

# ECOsyste<sup>™</sup>m Liquid Pumpless Injection System



INJECT

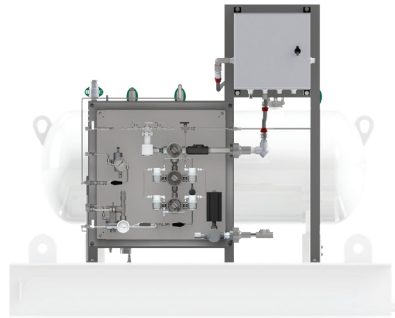


ZERO EMISSIONS



Reduce methane emissions with Welker's proven technology! The ECOsystem<sup>™</sup> Liquid Pumpless Injection System is based on the zero-emission design of our standard ECOsystem<sup>™</sup> and incorporates the accuracy and verification of the Accu/Line<sup>™</sup> family of smart liquid odorant injection systems.

This ECOsystem<sup>™</sup> is a turnkey odorant injection system designed to inject liquid odorant proportional to flow into natural gas pipelines with flow rates from 1 Mscfh up to 8.5 MMscfh with no adjustments.



## Features

- Zero-emission design
- Pumpless
- Accuracy measured to 0.002 cc
- Low pressure differential required for injection
- Intuitive touch screen controller with Welker program automatically adjusts the injection volume and rate to changing flow conditions
- Remote monitoring and communication using Modbus or Ethernet
- Audit trail and alarms log backed up to microSD card
- Redundant solenoids with automatic failover
- Low-pressure odorant supply tank with 110% containment sloped to drain

## Benefits

- No methane is released to the atmosphere during normal operation
- Eliminate vapor lock for dependable odorant delivery
- Reduced maintenance
- Reduced pneumatic supply pressure required compared to pump injection systems
- Know the injection volume of each actuation
- No manual injection volume adjustment
- Continuous proportional to flow odorization
- Off-site system monitoring and troubleshooting
- Time- and date-stamped historical records for accurate reporting, planning, and scheduling
- Skid containment protects the ground from contamination

## SPECIFICATIONS

ECOSYSTEM<sup>™</sup> LIQUID SYSTEM

### ECOsyste<sup>™</sup>m Liquid

Materials of Construction	316/316 L Stainless Steel, Painted Carbon Steel, PTFE, Kalrez <sup>®</sup> , Viton <sup>®</sup>
Ambient Temperature	-4 °F to 120 °F
Power	DC 24 V, AC 120 V, Optional Solar Panel
Injection Outlet Connection	¼" Tubing
Injection Pressure	Up to 200 psig
Odorant Inlet Pressure Required	15 psig – 50 psig
Instrument Gas Pressure Required	> 5 psig Over Injection Pressure
Flow Rate	5 Mscfh – 10 MMscfh
Tank Volume	60, 120, 250, 500, 1000 US Gallons

Weight and/or dimensions are approximate.  
Specifications subject to change without notice.



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