ATLAS COPCO

INFOCUS

Smart AIR Solutions

from ATLAS COPCO

We designed a complete air system fully optimized to work better together to provide you with an energy-efficient solution.

THE ANNUAL CUSTOMER MAGAZINE FROM ATLAS COPCO EGYPT

Atlas Copco

ISSUE 2017

EDITORIAL

Dear Partners,

I'd like to introduce myself as the new Regional General Manager for Atlas Copco Egypt & Levant area – My mission started since August 2016 & I have the honor to address this edition to all of you, shedding light on our spectacular innovative products & latest technology providing sustainable productivity solutions in all your industrial segments.

I'd like to give special focus on our dedication & commitment to your SATISFACTION and keep on meeting your expectations which is our main goal around the clock, where we always strive to reach in a professional and high level of services from our entire team.

I am looking forward to interact with you personally by listening to your advices, demands, needs and even to your concerns so ***I & my team can continuously improve our level of products and services offered to your company.***

I am confident that we will overcome the forthcoming challenges within the current economic volatility we face together as strong business partners of long lasting relationship & mutual continued trust.

Last but not the least, rest assured that we value your business & are committed to your sustainable productivity coz ***YOUR business is our business.***

Samer BaniNaser
Regional General Manager
Egypt & Levant Area

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ATLAS COPCO IN FOCUS

A magazine from Atlas Copco Egypt

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BOOST YOUR AIR AND GAS SUPPLY

OIL-FREE BOOSTER UP TO 200 BAR

The oil-free booster is ideal for oxygen bottling for peak or emergency use in healthcare facilities.

DO YOU USE BOTTLED OXYGEN, NITROGEN, HELIUM OR ARGON?

Producing and storing your own gas supply is the cost-effective solution. It also ensures your independence from vendors. Atlas Copco's 200-bar booster delivers the high pressure you need to bottle the gas you generate. It can also be used for applications that require high-pressure air or gases, such as PET bottling or laser cutting. 100% oil-free, the booster avoids any risk of contamination in production environments that demand extreme purity.

OXICOMP OIL FREE BOOSTER UP TO (200 BAR)

BOTTLED OXYGEN SUPPLY FOR HEALTHCARE FACILITIES

STRONG PERFORMANCE
- 100% oil-free air.
- Cooling by internal refrigerant group allows for ± 20 °C/68 °F outlet temperature.

FLEXIBLE USE
- Compress air, oxygen, nitrogen, helium or argon up to 200 bar.
- Available in 3 kW to 15 kW models.
- High pressure generation for direct use and bottling.

ENERGY EFFICIENT
- Variable frequency drive through in- and outlet pressure.

EXTREMELY RELIABLE
- DirPandel Go to the Lead Cross eliminates belt wear.
- Closed system prevents any ventilation losses.

MINIMAL MAINTENANCE
- Extremely low RPM.

TECHNICAL SPECIFICATIONS

Models	Configurations	Feeding flow	Input pressure		Load pressure		Flow (± 10%)		Filling time cylinder (± 10%)
		l/min	bar	psi	bar	psi	m³/h	l/h	
Oxicomp 2 2.2 kW single phase (2.95 hp) 28 RPM – 230 V – 50/60 Hz	A B C	11.2 22.5 33.4	1 2 3	14.5 29 43.5	170 170 170	2465 2465 2465	0.7 1.3 2	700 1300 2000	2-liter cylinder 12 minutes
Oxicomp 3 3 kW three phase (4.02 hp) 28 RPM – 230-400 V – 50/60 Hz	A B C D	28 42.2 56.2 70.3	2 3 4 5	29 43.5 58 72.5	170 170 170 170	2465 2465 2465 2465	1.7 2.5 3.4 4	1700 2500 3400 4000	10-liter cylinder 30 minutes
Oxicomp 4 4 kW three phase (5.36 hp) 24 RPM – 230-400 V – 50/60 Hz Variable frequency drive	A B C D E	41 62 82 102 123	2 3 4 5 6	29 43.5 58 72.5 87	200 200 200 200 200	2900 2900 2900 2900 2900	2.5 3.7 5 6 7	2500 3700 5000 6000 7000	10-liter cylinder 17 minutes
Oxicomp 10 7.5 kW three phase (10.05 hp) 14 RPM – 230-400 V – 50/60 Hz Variable frequency drive	A B C D E	93.2 139.9 186.4 233 251.7	2 3 4 5 5.4	29 43.5 58 72.5 78.3	200 200 200 200 200	2900 2900 2900 2900 2900	5.6 8.4 11.2 14 15	5600 8400 11200 14000 15000	50-liter cylinder 40 minutes
Oxicomp 12 15 kW three phase (20.1 hp) 12 RPM – 230-400 V – 50/60 Hz Variable frequency drive	A B C D E	169 253.5 338 422 507	2 3 4 5 6	29 43.5 58 72.5 87	200 200 200 200 200	2900 2900 2900 2900 2900	10.1 15.2 20.3 25.3 30	10100 15200 20300 25300 30000	50-liter cylinder 20 minutes

FLIP THE PAGE TO KNOW MORE ..

