

TOTAL AIR SOLUTIONS

Atlas Copco Compressor Technique

Sustainable Productivity

Atlas Copco



YOU FIND US EVERYWHERE !



Atlas Copco Group

With a world-leading business in more than 180 countries, we are a truly global company. We serve customers with innovative compressors, vacuum solutions and air treatment systems, construction and mining equipment, power tools and assembly systems. We have more than 44,000 committed employees in the Group which contributes to the success of the company.

Atlas Copco Compressor Technique - India

In India, we provide through Atlas Copco (India) Ltd., our customers with solutions to enhance productivity and achieve their manufacturing goals. Our vision is not only to be, but also to remain First in Mind—First in Choice® with our stakeholders.

Facts in brief

Established in 1960

State-of-the-art
manufacturing facilities in Pune
Dapodi and Chakan

Certification :
ISO 9001, ISO 14001,
OHSAS 18001 and
CRISIL - BEE Grade 1

80 Sales and
160 Service Technicians

9 Regional Offices:
Mumbai, Gurgaon, Chandigarh,
Kolkata, Chennai, Bangalore,
Hyderabad, Ahmedabad
and Pune

More than
70 Channel Partners

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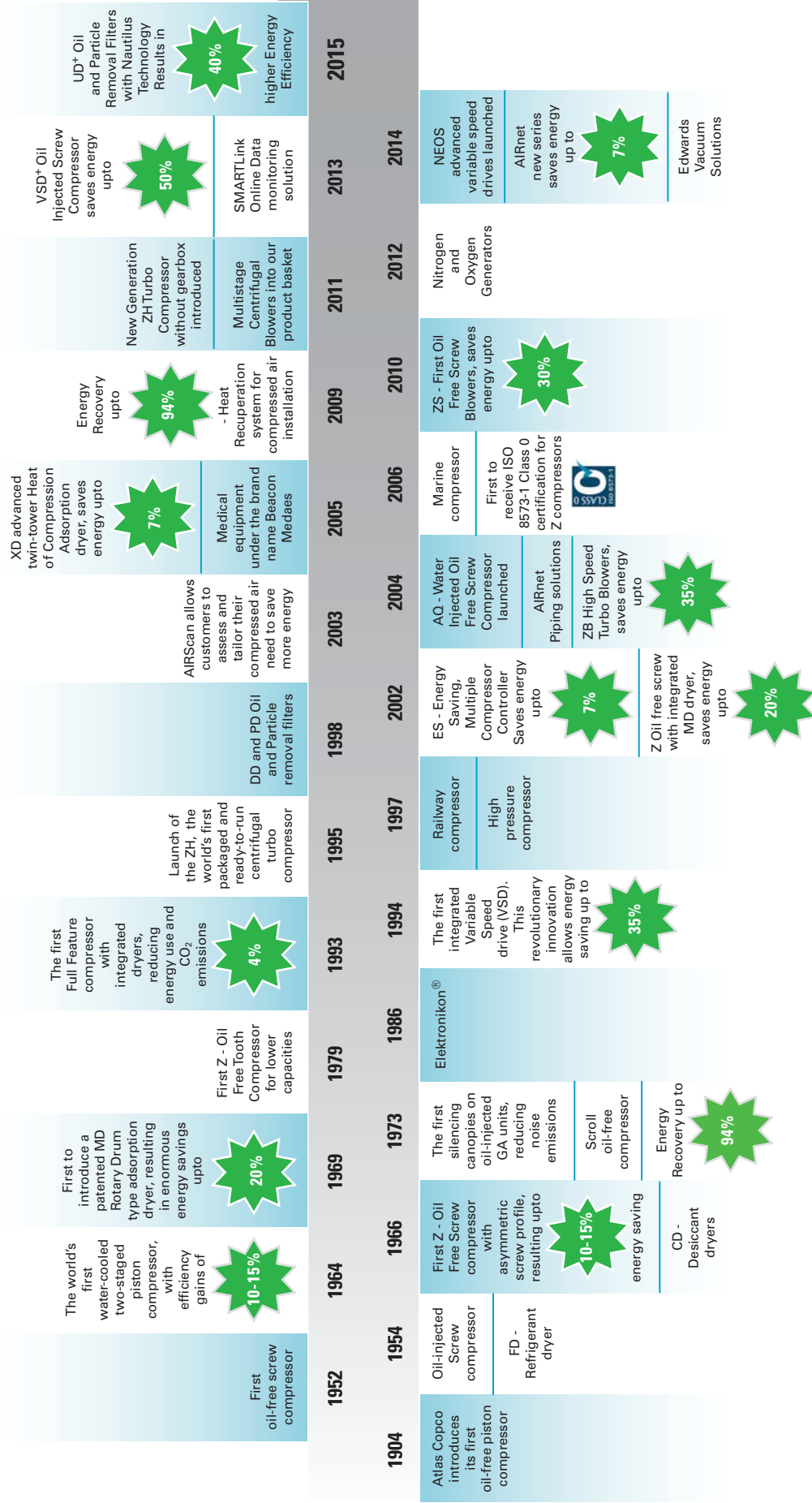
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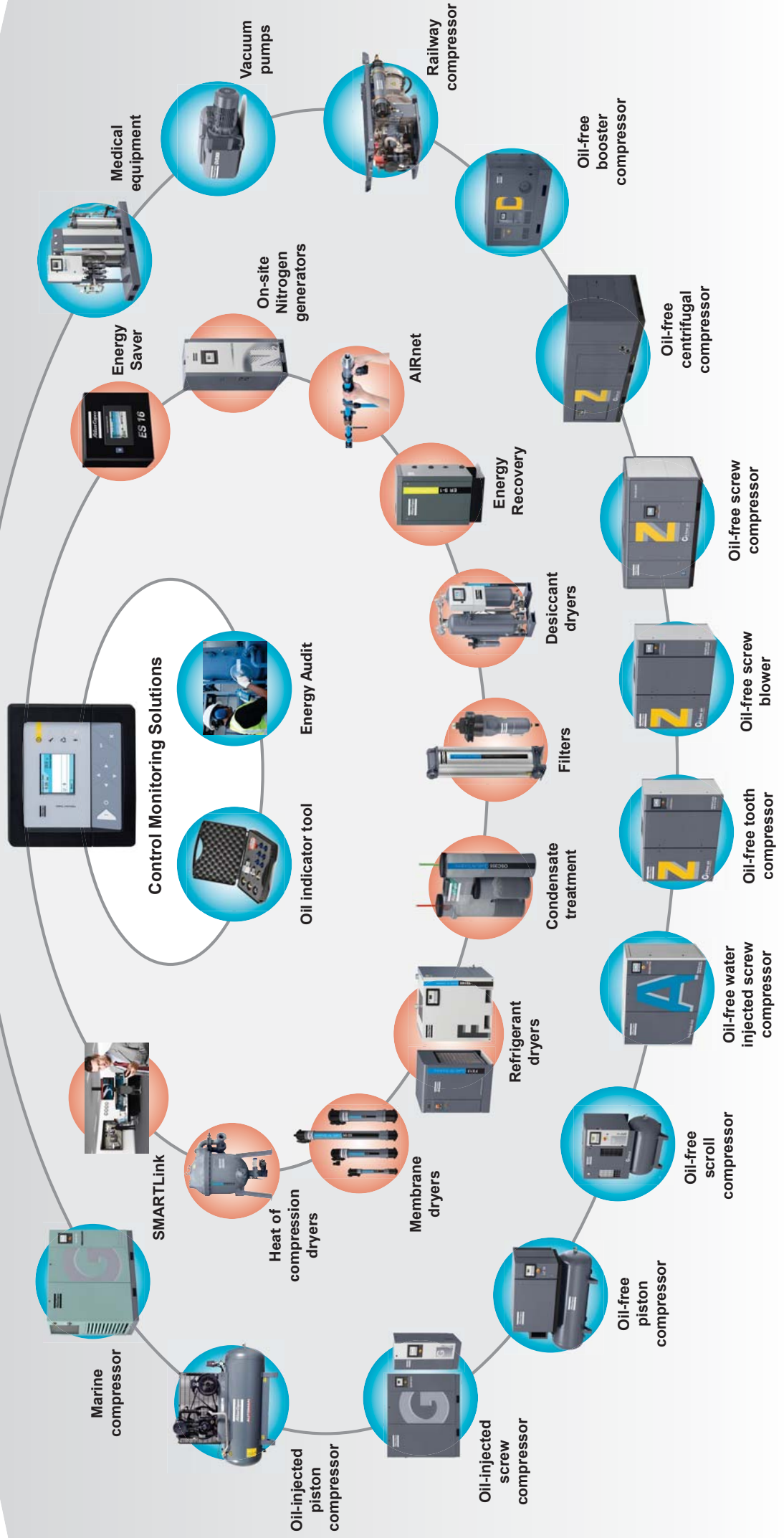
INNOVATION TIMELINE

