

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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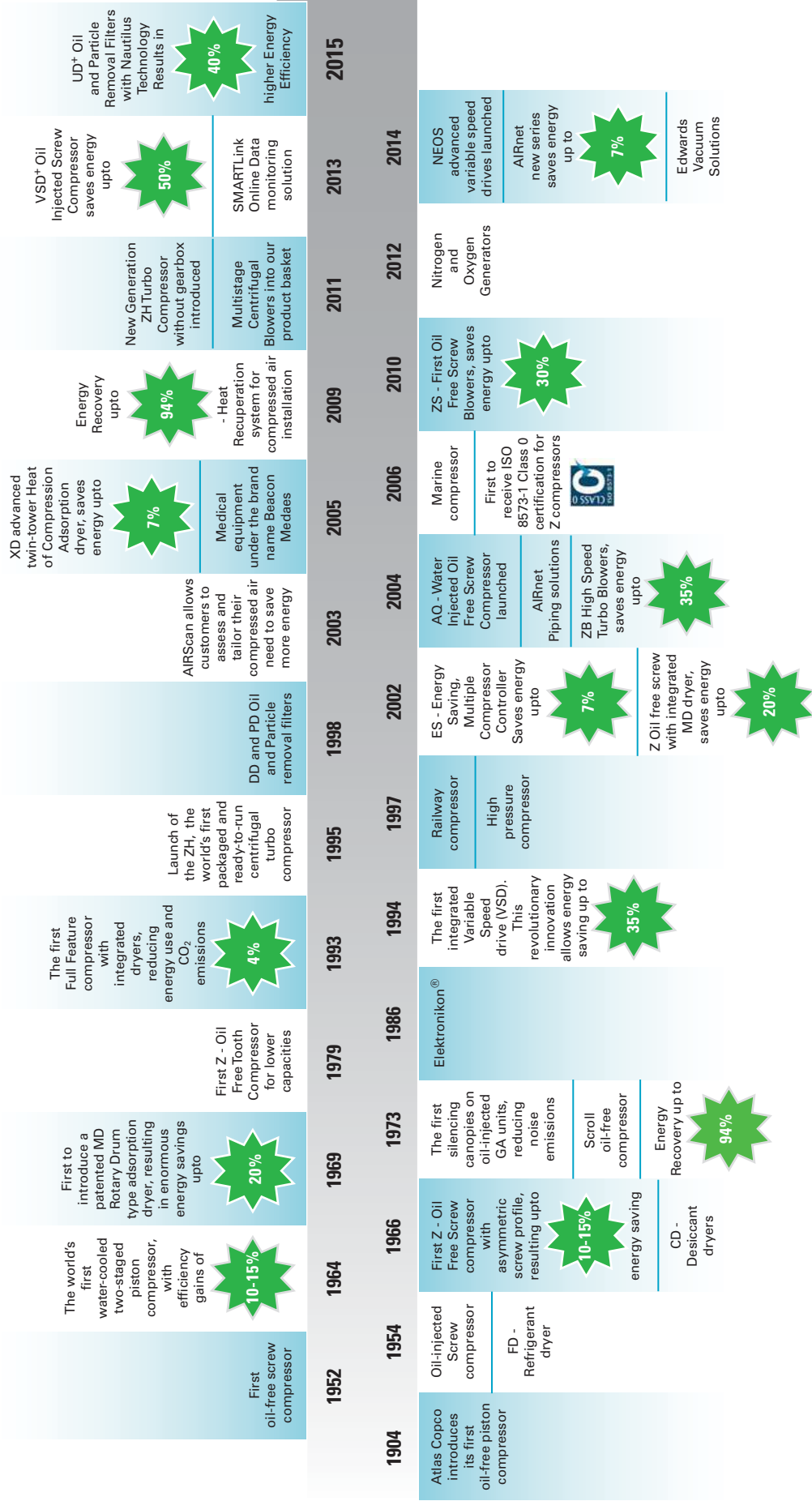
www.linkedin.com/company/atlas-copco-compressor-technique---india



