



OXYGEN SENTINEL

Removes Oxygen from Sour Gas Streams

Our reliable technology is an environmentally safe **Oxygen Removal solution** for gas streams with sour gas takeaway.

- Passive, catalytic sorbent bed removes Oxygen from the gas stream, provided existing H₂S concentration is at least twice that of the Oxygen concentration (Example: 10,000 ppmv H₂S and 30 ppmv Oxygen)
- Much safer than traditional Oxygen chemical scavengers, with no asphyxiation potential
- Disposable catalyst bed life is application-specific, typically 6-12 months and generally coincides with other planned facility maintenance to minimize disruptions
- No downstream corrosion or scaling and no overtreatment potential
- No moving parts for high reliability
- Extremely simple installation through modular, self-contained design
- Byproduct is non-hazardous and non-flammable, making disposal easy

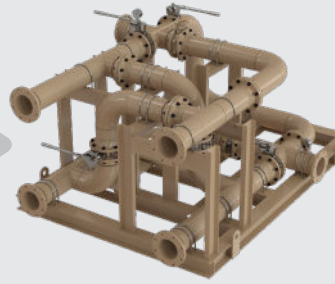
Specifications

Flow Capacity: 0-100 MMSCFD
 Turndown: Unlimited
 Vessel Construction: ASME Code Section VIII, NB Registered
 Standard System MAWP: 260 psig @ 200 F
 Maximum System Operating Pressure: 1,440 PSI
 Vessel Models (see back for sizes)
 Max H₂S Range to Inlet: 30,000+ ppmv
 Max O₂ Range to Inlet: 8,500 ppmv, spikes to 10,000 ppmv
 Typical O₂ at Outlet: < 1 ppmv
 Typical Inlet/Outlet Piping: (see back for sizes)
 Other included equipment: ASME Code PRV, (4) Sample Ports, skidded design
 Reactor Maintenance: Annual

	Maximums	Minimums
Flow	100 MMSCFD	Any
Oxygen	8,500 typical, 10,000 ppmv spikes maximum	Any
H₂S	Any	The average H ₂ S must be at least twice the average O ₂ content.



Lead-Lag Piping for Multiple Towers



Model #	Inlet/Discharge Connections	Water Leg
OS 70	2"	1/2"
OS 450	2"	1/2"
OS 1300	2"	1/2"
OS 2000	3"	1/2"
OS 3500	4"	3/4"
OS 6000	4"	1"
OS 20000	8"	2"
OS 40000	8"	3"
OS 50000	10"	4"

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Available Options:

- Automated, C1D2 self-sampling system
- Lead/Lag vessel design
- ANSI 600# & other custom vessel requests

