

N & A



NILS & ABBAS
TRADING CO. L.L.C
COMPLETE ENGINEERING SOLUTIONS
Since 1994



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LOW PRESSURE COMPRESSOR / SERVICE



CompAir Rotary Screw Compressors (Oil Lubricated / Oil Free)

- Pressure : 5 - 13 bar(g)
- Motor : 2.2 - 315 kW
- Flow rate : 0.21 - 47.2 m³/min
- Fixed speed & Regulated speed
- Energy saving control
- Assured warranty up to 6 years / 44,000 hours
- Extendable warranty up to 10 years
- Class zero



N&A service all screw compressor brands



N&A provide custom AMC's for your operating environment

- Eight fully trained staff for multiple brands (Low pressure only)
- Over twenty trained staff for all brands
- Air end rebuild and screw overhaul center for multiple brands
- Workshop custom built for multiple brands
- Genuine parts center
- Rental compressor fleet for planned overhauls, stand-ins or unexpected breakdowns
- 24/7 service hotline

PIPING / FILTRATION & CONDENSATE REMOVAL



Compressed Air Piping

Aircom is an Italian company specialized in compressed air distribution, control equipment, fittings, pipes, valves and accessories

- Eliminate wasted air & leakage (10 years warranty on leaks)
- Modular design - easy to disassemble and reassemble
- Aluminium piping ensuring no rust
- Expandability according to requirements
- Optimum constant performance (energy savings over time)
- Polished aluminium prevents a decrease in internal diameter over time



Smart Condensate Drain



Smart Condensate Drain

- No blockage of condensate due to large orifice (also heavily emulsified condensate)
- Integrated strainer
- Visual display of operating status
- Direct acting valve assembly, ensuring reliable discharge operation
- Electronic card in a separate chamber not above condensate (preventing water damage)
- Low cost repair kit

Filtration

- A flow-optimized filter design guarantees minimum pressure loss
- Ensures high separation efficiency
- Reduced differential pressure

Filtration



N & A



Flow meter

Measuring of:

- Flow
- Power consumption
- Dew point
- Layout surveying
- Data analysis



Compressed Air
Audit Logger



Leak Detector Device

Audit: N&A can audit your compressed air system, including data logging and air leak detection. The service will establish your current compressed air usage, efficiency, and wastage, which will be compiled in a written report.

Benefits:

- Over 35% of the compressed air produced in the market is wasted due to leaks
- Excessive pressure increases leaks and wastes money
- Keep production flowing
- Energy / cost savings
- If you can't measure it, you can't improve it



DRUM
by Gardner Denver



Dry Screw Compressor

- Pressure : 1.5 - 2.5 bar(g)
- Motor : 24 - 54 kW
- Flow rate : 400 - 1025 m³/hr
- High quality, reliable and technically superior products
- Designed for contaminant free discharge of dense bulk power products
- Multiple packages and options, solutions for every market
- Oil Free
- Very low maintenance



HIGH PRESSURE ANY-GAS COMPRESSOR

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Dependable up to 500 bar (g) - anywhere, anytime, any gas

Pressure : 10 - 500 bar(g) outlet
Motor : 0.55 - 250 kw
Flow rate : 8 - 1000 m³/hr

Gas-tight design with magnetic coupling, Explosion-proofing, ATEX zone 1 or zone 2

Media:

Air
Nitrogen
Helium
Natural Gas
Bio-Gas/Bio-Methane
Hydrogen
Oxygen
Ammonia
Hexane
Propylene
Flash Gas
Nitrous Oxide, etc.

Sauer offers the highest level of german precision and engineering. Sauer offers a lifetime warranty on mechanical components as long as the services are done on time by Sauer. Lastly, Sauer tests its compressors with the gas it will use such as helium compressors with helium, argon compressors with argon, etc.