WAVE OF INNOVATION 2016

OIL-INJECTED ROTARY SCREW COMPRESSORS

GA 30-75VSD+

- Industry leading FAD & SER
- Expanding the VSD+ concept and success

GA30-45

- Increased FAD
- Reduced noise level
- Reduced cost

G2-7 & G7-15

- New electronic controller
- Introduction of 15KW
- Increased FAD

THE IDEAL SMALL BUSINESS COMPRESSOR

THE NEW G-SERIES

The latest-generation G-series comes with Atlas Copco's powerful rotary screw element and an advanced electronic controller on the G 7-15 EL to go above and beyond the call of duty.

BUILT-IN RELIABILITY

- Atlas Copco's patented rotary screw element allows for a 100% duty cycle.
- The complete unit is designed to operate at ambient temperatures of up to 46 °C/115 °F.

EASY INSTALLATION

- Available in multiple configurations – including floor or tank mounted and with or without integrated dryer.
- Extremely small footprint and cooling air discharge from the top

ROBUST AND EFFICIENT COMPRESSION ELEMENT

Atlas Copco's trusted rotary screw element offers an increased free air delivery by up to 3% compared to the previous models.

ADVANCED MONITORING

The G 7-15 EL's new BASE controller offers advanced monitoring and control:

- Icon-based display, pressure settings, temperature reading.
- Running hours/hours working @ load.
- Service warnings.
- Outlet pressure setting directly on the controller.
- Pressure and element outlet temperature reading.

HIGH RELIABILITY AND SMART ENERGY

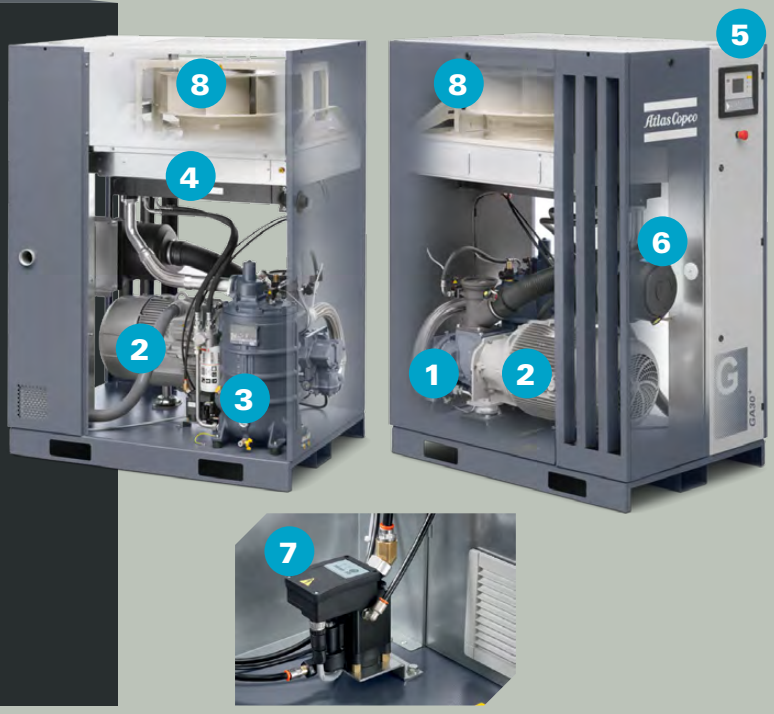
- ***Motor: SER -2%***
- ***Transmission: SER -1%***
- ***Element: SER -3%***
- ***Sentinel: SER -1%***
- ***Optimal efficiency***
- ***Optimized cooling***
- ***Maintenance-free, reliable***
- ***Compact***
- ***Silent***

HIGH RELIABILITY AND SMART ENERGY

GA +30 & GA 45/37

THE ULTIMATE SMART SOLUTION, DRIVEN BY EFFICIENCY

Atlas Copco's GA 30+-90 compressors bring you outstanding sustainability, reliability and performance, while minimizing the total cost of ownership. A choice of three premium compressor types (GA VSD, GA+ and GA) provides you with the compressed air solution that perfectly matches your requirements with clear value propositions. Built to perform even in the harshest environments, these compressors keep your production running efficiently.



1 MAINTENANCE-FREE DRIVE SYSTEM

- 100% maintenance-free; totally enclosed and protected against dirt and dust.
- Suitable for harsh environments.
- High-efficiency drive arrangement; no coupling or slippage losses.
- Standard up to 46˚C/115˚F and for high ambient version 55˚C/131˚F.

2 IE3 / NEMA PREMIUM EFFICIENCY ELECTRICAL MOTORS

- IP55, insulation Class F, B rise.
- Non-drive side bearing greased for life.
- Oil lubricated drive side bearings.

3 ROBUST SPIN-ON OIL FILTER

- High-efficiency, removing 300% smaller particles than a conventional filter.
- Integrated bypass valve with the oil filter.

4 SEPARATE OVERSIZED OIL COOLER AND AFTERCOOLER

- Low element outlet temperatures, ensuring long oil lifetime:
- Removal of nearly 100% condensate by mechanical separator.
- No consumables.
- Eliminates possibility of thermal shocks in coolers.

