

MRR Bypass Odorizer

Simple. Reliable. Proven in the Field.

Services: Operations, System Design | Industries: Gas Utilities, Renewable Natural Gas

The MRR Bypass Odorizer is a wick-type injection odorizer designed for utility distribution, gate station, and pipeline applications where simplicity, reliability, and low maintenance requirements are the priorities. Designed to extend time between refills, provide odorization capability without wicks, maintain a small footprint, and deliver temperature stability without burial.

Key Features

- Integrated bypass and wick design delivers higher injection accuracy across a wider range of flow rates than conventional single-design odorizers
- Adjustable injection rate for varying flow conditions
- Field-adjustable without interruption to gas flow
- High-volume reservoir design extends time between refills, reducing site visits and operating costs
- Standard level gauge with one year of Watchtower™ integration included on all units
- Compatible with all natural gas or propane mercaptan blends
- Carbon steel tank with stainless steel containment; Swagelok 60 series ball valves and fire-sized PRV standard
- Available as tank only or with stainless steel containment; cover, insulation, and heaters available on select models

Models and Capacity

All models rated 1000 PSIG @ -20°F to 150°F. Odorization rate 0.5–1 lbs/mmscf. Pressure differential 10" WC.

Model	Total Vol (gal)	Fill Vol 80% (gal)	Max Flow (mscfh)	Dimensions L x W x H (in)	Weight Without Cover (lbs)	Certifications
MRR6	6.0	4.8	500	33 x 28 x 63	500	National Board, CRN
MRR22	22	19.4	2100	67 x 46 x 61.75	900	National Board, CRN
MRR45	45	36	3900	75 x 46 x 61.75	900	National Board, CRN
MRR100	100	80	6500	67 x 46 x 61.75	900	National Board, CRN
MRR250	250	200	10356	67 x 46 x 61.75	900	National Board, CRN

Flow Rate and Capacity Data

Based on odorization rate: 0.5 lbs/mmscf (8 mg/m³)

		MRR6	MRR22	MRR45	MRR100	MRR250
Fill Vol (Gal)	Gallons	4.8	19.4	45	80	221.7
Flow for 1 Year Fill	mmscf	9	30	69	141	342
Flow for 2.5 Year Fill	mmscf	4	12	28	57	137
Max Flow	mmscf	500	2100	3900	6500	10356
Max Rate	lb/hr	0.25	1.05	1.95	3.25	5.18
Flow for 1 Year Fill	km ³ /hr	260	848	1967	4003	9689
Flow for 2.5 Year Fill	km ³ /hr	104	339	787	1601	3876
Max Flow	km ³ /hr	14	59	110	184	293
Max Rate	kg/hr	0.11	0.48	0.89	1.48	2.35

Turnkey Installation Available

MRR provides complete turnkey bypass odorizer installation, including optional orbital welding of liquid and vapor side connections. Orbital welding eliminates potential leak points and reduces nuisance service calls over the life of the system.

Why MRR

As the designer and supplier of the MRR Bypass Odorizer, we maintain full parts availability and provide knowledgeable field service. Our technicians understand how this equipment behaves in real operating conditions and can calibrate, maintain, and troubleshoot it efficiently.

Contact MRR to configure a Bypass Odorizer for your installation.