Over a Century of Innovations in Energy Efficient Products and Services



A UNIVERSE OF SOLUTIONS

Compressed air and gas technologies



PRODUCT PORTFOLIO :

OIL FREE AIR COMPRESSORS

Compressed Air - Low pressure

Oil-free screw blowers

ZS/ZS VSD

Installed motor power:
18 - 355 kW, 25 - 476 hp
Inlet pressure: atmospheric
Working pressure: 0.3 - 1.2 bar (e)
Capacity FAD: 62 - 9300 m³/h,
17 - 2600 l/s
Applications: Pneumatic conveying,
Aeration for waste water treatment,
Flue Gas Desulfurization, Combustion
Air, Silo Aeration



Oil-free rotary low pressure screw compressors

ZE/ZA

Installed motor power:
22 - 500 kW, 40 - 700 hp
Inlet pressure: atmospheric
Working pressure: 1.5 - 4 bar (e)
Capacity FAD: 311 - 7500 m³/h,
85 - 2100 l/s
Applications: Pneumatic conveying,
Fermentation



Oil-free centrifugal blowers

ZB VSD turbo/ZM Multistage centrifugal

Installed motor power:
75 - 2600 kW, 100 - 3486 hp
Inlet pressure: atmospheric
Working pressure: 0.2 - 1.7 bar (e)
Capacity FAD: 180 - 70000 m³/h,
107 - 41200 cfm, 50 - 20000 l/s
Applications: Aeration for waste water
treatment, Flue Gas Desulfurization,
Combustion Air, Silo Aeration



Compressed Air - Medium pressure

Oil-free Piston compressors

LZ Oil-free Piston compressor

Installed motor power: 5.5 - 7.5 kW
Inlet pressure: atmospheric
Working Pressure: 10 Bar
Capacity range: 12 - 18.2 l/s
Applications: Food, Beverage, Pharma,
Printing, OEM



Oil-free air and water cooled rotary tooth and screw compressors

ZR/ZT (VSD/FF)

Installed motor power:
15 - 900 kW, 20 - 1253 hp
Inlet pressure: atmospheric
Working pressure: 4 - 13 bar (e)
Capacity FAD: 63 - 5206 cfm,
107.64 - 8842 m³/h, 30 - 2460 l/s
Applications: Power, Textile, Food,
Automotive, Beverage, Pharma, Steel,
Oil and Gas, Paper, OEM



Oil-free centrifugal compressors

ZH/ZH+/ZH+ VSD

Installed motor power:
350 - 2750 kW, 470 - 3500 hp
Inlet pressure: atmospheric
Working pressure: 2 - 13 bar (e)
Capacity FAD: 2520 - 27000 m³/h,
1483 - 16000 cfm, 700 - 7500 l/s
Applications: Power, Textile, Glass,
Steel, Automotive, Air separation, OEM



Compressed Air - Medium pressure

Oil-free Scroll Compressors

SF 1-22

Installed motor power:

1.5 - 22 kW, 2 - 30 hp

Inlet pressure: atmospheric

Working pressure: 4 - 10 bar (e)

Capacity FAD: 2 - 40 l/s

Applications: Laboratories, Dairy, Dental, Pharmacy, Food, Printing machines, OEM



Oil-free Water-injected Screw Compressors

AQ 15-55 VSD

Installed motor power:

15 - 55 kW, 20 - 75 hp

Inlet pressure: atmospheric

Working pressure: 4 - 13 bar (e)

Capacity FAD: 22 - 155 l/s

Applications: Pharmaceutical, Food and Beverage, Electronics, Hospitals, Automotive



Compressed Air and Gas High pressure

Oil-free screw and reciprocating piston compressors

ZD

Installed motor power:

155 - 815 kW, 182 - 1093 hp

Inlet pressure: atmospheric

Working pressure: 25 - 42 bar (g)

Capacity FAD: 220 - 1141 l/s, 792 - 4010 m³/h

Gases handled: Air, Nitrogen

Compressed air applications:

