

# Service ValuePlus Warranty

Service ValuePlus is our standard, three (3) year limited manufacturer's warranty that is included with all new equipment.

In addition, to complement our warranty, we also have developed the **Customer 1st Maintenance Program**. This program includes:

- **System start-up, commissioning and operational instruction:** Technicians will provide onsite system start-up, commissioning and equipment instruction. Multiple system start-up discounts are available. Technician travel and expenses are included.
- **Maintenance:** We will send a factory technician onsite to provide a scheduled, annual equipment maintenance review. Labor, travel, and associated expenses are included.

We are a proud member of Accudyne Industries, a leading global provider of precision-engineered, process-critical, and technologically advanced flow control systems and industrial compressors. Delivering consistently high levels of performance, we enable customers in the most important industries and harshest environments around the world to accomplish their missions.



To learn more about our NJEX® odorization systems and find a representative near you, visit our website at [www.yzsystems.com](http://www.yzsystems.com) or call 800-344-5399.

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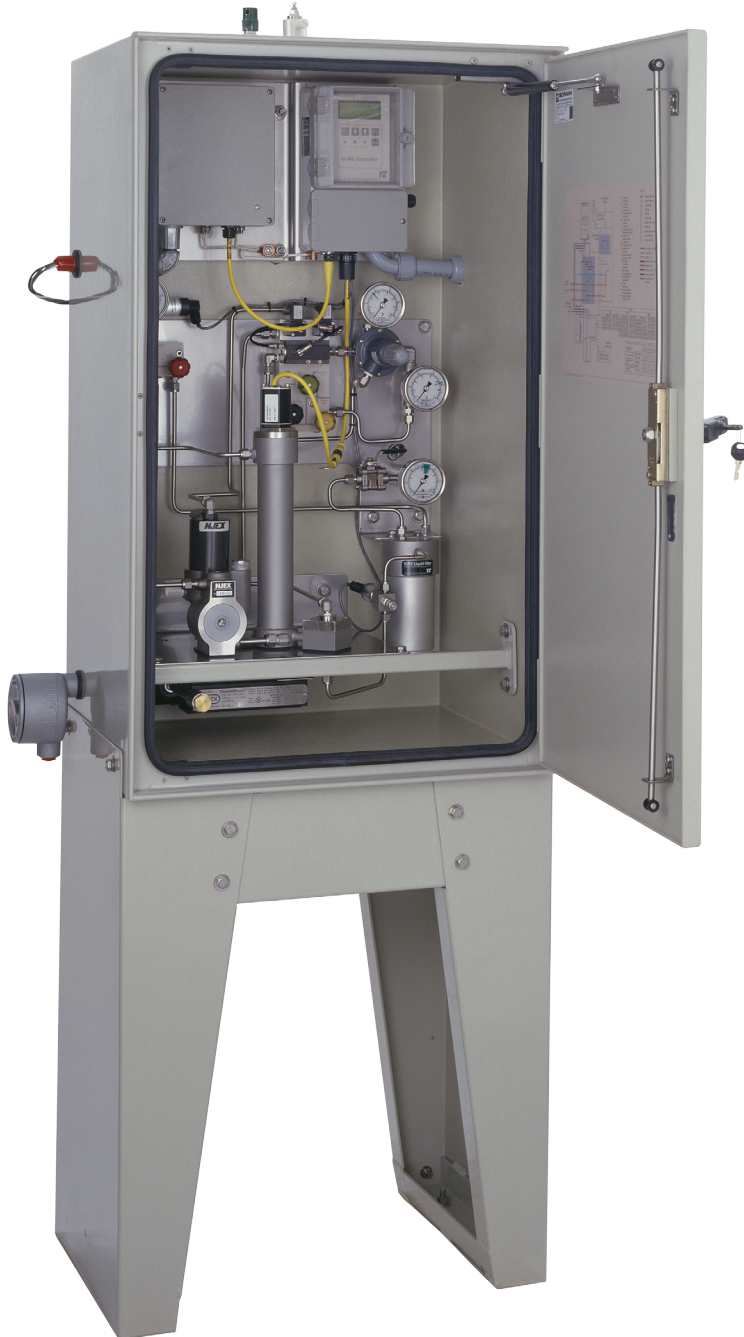


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# NJEX<sup>®</sup>

Odorization Systems



*Focusing on Your Priorities*

# NJEX<sup>®</sup> Odorization Systems

## Superior Technology, Reliable Results

The NJEX odorant injection systems measure and inject precise amounts of liquid odorant into cubic feet or meters of gas that flows down a pipeline to ensure detectability. Originally developed in response to the market's demand for technically superior odorization equipment, NJEX systems have a simple, standard design with a full complementary list of optional equipment to meet your operational requirements. They provide exceptional performance with features such as proportional-to-flow odorant injection, onboard metering for positive verifications of the odorant injected, system monitoring and alarm notification. The entire NJEX System is patented and CSA and Genelec certified and each system comes with our standard manufacturer's warranty, Service ValuePlus.