5 ADVANCED CONTROL & MONITORING VIA ELEKTRONIKON®

- Integrated smart algorithms reduce system pressure and energy consumption.
- Monitoring features include warning indications, maintenance scheduling and online visualization of machine's condition.

6 HEAVY-DUTY AIR INTAKE FILTER

- Protects the compressor components by removing 99.9% of dirt particles down to 3 microns.
- Differential inlet pressure for proactive maintenance while minimizing pressure drop.

7 ELECTRONIC NO-LOSS WATER DRAIN (FOR + VERSIONS)

- Ensures constant removal of condensate.
- Manual integrated bypass for effective condensate removal in case of power failure.
- Integrated with compressor's Elektronikon® with warning/alarm features.

8 RADIAL FAN

- Low noise level.
- High flows.
- Compact design.

COMPRESSED AIR DRYERS

F series refrigerant dryers

THE COMPACT AND EFFICIENT DRY AIR SOLUTION

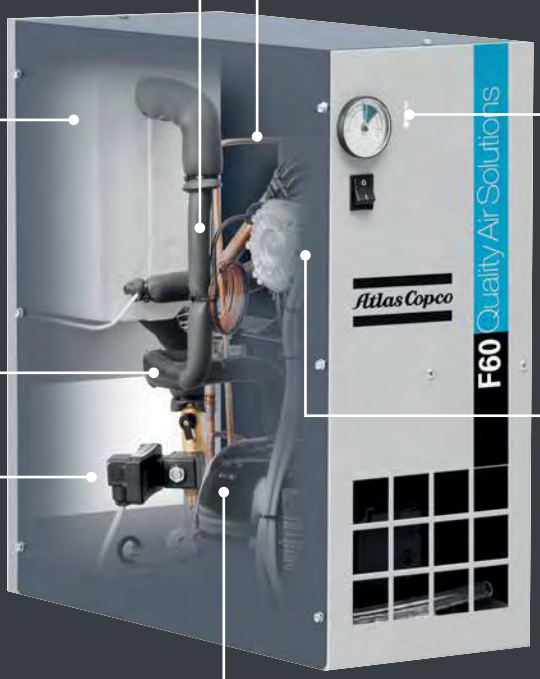
The Atlas Copco F series refrigerant dryers keep your compressed air system in optimal shape, removing humidity efficiently and reliably. With a stable pressure dewpoint as low as 7 °C, these compact, low maintenance dryers are compatible with most compressor technologies and applications.

Capillary tube
Reduces refrigerant pressure and temperature for improved cooling.

Refrigerant filter
Protects the capillary from dirt particles.

Air/air and air/refrigerant heat exchanger
Offer high thermal exchange and low load losses.

Integrated water separator
Ensures a very efficient water/air separation.



Control panel
Pressure dewpoint indicator and main on/off switch.

Hot gas bypass valve
- Injects hot compressor discharge gas into the suction/liquid separator.
- Keeps refrigeration capacity in all load conditions.
- Maintains constant pressure in the evaporator to avoid freezing.

Refrigerant condenser
Air-cooled and with a large exchange surface for high thermal exchange.

Timer drain
Ensures proper condensate draining.

Refrigerant compressor
Driven by an electric motor, cooled with refrigerant fluid and protected against thermal overload.

WHY DRY COMPRESSED AIR

The air that leaves a compressor reaches 100% humidity. Aftercoolers and drains are the first line of defense against water in your system.

Atlas Copco dryers eliminate the residual humidity to achieve absolutely dry air for applications that require advanced air quality.

FEATURES AND BENEFITS

Strong performance & reliability

- Stable pressure dewpoint as low as 7 °C.
- Simple and proven design.
- Quality components.

Quick installation & easy operation

- Compact footprint of only 0.13 m2.
- Simple vertical design.
- Quick plug-and-play installation.
- Dewpoint indicator to verify air quality.

Cost savings

- Efficient cooling system ensures low energy costs.
- Increased lifetime of tools and equipment.
- Fewer repairs to tools, machines and pipe work.

Low maintenance

- Long service intervals.
- Easy access to key components.

IS0 8573-1 CLASS 5 QUALITY

Thanks to their 7 °C/45 °F pressure dewpoint, Atlas Copco F dryers can be used for applications that require IS0 8573-1 Class 5 air quality.

Quality classes	Particle size	Maximum pressure dewpoint		Maximum oil content (droplets, aerosols, and vapor ppm)	
	microns	°C	°F	w/w	mg/m³
0	as specified	as specified		as specified	
1	0.1	70-	94-	0.008	0.01
2	1	40-	40-	0.08	0.1
3	5	20-	4-	0.8	1
4	15	3	38	4	5
5	40	7	45	21	25
6	-	10	50	-	-

REFRIGERANT DRYERS

Refrigerant dryers use a refrigerant gas to cool compressed air. This allows them to first condense and then remove the humidity in the air.

