

Atlas Copco

Quality Air Solutions



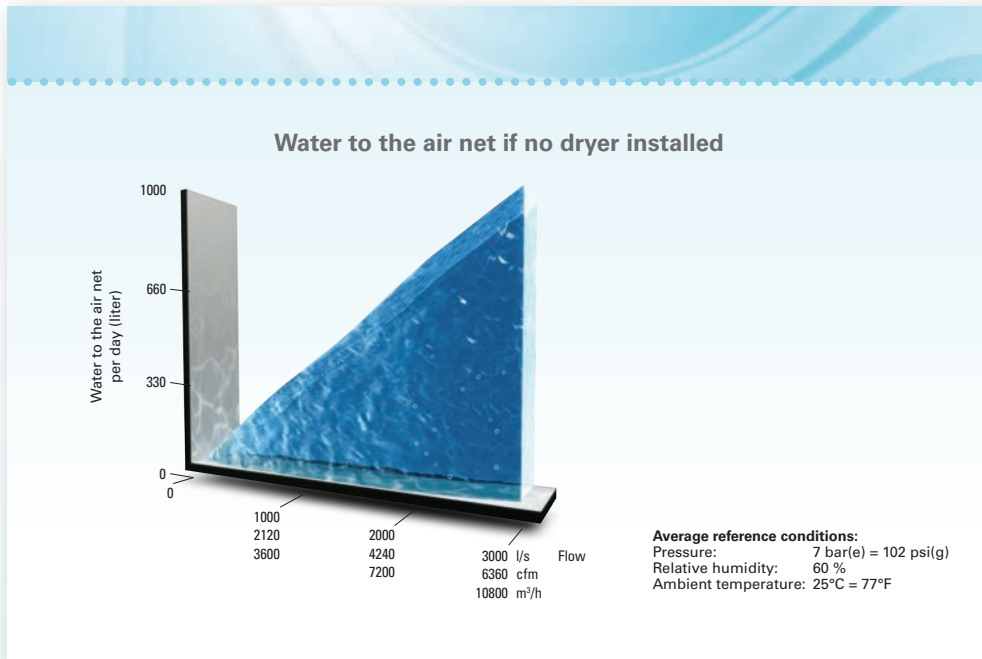
Sustainable Productivity

Atlas Copco

The ultimate protection of your compressed air system

Clean and dry compressed air: it is crucial to power up your busy production environment. While superb quality air is an essential ingredient for the success of your plant, untreated air may cause extensive damage and lead to serious performance degradation. To protect investments, equipment, production processes and

end products, all plants need basic air treatment solutions. More critical applications need enhanced solutions to meet air quality requirements. Atlas Copco presents a full range of innovative air treatment equipment to meet and exceed the quality requirements of your specific application.



SUPREME ENERGY AND COST SAVINGS

Keeping a firm grip on costs is one of your main concerns. Atlas Copco's quality air solutions stand for important energy savings all day, every day, year in, year out. Taking technology to a whole new level, filters and dryers achieve maximum cost savings, allowing you to conduct a truly efficient energy reduction strategy.



EXCEPTIONAL CONVENIENCE

From small workshops to environments with highly fluctuating ambient temperatures, Atlas Copco's quality air solutions offer you the exact air treatment you are looking for. With small footprints, integrated state-of-the-art designs and complete monitoring capabilities, air treatment solutions provide exceptional benefits and conform to the most stringent requirements.



PROVEN PEACE OF MIND

Building on many years of experience in compressed air solutions and continuous in-depth research and development, Atlas Copco offers the widest selection of quality air solutions and application knowledge. With the protection of your compressed air investment in mind, Atlas Copco has designed its complete range to meet your current and future needs while providing the superb quality air according to the latest international standards.



The smart choice

WHY INVEST IN AIR QUALITY?

Clean and dry compressed air is vital to the life of your busy production environment. Containing moisture, aerosols and dirt particles, untreated compressed air poses a substantial risk as it can damage your air system, machinery and your end product.

Incorporating unique, patented technological innovations and extra energy-saving options, Atlas Copco's comprehensive range of filters and dryers provides you with the clean, dry air you need to expand the life of your equipment and ensure the quality of your end product.

