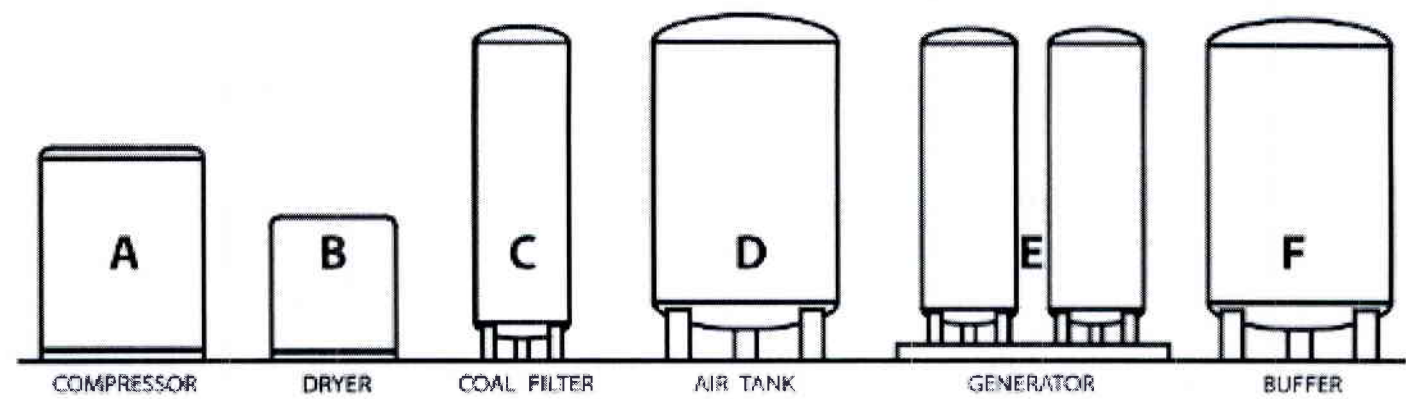


OXYMAT OXYGEN GENERATOR
MODEL O640

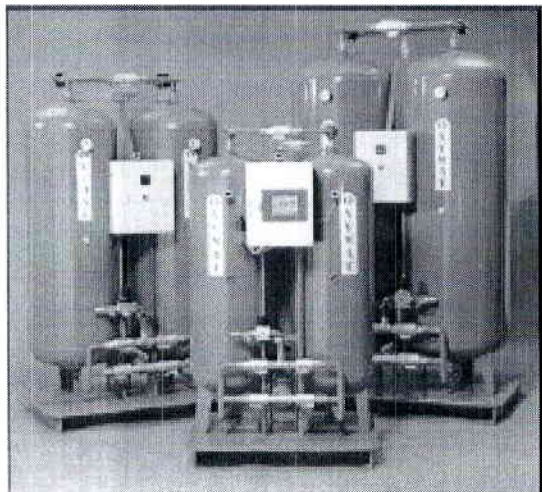


MAJOR PARTS DIMENSIONS

	A	B	C	D	E	F
(L x W x H) (cm)	153x101x170	94x64x123	N/A	110x110x284	134 x 125 x 232	110x110x284
Weight (kg)	1100	177	N/A	660	1774	660
Outlet connection	1 1/2"	2 1/2"	1 1/2"	1 1/2"	97	97

AIR PACKAGE SPECIFICATIONS

Air quality ISO Specification	ISO 8573.1:2010.2.4.1
Dew point	+3°C
Filtration Grade	0.01 micron



Disclaimer: Oxymet A/S is not responsible for misprinting



SCOPE OF SUPPLY



THE COMPANY

OXYMAT A/S is an established and reputed Danish manufacturer of all sizes of Oxygen and Nitrogen Generator Systems and Cylinder Filling Stations since 1978 and we possess first hand knowledge of the market, developments, demands and possibilities that PSA technology holds. We deliver the generators alone or full turn-key plants. More than 2500 Oxymat generator systems are currently in operation around the world. It is our mission to be your preferred innovative, dynamic and environmentally responsible supplier of onsite oxygen and nitrogen solutions worldwide.

Quality assurance

Quality assurance is an integral part of OXYMAT's operations and it is our priority to always deliver high quality products and services. OXYMAT holds all relevant approvals for serving the numerous applications we supply, such as • **ISO 9001:2008** • **ISO 13485:2004** • **ISO 14001:2004/2007** • **PED 97/23/EC Module B+D** • **MDD 97/42/EC (Medical Device Directive)** • Our generators are **CE marked and comply with European Pharmacopoeia and ISO 10083**.

Customer service

We at OXYMAT know that selling a product or service isn't the end of the process and we believe that customer loyalty is necessary to retain business. That is why we provide great customer service for both before and after sales. Our 24x7 aftersales service helps to ensure that customers are satisfied with their purchases. We are proud to say that we provide the best aftersales service in the market. Trainings are held regularly for distributors and customers to strengthen relationships, enhance their product knowledge, and learn new product/technological developments.

