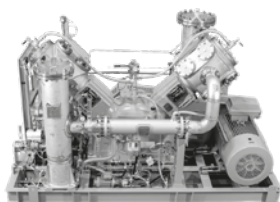
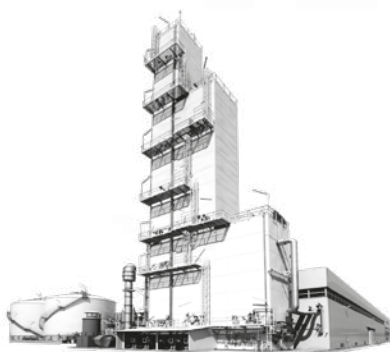




## PRODUCTS & SOLUTIONS PORTFOLIO



COMPRESSORS AND PACKAGES • VALVES • HEAT EXCHANGERS



Q-Boss is a specialised Australian solutions provider of highly reliable, innovative, money saving process solutions in many industries.

We are committed to long term relationships with our clients and to the utmost care in the quality of process engineering design and solution.



## S E R V I C E S

- Support from the feasibility design, PMC and FEED stages onwards
  - Technical and commercial firm and budget quotations
  - After sales and original spare parts

## V A L U E   A D D E D

- Quick and prompt feedback
- Reliable products from selected top quality Partners (Italy, Europe)
  - Customised products according to clients specifications
    - ISO 9001:2015 Certified
- Cost saving customised solutions

## M A I N   C L I E N T S

Air Liquide • Barrick Gold • BHP • BP • BASF • Cristal Global • Chevron • CSBP  
ENI / Saipem • Fluor • GLP • GR Engineering • Jacobs • Linde / BOC • Minara • Petrofac  
RCR • RioTinto • Shell • Supagas • Technip • Total • Woodside • Wesfarmer / Kleenheat

## O U R   P A R T N E R S

SIAD Machine Impianti • Blutek • Penta Valves • Vahterus • plus other selected suppliers