www.youtube.com/user/atlascopcocompressor

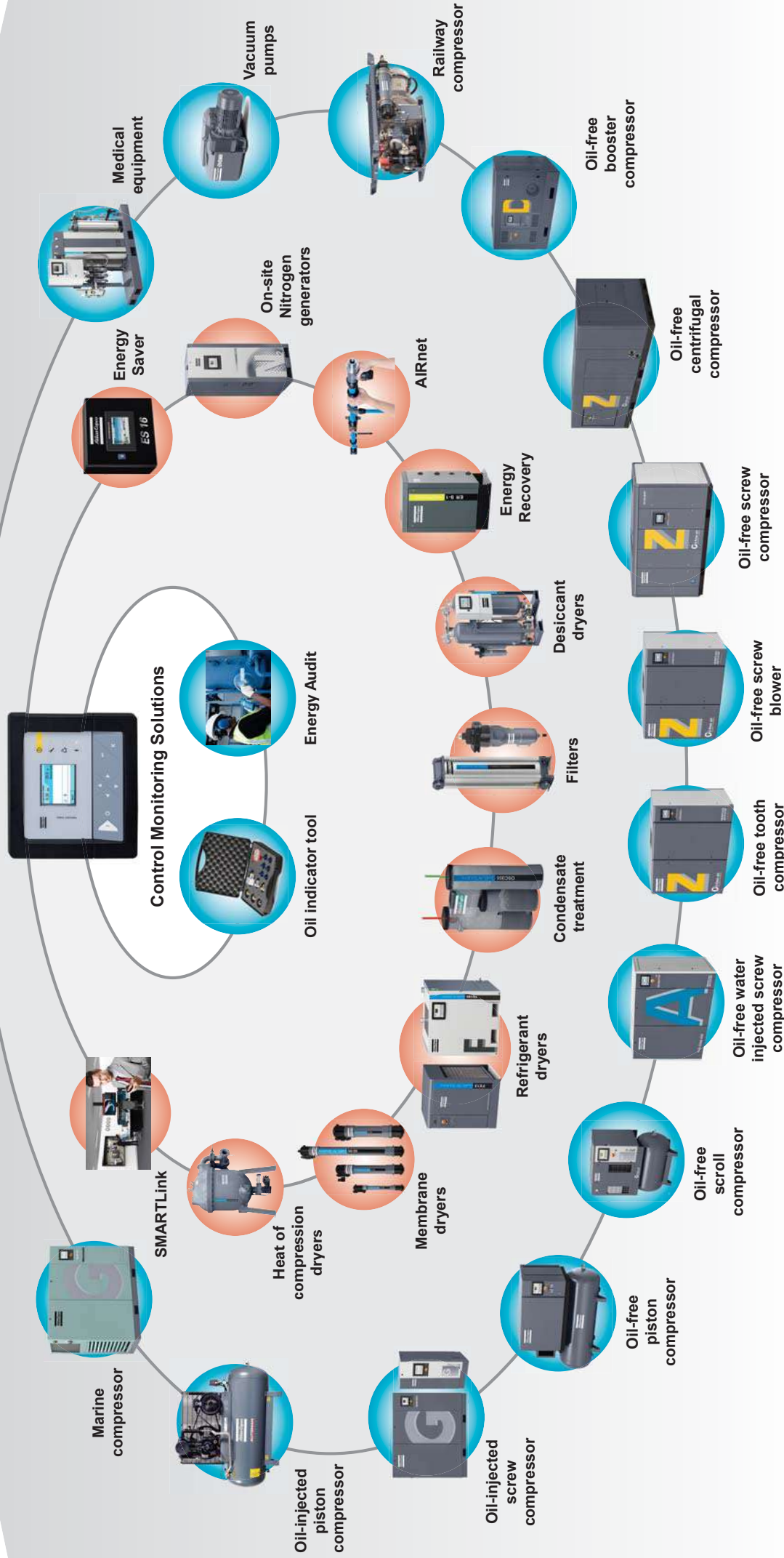
INNOVATION TIMELINE

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



The Atlas Copco logo, featuring the brand name in a white serif font between two horizontal white bars, set against a blue rectangular background.

Atlas Copco
Vacuum
Solutions



Atlas Copco Vacuum Solutions

Vacuum pumps and systems for
industrial applications

Oil-sealed vacuum pumps

GHS 350-5400 VSD⁺ Oil-sealed rotary screw vacuum pumps with VSD technology



| Model | Pumping speed* at element m ³ /hr | Nominal power kW | Max. vacuum mbar.a |
|------------------------------|--|------------------|--------------------|
| GHS 350 VSD ⁺ | 72 - 400 | 5.5 | 0.35 |
| GHS 585 VSD ⁺ | 72 - 560 | 7.5 | 0.35 |
| GHS 730 VSD ⁺ | 72 - 730 | 11 | 0.35 |
| GHS 900 VSD ⁺ | 72 - 870 | 15 | 0.35 |
| GHS 1300 VSD ⁺ ** | 139 - 1250 | 22 | 0.35 |
| GHS 1600 VSD ⁺ ** | 139 - 1590 | 30 | 0.35 |
| GHS 1900 VSD ⁺ ** | 139 - 1810 | 37 | 0.35 |
| GHS 3800 VSD ⁺ ** | 937 - 3828 | 55 | 0.35 |
| GHS 4600 VSD ⁺ ** | 937 - 4478 | 75 | 0.35 |
| GHS 5400 VSD ⁺ ** | 937 - 5004 | 90 | 0.35 |

*At operating vacuum level of 100mbar.a
**Available in air-cooled and water-cooled variants

GHS 1402-2002 VSD⁺ 2nd Generation oil-sealed rotary screw vacuum pumps with HPM^{**} motor and HEX@™ controller



| Model | Pumping speed* at element m ³ /hr | Nominal power kW | Max. vacuum mbar.a |
|---------------------------|--|------------------|--------------------|
| GHS 1402 VSD ⁺ | 114 - 1425 | 22 | 0.35 |
| GHS 1602 VSD ⁺ | 114 - 1674 | 30 | 0.35 |
| GHS 2002 VSD ⁺ | 114 - 1900 | 37 | 0.35 |

* At operating vacuum level of 100 mbar.a
**High efficiency IE5 Permanent Magnet Motor

GVD 0.7-275 Oil-sealed two stage rotary vane vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|----------|------------------------|------------------|------------------------|
| GVD 0.7 | 0.75 | 0.09 | 3.0 x 10 ⁻³ |
| GVD 1.5 | 1.6 | 0.16 | 3.0 x 10 ⁻³ |
| GVD 3 | 3.3 | 0.45 | 2.0 x 10 ⁻² |
| GVD 5 | 5.1 | 0.45 | 2.0 x 10 ⁻² |
| GVD 8 | 8.5 | 0.45 | 2.0 x 10 ⁻³ |
| GVD 12 | 12 | 0.45 | 2.0 x 10 ⁻² |
| GVD 18 | 17 | 0.55 | 1.0 x 10 ⁻² |
| GVD 28 | 27.5 | 0.75 | 1.0 x 10 ⁻³ |
| GVD 45 | 42 | 1.1 | 3.0 x 10 ⁻³ |
| GVD 65 | 60 | 1.5 | 3.0 x 10 ⁻³ |
| GVD 85 | 79 | 2.2 | 3.0 x 10 ⁻² |
| GVD 175* | 160 | 5.5 | 1.0 x 10 ⁻³ |

GVD 6-60 R Oil-sealed two stage rotary vane vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|------------|------------------------|------------------|----------------------|
| GVD 6R | 6.2 | 0.37 | 2 x 10 ⁻³ |
| GVD 12 R | 12 | 0.37 | 2 x 10 ⁻³ |
| GVD 12 RG* | 12 | 0.37 | 2 x 10 ⁻² |
| GVD 20 R | 20 | 0.55 | 2 x 10 ⁻³ |
| GVD 20 RG* | 20 | 0.55 | 2 x 10 ⁻² |
| GVD 30 R | 30 | 1.1 | 1 x 10 ⁻³ |
| GVD 60 R | 55 | 2.2 | 2 x 10 ⁻³ |

*Gas Ballast is permanently open

GVS 16-300 R Oil-sealed single stage rotary vane vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------|------------------------|------------------|--------------------|
| GVS 16 R | 17 | 0.55 | 0.3 |
| GVS 40 R | 43 | 1.1 | 0.1 |
| GVS 65 R | 65 | 1.5 | 0.1 |
| GVS 100 R | 102 | 2.2 | 0.1 |
| GVS 200 R | 192 | 3.7 | 0.1 |
| GVS 300 R | 300 | 5.5 | 0.3 |

*All models with IE3 premium efficiency motor.