RECOMMENDED APPLICATIONS

- Pneumatic tools and equipment
- Pneumatic control systems
- Painting
- Packaging
- Injection molding
- Car mechanics
- Tire inflation

FOCUS = SUCCESS

OUR AMBITION IS TO BECOME THE GLOBAL LEADER IN VACUUM SOLUTIONS

Atlas Copco, a leading provider of sustainable productivity solutions, will establish a fifth business area, Vacuum Technique. The new business area will be operational from January 1, 2017 and have approximately 6 800 employees, including external workforce.

"Our ambition is to become the global leader in vacuum solutions," said Ronnie Leten, President and CEO of the Atlas Copco Group. "The global vacuum business is a growth area and by creating a separate business area with a dedicated organization the already strong customer focus will increase further.

New product launch

DZS – Claw vacuum pump

ATLAS COPCO LAUNCHES EFFICIENT DZS RANGE OF DRY CLAW VACUUM PUMPS, WITH LOW LIFECYCLE COSTS

Atlas Copco has developed a new dry claw vacuum pump to add to their portfolio, the DZS. Suitable for many applications, from central systems in hospitals to pneumatic conveying, CNC routing or milking parlors - the DZS is a durable, reliable solution. Claw vacuum pumps offer non-contact and dry pumping chambers with high performance and power efficiency, based on simplicity.

Manufactured on the fundamentals of Atlas Copco compressor design, these pumps feature innovative construction materials and coatings. With vacuum pumps most of the process gasses go through the pump; this has a tendency to cause premature failure which can be catastrophic. The DZS however features stainless steel claws and a corrosion resistant pumping chamber as standard - for reliable operation even in harsh conditions.

"We have worked for many years with claw technologies within the compressor and vacuum industries, and many thousands of reliable machines gives us a great reputation and affords us a wealth of knowledge and experience with such technologies," commented Koen Lauwers, Vice President Industrial Vacuum at Atlas Copco. "This is a pump built on simplicity and durability that will be with you for life."
You can learn more about the DZS dry claw vacuum pump range by visiting:

www.atlascopco.com/vacuum

For further information please contact:

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CONSULT

THE SPECIALIST

For a medical checkup, you would trust only a qualified professional. So why turn to anyone less than a specialist to assess a complex system like your compressed air installation?
An AIRScan audit gives you an expert diagnosis and a prescription for tangible improvements.

Finding Room For Improvement

AIRScan is a comprehensive audit of your entire compressed air installation, including energy input, air flow demand, system pressure, air quality, pressure drops, and more, over a significant period. Performed by highly trained Energy Consultants, AIRScan offers a reliable analysis and well-founded recommendations for energy efficiency improvements.

ASK YOURSELF…

What happens if I choose not to have an AIRScan?
You run the risk of missing out on a significant reduction of your energy consumption. A typical AIRScan identifies tangible measures that result in %30-25 energy savings.

What's the risk if someone else audits my system?
The risk is an incorrect analysis with unviable recommendations, leading to investments in solutions that do not pay off. Our dedicated Energy Consultants provide independent advice tailored to your circumstances, based on the latest insights and innovations in air compression technology.

What guarantee do I have of the quality of an audit?
AIRScan follows the ISO 11011 standard for compressed air energy efficiency assessments. This ensures that your complete installation is assessed based on a clearly defined framework. Moreover, if you have, or are considering, an ISO 50001 energy management system, the AIRScan audit can serve as your benchmark.

Do I need a full AIRScan audit?
Not necessarily. Our pre-assessment can determine if an AIRScan is sensible and what needs to be checked. However, you decide on the scope of an AIRScan. For instance: air flow, power consumption, leakages, air quality (ISO 8573, EN 12021 and European pharmacopeia), and maintenance review.

Clear, Thorough And Realistic

An AIRScan report provides a clear summary for decision-makers, as well as an in-depth evaluation of problems and solutions for your technical people.

Our unique audit software can simulate various configurations of your compressed air installation. This allows us to provide realistic projections on potential energy savings, as well as environmental and financial benefits.

"As predicted, implementing the AIRScan recommendations led to immediate energy savings and we soon recuperated the costs of the audit."

Go For Top Performance

Take the next step in energy efficiency. Call on the specialists to find out how your compressed air installation can deliver a world-class performance.

Contact your Atlas Copco representative today!