Haug

Oil-free



Oil-free & hermetically gas-tight gas compressors up to 450 bar (g)

Pressure : 10 - 450 bar(g) outlet
Motor : 0.37 - 30 kw
Flow rate : 10 - 1000 m³/hr

Completely oil-free

Gas-tight design with magnetic coupling, Compressor block leak rate <0.001 mbar l/s, Explosion-proof, ATEX zone 1 or zone 2

Haug and Sauer both share the highest degree of engineering. precision as, Haug belongs to Sauer compressors but is manufactured in Switzerland.

Media:

Any standard industrial gases



OIL FREE PET BLOWING COMPRESSORS

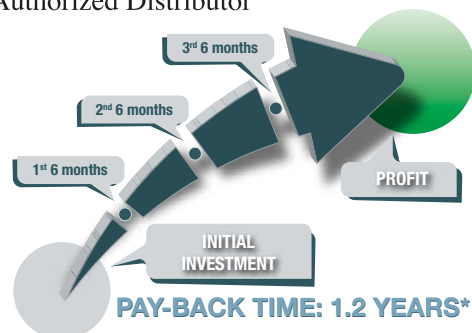
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SIAD MACCHINE
IMPIANTI

Authorized Distributor



Pressure : 40 bar(g)

Motor : 22 - 900 kw

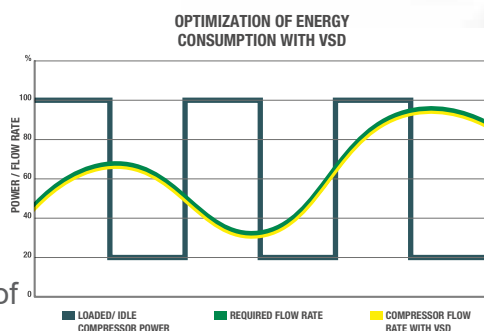
Flow rate : 100 - 6000 m³/hr

VSD (Variable Speed Drive)

With an inverter, which regulates the frequency of the electric power supply, the compressor motor operates at variable speeds. Thanks to this, excellent energy savings are obtained.

Advantages

- Power surges are prevented when the motor is started
- The line flow rate is automatically adjusted
- Operation is continuous and no longer intermittent
- The regulation of the speed (and therefore of the flow) is continuous and in the range of 30% - 100%.



GREATER EFFICIENCY
The lowest specific consumption offered on the market



OPTIONS AVAILABLE
Energy audits
No-vibration package
Filter silencer unit



ENHANCED SUSTAINABILITY
Compactness (small footprint)
Low CO₂ emissions



DIGITAL CONNECTIVITY
with SIADMI4U remote monitoring platform



ENHANCED RELIABILITY
Minimum vibrations



MAXIMUM CONSTRUCTION FLEXIBILITY
Modularity of components (parts unification, simple upgrade)



MAXIMUM DESIGN FLEXIBILITY
According to design standards (CE, PED, ASME, EAC, GB, ISO)



SAFETY
Total operator protection



EXTENDED LIFETIME
Longer lasting components



IMPRESSED AIR QUALITY
Oil-free air guaranteed according to ISO 8573



LOW MAINTENANCE COSTS
Quick and simple interventions
Optimized maintenance ergonomics