GVS 16-630A Oil-sealed single stage rotary vane vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------|------------------------|------------------|--------------------|
| GVS 16 A | 16 | 0.55 | 0.5 |
| GVS 25 A | 25 | 0.9 | 0.5 |
| GVS 40 A | 44 | 1.1 | 0.5 |
| GVS 60 A | 59 | 1.5 | 0.5 |
| GVS 100 A | 98 | 2.2 | 0.5 |
| GVS 150 | 151 | 3.3 | 0.1 |
| GVS 220 A | 200 | 4.5 | 0.1 |
| GVS 300 A | 280 | 5.5 | 0.1 |
| GVS 630 A | 700 | 15 | 0.1 |

GVS VSD⁺ Series Oil-sealed rotary vane vacuum pumps with VSD

HMI on your Smartphone App



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|--------------------------|------------------------|------------------|--------------------|
| GVS 80 VSD ⁺ | 51 - 78 | 2.2 | 0.5 |
| GVS 120 VSD ⁺ | 84 - 117 | 3.7 | 0.5 |
| GVS 255 VSD ⁺ | 119 - 250 | 7.5 | 0.3 |
| GVS 400 VSD ⁺ | 187 - 381 | 11 | 0.3 |

Customized Vacuum pump skids Tailor made engineered vacuum solutions to suit your need.



Oil-free dry vacuum pumps

DZS A Series

Dry stainless steel mono claw vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------|------------------------|------------------|--------------------|
| DZS 065 A | 65 | 1.8 | 50* |
| DZS 150 A | 150 | 3.7 | 50* |
| DZS 300 A | 300 | 6.2 | 140* |

| Model | Flow m ³ /h | Nominal power kW | Max. pressure bar.g |
|------------|------------------------|------------------|---------------------|
| DZS 065 AP | 65 | 3.7 | 1.8* |
| DZS 150 AP | 150 | 11 | 2.3* |
| DZS 300 AP | 300 | 19 | 2.3* |

A = Vacuum variants, AP = Pressure variants | Bare shaft and Oxygen certified variants available
*For continuous duty

DZS VSD+A Series

Dry stainless steel claw vacuum pump with VSD

HMI on your smartphone App



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|---------------|------------------------|------------------|--------------------|
| DZS 100 VSD+A | 105 | 3 | 50* |
| DZS 200 VSD+A | 189 | 5.5 | 50* |
| DZS 400 VSD+A | 398 | 11 | 140* |

VSD+A = Variable speed variants | Connectivity through Bluetooth, ModBUS RTU as standard | *For continuous duty

DZS V Series

Large capacity dry claw vacuum pumps

PEEKCOAT on process wetted parts and rotors



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|------------|------------------------|------------------|--------------------|
| DZS 500 V | 500 | 9.2 | 200* |
| DZS 1000 V | 950 | 18.5 | 200* |

*For continuous duty

DZS VSD+ Series

Large capacity dry claw vacuum pumps with VSD

PEEKCOAT on process wetted parts and rotors
HMI on your smartphone App



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|---------------|------------------------|------------------|--------------------|
| DZS 600 VSD+ | 600 | 11 | 200* |
| DZS 1200 VSD+ | 1140 | 22 | 200* |

* For continuous duty

DZM VSD+A Series

Dry multi-claw vacuum pumps with VSD



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|------------------|------------------------|------------------|--------------------|
| DZM 1200 VSD+A** | 24 - 1170 | 1.2 - 33 | 150* |
| DZM 1600 VSD+A** | 24 - 1560 | 1.2 - 44 | 150* |

*For continuous duty | **3 X DZS 300A and 4 X DZS 300A

ACB Booster

Dry vacuum booster pump



| Model | Flow m ³ /hr | Nominal power kW | Max. Delta P mbar |
|----------|-------------------------|------------------|-------------------|
| ACB 250 | 250 | 1.1 | 80 |
| ACB 500 | 500 | 1.5 | 80 |
| ACB 1001 | 1106 | 3.7 | 80 |
| ACB 1500 | 1500 | 3.7 | 65 |
| ACB 3000 | 3000 | 7.5 | 30 |

DVS Series

Dry rotary vane vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a | Max pressure (bar.g) |
|---------|------------------------|------------------|--------------------|----------------------|
| DVS 5 | 5 | 0.12 - 0.15 | 120 | 0.8 |
| DVS 8 | 8 | 0.25 - 0.3 | 150 | 0.8 |
| DVS 16 | 16 | 0.75 - 0.9 | 120 | 1 |
| DVS 25 | 25 | 0.75 - 0.9 | 120 | 1 |
| DVS 40 | 40 | 1.3 - 1.5 | 120 | 1 |
| DVS 60 | 60 | 1.5 - 1.8 | 150 | NA |
| DVS 80 | 80 | 2.2 - 3.0 | 150 | NA |
| DVS 100 | 100 | 3.4 - 4.0 | 150 | NA |
| DVS 140 | 130 | 3.4 - 4.0 | 150-200 | NA |

DSS Series

Dry scroll vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|---------|------------------------|------------------|--------------------|
| DSS 065 | 72 | 1.5 | 1.5 |
| DSS 100 | 100 | 2.2 | 1 |

DWS 200-500

Dry screw fixed speed vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------|------------------------|------------------|--------------------|
| DWS 200* | 210 | 5.5 | < 0.05 |
| DWS 300* | 280 | 7.5 | < 0.01 |
| DWS 500** | 460 | 11 | < 0.01 |

* Air-cooled and water-cooled variants | ** Only water-cooled variants
Bare shaft variants available

DWS VSD+ Series

Dry screw vacuum pumps with built-in VSD



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------------|------------------------|------------------|--------------------|
| DWS 450 VSD+ ** | 100 - 450 | 11 | 0.01 |
| DWS 750 VSD+ ** | 100 - 750 | 22 | 0.01 |

* Nominal motor power at atmospheric pressure level | ** Only water-cooled variants

DRB 250-2000 & 1500-3000 VSD+

Dry vacuum booster pumps

HMI on your smartphone App



| Model | Flow m ³ /h | Nominal power kW | Max. Delta P mbar |
|---------------|------------------------|------------------|-------------------|
| DRB 250 | 253 | 1.1 | 80 |
| DRB 500 | 505 | 2.2 | 80 |
| DRB 1000 | 1000 | 4 | 80 |
| DRB 2000 | 2050 | 7.5 | 50 |
| DRB 1500 VSD+ | 1500 | 4 | 80 |
| DRB 3000 VSD+ | 3000 | 7.5 | 50 |

ZRS 250-4200

Dry vacuum booster pumps



| Model | Flow m ³ /h | Nominal power kW | Max. Delta P mbar |
|-----------|------------------------|------------------|-------------------|
| ZRS 250 | 310 | 2.2 | 180 |
| ZRS 500 | 505 | 2.2 | 110 |
| ZRS 1200* | 1195 | 3 | 90 |
| ZRS 2600* | 2590 | 11 | 80 |
| ZRS 4200* | 4140 | 11 | 60 |

