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Брянск (4832)59-03-52
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Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
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ECOsystème™

WHERE TO USE

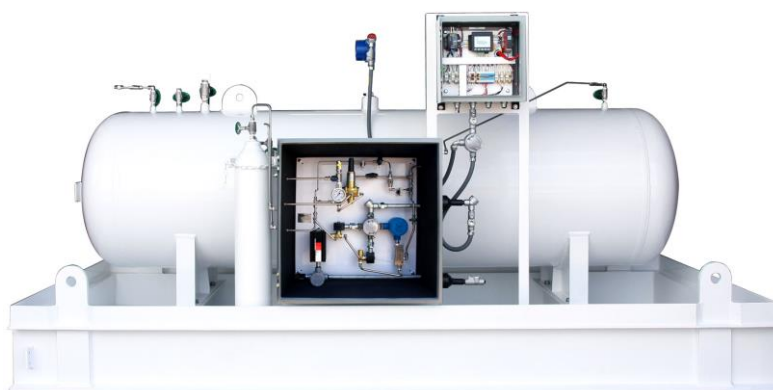
- City Gate Stations
- Distribution Pipelines
- Municipalities
- Renewable Natural Gas (RNG), Biogas, and Biomethane Odorization
- Grain Dryers
- Industrial Plants

IOM IOM-181:XLt Controller

IOM IOM-229: XL4 Controller

Data Sheet ECOsystem™

Share



Work Smarter, Not Harder

Welker's all-in-one, one-of-a-kind pumpless vapor injection odorizer for proportional to flow natural gas odorization in low, high, and variable flow conditions.

Environmentally Friendly Operation and Maintenance

Zero Emissions

Unodorized upstream gas is conditioned for use as system supply gas. This filtered and regulated gas is metered by the solenoids at controlled intervals to serve as the blanket pressure source for the odorant tank, thus no gas is emitted to the atmosphere.

No pumps, no problems. Without odorant pumps, the ECOsystem™ has few moving parts to maintain, making it the standard for reliability in the industry. All serviceable components are upstream of the odorant supply tank, meaning maintenance is odorant-free.

Automatic Odorization

Human vs. Machine

Traditional bypass odorizers are a thing of the past. Using modern technology, the ECOsystem™ eliminates the need for manual valve operation while also ensuring precise proportional to flow odorization. The incorporated Programmable Logic Controller (PLC) receives output from the flow meter on the pipeline and the system flow switch and adjusts the odorization rate accordingly. As seasonal and environmental factors impact the gas flow rate, accurate proportional to flow odorization continues—no crude valve adjustments required.

Electronic Record Keeping

Blazing Audit Trails

Monitor the ECOsystem™ on-site at the intuitive touch screen controller or remotely via Modbus from the comfort of the control room. With the PLC's real-time tracking capabilities, current system performance data is always at your fingertips. Time- and date-stamped audit data and alarm history are logged to a microSD card and can be exported to a CSV file for accurate reporting, planning, and scheduling.

High Reliability, Low Maintenance

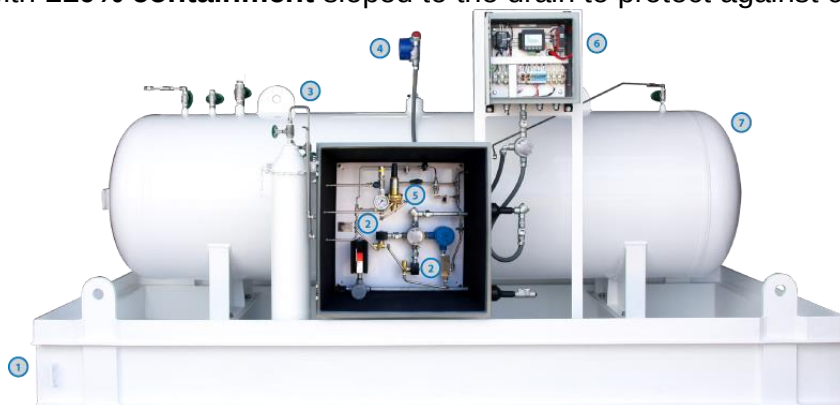
Pumpless is More

The system's regulator maintains a stabilized pressure differential between the upstream and downstream lines, ensuring consistent odorization without the use of a pump. Gas flow through the system is managed by solenoid valves, which are controlled by the PLC. Any interruptions to operation are limited in systems with identical redundant solenoids. Add a third solenoid for improved system responsiveness to variations in flow rate; the PLC automatically selects the primary solenoid appropriate for the current flow rate, and the third solenoid serves as a backup. Triple solenoid systems—with a low flow, high flow, and backup solenoid—are ideal for locations with wide variations in flow rate.

Safety Is Our Concern

Safety

Each tank comes with **110% containment** sloped to the drain to protect against contamination and ease clean up.



- 1 | SKID
- 2 | SOLENOIDS
- 3 | GAS INLET AND FILTER
- 4 | ELECTRONIC LEVEL INDICATOR
- 5 | REGULATOR
- 6 | CONTROLLER
- 7 | TANK

The ECOsystem™ provides 110% containment to keep the ground odorant-free in the event of a tank leak.

SPECIFICATIONS

ECOSYSTEM™ INJECTION ODORIZATION SYSTEM

ECOsyst[™]

Electrical Connection

AC 120 V

DC 24 V

Odorant Tank Volume

20 US Gallons (75 L)

60 US Gallons (227 L)

120 US Gallons (454 L)

250 US Gallons (946 L)

Other Sizes Available

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