Did you know? - A quarter-inch air leak at 100 psi can cost you around \$4,000 a year!

Hole diameter (inch)	1/24"	1/8"	1/4"	1/2"
Leakage (CFM)	2	21	57	222
Power loss at the compressor (hp)	0.4	4	11	44.25
Energy loss @ 24/7 (hp)	3,524	36,416	97,503	387,662
Annual costs* (\$)	\$176	\$1,820	\$4,875	\$19,383

*Assumes 1 hp = \$0.05

Compressed Air Contaminants

Dust particles
(from ambient air and/or desiccant)

Liquid water and water vapor

Liquid oil and oil vapor
(coming from oil-injected compressors)

Hydrocarbon vapor

Rust particles

Pipe scale

Acidic condensates



WHY OPT FOR QUALITY AIR SOLUTIONS FROM ATLAS COPCO?

- Nothing but top end components.
- Built to perform across a wide range of conditions.
- Superior control and monitoring.
- Designed using state-of-the-art tools and facilities.
- Based on years of extensive research and development.
- Manufactured using the most advanced production line and methods in the industry.

WHO IS BEHIND QUALITY AIR SOLUTIONS?

Backed by decades of expertise, Atlas Copco has the know-how to offer you total solutions for your specific processes. Atlas Copco is the only company with in-house expertise in

building the widest range of complete compressed air solutions from air compression to air treatment, air distribution and worldwide support.



Meeting your every demand

In almost all applications, contamination of the air supply can cause serious performance decline and increase maintenance costs in terms of actual repairs and lost productivity. Backed by extensive experience in developing a great variety of compressor types and technologies, and as market leader

HIGH-PERFORMANCE & RELIABILITY = DRY AIR

Refrigerant dryers

Removing moisture from compressed air in the harshest conditions, Atlas Copco's refrigerant dryers eliminate system failures and production downtime. Thanks to their pioneering technology, they ensure the lowest pressure drop and lowest energy consumption.



FX

- Simple to own and operate
- proven reliability
- 5-2374 CFM



FD

- Reliable even in hot ambient conditions
- Cycling control
- 5-1100 CFM
- 13-4240 CFM



FDVSD

- Variable Speed Drive (VSD) for extra energy savings.
- 1611-8480 CFM

ABSOLUTELY DRY AIR

Adsorption dryers

Atlas Copco's adsorption dryers eliminate the moisture completely before it can cause any damage. The complete range operates with total reliability, producing the desired pressure dewpoint even in the most difficult conditions.



CD/CD+

- Reliable dry air
- Pressure dewpoint: -40 degrees F (optionally -100 degrees F).
- 2-2968 CFM



AD

- Reliable dry air
- Pressure dewpoint: -40 degrees F (optionally -90 degrees F).
- 200-3100 CFM



BD/BD+ (Zero Purge)

- High drying efficiency, low energy cost.
- Pressure dewpoint: -40 degrees F (optionally -100 degrees F).
- 212-6360 CFM



MAXIMUM CONTAMINANT REMOVAL

Filters

All Atlas Copco filters are designed to provide a cost effective solution to prevent any kind of contamination in the compressed air to leave the compressor, with delivered air quality to the latest international standards and with the lowest operational costs.

- Elimination of all types of contamination.
- Minimal pressure drop.
- Silicon free filters available for painting applications
- 19-14840 CFM



Nitrogen Generators



in providing high-quality compressed air solutions, we can offer you the perfect solution for your specific application. Atlas Copco's wide range of quality air solutions is engineered to cost-effectively provide the best quality air and meet today's increasing quality demands.

DRY QUALITY AIR AT MINIMAL COST

Heat of compression dryers

As they use the heat of the compressed air, these unique adsorption dryers are extremely energy-efficient quality air drying systems. They offer the best of both worlds for applications that use processes requiring high quality dry air with minimal energy consumption.