*Water-cooled variants

DB Series Side chanel blower (Vacuum variant at 50 Hz)

DBS (Single stage & single impeller)

| Model | Max. flow | Motor rating | -50 mbar.g | | -100 mbar.g | | -150 mbar.g | | -200 mbar.g | | -250 mbar.g | | -300 mbar.g | | -350 mbar.g | |
|--------------|-------------------|--------------|-------------------|------|-------------------|------|-------------------|------|-------------------|-----|-------------------|------|-------------------|------|-------------------|------|
| | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| DBS 70-110 | 74 | 0.37 | 55 | 0.25 | 35 | 0.35 | | | | | | | | | | |
| DBS 70-150 | 74 | 0.55 | 55 | 0.25 | 35 | 0.35 | | | | | | | | | | |
| DBS 140-150 | 137 | 0.75 | 115 | 0.3 | 90 | 0.55 | 65 | 0.75 | | | | | | | | |
| DBS 140-200 | 137 | 1.1 | 115 | 0.3 | 90 | 0.55 | 65 | 0.75 | 35 | 1.1 | | | | | | |
| DBS 220-130 | 219 | 1.1 | 195 | 0.75 | 170 | 0.9 | | | | | | | | | | |
| DBS 220-175 | 219 | 1.5 | 195 | 0.75 | 170 | 0.9 | 125 | 1.2 | | | | | | | | |
| DBS 220-250 | 219 | 2.2 | 195 | 0.75 | 170 | 0.9 | 125 | 1.2 | 90 | 1.5 | | | | | | |
| DBS 300-160 | 304 | 2.2 | 270 | 0.75 | 230 | 1.5 | 200 | 2.0 | | | | | | | | |
| DBS 300-240 | 304 | 3.0 | 270 | 0.75 | 230 | 1.5 | 200 | 2.0 | 150 | 2.4 | | | | | | |
| DBS 300-340 | 304 | 4.0 | 270 | 0.75 | 230 | 1.5 | 200 | 2.0 | 150 | 2.4 | 100 | 2.8 | | | | |
| DBS 410-100 | 414 | 2.2 | 365 | 1.2 | 320 | 1.8 | | | | | | | | | | |
| DBS 410-175 | 414 | 3.0 | 365 | 1.2 | 320 | 1.8 | 270 | 2.4 | | | | | | | | |
| DBS 410-275 | 414 | 4.0 | 365 | 1.2 | 320 | 1.8 | 270 | 2.4 | 220 | 2.7 | 160 | 3.5 | | | | |
| DBS 480-150 | 477 | 4.0 | 440 | 2.0 | 380 | 3.0 | 320 | 3.4 | | | | | | | | |
| DBS 480-250 | 477 | 6.5 | 440 | 2.0 | 380 | 3.0 | 320 | 3.4 | 250 | 4.0 | 160 | 5.0 | | | | |
| DBS 540-100 | 536 | 3.0 | 500 | 2.2 | 440 | 2.8 | | | | | | | | | | |
| DBS 540-180 | 536 | 4.0 | 500 | 2.2 | 440 | 2.8 | 380 | 3.2 | | | | | | | | |
| DBS 540-250 | 536 | 5.5 | 500 | 2.2 | 440 | 2.8 | 380 | 3.2 | 320 | 4.0 | 250 | 4.6 | | | | |
| DBS 540-350 | 536 | 7.5 | 500 | 2.2 | 440 | 2.8 | 380 | 3.2 | 320 | 4.0 | 250 | 4.6 | 170 | 5.5 | | |
| DBS 660-130 | 663 | 4.0 | 630 | 2.2 | 560 | 3.25 | | | | | | | | | | |
| DBS 660-210 | 663 | 5.5 | 630 | 2.2 | 560 | 3.25 | 500 | 4.0 | 420 | 5.5 | | | | | | |
| DBS 660-290 | 663 | 7.5 | 630 | 2.2 | 560 | 3.25 | 500 | 4.0 | 420 | 5.5 | 350 | 6.5 | | | | |
| DBS 780-160 | 782 | 5.5 | 730 | 3.0 | 660 | 4.5 | 600 | 5.5 | | | | | | | | |
| DBS 780-225 | 782 | 6.5 | 730 | 3.0 | 660 | 4.5 | 600 | 5.5 | 530 | 6.7 | | | | | | |
| DBS 780-300 | 782 | 9.2 | 730 | 3.0 | 660 | 4.5 | 600 | 5.5 | 530 | 6.7 | 460 | 7.2 | 380 | 9.0 | | |
| DBS 910-175 | 915 | 7.5 | 860 | 4.0 | 800 | 5.5 | 730 | 6.5 | | | | | | | | |
| DBS 910-250 | 915 | 9.2 | 860 | 4.0 | 800 | 5.5 | 730 | 6.5 | 650 | 7.5 | 580 | 8.5 | | | | |
| DBS 910-300 | 915 | 11.0 | 860 | 4.0 | 800 | 5.5 | 730 | 6.5 | 650 | 7.5 | 580 | 8.5 | 480 | 10.0 | | |
| DBS 910-400 | 915 | 15.0 | 860 | 4.0 | 800 | 5.5 | 730 | 6.5 | 650 | 7.5 | 580 | 8.5 | 480 | 10.0 | 360 | 11.0 |
| DBS 1020-150 | 1022 | 9.2 | 965 | 4.6 | 900 | 6.5 | 825 | 9.0 | | | | | | | | |
| DBS 1020-225 | 1022 | 11.0 | 965 | 4.6 | 900 | 6.5 | 825 | 9.0 | 750 | 9.5 | | | | | | |
| DBS 1020-300 | 1022 | 15.0 | 965 | 4.6 | 900 | 6.5 | 825 | 9.0 | 750 | 9.5 | 670 | 11.0 | 580 | 12.0 | | |

