



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

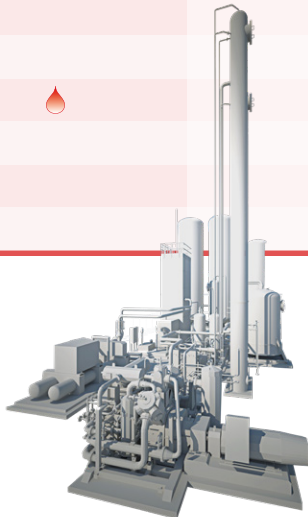
SIAD Machine Impianti • Blutek • Penta Valves • Vahterus • plus other selected suppliers



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	Capacity: Oxygen: up to 80,000 Nm3/h (2,750 TPD) Nitrogen: up to 240,000 Nm3/h (7,200 TPD) Argon: recovery 92% Purity: Oxygen: up to 99.95% Nitrogen: less than 1ppm (O2) Argon: less than 1ppm (O2) Gas: Oxygen, Nitrogen, Argon (Liquid or Gas)	Capacity: Oxygen: 330 Nm3/h - 2,500 Nm3/h Nitrogen: 600 Nm3/h - 3,000 Nm3/h Purity: Oxygen: 99.6% O2 Nitrogen: 99.99% & up to 10 ppm of O2 Gas/Fluid: Oxygen, Nitrogen (Liquid)	LNG Production SMART LIN-LNG: up to 1,400 Nm3/h SMART TB-LNG: up to 33,600 Nm3/h SMART INT-LNG: up to 33,600 Nm3/h + LIN Cylinder arrangement: vertical, horizontal Gas: All gases (O2, H2, N2, Air, CO2, CO, N2O, H2S, Hydrocarbons, Natural Gas)	Biomethane delivery pressure: from 10 bar to 20 bar Biogas capacity: from 50 Nm3/h to 3,000 Nm3/h	Type: lube and oil free Power: from 10 kW to 8.7 MW Compression stages: up to 6 Speed: low, moderate and high Capacity: up to 90,000 Nm3/h Pressure: up to 600 Bar(a) Cylinder arrangement: vertical, horizontal Gas: All gases (O2, H2, N2, Air, CO2, CO, N2O, H2S, Hydrocarbons, Natural Gas)	Type: oil free, dried high pressure air in compliance with ISO8573 Power: from 75 kW to 315 kW Compression stages: up to 3 Speed: from 410 to 750 rpm Capacity: from 420 to 3,840 m3/h Pressure: 42 Bar(g) Cylinder arrangement: vertical Gas: Air	Technology: screw Type: lube and oil free Power: 22 kW - 500 kW Pressure: 4 - 16 Bar(g) up to 30 Bar(g) on request Gas: Air, N2 Biogas Stage: single, double	Technology: PSA, membrane, refrigerant Capacity: up to 6,000 Nm3/h Due point: up to -80C	Technology: PSA, Membrane N2 flow capacity: 10 - 3,000Nm3/h N2 purity: 95 - 99.999%	Size: 1/2" - 24" Rating: 150 Lb. - 2,500 Lb. / PN16- PN420 Temperature: -100°C to 700°C Service: dangerous & abrasive gases Gas/Fluid: all Construction: 2 ways or 3 ways	Size: 1/2" - 6" Rating: 150 Lb. - 300 Lb. / PN16 -PN40 Temperature: -46°C to 200°C Gas/Fluid: all Construction: 2 ways	Size: 1/2" - 10" Rating: 150 Lb. - 1,500 Lb. / PN16 - 250 Temperature: -196°C to 700°C Service: cryogenic Gas/Fluid: all Construction: 2 ways	case by case	Capacity: up to 2,000 m2 / heat exchanger Pressure: 16/25/40/60/150 bar (full vacuum to 150bar) Temperature: from -164°C to 899°C	case by case
VALUE ADDED	<ul style="list-style-type: none">Long history in the gas sectorHigh process efficiencyHigh purity O2, N2, Ar thanks to cryogenic technologyTailor made fabrication to the end user's specific requirementsEasy to use: full automated system for easy and reliable unattended managementRemote monitoring system service by SIADMI	<ul style="list-style-type: none">Maximum operating flexibilityHigh purity O2 (99.6%) & N2 (99.999%)High efficiency: energy saving of at least 10% compared to previous solutionsComplete installation in just 15 daysHigh level skid mounted technology (5 main modules)Fully automatic system for easy and reliable unattended operationCompact design for the easiest maintenanceOptimum CAPEX and OPEX compromise for the lowest overall product cost	<ul style="list-style-type: none">SIADMI can boast hundreds of systems for cryogenic liquefaction of technical gasesSafety: they use Nitrogen as