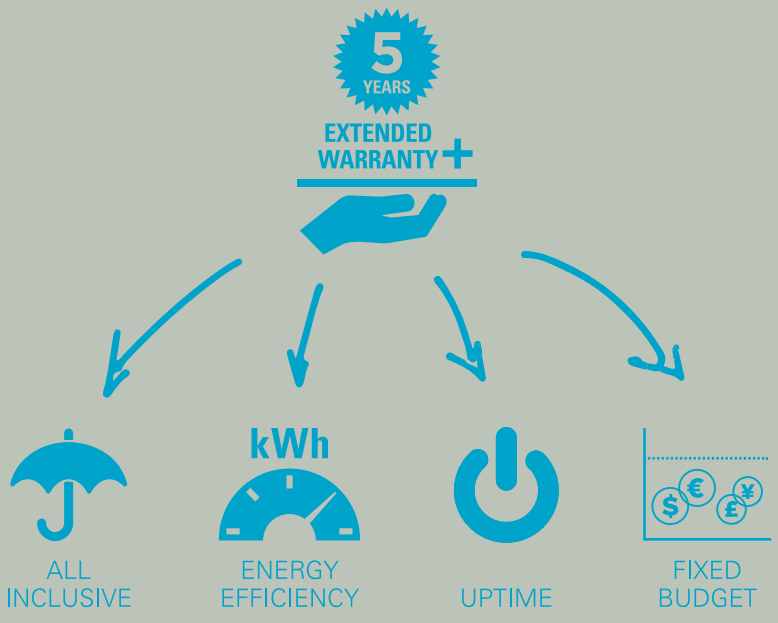
SET OFF ON THE RIGHT FOOT

Crossing The First 5 Years

The Extended Warranty+ Plan carries you safely and comfortably across the first five years of equipment ownership.
Because a good start is what you need to go the distance.
Enjoy five years of risk-free operation, sustained efficiency and maximum uptime.
Find out how you can minimizeyour total cost of ownership.

Extended Warranty+

You are at the start of a journey. The Atlas Copco equipment you've purchased will deliver the quality compressed air you need, for a very long time, efficiently and reliably. To make this journey successful, the perfect road map is offered to you by Extended Warranty+.



ASK YOURSELF…

What can happen in 5 years without a service plan?
Without service at the right intervals, component lifetime and system integrity will be compromised. Undetected problems could deteriorate and lead to damage. Eventually, these hidden costs will surface. With Extended Warranty+, service intervals are carefully planned from day one.

What are the consequences of a disturbance in my production?
Compressed air is a vital part of your production process. A small disturbance could lead to a production stop, lost business, wasted materials, product contamination… As an Extended Warranty+ customer, you are given top priority for urgent repairs.

How do energy costs affect my budget?
Energy consumption is the biggest part of the total cost of ownership for compressed air equipment. Without proper maintenance, pressure drops may occur, decreasing the system's efficiency. With Extended Warranty+, all consumables are replaced on time using genuine parts.

How important is knowing my costs in advance?
In 5 years, maintenance costs may fluctuate considerably. If an expensive repair comes up, this could seriously disrupt your budget. Extended Warranty+ covers all repairs and comes with a fixed annual cost.

A Bridge With Strong Foundations

The Extended Warranty+ Plan extends the standard warranty to five years, fully covering any repair costs that are not caused by customer negligence or unfit site conditions.

But Extended Warranty+ offers a whole lot more. It includes complete preventive maintenance by our experienced service teams, equipped with the latest product knowledge and the best service tools. Using genuine parts only, guaranteeing the integrity of your air system.

Every service intervention is carried out right on time, every time, according to the high quality standards of Atlas Copco.

"The Return on Investment of Extended Warranty+ for my GA160 was less than 12 months. Getting the right parts and service helps me to achieve %3 energy savings."

Start Your Safe Journey Now

The Extended Warranty+ Plan is a unique opportunity to enjoy five years of risk-free operation and preventive maintenance at a very competitive cost.

This offer is valid for all Atlas Copco compressors, dryers and ancillary equipment within the first year of the equipment purchase or before the first maintenance is due. Sign up now!

WASTE WATER TREATMENT INDUSTRY

Thanks to our extensive experience in delivering equipment for the waste water treatment industry around the world, we deliver oil free compressors & Blowers that match your specific needs for a wide range of applications

Atlas Copco blowers are mainly used in the subsurface aeration system of waste treatment plants in order to introduce air and providing an aerobic environment for microbial degradation of organic matter.

Yeast Fermentation:

Atlas Copco Low Pressure products are used in the fermentation process for adding the required oxygen into the fermentation tank.

Metal Industry:

Low pressure air is mainly used in the melting furnace for the combustion and after burn air.

Glass Industry:

Glass production has different process l which low pressure air is used for combustion, cooling and pneumatic conveying.

Mining:

Atlas Copco blowers are used to introduce the required oxygen into the rock piles in order to activate the biological process that helps to remove the minerals from the rocks.

Cement Industry:

Atlas Copco Low Pressure products are used in different application of cement industry for example:

- Airlift to transport raw meal into silos as well as fluidizing the silo.
- Feed of coal dust into Kiln by pneumatic transport.
- Providing of combustion air for the kiln.
- Pneumatic conveying to transport the final cement product to silos as well as fluidizing the silo.

ATLAS COPCO LOW PRESSURE FOR

ZS Screw Blowers:

Atlas Copco was so convinced on the performance of the ZS screw blower that shortly after launching it in 2009, they independently tested it against a tri-lobe blower by the Technische Überwachungs-Verein (German Technical Monitoring Association, or TÜV), according to the international standard ISO 1217, edition 4. It was proven that the ZS is 23,8 % more energy-efficient than a tri-lobe blower at 0,5 bar(e)/7 psig, and 39,7 percent at 0,9 bar(e)/13 psig. The efficiency of the ZS is mainly attributed to the superior screw technology.

The ZS is the latest addition to Atlas Copco's air blowing solutions, manufactured to the highest standards of quality and reliability.

