

Smart Liquid 2.0: the answer to the flexibility and efficiency needs of gas companies

The result is an optimum compromise between operating costs and capital expenditure, in order to obtain the **lowest possible overall gas product cost**

The gas plant market is always seeking innovative solutions to meet the various needs for cutting costs whilst also addressing the increasingly varied demand for gas production: hence Smart Liquid 2.0, the new ASU range for the production of liquid Oxygen and Nitrogen. The ASU is designed in modular form for maximum management efficiency, both during installation and in operation.

SIAD Macchine Impianti's constant focus on customer requests and its many years of experience, led to the development of a new version of this plant that has retained the strengths of the previous one, plus enhancing it with extra advantages to make it increasingly adaptable to the needs of small, medium and large-sized industries.

Strengths

Maximum operating flexibility

Liquid Oxygen (LOX) and liquid Nitrogen (LIN) production can be varied with respect to design, to meet the changing product requirements:

- Maximize LOX (up to 110% design) reducing LIN (up to 20% design)
- Maximize LIN (up to 120% design) reducing LOX (to approx. 40% design)
- Minimize LOX (*Minimum draining of hydrocarbons for safety reasons*).

See table on the back of the flier.

Option for low pressure storage

Option for storing LOX and LIN products at low pressures, without any product waste, through the addition of a sub cooler.

Oxygen and Nitrogen of the highest purity

Production of oxygen and nitrogen in liquid phase of the highest purity, thanks to cryogenic technology.

High efficiency

Minimal energy consumption thanks to an optimized process and the latest-generation high efficiency machinery.



Quick installation and compact design

Thanks to the design in 5 modules mounted on skids that ensure assembly of the entire plant in just 15 days.

Easy use and maintenance

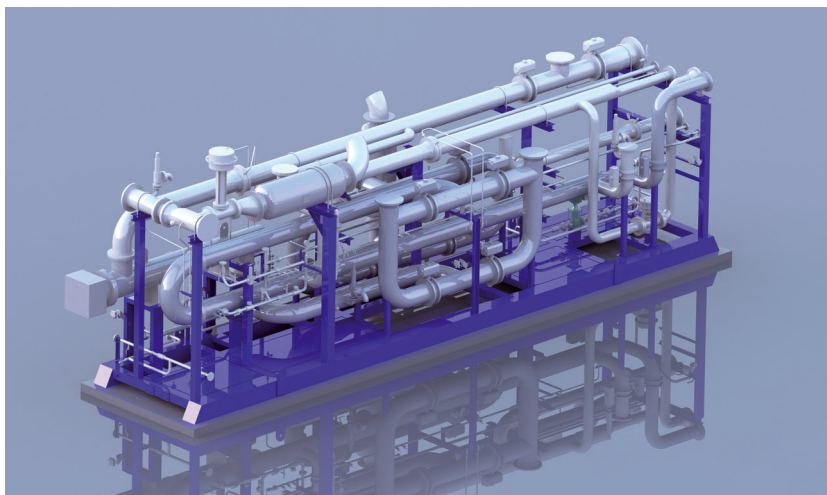
The plant is fully automated for easy and reliable “unmanned” management.

Remote monitoring

Option for remote monitoring service by SIAD Macchine Impianti to monitor operating status.

Power supply

Machinery suitable for electrical supply at 50 Hz and 60 Hz.



Technical data

- O₂ purity: 99.6%;
- N₂ purity: 99.999% and up to 10 ppm O₂;
- Latest technology with air liquefaction cycle.

SL 2.0 Production data table

Model		SL 30		SL 50		SL 90		SL 130		SL 190	
Running mode	Unit	LOX	LIN	LOX	LIN	LOX	LIN	LOX	LIN	LOX	LIN
DESIGN mode	Nm³/h	330	600	600	1 000	1 015	1 600	1 563	2 315	2 510	3 015
	STPD	12	20	23	33	38	53	59	77	95	100
MAX LIN mode	Nm³/h	285	685	390	1 245	940	1 685	1 400	2 510	1 550	4 130
	STPD	11	23	15	41	36	56	53	83	59	136
MAX LOX mode	Nm³/h	345	170	615	360	1 205	425	1 860	220	2 890	0
	STPD	13	6	23	12	46	14	70	7	109	0
MIN LOX mode	Nm³/h	10	590	28	1 080	290	1 505	45	2 270	50	3 448
	STPD	0,4	20	1	36	11	50	2	75	2	114

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