### NJEX System Components: Packed with Features for Enhanced Reliability

- Patented, pneumatically-actuated, positive-displacement plunger pump reliably injects the odorant
- N-300 Controller controls and verifies the exact quantity and rate of injection and can be set for proportional-to-flow or time-based operation
- Sentry monitor module and software remotely monitors the operation in real time



### A History of Reliability

YZ Systems is committed to the safety of people and the environment and has provided precision equipment to the energy industry for the past 60 years. Our innovative designs deliver accuracy while our versatile solutions accommodate a wide range of performance requirements. Commitment to quality is our top priority to ensure the protection of your most precious assets.

*The NJEX system reduces complexity of design with a simple, standardized operation.*

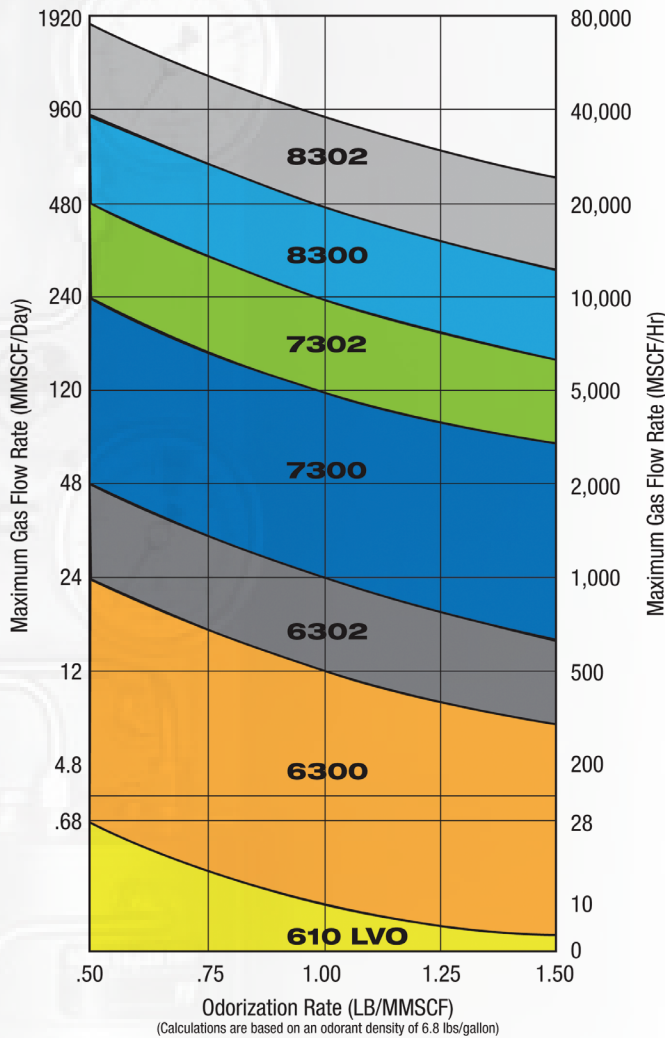
## Quality System, Simple Operation

The NJEX system reduces complexity of design with a simple, standardized operation. Odorant is received from the bulk storage tank and is filtered prior to a fill valve. The fill valve opens up automatically when it receives a signal from the N-300 controller. The verometer begins to fill with liquid odorant. The odorant level is electronically monitored. When the meter is full, the fill valve closes. The pump receives its odorant supply from the verometer. The pump strokes when it receives a signal from the N-300. As odorant is pumped from the verometer, the N-300 calculates pump displacement and odorant usage. The N-300 interfaces with a pipeline flow signal and maintains the desired odorization rate (in lbs/MMSCF) and adjusts the stroke rate of the pump.

**System Selection Chart**

**LEGEND**

- 8302 System
- 8300 System
- 7302 System
- 7300 System
- 6302 System
- 6300 System
- 610 System



### Selecting Your System

We offer a selection of NJEX systems to meet your operational requirements.