Instrument air, Fermentation, Cleaning air, Filling and Capping, PET blowing

Nitrogen applications: Blanketing/ Inserting for food packing and storage, MAP



Compressed Air and Gas High pressure

Oil-free reciprocating piston compressors

DX/DN

Installed motor power:

37 - 815 kW, 50 - 1093 hp

Inlet pressure: atmospheric - 10 bar (e)

Working pressure: 4 - 47 bar (g)

Capacity FAD: 35 - 5278 l/s, 125 - 19000 m³/h

Gases handled: Air, Nitrogen

Applications: Cleaning air, Filling and capping



OIL INJECTED AIR COMPRESSORS

Oil Injected Piston Compressors

Automan Cast Iron Piston compressors

Installed motor power: 4 - 11 kW

Inlet pressure: atmospheric

Max Working Pressure: 11 Bar

Capacity Range: 19 - 50 cfm, 9 - 24 l/s

Applications: Packaging, Cement batching plant, Automotive, OEM



Oil Injected Air Compressor

GX / G / GA / GA+ / GAVSD / VSD+ / GR

Installed motor power:

2 - 500 kW / 3 - 670 hp

Inlet pressure: atmospheric

Working pressure: 4 - 20 bar (e) / 58 - 290 psi

Capacity FAD: 13.5 - 100 m³/h / 4 - 1400 l/s

Applications: General Engineering, Automotive, Cement, Power, Agro, Textile, Glass, Foundry, Metals, Manufacturing, Chemical, misc.



Industrial Gas Generation Systems

Membrane nitrogen generators

NGM / NGM⁺

Nitrogen outlet flowrate: 7.6 to 243 Nm³/hr

Nitrogen purity: 95 - 99%

Applications: Food, Beverage, Pharma, Printing, Painting, Textile and various other applications



PSA nitrogen generators

NGP/NGP⁺

Nitrogen outlet flowrate: 0.7 to 2645.1 Nm³/hr

Nitrogen purity: 98 - 99.999%

Applications: Food, Beverage, Pharma, Printing, Painting, Textile and various other applications



PSA oxygen generators

OGP

Oxygen outlet flow rate: 1.5 to 203.8 Nm³/hr

Oxygen purity: 90 - 95%

Applications: Waste water treatment, Fermentation, Ozone production, Health care, Glass industry and various other applications



Air Treatment Equipment - Air Dryers

Heated purge desiccant air dryers

AD/AD⁺

Capacity FAD: 330 - 3000 l/s, 1188 - 10800 m³/h

Pressure Dewpoint: -40°C

Applications: Pharmaceuticals, Food and Beverages and other crucial applications



Blower purge desiccant air dryers

BD/BD⁺

Capacity FAD: 100 - 3000 l/s, 360 - 10800 m³/h

Pressure Dewpoint: -40 to -70°C

Applications: Instrument air, Cleaning air, Fermentation air, Automobile painting etc.



Heatless desiccant air dryers

CDX/CD/CD⁺

Capacity FAD: 1 - 1400 l/s, 3.6 - 5040 m³/h

Pressure Dewpoint: -40°C

Applications: Grain sorting, Peeling of fruits and vegetables and also for instrument air, Cleaning air, Fermentation air etc.



Refrigerant air dryers

FD/FX/FXe

Capacity FAD: 6 - 4000 l/s, 22 - 14400 m³/h

Working pressure: 13 -14 bar (e)

Pressure Dewpoint: upto 3°C

Applications: General Engineering, Food and Grain, Textile, etc.



Heat of compression rotary drum dryers

MD/ND (Patented Technology)

Capacity FAD: 88 - 2500 l/s, 317 - 9000 m³/h

Pressure Dewpoint: +3 to -45°C

Applications: Instrument Air, Power, Automobile, Pharma, Paint, Food and Beverages



Heat-of-compression desiccant air dryers

XD/XD⁺

Capacity FAD: 1400 - 7000 l/s, 5040 - 25200 m³/h

Pressure Dewpoint: -40 to -70°C

Applications: Instrument air, Process air, Fermentation air etc.



