

## CTW CARBOTRADE Nitrogen Supplied Plants PSA and Membranes

We can supply both PSA and membranes nitrogen generators to accepted Industrial code, to your specifications and/or to meet your specific requirements such as :

- Area classification : ATEX Zone 1 - Zone 2
- Pressure Vessels ASME or CE code
- Piping : Stainless steel 316L or carbon steel painted
- Valves, flanges and fittings: Stainless steel 316L
- Painting : standard polyurethane, option Marine /Offshore per AFNOR specifications
- Control Box SS 304, NEMA 4X/IP55
- Membrane modules from approved manufacturers ASME ,U stamped
- Instrumentation from your Vendor list



*Nitrogen Generator  
Type : PSA  
Model: GA 80  
Purity : 99.9 %  
Flow: 30 Nm<sup>3</sup>/h  
Special:  
- ATEX Zone 2  
- Marine Paint  
- Stainless steel instrumentation  
Country : Angola  
Company : TOTAL  
Year: 2008*



*Nitrogen Generator  
Type : Membrane  
Purity: 98%  
Flow: 82 Nm<sup>3</sup>/h  
Special:  
- Marine Painting  
- Stainless steel instrumentation  
Country : Qatar  
Company : QPC  
Year: 2005*



- Ambient Temperature : 0°C to 50°C design option for higher or lower temperature
- Site conditions : Tropical , off shore, indoors / outdoors



- Mounting on platform & lifting lugs or in a container with lighting and ventilation (standard or with open side)



*Nitrogen Generator*

*Type : PSA*

*Model: GA 80*

*Purity : 99,9 %*

*Flow: 41 Nm<sup>3</sup>/h*

*Special :*

*- ATEX*

*- Marine Paint*

*- ASME Calculation for pressure vessels*

*Country : Singapore*

*Company: TECHNIP /MODEC*

*Year: 2004*



*Nitrogen generator :*

*Type : PSA*

*Model: GA 500*

*Purity : 97 %*

*Flow: 835 Nm<sup>3</sup>/h*

*Special : In container*

*Use : Inerting pipeline*

*Country : Gabon*

*Company : PERENCO*

*Year: 2007*





*Nitrogen Generator*  
 Type : PSA  
 Model: 2 x GA 400  
 Purity : 98 %  
 Flow: 1000 Nm<sup>3</sup>/h  
 Special: Control panel with touch screen  
 Country : Iran  
 Company : TOTAL  
 Year: 2008

- Control : Standard with a PLC option touch screen for remote control form DCS, Personal Computer or hand held telephone
- Pressure vessel calculation following ASME VIII div.1 or CODAP, 97-23 CE



*Nitrogen generator :*  
 Type : PSA  
 Model: Ga 400  
 High purity : 99.9995% (3-5 ppm)  
 Flow: 170 Nm<sup>3</sup>/h  
 Special : Deoxo system  
 Country : Ukraina  
 Company : NSTM  
 Year: 2007

- Purity : 95% to 99.999% ( Higher purity 3-5 ppm with Deoxo )
- Dew point -50°C to -70°C



*Nitrogen generator :*  
*Type : PSA*  
*Model: GA 40*  
*Pressure : 330 barg*  
*Purity: 99,95 %*  
*Flow: 44 Nm<sup>3</sup>/h*  
*Special :*  
*-Booster system*  
*-Installed in a container*  
*Country : UAE*  
*Company :RIYADH*  
*CABLES*  
*Year: 2008*

- Standard delivery N2 pressure 5-7 bar with 10 bar compressor or with booster up to 330 bar



*Welding qualification*



*Factory test report*

**Standard Files supplied :**

- Piping and instruments diagram,
- General arrangement drawing,
- Equipment list,

- Data sheet of main component,
- Manufacturer dossier of pressure vessels including calculation notes,
- Electrical drawings,
- Factory acceptance test,
- Instructions manual.
- Equipment Manuel

### **Design Code and Standards**

**-The pressure vessels are built to ASME VIII Div I or CE 97/93 and tested at 1.5 times the operating pressure**

- **The Control box for low voltage is in conformity with US or CE 73.23,CE 97/23**
- **-The Electrical component single phase are in accordance of US standard and EN 61558**
- **The Carbon Molecular Sieve for PSA Plant meet the safety directive 91/155/EES**
- **The module for the Membrane Plants ASME ,U Stamped**
- **The paint is Industrial white or blue consisting of a primer and a finish unless otherwise specified by the Client**

### **If required :**

- ASME calculation for pressure vessels
- Welder Qualificattion
- Non destructive test
- Others on request

**We** manufacture nitrogen generators since 1982 in our workshop near TOULOUSE in France and delivered and services our Plants Worldwide in over 60 Countries.  
Reference will be provided on request

An installation realized by our technicians or by our distributors guarantee the reliability of the performances.

We offer training of your technicians in our Factory or at your site .



Our Service Group is available 24/7 to assist you for solving your day to day the problems, by email or by phone .We also offer Annual and Maintenance and service contracts



**Company : TEREOS GA 1 000**

**CONTACT US :**

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***Commissioning and after sale services***



***On site installation***



*Nitrogen generator:*

*Type : PSA*

*Model: GA 1000*

*Purity : 95 %*

*Flow : 2000 Nm<sup>3</sup>/h*

*Use : Bio-ethanol*

*Country : France*

*Company: TEREOS*

*Year: 2007*