DBSt (Single stage & twin impeller)

| Model | Max. flow | Motor rating | -50 mbar.g | | -100 mbar.g | | -150 mbar.g | | -200 mbar.g | | -250 mbar.g | | -300 mbar.g | |
|---------------|-------------------|--------------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|
| | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW |
| DBSt 410-175 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 | 408 |
| DBSt 410-250 | 408 | 4.0 | 360 | 1.2 | 305 | 1.8 | 240 | 2.4 | 160 | 3.2 | | | | |
| DBSt 560-130 | 562 | 4.0 | 500 | 2.2 | 440 | 3.0 | | | | | | | | |
| DBSt 560-200 | 562 | 5.5 | 500 | 2.2 | 440 | 3.0 | 370 | 4.0 | 290 | 5.3 | | | | |
| DBSt 560-300 | 562 | 7.5 | 500 | 2.2 | 440 | 3.0 | 370 | 4.0 | 290 | 5.3 | 200 | 6.0 | | |
| DBSt 830-150 | 827 | 5.5 | 750 | 3.0 | 640 | 4.5 | 550 | 5.0 | | | | | | |
| DBSt 830-225 | 827 | 7.5 | 750 | 3.0 | 640 | 4.5 | 550 | 5.0 | 440 | 6.0 | | | | |
| DBSt 1010-140 | 1006 | 7.5 | 930 | 3.5 | 840 | 4.5 | | | | | | | | |
| DBSt 1010-210 | 1006 | 9.2 | 930 | 3.5 | 840 | 4.5 | 770 | 6.0 | 600 | 9.0 | | | | |
| DBSt 1010-260 | 1006 | 11.0 | 930 | 3.5 | 840 | 4.5 | 770 | 6.0 | 600 | 9.0 | 470 | 11.0 | | |
| DBSt 1010-375 | 1006 | 15.0 | 930 | 3.5 | 840 | 4.5 | 770 | 6.0 | 600 | 9.0 | 470 | 11.0 | 360 | 11.0 |
| DBSt 1320-190 | 1325 | 11.0 | 1250 | 4.5 | 1170 | 5.0 | 1020 | 9.2 | | | | | | |
| DBSt 1320-250 | 1325 | 15.0 | 1250 | 4.5 | 1170 | 5.0 | 1020 | 9.2 | 860 | 10.5 | 720 | 12.0 | | |
| DBSt 1320-350 | 1325 | 18.5 | 1250 | 4.5 | 1170 | 5.0 | 1020 | 9.2 | 860 | 10.5 | 720 | 12.0 | 550 | 15.0 |
| DBSt 1540-160 | 1539 | 11.0 | 1430 | 5.0 | 1300 | 7.5 | 1175 | 9.8 | | | | | | |
| DBSt 1540-200 | 1539 | 15.0 | 1430 | 5.0 | 1300 | 7.5 | 1175 | 9.8 | 1050 | 12.0 | | | | |
| DBSt 1540-250 | 1539 | 18.5 | 1430 | 5.0 | 1300 | 7.5 | 1175 | 9.8 | 1050 | 12.0 | 900 | 15.0 | | |
| DBSt 1760-160 | 1764 | 15.0 | 1670 | 7.5 | 1550 | 9.0 | 1400 | 14.0 | | | | | | |
| DBSt 1760-220 | 1764 | 18.5 | 1670 | 7.5 | 1550 | 9.0 | 1400 | 14.0 | 1200 | 18.5 | | | | |
| DBSt 1760-275 | 1764 | 22.0 | 1670 | 7.5 | 1550 | 9.0 | 1400 | 14.0 | 1200 | 18.5 | 1100 | 19.3 | | |
| DBSt 1980-150 | 1985 | 18.5 | 1900 | 11.0 | 1780 | 13.5 | 1640 | 16.0 | | | | | | |
| DBSt 1980-200 | 1985 | 22.0 | 1900 | 11.0 | 1780 | 13.5 | 1640 | 16.0 | 1500 | 20.0 | | | | |

DB Series Side chanel blower (Vacuum variant at 50 Hz)

DBD (Two stage & single impeller)

| Model | Max. flow m ³ /h | Motor rating kW | -50 mbar.g | | -100 mbar.g | | -150 mbar.g | | -200 mbar.g | | -250 mbar.g | | -300 mbar.g | | -350 mbar.g | | -400 mbar.g | | -450 mbar.g | | |
|-------------|--------------------------------|--------------------|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|------|-------------------|------|-------------------|-----|-------------------|-----|--|
| | | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | |
| DBD 90-325 | 91 | 1.1 | 80 | 0.4 | 70 | 0.5 | 60 | 0.7 | 48 | 0.8 | 38 | 0.9 | 28 | 0.96 | | | | | | | |
| DBD 90-425 | 91 | 1.5 | 80 | 0.4 | 70 | 0.5 | 60 | 0.7 | 48 | 0.8 | 38 | 0.9 | 28 | 0.96 | 18 | 1.06 | | | | | |
| DBD 180-450 | 181 | 3.0 | 171 | 0.8 | 160 | 1.0 | 150 | 1.3 | 140 | 1.5 | 130 | 1.9 | 120 | 2.2 | 110 | 2.5 | 100 | 2.8 | | | |
| DBD 180-550 | 181 | 4.0 | 171 | 0.8 | 160 | 1.0 | 150 | 1.3 | 140 | 1.5 | 130 | 1.9 | 120 | 2.2 | 110 | 2.5 | 100 | 2.8 | 90 | 3.0 | |
| DBD 240-400 | 236 | 4.0 | 228 | 1.3 | 220 | 1.5 | 210 | 1.9 | 200 | 2.2 | 188 | 2.6 | 175 | 3.0 | 158 | 3.5 | 140 | 4.0 | | | |
| DBD 240-550 | 236 | 5.5 | 228 | 1.3 | 220 | 1.5 | 210 | 1.9 | 200 | 2.2 | 188 | 2.6 | 175 | 3.0 | 158 | 3.5 | 140 | 4.0 | 120 | 4.5 | |
| DBD 310-425 | 310 | 5.5 | 298 | 1.3 | 285 | 1.5 | 273 | 1.9 | 260 | 2.2 | 245 | 2.6 | 230 | 3.0 | 210 | 3.8 | 190 | 4.5 | | | |
| DBD 390-515 | 515 | 7.5 | 373 | 2.0 | 360 | 2.5 | 340 | 3.5 | 320 | 4.0 | 300 | 4.3 | 280 | 4.2 | 250 | 5.0 | 230 | 5.8 | | | |
| DBD 430-425 | 430 | 7.5 | 415 | 2.5 | 400 | 3.0 | 380 | 4.0 | 360 | 4.5 | 340 | 5.0 | 310 | 5.5 | 280 | 6.5 | 260 | 7.2 | | | |

