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Киргизия (996)312-96-26-47

Россия (495)268-04-70

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<https://welker.nt-rt.ru/> || [wrc@nt-rt.ru](mailto:wrc@nt-rt.ru)

## PulseInject™ Inventive Odorizer

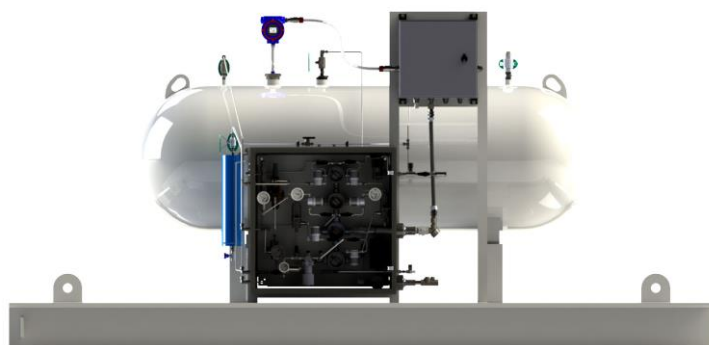
Welker's patent pending pumpless, pressure-driven odorant injection system is a complete solution for proportional to flow odorization for flow rates from **25 Mscfh** up to **8 MMscfh** and pipelines with a maximum allowable operating pressure of **1480 psig**.

IOM IOM-231

Data Sheet PulseInject™ Data Sheet  
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### WHERE TO USE

- City Gate Stations
- Transmission Pipelines
- Compressor Stations
- Power Plants
- Peaking Facilities
- Injection Pres



*Pumpless Odorant Injection*

## The Best of Both Worlds

Welker's innovative new turnkey odorization system ensures consistent odorant injection without the use of a pump. Like our automatic pumpless vapor injection system, the **PulseInject™** uses differential pressure and solenoid operation to odorize your natural gas line, but it adds the real-time liquid odorant measurement of our standard injection system, allowing the Programmable Logic Controller (PLC) to continue proportional to flow odorization when flow conditions change.

*Dependable Odorization*

## New Standard for Reliability

Without odorant pumps, the **PulseInject™** is a low maintenance injection system. The flow of conditioned unodorized upstream gas through the system is managed by solenoid valves controlled by the PLC. The **Welker F-9 Filter** on the odorant line and **Welker F-5 Filter Dryer** on the gas line

remove contaminants, prolonging the operational life and reliability of the solenoids, and identical redundant solenoids limit interruptions to operation.

Real-Time Data Monitoring

Past, Present,

The intuitive touch screen controller makes system monitoring and troubleshooting easy. If you can't navigate the menu-driven system on site, the controller's **Modbus** capabilities allow you to remotely review current system performance and time- and date-stamped audit data and alarm history. Save historical records to the installed microSD card and export to a CSV file for accurate reporting, planning, and scheduling.

Capacity

Size Matters

From 20 gallons to 10,000 gallons, the odorant supply tank can be sized to suite a broad range of flow rates. Regardless of volume, each tank comes with **110% containment** sloped to the drain to protect against contamination and ease clean up.

SPECIFICATIONS

PULSEINJECT™ PUMPLESS ODORIZATION SYSTEM

|                             | PulseInject™                                                           |
|-----------------------------|------------------------------------------------------------------------|
| Materials of Construction   | 316/316 L Stainless Steel, Painted Carbon Steel, PTFE, Kalrez®, Viton® |
| Ambient Temperature         | -4 °F to 120 °F*                                                       |
| Power                       | DC 24 V                                                                |
|                             | AC 120 V                                                               |
|                             | Optional Solar Panel                                                   |
| Injection Outlet Connection | 1/4" Tubing                                                            |
| Instrument Gas Connection   | 3/8" Tubing                                                            |
| Odorant Inlet Connection    | 3/8" Tubing                                                            |
| Vent Connection             | 3/8" Tubing                                                            |
| Odorant Tank Volume         | 120 US Gallon                                                          |
|                             | 250 US Gallon                                                          |
|                             | 325 US Gallon                                                          |
|                             | 500 US Gallon                                                          |
|                             | 1000 US Gallon                                                         |
| Injection Volume            | .1 cc – .5 cc (Low Flow Rate)                                          |
|                             | .5 cc – 15 cc (High Flow Rate)                                         |
| Injection Rate              | Up to 15 injection per minute                                          |

Injection Pressure

Up to 1480 psig

Operating Pressure

1480 psig @ -4 °F to 120 °F

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