### High-Volume Injection Applications

NJEX 8300 Series, single unit  
 NJEX 8302 Series, dual unit

### Mid-Volume Injection Applications

NJEX 7300 Series, single unit  
 NJEX 7302 Series, dual unit

### Low-Volume Injection Applications

NJEX 6300 Series, single unit  
 NJEX 6302 Series, dual unit  
 The NJEX 610 LVO Series, single unit

# Product Portfolio

## NJEX 8300 Odorization System

### High-Volume Injection



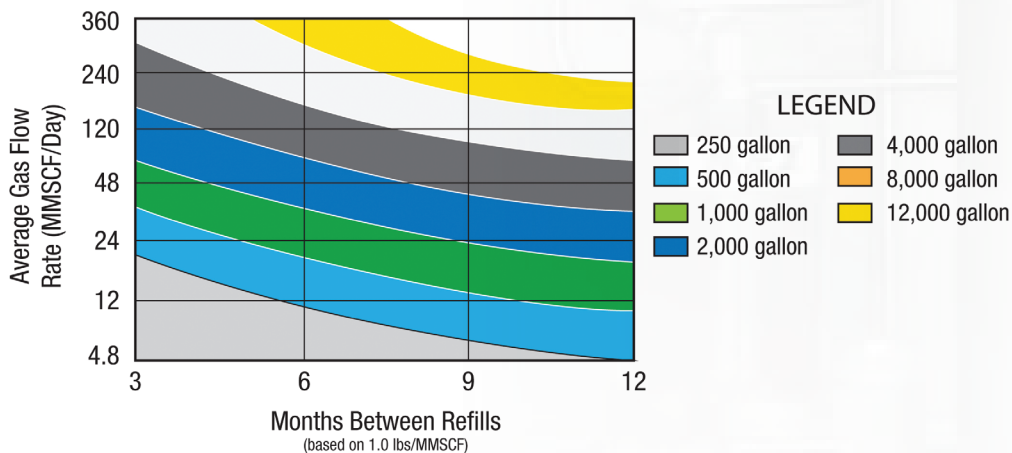
The NJEX 8300 series is designed for high-volume applications and delivers a maximum of 257 liters/day (68 gallons/day). The NJEX 8300 system can odorize up to 1.25 BSCF/ day based on an injection rate of 75 lbs/MMSCF.

Ideal for large transmission companies or large city gate stations, these big-injection odorizers have standard built-in features for enhanced quality and a variety of options to meet your process needs.

### NJEX 8300 Features

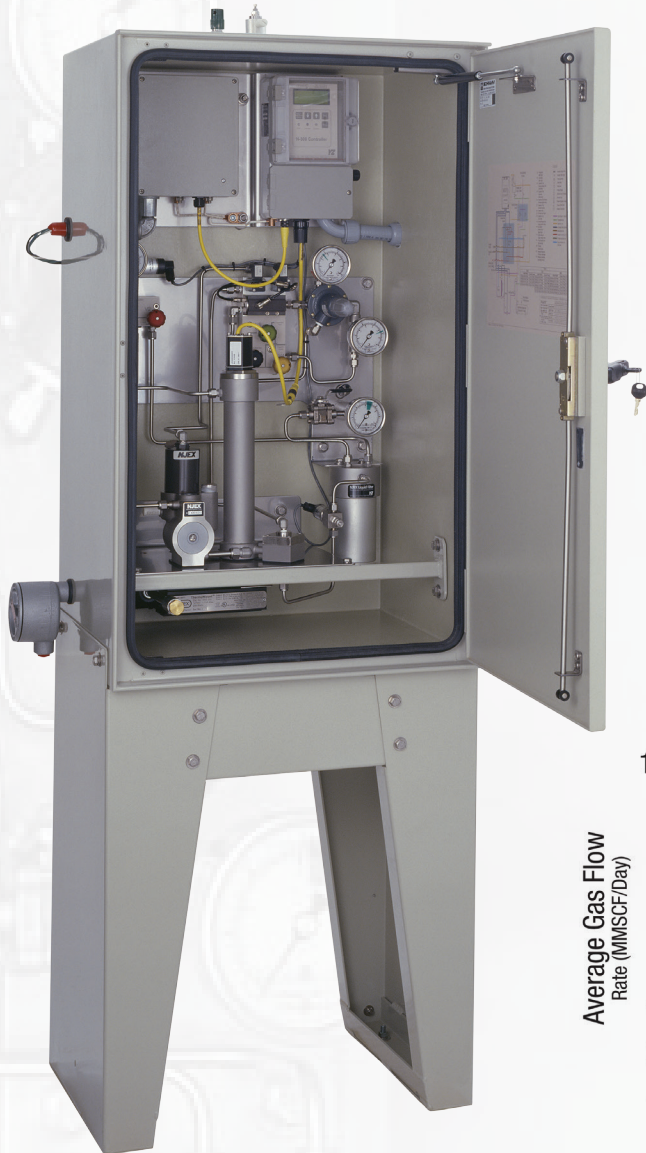
- Patented, pneumatically-actuated, positive-displacement plunger pump
- Teflon® diaphragm isolates all dynamic seals from the odorant
- Intrinsically safe electronics
- 257 liters/day (68 gallons/day) maximum odorant output
- 6cc/stroke injection
- Maximum of 30 strokes/minute

The system is available in a single unit (8300 series) or dual unit (8302 series) and can be upgraded to include a skid-mounted package with onboard odorant storage tank, containment skid and a wide variety of other options.



