

DRYOXO™ E750

Oxygen and Moisture Removal System

Our reliable, patented Oxygen removal technology can be paired with a TSA dryer to create an environmentally safe solution for eliminating both oxygen and moisture from biomethane and CO₂. DryOxo technology purifies source gasses from agricultural biomass, industrial residues, and organic waste including sewage sludge.

- Remove oxygen and moisture to meet the most stringent pipeline and other offtake specifications
- Avoid shut-ins and ensure your biomethane meets the highest possible quality standards
- Fewest moving parts for high reliability
- Intuitive, practical design to facilitate ease of maintenance over competing solutions
- High degree of modularity ensures that it is simple to scale up or down and that spare parts contain significant overlap

Specifications

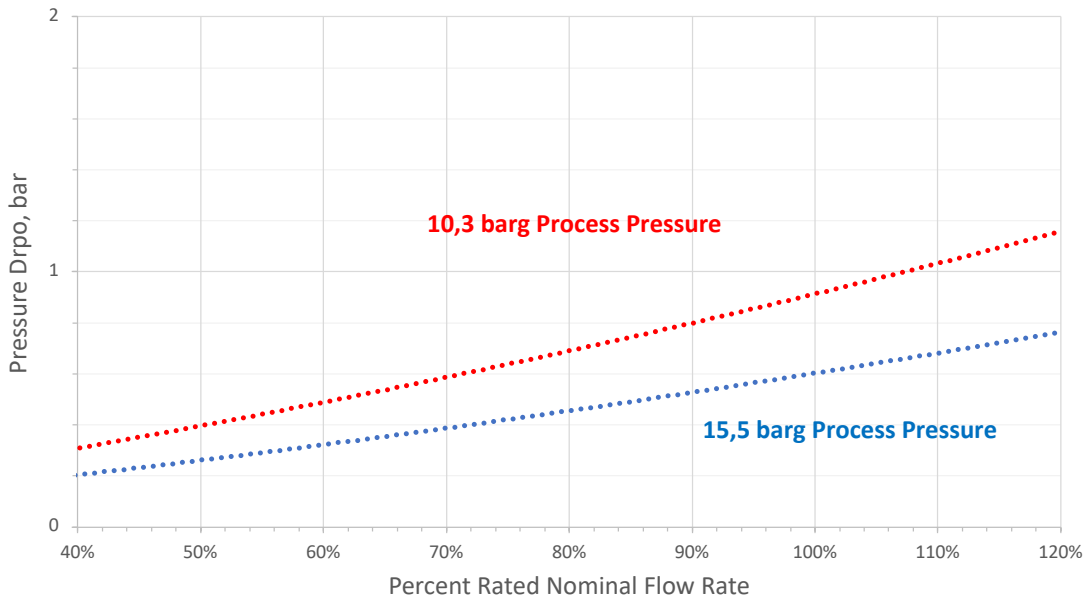
Flow Capacity:	835 Nm ³ /hr / 520 SCFM / 750 MSCFD
Turndown:	3:1 (33%)
Connections:	DN 50 PN 40 (~2" 300#)
Operating Pressure:	7-15,5 barg (101-225 psig)
Design Pressure:	16 barg (232 psig)
Estimated Pressure Drop:	1,1 bar (~15 psid)
Maximum O ₂ at skid inlet:	1,5-1,75% (15.300-17.500 ppmv)
H ₂ O at the skid inlet:	no free liquids
Maximum total sulfur at inlet:	2-5 ppmw
Maximum intermittent Siloxanes at inlet:	< 5 ppbv
Typical O ₂ at Outlet:	0-10 ppmv
Typical H ₂ O at outlet:	0-10 ppmv (≥ 99.94% removal)
Drying Desiccant:	Molecular Sieve
Skid Hazardous Area Classification:	ATEX Ex II 3G
3-phase 400 V Power Panel:	CE-marked but rated for unclassified area
Total Power Requirements:	400 VAC 3Ø/50 Hz, 161 Amps
Power Draw (Startup):	~109 kW (177 IN)
Running power draw (time-weighted average over 24 hours):	~31 kW
Estimated external chiller power draw:	26 kW
Cooling water temperature:	1,7-10 °C, nominal 7,2 °C (35 - 50 °F)
Nominal cooling water heat load (no SF):	29,6 kW (110k BTU/hr)
Weight:	6 500 kg (13,000 lbs)
Dimensions (L x W x H):	4,3 m x 2,5 m x 4,0 m (13ft x 8ft x 12ft)

Features:

- All vessels and piping manufactured, certified and documented per PED 2014/68/EU, DS/EN 13445 and CE-marked, fabricated in Europe
- All electrical is ATEX Ex II 3G
- All connections are per DIN EN 1092-1
- Fully automatic, 100% closed loop regeneration cycle
- Insulated adsorption and electric heater vessels for best thermal performance
- Ambient Temperature Rating: -28,9 to 37,8 °C (-20 to 100 °F)

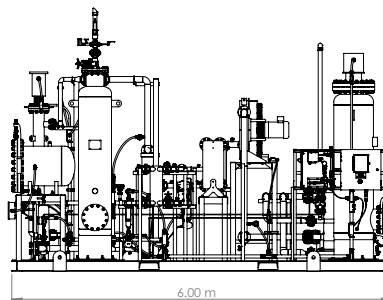
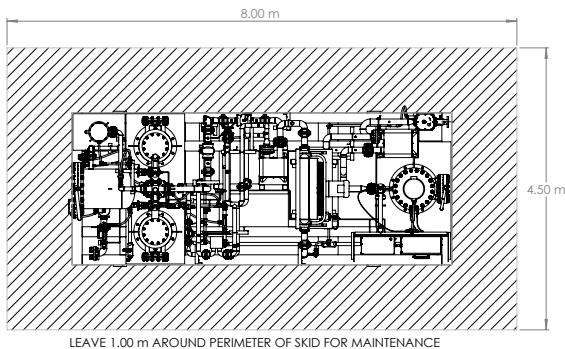
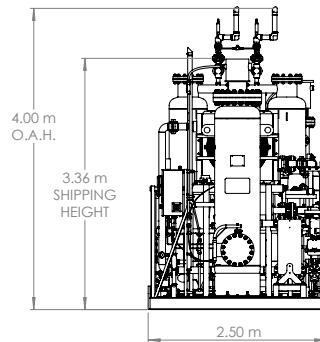


DryOxo Estimated Pressure Drop as a Function of Flow Rate



Available Options:

- < 5 ppmv Oxygen discharge specification
- < 5 ppmv H₂O discharge specification
- Up to 5% Oxygen at inlet
- SourGuard™ protection against acid generation in LFG applications
- 100% vent-free operation, including from instrumentation/analyzers
- External Chiller that integrates with DryOxo™
- Higher pressures



DNOW
Run Stronger.

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A DNOW COMPANY

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