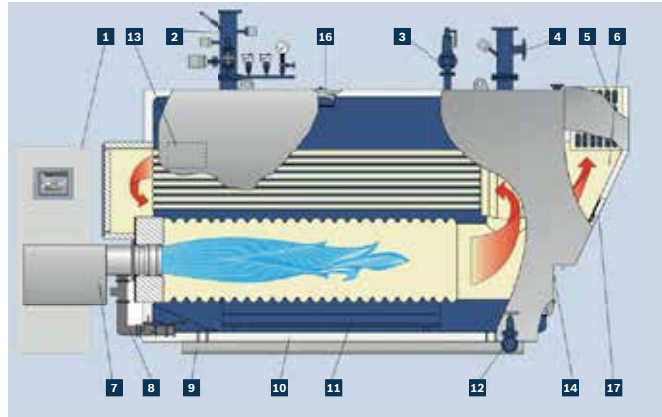


CONTINUOUS PRODUCTION (AVAILABILITY)
8,000 h of continuous operation





Industrial Boilers



Steam & Hot Water Boilers

- Capacity: 175 kg/hr to 55000 kg/hr
- Shell & Tube Boiler Design
- High level of efficiency due to three-pass technology, an integrated economizer and effective heat insulation material
- High level of pressure consistency and steam quality even with widely fluctuating steam demand
- Equipped with a separate fourth pass for waste heat use
- Boiler body can also be used as a pure waste heat boiler behind combined heat and power plants or gas turbines
- Pollutant reduced combustion due to the use of state of the art firing systems matched with the best boiler/burner combination
- Complete PLC based control system with HMI
- Simple commissioning due to pre-parameterized boiler control
- We offer full training and service
- Bosch offers the highest safety and a renowned brand



Steam Accessories

Steam Operated Condensate Pump Main Features

- Zero moving parts ensures high reliability
- Can withstand high motive steam pressure up to 10 kg/cm².
- Skid mounted system with easy installation
- No need for pressure reducing station
- Low wear & tear
- Low maintenance
- Low downtime
- Reduces initial costs
- High discharge per stroke
- High condensate temperature
- No cavitation problems



Water Service Module



Float Trap



Isolation Valve



Flow Meter

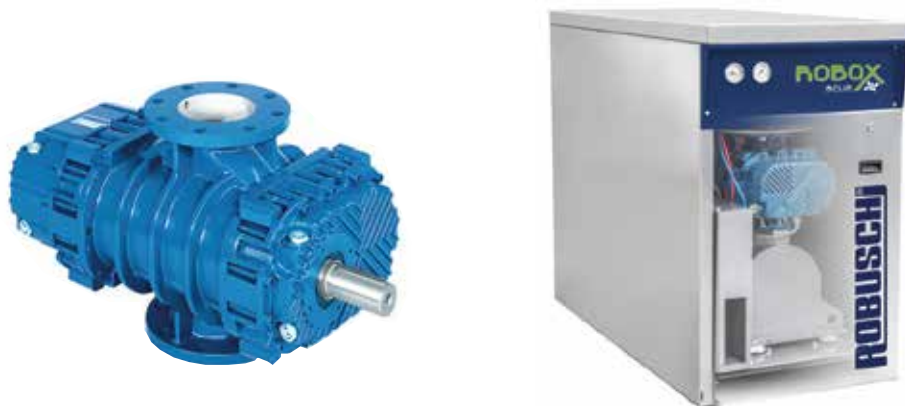


Control Valve

BLOWER & VACUUM PUMPS



ROBUSCH®



Rotary Oil-Free Blowers / Vacuum - ROBOX

- Pressure : up to 1 bar(g)
- Vacuum : up to 100 mbar abs
- Motor : 11 - 450 kW
- Flow rate : 150 - 25000 m³/h
- Aggregate compact design
- Only V-belt drive (no direct coupling)
- Pressure mode up to 1000 mbar (g) (configuration / P)
- Vacuum mode down to 500 mbar abs - (configuration / V)
- Vacuum mode down to 100 mbar abs - (spec. configuration / DV)
- Plug & Play solution available upon request
- We can supply for aquaculture and biogas applications as well
- Silent operation, low noise emission
- Easy access and maintenance
- High performance



Elmo Rietschle



Rotary Oil-Free Vacuum Pump / Blowers

- Pressure : up to 2 bar(g)
- Vacuum : up to 0.5 mbar abs
- Motor : up to 30 kW
- Flow rate : 3 - 3000 m³/h
- Low noise level
- Dry running and oil lubricated versions
- Robust and economical
- Easy to operate
- Cast housing and impellers
- Quiet operation
- Reliable and built-to-last, virtually maintenance free
- Adjustable speed via external or internal converter
- Worldwide use (UL/CSA/IEC/EN approval)
- Robust yet lightweight
- Maximum abrasion resistance
- Excellent corrosion resistance
- Modular design
- Variable speed drive available





Industries & Applications

- Factory automation
- Material handling
- Food & beverages
- Rail
- Battery manufacturing