MD/ND

- Top quality dry air with low running costs.
- 445-5300 CFM



XD

- Heat of compression regeneration.
- Twin tower design.
- 2967-14409 CFM



PERFORMANCE AT POINT OF USE

Just the right amount of dry air exactly where it is required

Membrane dryer



SD

- Custom-built performance.
- Clean air in extreme conditions.
- 6-75 CFM

Heatless desiccant dryers



CD+

- Efficient dry air.
- Pressure dewpoint: -40 degrees F (optionally -94 degrees F).
- 1-307 CFM (at point of use)

SMALL COMPONENTS, HUGE RESPONSIBILITY

Oil-water separator – Electronic water drain

- No waste of compressed air.
- Considerable energy savings.
- Simple, reliable & safe operation.
- Easy to install & maintain.



OSC

- Separation of compressed air condensate.
- Exceptional performance.
- 138-9400 CFM



EWD

- Safe & economical condensate management.
- Dependable & economical.
- 140+ CFM

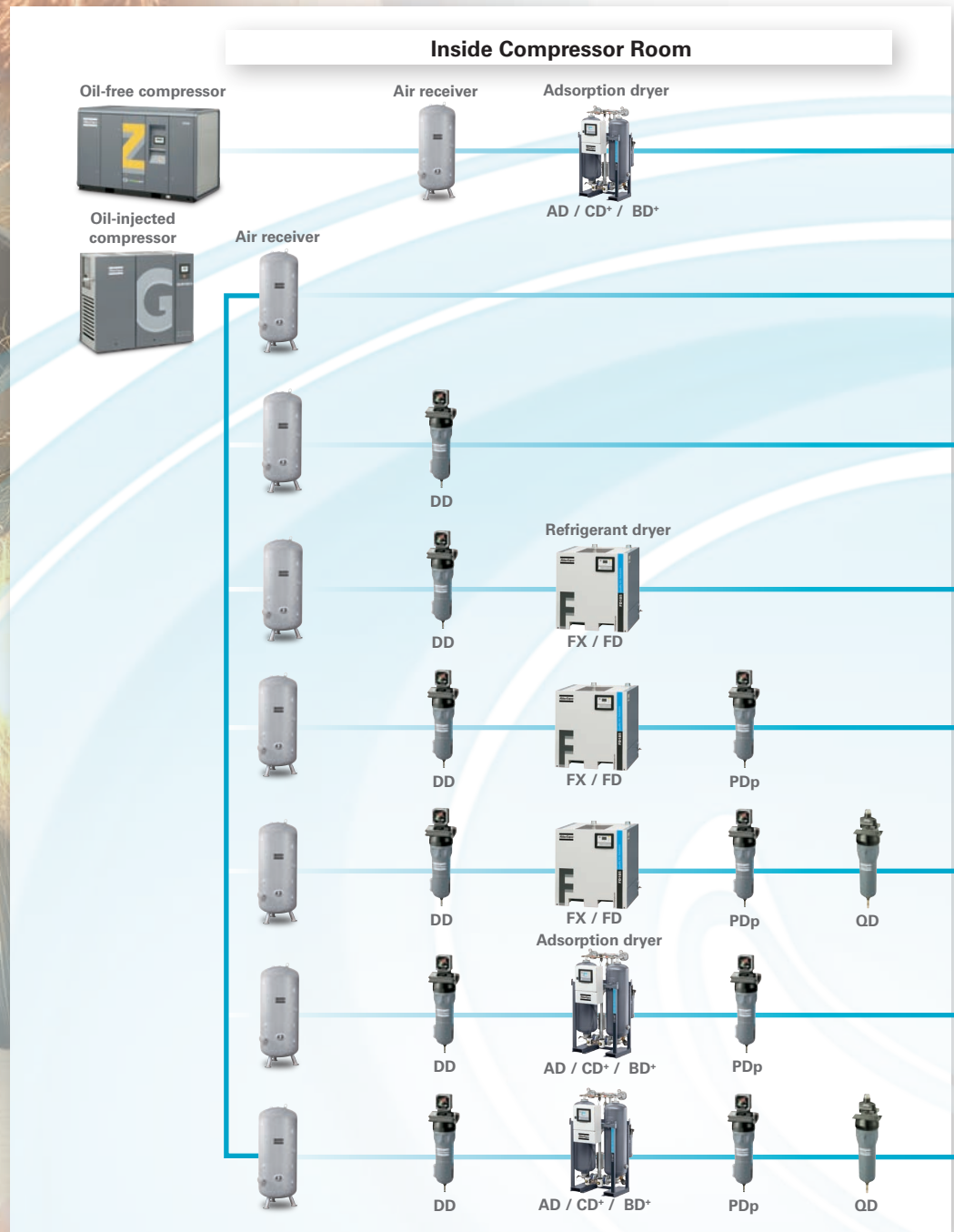
NG

- Proven technology, simple, reliable and durable.
- Your own independent on-site supply of nitrogen.
- Continuous availability.
- 318-3619 SCFH



COMPRESSED AIR PURITY ISO 8573-1: 2010

The international standard for compressed air purity provides a system of classification for the three main contaminants present in the compressed air systems: dirt, water and oil. As member of the ISO committee, Atlas Copco designs filtration solutions to provide compressed air purity that meets or exceeds the levels shown in the standard above.



air configurator

ISO 8573-1:2010	Dirt				Water		Oil
	Maximum number of particles per m³			Mass concentration mg/m³	Vapor pressure dewpoint	Liquid g/m³	Total oil (aerosol liquid and vapor) mg/m³
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron				
0	As specified by the equipment user or supplier and more stringent than Class 1						
1	≤ 20000	≤ 400	≤ 10	-	≤ -70°C/-94°F	-	0.01
2	≤ 400000	≤ 6000	≤ 100	-	≤ -40°C/-40°F	-	0.1
3	-	≤ 90000	≤ 1000	-	≤ -20°C/-4°F	-	1
4	-	-	≤ 10000	-	≤ +3°C/+37.4°F	-	5
5	-	-	≤ 100000	-	≤ +7°C/+44.6°F	-	-
6	-	-	-	≤ 5	≤ +10°C/+50°F	-	-
7	-	-	-	5 - 10	-	≤ 0.5	-
8	-	-	-	-	-	0.5 - 5	-
9	-	-	-	-	-	5 - 10	-
X	-	-	-	> 10	-	> 10	> 10

Outside Compressor Room

BEFORE

AFTER



ISO 8573.1 CLASS 0
Oil-Free and Clean Air

