

OxyPAPER

Air separation unit for oxygen and nitrogen

Innovative air separation unit which covers all the oxygen and nitrogen needs in paper works

Continuous availability of oxygen and nitrogen guaranteed for complete autonomy

ASU with cryogenic technology and reduced costs

The SIAD Macchine Impianti proposal for the Paper Sector is an innovative system for the on-site production of oxygen and nitrogen using cryogenic technology. On site production overcomes the limitations of trucked-in liquid alternatives, often at significantly reduced costs. The OxyPAPER system is:

- *simple to install and maintain* thanks to the modular assembly;
- *reliable*, as the system is based on well-established cryogenic technology;
- *tried and tested*, as more than 500 SIAD cryogenic plants are operational globally;
- *compact*, and specifically designed for installation in large plants;
- *simple in design*, to facilitate the maintenance operations by the end user;

- *monitored by a remote service* which controls the operational status by remote control performed by SIAD Macchine Impianti.

Technical features

OxyPAPER is a cryogenic system which provides oxygen up to 99.5% purity, typically in the gaseous phase to save on energy costs. The system can also produce cost-effective liquid phase oxygen, if required to counter evaporative losses in back-up storage tanks. Although used in lower quantities in the paper sector, high purity nitrogen is also available.

Oxygen is an essential requirement for modern pulp manufacturing where it is used in bleaching processes and as a feed stock for ozone production.

ASU Model	Gaseous oxygen Nm ³ /h	Liquid oxygen Nm ³ /h	Gaseous nitrogen Nm ³ /h
OxyPAPER 1000	up to 1 000	up to 50	1 000 and above
OxyPAPER 1800	up to 1 800	up to 90	1 800 and above
OxyPAPER 3000	up to 3 000	up to 150	3 000 and above
OxyPAPER 5000	up to 5 000	up to 250	5 000 and above
OxyPAPER 10000	up to 10 000	up to 500	10 000 and above
OxyPAPER 15000	up to 15 000	up to 750	15 000 and above
OxyPAPER 16000	up to 16 000	up to 800	16 000 and above

Made-to-measure solutions available

Industries

- Oxygen Production in the Paper Sector



Oxygen is also used to optimize the activated sludge process in waste water treatment.

Technical standard

- The experience of the SIAD Macchine Impianti engineers, which is available to our customers, has created a certified standard which can be adapted to the wide range of needs of small, medium and large-sized industries.

Technical data

- Gaseous O₂ purity: 95%;
- Liquid O₂ purity: 99.5%;
- Gaseous N₂ purity: 0.1%.



International construction and safety standards

The standard design and construction procedures of SIAD Macchine Impianti comply with all the main international standards.

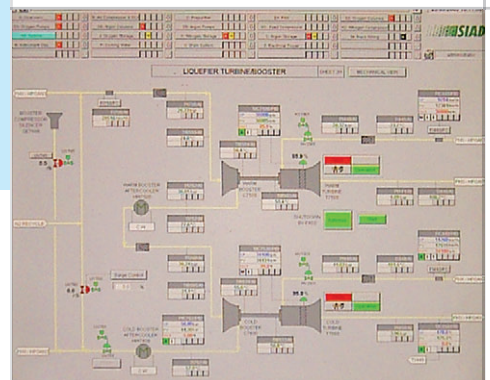
Global Service Division: a complete range of services

To reduce operating costs and to maintain the high efficiency of its Air Separation Units, SIAD Macchine Impianti offers its customers a complete range of services, together with a network of Certified Service Centres in five continents, operated by skilled technicians.

- **ASU maintenance and supply of spare parts:**
supply of spare parts;
maintenance work;
preventative maintenance;
predictive maintenance.
- **Remote assistance for ASU management:**
remote monitoring/parameter checks.
- **On-site support:**
commissioning and start-up supervision;
support for unit stop, restart and tuning.
- **Training courses:**
on-site theoretical and practical courses;
theoretical and practical courses at the SIAD Macchine Impianti works.



For further information:
siadmi_asu@siad.eu



Find out more about our range of services
at our website www.siadmi.com



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SIAD Macchine Impianti S.p.A.
Società unipersonale soggetta all'attività di direzione e coordinamento di SIAD S.p.A.
24126 Bergamo, Italy - Via Canovine, 2/4
Share Capital € 25.000.000 paid up
VAT and Fiscal Nr.: (IT) 00228420162
R.E.A. BG-72619 - Export: BG 006107

Telephone +39 035 327611
Fax +39 035 316131

www.siadmi.com - siadmi@siad.eu