Product Ranges

- Pneumatic actuators
- Electric motion
- Valve islands & industrial communications
- Solenoid / pneumatic valves
- Air preparation (filter regulator lubricators)
- Pressure & vacuum
- Fittings, tubing & accessories

Industrial Automation

- IMI Norgren
- IMI Buschjost
- IMI Herion
- IMI Bimba
- IMI Bahr



Product Ranges

- Safety products
- Pressure control valves
- Pneumatic cylinders
- Air preparation
- Directional control valves
- Coaxial valves
- Proportional pressure control valves
- Manual & mechanical valves
- Pinch & flow control valves
- Valve manifolds & dub-bases
- ROSS FLEX & customized systems

Industries & Applications

- Functional safety
- Container glass industry
- Press metal forming
- Automotive industry
- Assembly & test applications
- Packaging industry
- Metallurgical plants
- Rolling mills



COOLING TOWERS & CHILLERS



Evaporative Open / Closed Circuit & Adiabatic Cooling Towers

PU - For large systems (over 10,000 kW) - 2840 tons

Field erected, non-corrodible fiberglass panels

PME - E & PMM - For medium to large systems - 244 to 3977 tons

(PME - E from 860 - 2,600 and PMM from 2,600 - 14,000) kW

PMS & MCT - For small to medium systems - 5 to 455 tons

(PMS from 18 - 860 and MCT from 28 - 1,600) kW

MCC - Evaporative cooling

Internal coil to keep liquid quality unchanged
(water or water plus glycol)

HBR - Hybrid, evaporative and dry cooling

Evaporative or dry operation depending on the internal temperature

PAD - V Adiabatic and dry cooling

Hot & cold season operations with integrated PLC



Efficient Cooling Solutions

Kirloskar chillers is dedicated to pioneering sustainable solutions for comfort cooling, process cooling, and industrial / domestic heating.

Product	Capacity / Refrigerant
Centrifugal	
Water Cooled Oil Flooded	200 to 2400 TR / HFC 134a
Water Cooled Oil Free Magnetic Bearing	95 to 1200 TR / HFC 134a, HFO 1234ze
Screw	
Water Cooled	45 to 580 TR / HFC 134a, HFO 1234ze
Air Cooled	45 to 560 TR / HFC 134a, HFO 1234ze
Water Cooled Brine (up to 20°C)	25 to 200 TR / HFC 404a
Water to Water Heat Pumps (up to 78°C)	165 to 1300 kW / HFC 134a
Air Cooled Scroll	11 to 44 TR / HFC 410a



BREATHING AIR COMPRESSORS



COLTRI®
COMPRESSORS



Features Includes:

- Pressure : 420 bar(g)
- Motor : 1.1 - 15 kW
- Flow rate : 100 - 750 l/min
- Reusable filter cartridges
- Tropical models made for high heat and humidity climates
- Nitrox, storage banks and dryers available
- Three phase, single phase, petrol or diesel options available
- Normal, silent or super silent options
- Models available for air, CNG, Nitrogen, Argon, Helium and Nitrox

Breathing air uses:

- Leisure diving
- Commercial diving
- Industry
- Fire and gas safety
- SCBA filling

Coltri Industrial Application



Booster For Technical Gases:

- Breathing air EN 12021, Nitrox 40% max O2, Helium, Nitrogen
- 400 - 650 l/min @max. 360 bar; intake pressure from 2 to 5 bar
- 5.5 kW - 11 kW

CNG HD for Methane & Hydrogen Compressor:

- Charging rate 13.3 - 22.1 kg/h methane
- 220 - 620 l/min
- Max. pressure 360 bar
- 9 - 15 kW
- CNG: Booster available



DIVING EQUIPMENT / GASS SENSING

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SEAC

Full range scuba and diving equipment



Made in
Italy



DE-OX Gas Sensing



Air Quality Validation / Safety:

- Oxygen
- Helium
- Carbon Monoxide
- Carbon Dioxide
- Methane
- Hydrogen
- Nitrogen
- Oil Vapor



Made in
Italy

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