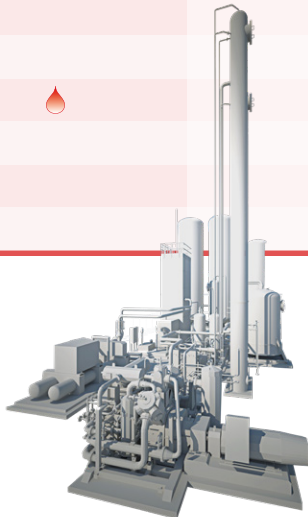


*Dedicated product brochure and references are available on request.*



PRODUCTS

	COMPRESSORS AND PACKAGES SOLUTIONS									VALVES				HEAT EXCHANGERS	
	AIR SEPARATION UNIT (ASU)	SMALL MODULAR ASU (SMART LIQUID PLANT)	LNG LIQUEFIER (SMART LNG PLANT)	BIOGAS UPGRADING PLANT	RECIPROCATING COMPRESSOR	STANDARD AIR COMPRESSOR	SCREW COMPRESSOR	DRYERS	N2 GENERATION	METAL BALL VALVE	SOFT SEATED BALL VALVE	CRYOGENIC BALL VALVE	GATE, GLOBE, CHECK, PLUG, CONTROL, BUTTERFLY, PRESSURE / SAFETY / THERMAL	PLATE AND SHELL	SHELL AND TUBE
MADE IN	Italy China (as option)	Italy China (as option)	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy	Italy, Germany, Asia (Korea, Singapore, Japan, Taiwan)	Finland	case by case
RANGE	<b>Capacity:</b> <b>Oxygen:</b> up to 80,000 Nm3/h (2,750 TPD) <b>Nitrogen:</b> up to 240,000 Nm3/h (7,200 TPD) <b>Argon:</b> recovery 92%  <b>Purity:</b> <b>Oxygen:</b> up to 99.95% <b>Nitrogen:</b> less than 1ppm (O2) <b>Argon:</b> less than 1ppm (O2)  <b>Gas:</b> Oxygen, Nitrogen, Argon (Liquid or Gas)	<b>Capacity:</b> <b>Oxygen:</b> 330 Nm3/h - 2,500 Nm3/h <b>Nitrogen:</b> 600 Nm3/h - 3,000 Nm3/h  <b>Purity:</b> <b>Oxygen:</b> 99.6% O2 <b>Nitrogen:</b> 99.99% & up to 10 ppm of O2  <b>Gas/Fluid:</b> Oxygen, Nitrogen (Liquid)	<b>LNG Production</b> <b>SMART LIN-LNG:</b> up to 1,400 Nm3/h <b>SMART TB-LNG:</b> up to 33,600 Nm3/h <b>SMART INT-LNG:</b> up to 33,600 Nm3/h + LIN	<b>Biomethane delivery pressure:</b> from 10 bar to 20 bar  <b>Biogas capacity:</b> from 50 Nm3/h to 3,000 Nm3/h	<b>Type:</b> lube and oil free <b>Power:</b> from 10 kW to 8.7 MW <b>Compression stages:</b> up to 6 <b>Speed:</b> low, moderate and high <b>Capacity:</b> up to 90,000 Nm3/h <b>Pressure:</b> up to 600 Bar(a) <b>Cylinder arrangement:</b> vertical, horizontal <b>Gas:</b> All gases (O2, H2, N2, Air, CO2, CO, N2O, H2S, Hydrocarbons, Natural Gas)	<b>Type:</b> oil free, dried high pressure air in compliance with ISO8573 <b>Power:</b> from 75 kW to 315 kW <b>Compression stages:</b> up to 3 <b>Speed:</b> from 410 to 750 rpm <b>Capacity:</b> from 420 to 3,840 m3/h <b>Pressure:</b> 42 Bar(g) <b>Cylinder arrangement:</b> vertical <b>Gas:</b> Air	<b>Technology:</b> screw <b>Type:</b> lube and oil free <b>Power:</b> 22 kW - 500 kW <b>Pressure:</b> 4 - 16 Bar(g) up to 30 Bar(g) on request <b>Gas:</b> Air, N2 Biogas <b>Stage:</b> single, double	<b>Technology:</b> PSA, membrane, refrigerant <b>Capacity:</b> up to 6,000 Nm3/h <b>Due point:</b> up to -80C	<b>Technology:</b> PSA, Membrane <b>N2 flow capacity:</b> 10 - 3,000Nm3/h <b>N2 purity:</b> 95 - 99.999%	<b>Size:</b> 1/2" - 24" <b>Rating:</b> 150 Lb. - 2,500 Lb. / PN16- PN420 <b>Temperature:</b> -100°C to 700°C <b>Service:</b> dangerous & abrasive gases <b>Gas/Fluid:</b> all <b>Construction:</b> 2 ways or 3 ways	<b>Size:</b> 1/2" - 6" <b>Rating:</b> 150 Lb. - 300 Lb. / PN16 -PN40 <b>Temperature:</b> -46°C to 200°C <b>Gas/Fluid:</b> all <b>Construction:</b> 2 ways	<b>Size:</b> 1/2" - 10" <b>Rating:</b> 150 Lb. - 1,500 Lb. / PN16 - 250 <b>Temperature:</b> -196°C to 700°C <b>Service:</b> cryogenic <b>Gas/Fluid:</b> all <b>Construction:</b> 2 ways	case by case	<b>Capacity:</b> up to 2,000 m2 / heat exchanger <b>Pressure:</b> 16/25/40/60/150 bar (full vacuum to 150bar) <b>Temperature:</b> from -164°C to 899°C	case by case
VALUE ADDED	<ul style="list-style-type: none"><li>Long history in the gas sector</li><li>High process efficiency</li><li>High purity O2, N2, Ar thanks to cryogenic technology</li><li>Tailor made fabrication to the end user's specific requirements</li><li>Easy to use: full automated system for easy and reliable unattended management</li><li>Remote monitoring system service by SIADMI</li></ul>	<ul style="list-style-type: none"><li>Maximum operating flexibility</li><li>High purity O2 (99.6%) &amp; N2 (99.999%)</li><li>High efficiency: energy saving of at least 10% compared to previous solutions</li><li>Complete installation in just 15 days</li><li>High level skid mounted technology (5 main modules)</li><li>Fully automatic system for easy and reliable unattended operation</li><li>Compact design for the easiest maintenance</li><li>Optimum CAPEX and OPEX compromise for the lowest overall product cost</li></ul>	<ul style="list-style-type: none"><li>SIADMI can boast hundreds of systems for cryogenic liquefaction of technical gases</li><li>Safety: they use Nitrogen as cooling fluid</li><li>Environmental friendly</li><li>Reliable</li><li>Simple plant management process and control system in all stages of operation</li></ul>	<ul style="list-style-type: none"><li>Long experience in CO2</li><li>High pressure operating system</li><li>Simple and innovative system</li><li>High performances (&gt; than 99% purity)</li><li>The membrane solution allows a great flexibility</li><li>Possibility to modulate the system and decrease the flow rates up to 50% of the nominal value</li><li>Different network