# NJEX 7300 Odorization System

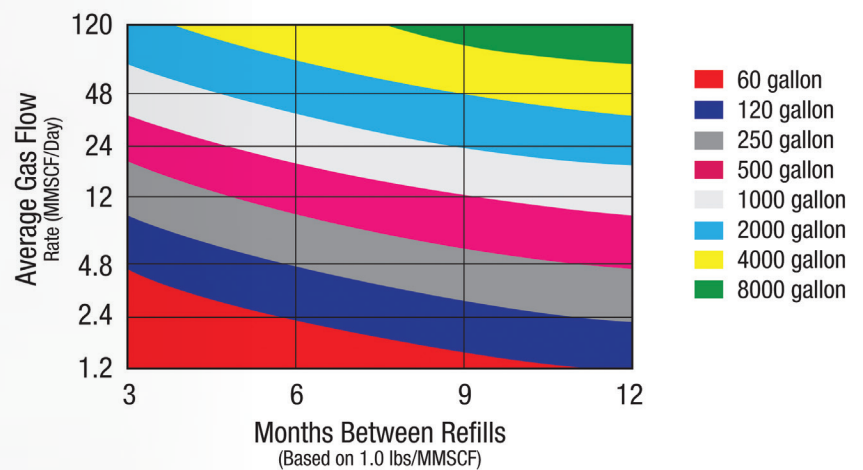
The Industry Flagship



The NJEX 7300 series was our first system and remains the industry standard for most user applications. This mid-use, primary odorizer is capable of accurately injecting up to 67 liters/day (17.6 gallons/day). The NJEX 7300 can odorize up to 320 MMSCF/Day, based on an injection rate of .75 lbs/MMSCF. The system is flexible and is available in a single unit, the 7300 series or for increased capacity and 100% backup capability we offer a dual unit, 7302 series. Both units can be upgraded to include skid packages and other options for enhanced operational capability.

## 7300 Pump Features:

- Patented, pneumatically-actuated, positive-displacement, reciprocating plunger pump
- Teflon® diaphragm isolates all dynamic seals from the odorant
- Intrinsically safe electronics
- 67 liters/day (17.6 gallons/day) maximum odorant output
- .2 to 1.0 cc/stroke adjustable displacement



# Product Portfolio

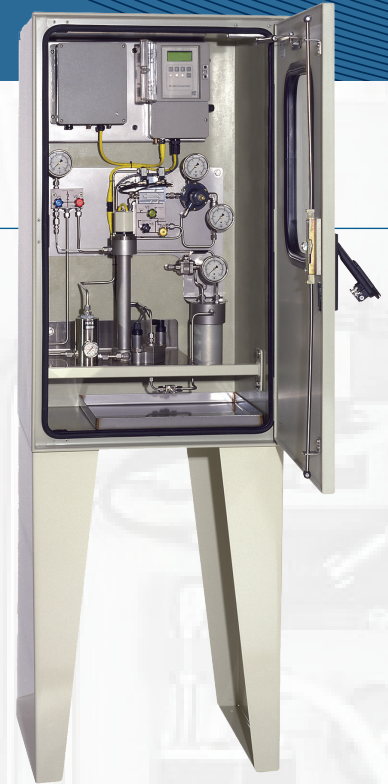
## NJEX 6300 Odorization System

### Low-Volume Applications

We offer proportional-to-flow odorant injection with our 6300 pump at a displacement from .06 cc/stroke up to .01 cc/stroke. This system is ideal for small city gate stations, municipalities and supplementary odorization facilities where verification is critical and the operation does not call for a large capacity system. The 6300 is available in a variety of configurations and is available as a single unit or coupled with another unit to provide additional system backup (6302 series). Either system can be skid mounted with a choice of standard ASME tank arrangements or numerous other choices to meet your needs.

