori pumps do not require direct injection of cooling gasoline/liquids into the internal compression area, eliminating the potential of internal liquid build-up, damage to seals, drastic temperature spikes, and potential for gasoline leaks and spills. Instead, Hori pumps only require the use of cooling gasoline for the pumps jacket.

Easy to repair: Hori pumps are designed with ease of maintenance in mind. This allows for repairs to be made at local facilities with lower costs vs. having to send the pumps to OEM specialty repair facilities. Coupled with AEREON’s “Hori pump emergency back-up program” spare pumps can be immediately sent to a site from our global operations centers reducing downtime.

Increased reliability: The increased reliability of the Hori pump significantly reduce failures and related maintenance costs, thereby decreasing downtime. AEREON is so confident in the Hori pump that we have doubled the warranty period for that pump vs. other pump types.

Proven performance in Jordan Technologies carbon bed vapor recovery systems: Jordan Technologies has supplied over 400 vapor recovery units with Hori pumps installed in over 38 units to-date, and growing rapidly.