cooling fluidEnvironmental friendlyReliableSimple plant management process and control system in all stages of operation	<ul style="list-style-type: none">Long experience in CO2High pressure operating systemSimple and innovative systemHigh performances (> than 99% purity)The membrane solution allows a great flexibilityPossibility to modulate the system and decrease the flow rates up to 50% of the nominal valueDifferent network codesThe system can be adapted to existing lines or supply only some components if the customer already has existing pre-treatmentsReduction of energy cost using piston or screw compressorsCustomised or standard sizes	<ul style="list-style-type: none">High performance with the lowest power consumption:<ul style="list-style-type: none">Simplified configurationReduced frictionImproved cylinder flow dynamics behaviourOptimized valve positioningSimplified piping routingEco compatibility<ul style="list-style-type: none">New materials for a longer lifeElimination of critical pollutant componentsSafety (proper material selection)Tailor-made compressors skid mounted or on foundationAPI 618, API11P, EIGA, Standard ManufacturerEasy maintenance thanks to the ergonomic layout	<ul style="list-style-type: none">The lowest specific energy consumptionReduced weight and volume8,000 hours of continuous operationReduced environmental impactEasy maintenance thanks to the ergonomic layout	<ul style="list-style-type: none">Safety (proper material selection)API619, ASME VIII Div.1 U-STAMP, ISO10440-1/2, ATEX class 1 div 1Tailor made solutionsSingle and common skid design for onshore and offshoreIn house design and calculation softwareIntegrated control system with all the packages	<ul style="list-style-type: none">Safety (proper material selection)ASME VIII Div.1 U-STAMP, ATEXTailor made solutionsSingle and common skid design for onshore and offshoreIn house design and calculationIntegrated control system with all the packages	<ul style="list-style-type: none">Safety (proper material selection)ASME VIII Div.1 U-STAMP, ATEXTailor made solutionsSingle and common skid design for onshore and offshoreIn house design and calculationIntegrated control system with all the packages	<ul style="list-style-type: none">Competitive delivery (from 4 to 18 weeks)Flexible in the design of gasket & seatMain certifications (PED, ATEX, ISO, Fire Safe, SIL, Ta-Luft, CRCC)Pentafite technology:<ul style="list-style-type: none">Perfect TightnessNo additional machiningEasy maintenance and lower costGas tightness	<ul style="list-style-type: none">Competitive delivery (from 4 to 18 weeks)Flexible in the design of gasket & seatMain certifications (PED, ATEX, ISO, Fire Safe)	<ul style="list-style-type: none">Competitive delivery (from 8 to 18 weeks)Flexible in the design of gasket & seatMain certifications (PED, ATEX, ISO, Fire Safe, SIL, A.B.S)Pentafite technology:<ul style="list-style-type: none">Perfect TightnessNo additional machiningEasy maintenance and lower costGas tightness	case by case	<ul style="list-style-type: none">The original plate & shell heat exchangersFully welded and strong constructionUltra compact in weight and footprintHigh thermal efficiencyEasy maintenanceTailor made solutionsNo gasketLow foulingClose approach temperatures	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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