Global market

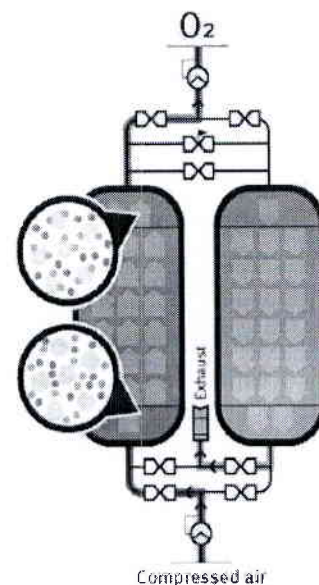
With headquarter situated in Denmark and over 35 years of manufacturing experience, the company services thousands of customers from its major production in Slovakia and sales offices in Denmark, Slovakia, China, and South America and distribution

network spread all over the world to ensure world-wide service and supply.

O₂ PSA - HOW IT WORKS

The PSA process is an extremely clean operation and the only 'raw material' is air. On-site generators allow for an uninterrupted supply of gas with a high purity output. This means that you can produce gas where and when you need it, and in the exact quantity and quality you need.

- PSA = Pressure Swing Absorption and Nitrogen molecules are absorbed under pressure.
- OXYMAT A/S uses two columns with molecular sieves to ensure continuous production.
- 6 bar(g) dry compressed air feed one column of the generator where the pressure is built. N₂ is tied to a molecular sieve during the building of pressure, and the O₂ is allowed to pass through to the Oxygen receiver tank.
- While pressure is build in on vessel, the second remains standby without pressure.



- A part of the produced gas is used for regeneration of the molecular sieve in the standby column.
- Highest quality Zeolite type is inside the columns of the generator. The molecular sieve is fully regenerative in the OXYMAT Generators.



FEATURES AND BENEFITS

Cylinder filling station: All systems can be expanded with cylinder filling option. A nitrogen generator combined with cylinder backup gives the highest level of safety.

Custom design: Heavy duty construction and design for rough conditions using high quality & durable components, Container installed systems, Frame-built design

Support: Very easy to install, operate and require very little maintenance and service. Specialist support from planning, installation and operation of your project.

Safety: Low operating pressures, no hazardous storage of cryogenic nitrogen, no safety risks of handling of high pressure gas cylinders.

Touch Screen Control: High quality Touch Screen Control Unit (Customized control system). Precision system control for purity level, trouble shooting diagnostics, maintenance schedules and operation diagrams.

Convenience: Easy to install and maintain with an unlimited supply of oxygen. The generator's PLC operates the generator automatically, starting and stopping the oxygen production in direct response to demand in the downstream distribution system. Only produce the gas you need, when and where you need in exact quantity and quality needed.

Flexibility: Unmatched System Lay-Out Flexibility. No matter your need or application we can provide state-of-the-art design to meet your requirements.

Cost Savings and Fast Payback: Quick pay-back 1-2 years. Generators saves you handling and storage costs of high pressure gas cylinders and avoids rental charges, transport costs and bulk user evaporation losses. No loss of production time due to running out of gas.

Efficiency: The OXYMAT generators have a higher separation efficiency than any other PSA system in the market with reduced feed air requirements resulting into lower energy requirement.

Fully Automatic & Remote control: Fully automated generator; Unattended Operation; Remote Control Access; Production begins when demand downstream is sensed. The system will go into standby mode when oxygen is not required.

Reliability: OXYMAT Generator will produce the required nitrogen 24x7x365 days for years when called for. High reliability through fewer moving parts and high quality components. You will get controlled flow and uninterrupted gas.

MAKERS LIST

Component(s)	Maker	Country
Zeolite (Oxygen PSA)	UOP	Italy
Vessels	Danatank	Denmark
Vessels	Yakut	Turkey
PLC (Basic)	Unitronics	Germany
PLC touch screen	Twido	France
PLC Intellicontrol	Beckhoff	Germany
Valves	Omal	Italy
Fittings & Pneumatics	Various	EU
Compressor	Kaeser	Germany
Compressor	Atlas Copco	Belgium
O ₂ analyser	GRYF	Czech Republic
O ₂ analyser for ppm	GRYF	Czech Republic
Air Dryer and filters	Donaldson	Germany
Antibacterial filters	Walker Filtration	UK
O ₂ Booster	RIX Industries	USA
O ₂ Booster	Haug	Switzerland
N ₂ Booster	Sauer&Sohn	Germany
N ₂ Booster	Bauer	Germany
Flow meter	CS Instruments	Germany
Flow meter	Endress&Hauser	Germany
Chilling unit	MTA	Italy
Cylinders HP	Worthington	Austria