Air Treatment Equipment - Filters

Coalescing Oil, Dust and Odour Removal Filters

DD / PD/ QD and DDp / PDp

Max Working Pressure: 16 Bar

Capacity range: 12 to 690 l/s

Oil and Dust Carryover: Upto 0.003 mg/m³ and 0.01 Micron

Applications: Food, Beverage, Pharma, Printing, Painting, Textile



Oil Aerosol and Solid Particle Removal 2 in 1 Filter

UD⁺

Max Working Pressure: 16 Bar

Capacity Range: 9 l/s to 8000l/s

Oil and Dust Carryover: Upto 0.0009 mg/m³ and 0.1 Micron

Applications: Packaging, Cement batching plant, Automotive, OEM



Oil Indicator Tool

O Box

- **Quick and handy air quality indicator**
- Indication of oil content 'on the spot'
- To improve quality of your compressed air installation when the application requires this



Special Segments

Railway Compressors

GAR 5-37

Installed motor power:

5 - 37 kW, 7.5 - 45 hp

Inlet pressure: atmospheric

Working pressure: 6 - 13 bar (e)

Capacity FAD: 8.5 - 69 l/s,

Applications: Main line locomotives, Heavy-duty diesel locomotives, Shunters, EMUs, DMUs, metros and LRVs.



Marine Compressors

MAS + G/GA VSD 5-355

Installed motor power:

5 - 355 kW, 7.5 - 470 hp

Inlet pressure: atmospheric

Working pressure: 6 - 14 bar (e)

Capacity FAD: 4.2 - 776 l/s

Applications: Working Air Compressors



COMPRESSOR TECHNIQUE SERVICE

Products and services to improve the productivity and reduce the cost of ownership



Geniune Parts

- Use of genuine Atlas Copco parts make compressed air installation last longer.
- Minimizes average pressure drop which leads to energy savings and maximum air delivery at the lowest cost of ownership.



Lubricants

- Atlas Copco lubricants have longer effective lifetime, means extended oil drain intervals.
- Less oil drains and less impact on environment.



NEOS Drive

- Neos drives are robust, reliable, IP5x instead of IP2x to withstand harshest conditions.
- These drives are according to latest VSD technology, having limited spare parts and are completely integrated.



Compressor Maintenance

- Maintenance by trained and certified Atlas Copco service engineers
- Genuine parts and lubricants are supplied prior to service engineer visit. (Pro-active planning by Atlas Copco). Keeps your stock and handling to minimum.
- Risk of unexpected problems is lowered by on-time maintenance.
- Limits production downtime and allows to allocate resources effectively.



Air Audit (AIRScan™)

- (AIRScan™) is a real audit solution allowing compressor users to identify savings and improvements for their compressed air systems.
- This is a highly accurate, independent Survey and reporting System.
- The approach is to first discover exactly where the energy drain originates from and then to take the appropriate actions to remedy or optimize the situation.



Energy Recovery

- Allows to reuse the thermal energy in industrial processes.
- A properly designed heat recovery unit can recover upto 94% of available thermal energy (as low-grade heat) to heat air or water (up to 90°C or 140°F).
- Available for 11 kW to 900 kW compressor models.
- **Applications :** Boiler feed water, Pre-painting, Sterilization in dairy, Yarn conditioning in textile etc.



Energy Savers

- Enables to link all compressors, dryers and ancillaries.
- Helps to lower overall pressure band, to eliminate the need for higher working pressure.
- Workload equalization avoids overloads on individual machines.
- Shutdown scheduling to avoid cost during non-working hours.
- Advance algorithm optimizes the compressor mix and in turn saves energy.
- 1 bar working pressure reduction results in 7% energy saving.



AIRnet

- Chrome-free anodizing ensures no internal pollution, making system corrosion free.
- The leakage rate is down to zero.
- Pressure drop reduced to minimal because of very less frictional factor.
- The system remains clean, protecting all downstream equipments.
- AIRnet is 100% modular, utilizing recyclable materials and ensuring reusable component parts.
- 10 year warranty and unique design provides total peace of mind.



SMARTLink - Advance data monitoring program

- Compressor service data and events happened on machines are available online 24 x 7.
- Pro-active service information on website and also SMS / e-mail about service warnings and pre-warnings helps to do maintenance on time.
- Risk of unexpected problems is lowered.
- Energy parameters are made available and this guides on Energy saving measures.



VACUUM SOLUTIONS

Rotary Screw Vacuum pumps with Variable speed drive

GHS VSD⁺

Capacity FAD: 350 - 1900 m³/H

Applications: Meat Packaging, CNC routing (wood, metal, plastics), Envelopes and paper converting, Central systems for Canning and bottles, Tobacco and packaging generally, Pick and place (electronics etc.), Humid applications, Salad cooling, Pipeline drying etc., Lab systems Plastics, Thermo forming Extrusion.