Quality Class **3.-.5**
Low Grade Air



Quality Class **1.2.1** or **1.1.1**
Air suitable for contact
with consumables

Quality Class **2.-.2**
Low Grade Air



Quality Class **1.2.1** or **1.1.1**
Air suitable for contact
with consumables

Quality Class **2.4.2**
General Shop
AirTools
Sand Blasting Air



Quality Class **1.2.1** or **1.1.1**
Air suitable for contact
with consumables

Quality Class **1.4.2**
Paint Spraying
Powder Coating
Packaging Machines



Quality Class **1.2.1** or **1.1.1**
Air suitable for contact
with consumables

Quality Class **1.4.1**
Food Industry
Pharmaceutical &
Chemical Laboratories



Quality Class **1.2.1** or **1.1.1**
Air suitable for contact
with consumables

Quality Class **1.2.1** or **1.1.1**
Outdoor Pipelines
Electronics Industry
Laboratories

Quality Class **1.2.1** or **1.1.1**
Dairy Industry
Breweries



As leader in the field of oil-free air compression technology, Atlas Copco has become the first manufacturer to be awarded ISO 8573-1 CLASS 0 certification for its Z, AQ and SF series of oil-free compressors. Only oil-free compressors deliver oil-free air.



Driven by innovation

With more than 135 years of innovation and experience, Atlas Copco delivers the products and services to help maximize your company's efficiency and productivity. As an industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous innovation, we strive to safeguard your bottom line and bring you peace of mind.



Building on interaction

As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.



A committed business partner

Our commitment to you does not simply end when your Atlas Copco products have been delivered and installed. We have an extensive range of aftermarket services to offer you continued support, whenever you need it. With a presence in over 160 countries, we can deliver high-quality customer service anytime, anywhere. Our highly skilled technicians are available 24/7 to answer any queries you may have. And all of this is backed by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. With Atlas Copco you can rest assured that your sustainable productivity will always be our first concern!

www.atlascopco.us

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