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# GPL Z9000

## Odorant Injection System

Patented

*Accurate odorization from 1,000 to 750,000 SCFH*



### ABOUT GPL ODORIZERS

At GPL Odorizers, we believe simple is better and strive to provide planet-friendly solutions.

GPL Odorizers (formerly Sentry Equipment and Zeck Systems) manufactures eco-friendly odorant injection systems for natural gas and other gases.

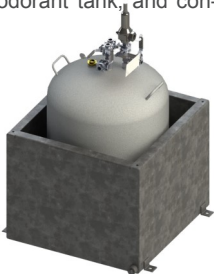
### WHAT MAKES US DIFFERENT

GPL Odorizers strive to provide environmentally friendly solutions to the odorization process. Our systems are self-contained and do not discharge gas into the atmosphere which improves safety, saves pipeline gas and reduces odor at the unit which equates to lower leak call complaints.

The GPL Odorizers also have fewer moving parts than the leading competitive odorization systems. This means less maintenance over the life of the unit.

### ODORIZATION SYSTEMS

The GPL Z9000 is available as an odorizer or a complete odorization system that includes the odorizer, odorant tank, and containment.



### DESCRIPTION

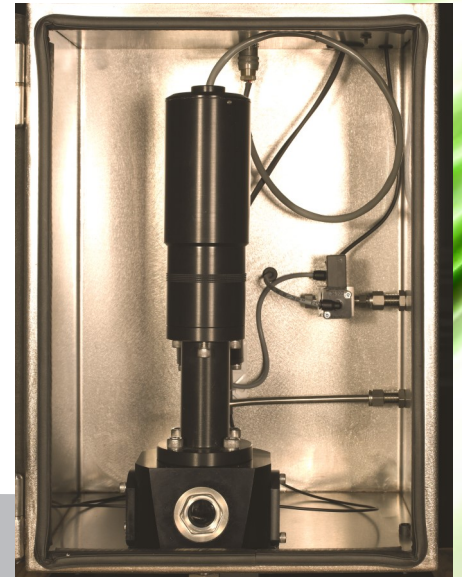
**The GPL Z9000 is an eco-friendly feature-rich odorizer that helps customers escape the operational complexities associated with other odorizers or the odorization process.**

The GPL Z9000 offers unmatched simplicity and ease-of-use as every action is intuitive and predictable. It is a proven system that works reliably in many problematic areas including major cities with seasonal winter weather hazardous conditions. The Z9000 performs consistently and repeatedly with minimal downtime, and because of its extensive communication features, it can accommodate even remote locations. In fact, virtually every part of the injector can be handled remotely. Plus, having only two moving parts exposed to the odorant, maintenance and operation are simple. Its simplicity, ease of operation and small footprint that make the Z9000 ideal for urban city gates as well as remote gas well applications. It is also ideal for sites where flow rates vary widely, whether daily or seasonally, as it can switch from automatic to batch mode at a user-defined gas flow rate.

The GPL Z9000 is direct injection natural gas odorizer that uses differential pressure to force the odorant into a gas stream. The beauty is that it is a self-contained, ventless sealed system, making it environmentally friendly as there is no gas discharged.

### PRINCIPLES OF OPERATION

1. The odorant delivery vessel is pressurized to a small pressure ( $\Delta P$ ) above the pipeline pressure using regulated pipeline gas or nitrogen. Odorant pressure control is maintained by a pressure regulator to feed a constant pressure to the controller.
2. When the flow signal determines there is a need for odorant, an isolation valve is actuated, and odorant flows to the metering valve.
3. The metering valve releases small volumes of odorant to a drip chamber where a specially engineered dripper cone meters 0.02 cc drops on a steady and highly repeatable basis regardless of drip rate.
4. As the drops pass the optical sensor, they are registered in the controller, and a flow rate is calculated. The optical sensor can accurately record drops as fast as 8/sec, which is well beyond the maximum dosing rate range.



### FEATURES

#### Ventless

- ⇒ Improved safety
- ⇒ Saves pipeline gas
- ⇒ Environmentally friendly
- ⇒ Lowers leak call complaints

#### Simple and intuitive operation and maintenance

#### Only two moving parts

#### Precise whether batch or drip mode

#### Small physical footprint

#### Excellent communication for remote use

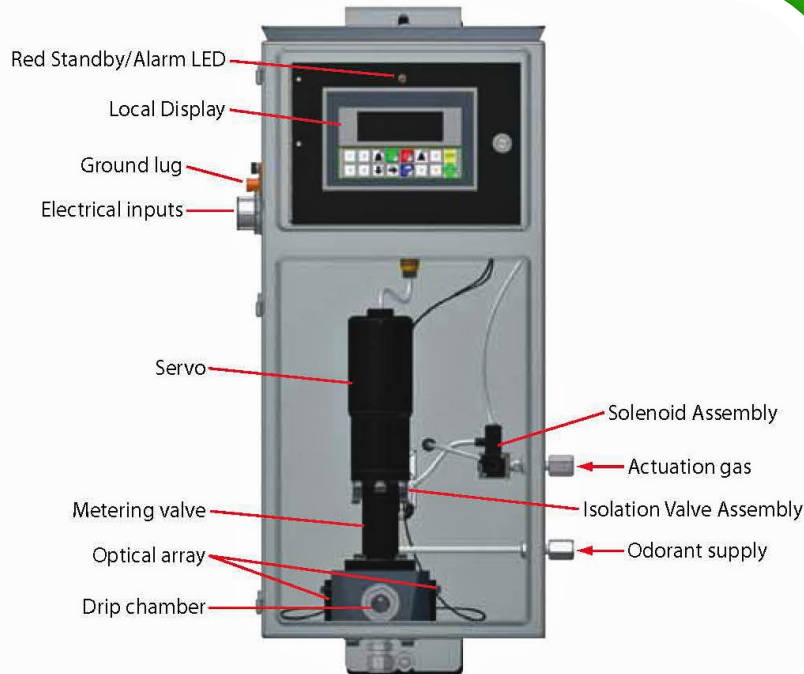
#### Accurate at varying flow rates

# GPL Z9000 SPECIFICATION SHEET

Odorant Injection System

Eco-Friendly • Simple • Accurate • Safe

**GPL**  
**ODORIZERS**  
planet-friendly solutions



Linc Energy Systems is the master distributor for GPL Odorizers.

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## PRODUCT SPECIFICATIONS SHEET

### SPECIFICATIONS

#### Weight

Approx. 50 lbs. (23 kg)

#### Power

12-30VDC; 75W (max)

#### Gas Pipeline Pressure

Maximum 250 psi standard; special available

#### Data Logging

Hourly archives with audit trail

#### Enclosure

304 stainless steel

#### Overall Dimensions

25.24 x 15.51 x 11.22 in

#### Connections

Myers Hub (2): 3/4" NPT  
Actuation Gas: 1/4" NPT  
Odorant Inlet: 1/4" NPT  
Odorant Outlet: 1/2" Swagelok tubing fitting

#### Operating Temperature Range

-20 to 120° F (-29 to 49°C)

#### Hazardous Area Classification

Class I, Division 2, Groups C and D

#### User Interface Options:

4 line by 20 character LCD display or remote HMI computer

#### Additional Options:

Odorant tank packages, remote HMI, wireless or landline modem, odorant pressure control



It is the end user's responsibility through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are correctly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.

For More Information Contact:

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