### 6300 Pump Features:

- Patented, pneumatically-actuated, positive-displacement, plunger pump
- Intrinsically safe electronics
- 6.7 liters/day (1.76 gallons/day) maximum odorant output
- .06 to 0.1 cc/stroke adjustable displacement



## NJEX 610 Low-Volume Odorizer

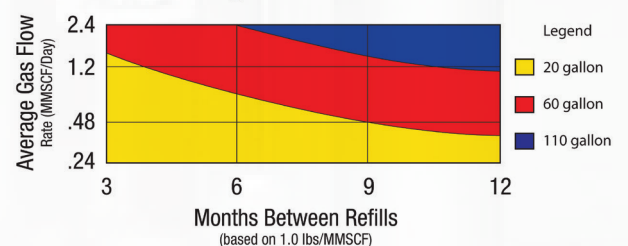
The NJEX 610 is a low-volume odorization system. The 610 series uses the Z-65 controller to offer a wide range of control and simplicity. In the timer mode, the Z-65 functions as an adjustable recycling timer. In the counter mode, the Z-65 becomes a two digit scaling counter, accepting most types of flow computer pulse inputs in order to achieve proportional to flow injection.

### NJEX 610 Features

- Patented, pneumatically-actuated, positive-displacement, plunger pump
- Intrinsically safe electronics
- 1.44 liters/day (.38 gallons/day) maximum odorant output
- .02 to .1 cc/stroke adjustable displacement
- Adjustable stroke rate 6 seconds - 99 minutes per stroke
- Easy field programming



**610 Storage Tank Selection Chart**



# Services and Upgrades

## Results-Oriented Service and Support

YZ Systems offers full technical service and support for all of our products. Our global staff of experienced engineers, sales, customer services and representatives are ready to assist you.

In addition, YZ systems offers the NJEX system training program. The program includes onsite equipment operation and maintenance training for up to 15 employees. Manuals and employee materials, travel, and expenses are included.

## One Source for Your Odorization Needs

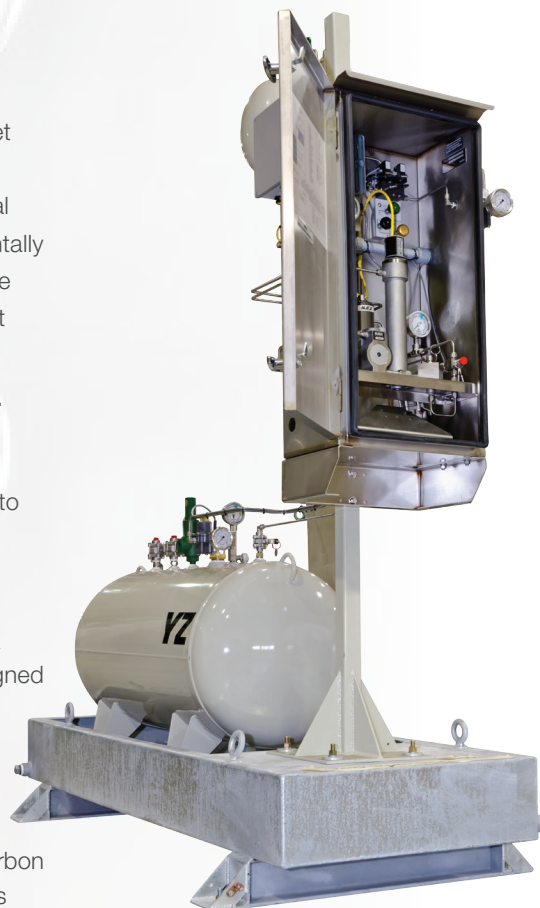
We detail the most complete line of auxiliary equipment found on the market today. We design, manufacture and support systems complete with optional injection probe assemblies, environmentally safe containment skid packages, a wide range of ASME tanks, a paperless audit trail device and more.

- **NJEX Bulk Odorant Storage Tanks.**

We offer ASME-code-stamped bulk odorant storage tanks ready for fast delivery. These tanks are engineered to interface with the NJEX system and feature capacities ranging from 75 to 37,854 liters (20 to 10,000 gallons). Each tank is equipped with our NJEX fitting and valve package that is designed for high-volume odorant use. Field installation is also available.

- **NJEX Secondary Containment Skid Packages.**

Our secondary containment skid is constructed of carbon steel and then hot-dip galvanized. This unit provides 110% of tank capacity.



## Sentry4 Monitoring Software

Sentry4 is a powerful tool allowing any organization the ability to remotely monitor in "real time" the operation of every NJEX installation. It provides the ability to change operating parameters, perform diagnostics and print multiple reports from a central location.

The NJEX System is capable of performing complex instructions quickly and efficiently. The mechanical tasks of injection, self-monitoring, communicating problems, and writing of reports have all become integrated logic. Such tasks include:

- System start/stops
- Daily odorant usage
- Hourly odorant usage
- System parameters
- System alarms