The recently redesigned range of Atlas Copco positive displacement screw blower (ZS) is probably the most innovative and advanced screw blower available in the market, providing unrivalled energy savings and maximum efficiency.

This range is built as a complete unit, providing extremely reliable 100 % oil-free air (ISO 8573 Class 0 certified) with very low noise.

- On average 30% more efficient than lobe blower, which results in less energy cost.
- 40,000 hours lifetime guaranteed.
- All ZS are fitted with an integrated gearbox and flanged motors.
- Forced oil lubrication circuit.

Certificate

ET 333 2009 C2

This company

Atlas Copco Airpower n.v.

Oil-free division

Boomsesteenweg 957

B-2610 Wilrijk (Belgium)

made a comparison investigation of a screw blower and a tri-lobe blower each with variable speed drive under the supervision of TÜV Rheinland based on performance tests according the standard

ISO 1217, 4th. edition - Displacement compressors – Acceptance Tests.

The aim was to compare the performance data of the two blowers

- Atlas Copco ZS75+ 1250 VSD
- Atlas Copco ZL 3000 & VSD

Main results at working pressure 0,5 bar-e and 0,9 bar-e:

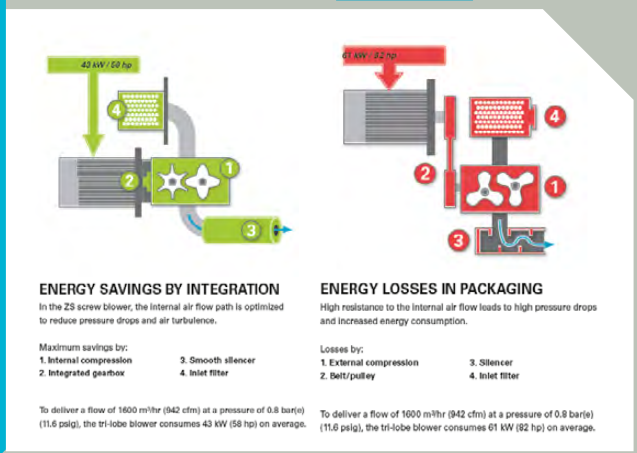
	ZS75 1250 VSD		ZL 3000 VSD		Delta SER
Tested capacity at outlet pressure	FAD (l/sec)	SER (J/l)	FAD (l/sec)	SER (J/l)	%
0,5 bar-e	446,9	64,82	448,5	86,10	-23,8
0,9 bar-e	435,1	103,56	431,7	159,3	-35,0

For detailed results see page 2 and in the test report no. ET-333-2009-1-1.

This certificate is valid until 30.09.2014.

Cologne, 12. October 2009

Test Centre for Energy Technology



ENERGY SAVINGS BY INTEGRATION

In the ZS screw blower, the internal air flow path is optimized to reduce pressure drops and air turbulence.

Maximum savings by:
1. Internal compression
2. Integrated gearbox
3. Smooth silencer
4. Inlet filter

To deliver a flow of 1600 m³/hr (942 cfm) at a pressure of 0.8 bar(e) (11.6 psig), the tri-lobe blower consumes 43 kW (58 hp) on average.

ENERGY LOSSES IN PACKAGING

High resistance to the internal air flow leads to high pressure drops and increased energy consumption.

Losses by:
1. External compression
2. Belt/pulley
3. Silencer
4. Inlet filter

To deliver a flow of 1600 m³/hr (942 cfm) at a pressure of 0.8 bar(e) (11.6 psig), the tri-lobe blower consumes 61 kW (82 hp) on average.

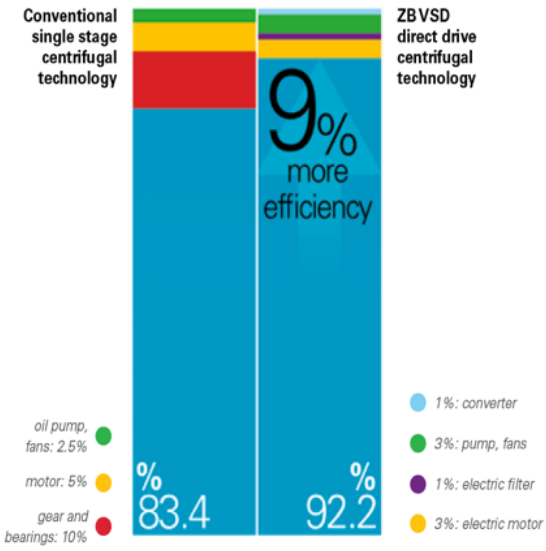
ZB Turbo Blowers:

The Atlas Copco ZB centrifugal air blower is completely innovative approach to low pressure compressed air application. Because of combination of revolutionary technologies, the ZB offer range of features and benefits that was previously impossible to continue into one machine.
The ZB VSD offers unparalleled savings in life cycle cost, small footprint and extremely low noise levels.

Every ZB blower is designed, manufactured and tested to comply with ISO 9001 certification. The totally enclosed motor with magnetic bearing is built to ensure continues operation and exceptional reliability in dusty and humid environments.