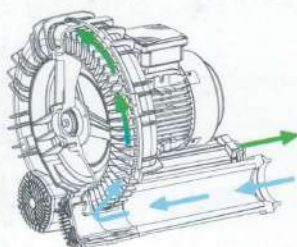
DBDt (Two stage & twin impellers)

| Model | Max. flow m ³ /h | Motor rating kW | -50 mbar.g | | -100 mbar.g | | -150 mbar.g | | -200 mbar.g | | -250 mbar.g | | -300 mbar.g | | -350 mbar.g | | -400 mbar.g | | -450 mbar.g | | |
|---------------|--------------------------------|--------------------|-------------------|-----|-------------------|-----|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|--|
| | | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | |
| DBDt 140-400 | 139 | 2.2 | 127 | 0.5 | 115 | 0.7 | 100 | 1.0 | 83 | 1.2 | 70 | 1.4 | | | | | | | | | |
| DBDt 210-350 | 215 | 3.0 | 200 | 0.8 | 185 | 1.2 | 170 | 1.5 | 153 | 1.8 | 130 | 2.0 | 107 | 2.4 | 80 | 3.0 | | | | | |
| DBDt 210-475 | 215 | 4.0 | 200 | 0.8 | 185 | 1.2 | 170 | 1.5 | 153 | 1.8 | 130 | 2.0 | 107 | 2.4 | 80 | 3.0 | 50 | 3.2 | | | |
| DBDt 310-275 | 312 | 4.0 | 296 | 1.4 | 280 | 1.8 | 260 | 2.3 | 240 | 3.0 | 215 | 3.4 | | | | | | | | | |
| DBDt 310-425 | 312 | 5.5 | 296 | 1.4 | 280 | 1.8 | 260 | 2.3 | 240 | 3.0 | 215 | 3.4 | 190 | 4.2 | 160 | 4.5 | 120 | 5.0 | | | |
| DBDt 420-350 | 416 | 5.5 | 393 | 1.5 | 370 | 2.0 | 350 | 3.0 | 320 | 3.5 | 290 | 4.0 | 250 | 4.5 | 210 | 5.5 | | | | | |
| DBDt 420-475 | 416 | 7.5 | 393 | 1.5 | 370 | 2.0 | 350 | 3.0 | 320 | 3.5 | 290 | 4.0 | 250 | 4.5 | 210 | 5.5 | 160 | 6.0 | | | |
| DBDt 520-375 | 518 | 7.5 | 499 | 2.3 | 480 | 3.0 | 455 | 4.0 | 430 | 4.5 | 400 | 5.5 | 365 | 6.3 | 330 | 7.0 | | | | | |
| DBDt 520-425 | 518 | 9.2 | 499 | 2.3 | 480 | 3.0 | 455 | 4.0 | 430 | 4.5 | 400 | 5.5 | 365 | 6.3 | 330 | 7.0 | 270 | 7.8 | | | |
| DBDt 660-390 | 657 | 11.0 | 639 | 4.0 | 620 | 5.0 | 600 | 6.0 | 560 | 7.0 | 520 | 8.0 | 480 | 8.7 | 430 | 9.2 | | | | | |
| DBDt 660-550 | 657 | 15.0 | 639 | 4.0 | 620 | 5.0 | 600 | 6.0 | 560 | 7.0 | 520 | 8.0 | 480 | 8.7 | 430 | 9.2 | 380 | 10.5 | 330 | 11.0 | |
| DBDt 800-325 | 804 | 11.0 | 780 | 4.0 | 750 | 4.5 | 720 | 6.0 | 690 | 7.5 | 645 | 8.8 | 600 | 10.0 | | | | | | | |
| DBDt 800-450 | 804 | 15.0 | 780 | 4.0 | 750 | 4.5 | 720 | 6.0 | 690 | 7.5 | 645 | 8.8 | 600 | 10.0 | 550 | 11.0 | 500 | 12.5 | 450 | 13.5 | |
| DBDt 900-375 | 903 | 15.0 | 880 | 6.0 | 850 | 7.0 | 820 | 8.0 | 780 | 9.0 | 740 | 10.5 | 700 | 12.0 | 650 | 13.5 | | | | | |
| DBDt 900-475 | 903 | 18.5 | 880 | 6.0 | 850 | 7.0 | 820 | 8.0 | 780 | 9.0 | 740 | 10.5 | 700 | 12.0 | 650 | 13.5 | 600 | 15.0 | | | |
| DBDt 1010-300 | 1007 | 18.5 | 989 | 7.5 | 970 | 9.0 | 940 | 10.0 | 910 | 12.0 | 865 | 14.0 | 820 | 16.0 | | | | | | | |
| DBDt 1010-425 | 1007 | 22.0 | 989 | 7.5 | 970 | 9.0 | 940 | 10.0 | 910 | 12.0 | 865 | 14.0 | 820 | 16.0 | 780 | 17 | 720 | 18.5 | | | |



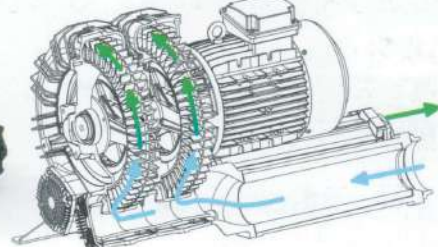
DBS

(Single stage & single impeller)



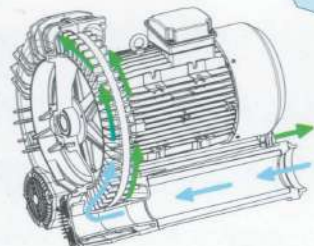
DBSt

(Single stage & twin impeller)



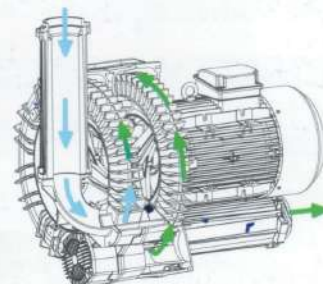
DBD

(Two stage & single impeller)



DBDt

(Two stage & twin impellers)



DB Series Side chanel blower (Pressure variant at 50 Hz)