Oil-sealed rotary vane vacuum pumps

GVS 20-300

Capacity FAD: 20-365 m³/h, 12-215 cfm

Applications: Food, Beverage, Pharma, Printing, OEM, Hospitals



Oil-sealed rotary screw vacuum pumps

GHS 630-4800

Capacity FAD: 557 - 5734 m³/h, 328 - 3377 cfm

Applications: All industrial applications



2 stage oil-sealed rotary vane vacuum pumps

GVD

Capacity FAD: 0.7 - 275 m³/hr

Applications: Laboratory bench top vacuum, Research and development, Turbo molecular backing pumps, Freeze drying, Analytical instruments, Refrigeration and air conditioning system evacuation, drying, and backfilling, Vacuum drying and distillation, Backing pump for high vacuum applications, Vacuum metallurgy processes, Thin film coating technologies, Freeze drying, Transformer and cable drying and impregnation, insulating oil treatment plant, Cryogenic vessel evacuation.



Oil sealed Rotary Piston pumps (water cooled)

GLS

Capacity FAD: 250 - 500 m³/h

Customer Benefit: Rugged Reliable Operation, Large Internal Clearances, Oversized Bearings and Shafts, Extended life cycle and rebuild capability Large Oil Reservoir, Tolerant to condensable vapors and contamination, Integral gas ballast valves.

Applications: Melting Applications, Leak Detection, Utility Industry, Vacuum Drying Freeze Drying, Degassing of Emulsions and Containers.



Standard liquid ring vacuum pump packages

Single stage AWS and Two stage AWD

Capacity FAD: 50 - 37500 m³/h

Applications: Mining Brick extrusion, Automotive industry, Cement and allied products, Chemical industries, Food processing, General manufacturing, Metalwork industries, Paper and allied products, Petroleum industries, Oil and gas, Plastics, Textile industry, Power and utilities.



Vacuum booster pumps

ZRS 250-4200

Capacity FAD: For high pumping speeds in the pressure region of 0.01 to 50 mbar / 0.0075 to 37.5 Torr



MEDICAL GAS SOLUTIONS

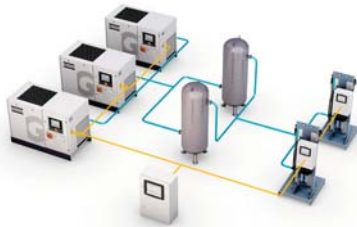
Medical Air Plant

ZT - MED / AQ-MED / SF-MED / LF – MED Medical Air Systems

Capacity: 3.6 - 285 l/s

Application: Medical Air 4 Bar, Surgical Air 7 bar, Combined Air.

Applicable standards: HTM 02 01 / HTM 2022 / NFPA 99c / ISO 8573-1 / ISO 14971 / EN ISO 7396-1



Medical Air Purifiers

MED / MED⁺

Capacity: 7 - 196 l/s

The critical field of patient care requires ultra-clean, purified, medical air delivered to operating theaters and hospital beds with absolute reliability. The Atlas Copco MED / MED⁺ Series of Medical Air Purifiers offers unique multi-stage filtration that converts regular compressed air from any type of compressor into internationally certified medical air. These innovative devices provide clean air for all your medical and surgical applications.



Medical Vacuum Plant

mVAC

Capacity: 4.2 - 153 l/s

Atlas Copco's mVAC Medical Vacuum Systems consist of 2 to 6 air-cooled, oil-lubricated rotary vane type vacuum pumps and a central controller with an intelligent graphical user interface. They provide a highly reliable medical vacuum (suction) for a variety of applications, mainly in operating theaters and intensive care, emergency and respiratory units. The mVAC system offers multiple backup supply in case of failure of individual functional components.



AGS - Anaesthetic Gas Scavenging

AGS Systems

The Anaesthetic Gas Scavenging (AGS) system is an active system which removes anaesthetic gas mixtures from operating rooms and any other areas fitted with nitrous oxide terminal units. The removal at source thus eliminates the possible long term health hazards to exposed medical staff.



Manifold Room

The **LifeLine Global Manifold** is designed in accordance with NFPA, CSA and ISO standards. The NEMA 4 enclosure and environmental testing provides the ability for outdoor installations.





COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand the test of time.
This is what we call – Sustainable Productivity.

Atlas Copco Compressor Technique

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