

New NITROSWING® Modular PSA Nitrogen Generators

What has been changed and improved ?



GROUPE



A major step forward

- Unprecedented productivity
- Enlarged and optimized HMI
- Extended data communication capabilities
- Improved piping and valves design
- Faster reaction time
- New ergonomic design





Drastically improved performance

The new NITROSWING incorporates a new high efficiency Carbon Molecular Sieve (CMS) allowing a major gain of productivity and a reduction of air consumption.

Example : For an 8 modules NITROSWING® @ 0,1 vol.% O_2 residual and 7,0 bar(g) air pressure :

- Productivity is improved by 48%
- Air factor is improved by 22%

| Performances | Old line | New line |
|--------------|----------|----------|
| Flow (Nm3/h) | 29,6 | 44,3 |
| Air factor | 3,88 | 3,09 |



Enlarged / Optimized HMI

SIEMENS SIMATIC PLC



Siemens S7-1200 PLC

Siemens KTP700 Basic 7" Touch Panel
 Remote Control & Monitoring through Web
 USB-Data logging (every Minute for 450 Days)
 Optional Wi-Fi Connection with App for Smartphone or Tablet
 No Control Lamps & Switches anymore
 External Power Switch on Left Side Cabinet





Enlarged / Optimized HMI

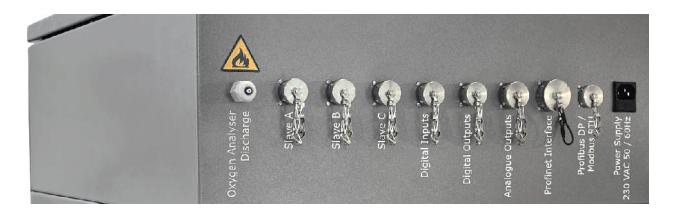
7" Colour Touch Screen







Extended Data Communication Capabilities



- Standard Features
- Connections for Control of up to 3 Dual Banks
- Digital Output Signals
 (Run Stand-by Common Alarm)
- Digital Input Signals (max. 14)
 - Profinet Industrial Ethernet Interface
 - **Optional Features**
 - Analogue Output Signals (max. 8)
 - Modbus RTU or Profibus DP



Improved Onboard Instrumentation

- Newly included Nitrogen Pressure Transmitter
 - No fixed Hysteresis anymore between Run / Stand-by Mode
 - Adjustment of Stand-by Pressure through HMI
- Process Pressure Gauges on the side

Optional

- Oxygen Analyser with Zirconium-Oxide Sensor
- Electronic Flow Product Meter
- Pressure Transmitter for Feed Air
- Temperature Transmitter for Feed Air & Nitrogen
- Moisture Transmitter for Feed Air & Nitrogen

New : can be installed turnkey in the cabinet



Improved Process Piping & Valves

Reduced number of Components

Solenoid Valves Manifold replace Single Solenoid for each Process Valve

No more RC Filter : reduced failure risk

Reduced number of Fittings

Maintenance Access

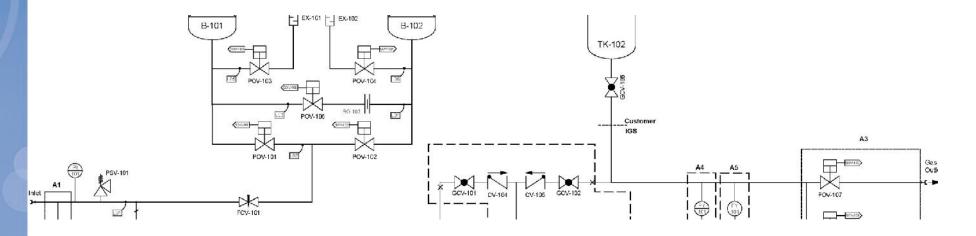
Reduced Energy Consumption by 75%



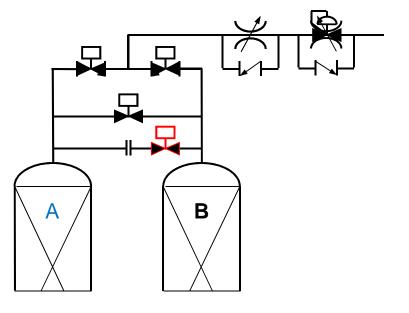


Faster Reaction Time

Improved PSA Process



- Pneumatic Valve in Sample Supply Line to O₂-Analyser
- No Loss of Product Gas during Stand-by
- Pneumatic Valve in Purging Line for Process Freezing
 - Almost Immediate Production after Start





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NOXERIOR & NOVAIR Group

- French group founded in 1977
- 100% family-owned business
- World-class leading manufacturer of on-site Oxygen & Nitrogen generators
- International oriented: 85% revenue outside France in over 110 countries





Organisation internationale de normalisation



Certifications

CERTIFICS ANANDRA 224 MANAGEMENT SYSTEM CIRTUR NOXERIOR S.r.I. unia, 48 - 58100 Grosseto (GR) - tudy

- ✓ Pressure Equipment Directive 97/23/CE Module H
- V ISO 9001:2008
- SO 14001:2004
- ✓ ISO 13485:2012
- S EMAS



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Thank you for your attention

We look forward to your visit!