Fully compliant with ISO 14001 standards, the ZB range helps to reduce cost: the gearless and frictionless direct drive provides the highest air volume at lowest energy consumption. The integrated Variable Speed Drive (VSD) technology offers approximately 35% extra energy saving by automatically turning blower flow to the precise air demand.

The ZB direct drive arrangement offers increased simplicity and reliability by eliminating the traditional gears and oiling systems for on other compressors. Vibration, noise, and required floor space and weight are also reduced.



ZM Multistage Centrifugal

Air Blowers:

Atlas Copco's ZM oil-free multistage centrifugal blowers are working successfully in thousands of installations around the world, these reliable blowers are ideal for applications range from air to gas and pressure vacuum.

The ZM can be equipped with all necessary accessories such as motors, valves, filters and skid as well as local or networked control panels to ensure a complete working system.

ZM centrifugal blowers are built to last. Solidly constructed out of premium components they will run continuously with minimum maintenance requirements and unbeatable cost-effectiveness.

Each ZM blower package is built around proven Atlas Copco blower elements which have earned the reputation of being "the most reliable blowers" in the industry.

ZM oil-free multistage centrifugal blower elements were developed using the most advanced technology available. Tools including 3D Modelling, Computational Fluid Dynamics and Finite Element Analysis were used at the design stage to pinpoint areas where improvements could be made.

The resulting modern and innovative design allows for increased efficiency, while the wide product range and configuration options ensure we can offer the best solution possible to meet your needs.

DT Roots Blower:

The DT series is proving to be a trusted partner for the low pressure air process, the blowers are air-cooled single stage rotary lobe air blowers. The blower packages are completely assembled and equipped with interconnecting pipe work and fittings.

They include combined inlet filter/inlet silencer with pressure drop indicator, blower element, outlet silencer, outlet check valve, metal compensator on outlet flange, IP 55 electrical motor and belt drive system.

The sound enclosure is optional and reduces noise with approximate 22 db(A). The sound enclosure is made of steel and painted with a two-layer 2-component paint.

The sound enclosure is ventilated with an electric fan that exhausts the air from the canopy. The fan is driven by an IP55/TEFC induction motor.

All service points are easily accessible with the use of large door panels.

ZE/ZA Screw LP Compressor:

Especially in harsh and dusty environments, a reliable supply of 100% certified oil-free compressed air is critical to ensure production continuity. Atlas Copco's low pressure ZE/ZA compressors offer a constant air flow at minimal energy costs. Delivered ready for use, they come in all-in-one packages including a powerful controller, after cooler and integrated Variable Speed Drive (VSD). The compact design eliminates the need for extras and reduces installation to an absolute minimum, saving you time and money.

- Superior rotor coating developed over many decades combined with the optimum selection of bearings and seals ensure that Atlas Copco delivers a compression element focused on energy efficiency.
- Cooling jackets improve reliability and efficiency by ensuring rotor clearances are always kept to the absolute minimum.
- The Atlas Copco oil free compression element is manufactured with floating ring stainless steel air seals and wind back oil seals to ensure all Atlas Copco ZE/ ZA compressors are guaranteed and certified according to ISO8573 class 0.

GAIN NEW HEIGHTS IN SAVING

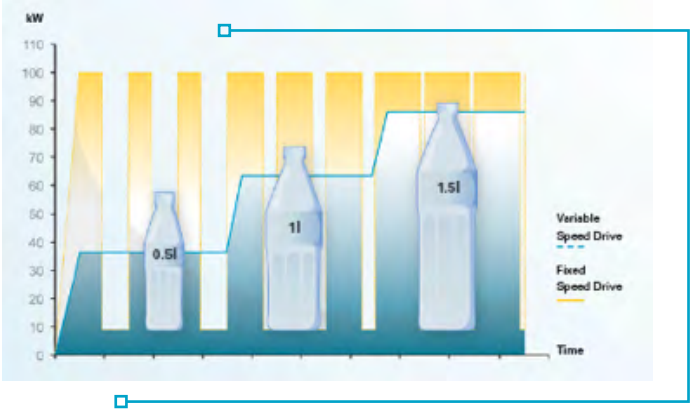
EFFICIENCY WITH THE NEW OIL-FREE ZD COMPRESSOR

THIS NEW ZD IS THE ANSWER FOR ALL YOUR HIGH PRESSURE 40 BAR APPLICATIONS.

Time to gain new heights. The highly energy efficient ZD compressor, with superior screw and booster technology, offers Class Zero quality air and is extremely silent with no vibrations.

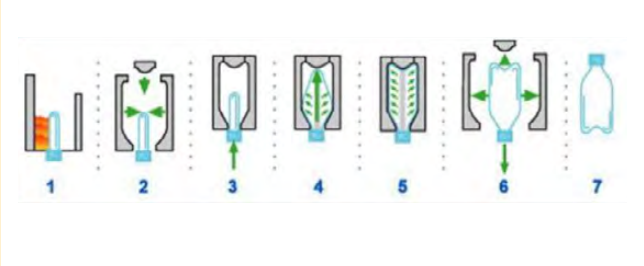
The air-cooled ZD provides you an exceptional reliability, no water consumption, while driving down investment and installation cost.
It all adds up to sustainable productivity for today's challenging low carbon economy.

