



VENT GAS RECOVERY FOR COMPRESSOR STATIONS



A ZERO EMISSION, CLOSED-LOOP COMPRESSOR STATION IS ACHIEVABLE.

One ZD3 system eliminates emissions from rod packings, unit blowdowns, exhaust from gas pneumatic actuators, filter unit blowdowns, pig trap blowdowns, and more.

DIFFERENTIAL DRIVEN DRAWDOWN



\$ Blowdown reduction is one of the highest ROI activities to mitigate methane emissions.

BENEFITS

- **Lower total cost of operations**
 - Avoid emissions credit expenditures and compliance fees
 - Avoid loss of product
 - Avoid external electrical power or ancillary equipment costs of other compression alternatives
 - Avoid costs of incremental and continual regulatory changes
- Compliance for the zero-emission future
- Reduce risk associated with venting gas
- Enhance reputation and community perception

FEATURES

- Zero external power requirement—driven by station gas differential pressures (dP); 100 psi dP standard
- 0–1480 psig
- Intrinsically safe design (Class I, Div. 1)
- No inlet gas regulation requirements
- High-speed drawdowns—scalable in increments of 1 acfm
- Tolerates liquid ingestion
- Simple mechanical installation
- Redundant and adjustable pressure control protection systems

EASY SYSTEM INTEGRATION!

HOW IT WORKS

1. High-pressure gas from station's discharge header expands through ZEVAC D3 unit, flowing to lower pressure suction header. This differential pressure provides the power for the unit to operate.
 2. All vent lines in the station are routed to ZEVAC D3 unit intake.
 3. When pressure is detected on the vent lines, ZEVAC D3 activates, capturing the vent gas and compressing it into the station suction header.
- ★ All ZD3 units are equipped with auxiliary air-drive capability when gas dP is unavailable.