DBD (Two stage & single impeller)

| Model | Max. flow m ³ /h | Motor rating kW | +50 mbar.g | | +100 mbar.g | | +150 mbar.g | | +200 mbar.g | | +250 mbar.g | | +300 mbar.g | | +350 mbar.g | | +400 mbar.g | | +450mbar.g | | +500 mbar.g | | +550 mbar.g | | |
|-------------|--------------------------------|--------------------|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|-----|-------------------|
| | | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h |
| DBD 90-325 | 91 | 1.1 | 80 | 0.4 | 73 | 0.5 | 60 | 0.7 | 55 | 0.8 | 46 | 0.9 | 37 | 1.0 | | | | | | | | | | | |
| DBD 90-425 | 91 | 1.5 | 80 | 0.4 | 73 | 0.5 | 60 | 0.7 | 55 | 0.8 | 46 | 0.9 | 37 | 1.0 | 30 | 1.1 | 24 | 1.2 | | | | | | | |
| DBD 180-450 | 181 | 3.0 | 176 | 0.8 | 170 | 1.0 | 163 | 1.3 | 155 | 1.5 | 145 | 1.9 | 135 | 2.2 | 125 | 2.5 | 120 | 2.8 | 115 | 3.0 | | | | | |
| DBD 180-550 | 181 | 4.0 | 176 | 0.8 | 170 | 1.0 | 163 | 1.3 | 155 | 1.5 | 145 | 1.9 | 135 | 2.2 | 125 | 2.5 | 120 | 2.8 | 115 | 3.0 | 105 | 3.2 | 100 | 4.0 | |
| DBD 240-400 | 236 | 4.0 | 228 | 1.3 | 220 | 1.5 | 210 | 1.9 | 200 | 2.2 | 193 | 2.6 | 185 | 3.0 | 178 | 3.5 | | | | | | | | | |
| DBD 240-550 | 236 | 5.5 | 228 | 1.3 | 220 | 1.5 | 210 | 1.9 | 200 | 2.2 | 193 | 2.6 | 185 | 3.0 | 178 | 3.5 | 170 | 4.0 | 165 | 4.3 | 155 | 5.2 | 150 | 5.5 | |
| DBD 310-425 | 310 | 5.5 | 300 | 1.3 | 290 | 1.5 | 280 | 1.9 | 270 | 2.2 | 260 | 2.6 | 250 | 3.0 | 245 | 3.7 | 230 | 4.7 | | | | | | | |
| DBD 390-515 | 515 | 7.5 | 373 | 2.0 | 360 | 2.5 | 345 | 3.5 | 330 | 4.0 | 315 | 4.3 | 300 | 4.2 | 283 | 5.1 | 270 | 5.8 | 250 | 6.6 | 240 | 7.0 | | | |
| DBD 430-425 | 430 | 7.5 | 420 | 2.5 | 410 | 3.0 | 390 | 4.0 | 375 | 4.5 | 360 | 5.0 | 350 | 5.8 | 335 | 6.3 | | | | | | | | | |

DBDt (Two stage & Twin impellers)

| Model | Max. flow m ³ /h | Motor rating kW | +50 mbar.g | | +100 mbar.g | | +150 mbar.g | | +200 mbar.g | | +250 mbar.g | | +300 mbar.g | | +350 mbar.g | | +400 mbar.g | | +450mbar.g | | +500 mbar.g | | +550 mbar.g | | |
|---------------|--------------------------------|--------------------|-------------------|-----|-------------------|-----|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| | | | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h | kW | m ³ /h |
| DBDt 140-400 | 139 | 2.2 | 127 | 0.5 | 115 | 0.7 | 105 | 1.0 | 95 | 1.2 | 84 | 1.4 | 72 | 1.6 | 60 | 1.8 | 50 | 2.1 | | | | | | | |
| DBDt 210-350 | 215 | 3.0 | 203 | 0.8 | 190 | 1.2 | 175 | 1.5 | 160 | 1.8 | 146 | 2.0 | 136 | 2.4 | 125 | 3.0 | | | | | | | | | |
| DBDt 210-475 | 215 | 4.0 | 203 | 0.8 | 190 | 1.2 | 175 | 1.5 | 160 | 1.8 | 146 | 2.0 | 136 | 2.4 | 125 | 3.0 | 110 | 3.2 | 100 | 3.5 | | | | | |
| DBDt 310-275 | 312 | 4.0 | 299 | 1.4 | 285 | 1.8 | 270 | 2.3 | 250 | 3.0 | 240 | 3.4 | | | | | | | | | | | | | |
| DBDt 310-425 | 312 | 5.5 | 299 | 1.4 | 285 | 1.8 | 270 | 2.3 | 250 | 3.0 | 240 | 3.4 | 225 | 4.2 | 210 | 4.5 | 200 | 5.2 | | | | | | | |
| DBDt 420-350 | 416 | 5.5 | 398 | 1.5 | 380 | 2.0 | 360 | 3.0 | 340 | 3.5 | 320 | 4.0 | 300 | 4.5 | | | | | | | | | | | |
| DBDt 420-475 | 416 | 7.5 | 398 | 1.5 | 380 | 2.0 | 360 | 3.0 | 340 | 3.5 | 320 | 4.0 | 300 | 4.5 | 275 | 5.5 | 250 | 6.0 | 240 | 6.5 | | | | | |
| DBDt 520-375 | 518 | 7.5 | 499 | 2.3 | 480 | 3.0 | 460 | 4.0 | 440 | 4.5 | 420 | 5.5 | 400 | 6.4 | | | | | | | | | | | |
| DBDt 520-425 | 518 | 9.2 | 499 | 2.3 | 480 | 3.0 | 460 | 4.0 | 440 | 4.5 | 420 | 5.5 | 400 | 6.4 | 387 | 7.0 | 380 | 7.4 | | | | | | | |
| DBDt 660-390 | 657 | 11 | 639 | 4.0 | 620 | 5.0 | 590 | 6.0 | 560 | 7.0 | 540 | 8.0 | 520 | 8.7 | 495 | 9.6 | | | | | | | | | |
| DBDt 660-550 | 657 | 15 | 639 | 4.0 | 620 | 5.0 | 590 | 6.0 | 560 | 7.0 | 540 | 8.0 | 520 | 8.7 | 495 | 9.6 | 470 | 10.5 | 450 | 11.0 | 440 | 13.0 | 430 | 13.5 | |
| DBDt 800-325 | 804 | 11 | 780 | 4.0 | 750 | 4.5 | 720 | 6.0 | 700 | 7.5 | 680 | 8.8 | 660 | 10.0 | | | | | | | | | | | |
| DBDt 800-450 | 804 | 15 | 780 | 4.0 | 750 | 4.5 | 720 | 6.0 | 700 | 7.5 | 680 | 8.8 | 660 | 10.0 | 640 | 10.5 | 620 | 12.5 | 600 | 13.5 | | | | | |
| DBDt 900-375 | 903 | 15 | 880 | 6.0 | 850 | 7.0 | 820 | 8.0 | 790 | 9.0 | 765 | 10.5 | 740 | 12.0 | 720 | 13.5 | | | | | | | | | |
| DBDt 900-475 | 903 | 18.5 | 880 | 6.0 | 850 | 7.0 | 820 | 8.0 | 790 | 9.0 | 765 | 10.5 | 740 | 12.0 | 720 | 13.5 | 700 | 15.0 | 670 | 17.5 | | | | | |
| DBDt 1010-300 | 1007 | 18.5 | 989 | 7.5 | 970 | 9.0 | 950 | 10.0 | 930 | 12.0 | 895 | 14.0 | 860 | 16.0 | | | | | | | | | | | |
| DBDt 1010-425 | 1007 | 22.0 | 989 | 7.5 | 970 | 9.0 | 950 | 10.0 | 930 | 12.0 | 895 | 14.0 | 860 | 16.0 | 830 | 17.0 | 810 | 18.5 | | | | | | | |