codes</li><li>The system can be adapted to existing lines or supply only some components if the customer already has existing pre-treatments</li><li>Reduction of energy cost using piston or screw compressors</li><li>Customised or standard sizes</li></ul>	<ul style="list-style-type: none"><li>High performance with the lowest power consumption:<ul style="list-style-type: none"><li>Simplified configuration</li><li>Reduced friction</li><li>Improved cylinder flow dynamics behaviour</li><li>Optimized valve positioning</li><li>Simplified piping routing</li></ul></li><li>Eco compatibility<ul style="list-style-type: none"><li>New materials for a longer life</li><li>Elimination of critical pollutant components</li></ul></li><li>Safety (proper material selection)</li><li>Tailor-made compressors skid mounted or on foundation</li><li>API 618, API11P, EIGA, Standard Manufacturer</li><li>Easy maintenance thanks to the ergonomic layout</li></ul>	<ul style="list-style-type: none"><li>The lowest specific energy consumption</li><li>Reduced weight and volume</li><li>8,000 hours of continuous operation</li><li>Reduced environmental impact</li><li>Easy maintenance thanks to the ergonomic layout</li></ul>	<ul style="list-style-type: none"><li>Safety (proper material selection)</li><li>API619, ASME VIII Div.1 U-STAMP, ISO10440-1/2, ATEX class 1 div 1</li><li>Tailor made solutions</li><li>Single and common skid design for onshore and offshore</li><li>In house design and calculation software</li><li>Integrated control system with all the packages</li></ul>	<ul style="list-style-type: none"><li>Safety (proper material selection)</li><li>ASME VIII Div.1 U-STAMP, ATEX</li><li>Tailor made solutions</li><li>Single and common skid design for onshore and offshore</li><li>In house design and calculation</li><li>Integrated control system with all the packages</li></ul>	<ul style="list-style-type: none"><li>Safety (proper material selection)</li><li>ASME VIII Div.1 U-STAMP, ATEX</li><li>Tailor made solutions</li><li>Single and common skid design for onshore and offshore</li><li>In house design and calculation</li><li>Integrated control system with all the packages</li></ul>	<ul style="list-style-type: none"><li>Competitive delivery (from 4 to 18 weeks)</li><li>Flexible in the design of gasket &amp; seat</li><li>Main certifications (PED, ATEX, ISO, Fire Safe, SIL, Ta-Luft, CRCC)</li><li>Pentafite technology:<ul style="list-style-type: none"><li>Perfect Tightness</li><li>No additional machining</li><li>Easy maintenance and lower cost</li><li>Gas tightness</li></ul></li></ul>	<ul style="list-style-type: none"><li>Competitive delivery (from 4 to 18 weeks)</li><li>Flexible in the design of gasket &amp; seat</li><li>Main certifications (PED, ATEX, ISO, Fire Safe)</li></ul>	<ul style="list-style-type: none"><li>Competitive delivery (from 8 to 18 weeks)</li><li>Flexible in the design of gasket &amp; seat</li><li>Main certifications (PED, ATEX, ISO, Fire Safe, SIL, A.B.S)</li><li>Pentafite technology:<ul style="list-style-type: none"><li>Perfect Tightness</li><li>No additional machining</li><li>Easy maintenance and lower cost</li><li>Gas tightness</li></ul></li></ul>	case by case	<ul style="list-style-type: none"><li>The original plate &amp; shell heat exchangers</li><li>Fully welded and strong construction</li><li>Ultra compact in weight and footprint</li><li>High thermal efficiency</li><li>Easy maintenance</li><li>Tailor made solutions</li><li>No gasket</li><li>Low fouling</li><li>Close approach temperatures</li></ul>	case by case
INDUSTRIES															
CEMENT	O2 ASU				O2										
CHEMICAL	O2 ASU, N2 ASU, O2/N2 ASU				Air, Ammonia, Butane, CO, CO2, Ethylene, H2, N2, Natural Gas, O2, Recycle										
COLD GASES TRANSPORTATION & STORAGE	N2 ASU				Air, BOG, Ethylene, Hydrocarbons, N2, Natural Gas										
ELECTRONICS					H2										
ENERGY & POWER GENERATION	O2/N2 ASU, N2 ASU				Air, CO, CO2, H2, Natural Gas, N2, Recycle										
FOOD & BEVERAGE					CO2, H2	Air									
GLASS	N2 ASU				Air, H2, N2, O2										
LIQUEFIED NATURAL GAS (LNG)	N2 ASU				BOG, N2										
METAL PRODUCTION	O2 ASU, O2/Ar ASU, O2/Ar/N2 ASU				Air, Ar, N2, O2										
MINING	O2 ASU, O2/N2 ASU				Air, N2, O2										
OIL & GAS, EXPLORATION & PRODUCTION	N2 ASU				Air, CO2, H2, N2, Natural Gas										
OFF-SHORE (FLNG, FPSO, FLNG)					Natural Gas										
PETROCHEMICAL	O2/N2 ASU, N2 ASU				Air, CO, Ethylene, H2, Hydrocarbons, N2, Natural Gas, O2, Propylene										
REFINERY	O2/N2 ASU, N2 ASU				Air, CO, CO2, Ethylene, H2, Hydrocarbons, N2, Natural Gas, O2, Propylene										
TECHNICAL GASES	O2 ASU, O2/Ar ASU, O2/N2 ASU	Liquid O2 or N2			Acetylene, Air, Ar, CO2, CO, H2, Helium, Natural Gas, N2, Nitrous Oxide, O2										
WATER TREATMENT & TRANSMISSION	O2/N2 ASU, N2 ASU				Air, CO2, N2, O2										
REFRIGERATION															
SOLAR PLANT															



OTHER PRODUCTS

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