HEX@™ and HEX@GRID multi-pump central controller

Next-generation Industry 4.0 vacuum controller with complete connectivity and enhanced control



- Easy menu**
 Customizable dashboard
 View trends of historical and real time pump parameters
- Auto update**
 Improvements
 New Features
- Central set point control**
 Stable vacuum and optimized control
 Two modes: Force max speed and PI control
- Connect and control**
 Simple and secured
 Via any smart device
- Health check**
 Monitor your pump
 Longer service interval
- Energy saving**
 VSD smart control
 Process optimization
- Intelligent scheduling**
 Add schedules and actions for your pump
 Purge cycles, auto clean, set point adjustments
- Insights**
 Real-time insights and recommendations
 Get alerts on a device of your choice

Liquid ring vacuum pumps

LRP VSD+ Series

Intelligent liquid ring vacuum pump with VSD technology



| Model | Flow m ³ /h | | Nominal power kW | Max. vacuum mbar.a |
|---------------|------------------------|-----------|------------------|--------------------|
| | Dry | Saturated | | |
| LRP 700 VSD+ | 740 | 910 | 18.5 | 25 |
| LRP 900 VSD+ | 940 | 1090 | 26 | 25 |
| LRP 1000 VSD+ | 1050 | 1140 | 37 | 25 |

Available in once-through and total recovery options

AWC Series

Single stage liquid ring vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|---------|------------------------|------------------|--------------------|
| AWC 160 | 161 | 4 | 33 |
| AWC 220 | 223 | 5.5 | 33 |
| AWC 290 | 272 | 7.5 | 33 |
| AWC 390 | 375 | 11 | 33 |
| AWC 500 | 485 | 15 | 33 |

AWC A & AWS A Series

Single stage liquid ring vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|------------|------------------------|------------------|--------------------|
| AWC 25 A | 25 | 0.9 | 33 |
| AWC 45 A | 45 | 1.9 | 33 |
| AWC 80 A | 80 | 3 | 33 |
| AWC 110 A | 110 | 3 | 33 |
| AWC 140 A | 134 | 3.7 | 33 |
| AWC 190 A | 190 | 5.6 | 33 |
| AWC 280 A | 279 | 7.5 | 33 |
| AWC 350 A | 350 | 11 | 33 |
| AWS 530 A | 528 | 15 | 33 |
| AWS 750 A | 753 | 22 | 33 |
| AWS 980 A | 980 | 30 | 33 |
| AWS 1400 A | 1380 | 45 | 33 |

AWS Series

Single stage liquid ring vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|----------|------------------------|------------------|--------------------|
| AWS 180 | 163 | 5.5 | 33 |
| AWS 280 | 228 | 7.5 | 33 |
| AWS 360 | 321 | 11 | 33 |
| AWS 450 | 434 | 15 | 33 |
| AWS 600 | 572 | 18.5 | 33 |
| AWS 800 | 718 | 22 | 33 |
| AWS 1100 | 1009 | 37 | 33 |
| AWS 1300 | 1213 | 37 | 33 |
| AWS 1600 | 1517 | 45 | 33 |
| AWS 2500 | 2192 | 75 | 33 |
| AWS 3300 | 3056 | 75 | 33 |
| AWS 5500 | 5025 | 160 | 33 |

AWD A & AWD Series

Two stage liquid ring vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------|------------------------|------------------|--------------------|
| AWD 100 A | 89 | 3 | 30 |
| AWD 140 A | 142 | 5 | 30 |
| AWD 170 A | 176 | 6 | 30 |
| AWD 240 A | 229 | 8 | 30 |
| AWD 350 A | 328 | 11 | 30 |
| AWD 375 A | 354 | 13 | 30 |
| AWD 600 A | 555 | 23 | 30 |
| AWD 660 A | 656 | 26 | 30 |
| AWD 200 | 200 | 6 | 33 |
| AWD 400 | 400 | 11 | 33 |
| AWD 610 | 750 | 23 | 33 |
| AWD 1230 | 1250 | 34 | 33 |
| AWD 1680 | 1685 | 43 | 33 |
| AWD 1960 | 2000 | 52 | 33 |
| AWD 3280 | 3300 | 96 | 33 |
| AWD 4510 | 4500 | 130 | 33 |

Contact your local Atlas Copco representative for customized and VSD variants

AWL Series

Single stage liquid ring vacuum pumps



| Model | Flow m ³ /h | Nominal power kW | Max. vacuum mbar.a |
|-----------|------------------------|------------------|--------------------|
| AWL 4000 | 4120 | 160 | 160 |
| AWL 5500 | 5310 | 185 | 160 |
| AWL 7000 | 6596 | 185 | 160 |
| AWL 9500 | 8730 | 200 | 160 |
| AWL 12500 | 11931 | 280 | 160 |
| AWL 15000 | 14259 | 315 | 160 |
| AWL 17500 | 16490 | 400 | 160 |
| AWL 21500 | 20176 | 450 | 160 |
| AWL 26000 | 24250 | 560 | 160 |
| AWL 30000 | 28615 | 630 | 160 |
| AWL 37500 | 35580 | 800 | 160 |

Vacuum controllers

- **HEX@Grid:** Next-generation Industry 4.0 vacuum controller with complete connectivity and enhanced control
- **ELEC CAB:** Electrical panel with VFD



Vacuum accessories

- Inlet dust removal filter
- Inlet liquid removal filter
- Oil-mist exhaust filter
- Three stage heavyduty filter
- Vacuum receiver tank
- Vacuum auto drain



Atlas Copco

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Vacuum
Solutions

Atlas Copco Vacuum Solutions

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MEDICAL GAS SOLUTIONS

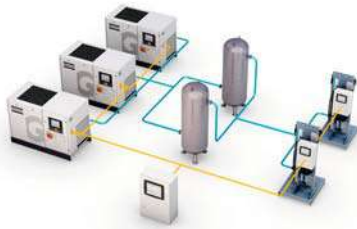
Medical Air Plant

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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