You may have a fluctuating air demand, but you don't want it to have an impact on your costs. The ZD with VSD (Variable Speed Drive) provides the right answer. With VSD technology you obtain energy savings that will greatly downsize your electricity bill. By automatically tuning the compressor's capacity to the precise air demand, only a minimum amount of energy is required. The resulting energy savings benefit you as well as the environment, safeguarding a healthy future for the generations to come.



In a typical PET blowing operation, the molding machines form the production center piece, but they are surrounded by equally vital peripheral equipment such as cappers, labelers and instrumentation.

They too need a reliable quality air supply.ZD Xtendplus compressors come with a larger model screw compressor, ready to handle medium pressure in your production line, in addition to feeding the 40 bar booster. This approach saves substantially over extra standalone compressors. ZD Xtendplus VSD compressors are available in a variable speed drive version, for added flexibility and energy savings.



P COMPRESSOR

A complete solution without hidden costs

By combining the right mix of innovation, high-tech components and a simplified, user-oriented design, Atlas Copco's P compressor range is ready to be your partner for excellence.
P compressors give the highest possible quality and reliability for your process, while offering the lowest possible operational costs.
When looking into a new investment you study the delivered air quality, the reliability of the equipment and the energy savings it brings.Atlas Copco has taken these elements into account at design level. The result is a product which is focused on you as a customer.

PET bottle production

High-pressure oil-free performance

For PET bottle production, the total absence of oil or pollutants In process air is critical. Atlas Copco's P compressors not only Deliver high-quality air; they offer the reliability, efficiency and High productivity you expect from your equipment

Hydro power

Superior technology as a first choice

Hydro electricity is a renewable source of energy with rapid rate of growth worldwide. The sturdiness and uptime operation of the P compressors make them the first choice in the process of turbine dewatering and hydraulic circuit pressurizing.

Aeronautics

High-pressure that can be trusted

Test benches in the aeronautic industry require the best compressed air technology available. With their sturdy construction and trusted delivery of high-pressure oil-free air, P compressors are the ideal solution for these environments.

Food and non-food sectors

Filling a wide variety of requirements

High-pressure oil-free air is used in many sectors, such as PET containers for pharmaceuticals, cosmetics, home care products and food and solar energy and electronics. With their steady oil-free air flow, our P compressors are best equipped to serve these markets.

A complete solution without hidden costs. In many critical applications, oil contamination of the air supply causes serious productivity issues and increases costs.

Focusing on the protection of these applications as well as today's increasing quality demands, Atlas Copco offers high quality oil-free air.

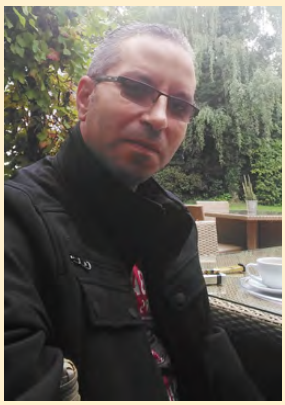
A reliable supply of compressed air is essential to ensure production continuity. Every P compressor is designed for 24-hour-a-day operation, year after year.

The Egyptian Ethylene and Derivatives Company (ETHYDCO) is an Egyptian joint stock company established on January, 16th, 2011 under Egyptian investment law with total investment cost of US $ 1.9 Billion.

ETHYDCO is a manufacturer and leading provider of value creating Plastics & Rubber products (Linear Low & High Density Polyethylene, Butadiene, Low Cis and Solution Styrene Butadiene Synthetic Rubber).

ETHYDCO Complex is currently under construction and expected to be on-stream in Q3-2016, ETHYDCO are having centrifugal compressors ZH10000 bought from Atlas Copco to reach their demand for the compressed air to run their factories, Believing in Atlas Copco Egypt resources and capabilities in the quality of our products as well as the highest quality of servicing, they have agreed to sign a service agreement for 4 years with us to increase the uptime of their compressors and also believing that it is the best way to run their compressors in the most efficient way.

P&G story of success



During a 20-year journey, Procter & Gamble Egypt's escalation was firm: Manufacturing facilities grew to cover more than 100,000 square meters, With these huge expansions, Procter & Gamble Egypt's production level and development have been immense. In 1990, P&G Egypt constructed the biggest synthetic detergent tower of its kind in the Middle East to produce Ariel, the Company's flagship detergent. Brand after brand followed almost annually. Today, the Company manages a portfolio of 14 brands out of the nearly 300 Procter & Gamble International brands.

Today, P&G Egypt is the country's biggest exporter of packaged goods, and one of the top-10 exporting companies, exporting to more than 34 countries in Africa, Asia and Europe.

P&G is one of the key customers to Compressor Technique Service CTS division– P&G has a planned service visits with Atlas Copco Egypt according to their production plan. However, sometimes our service team meet some emergencies with P&G due to the change in their production schedule –They were asked to carry out service jobs in different dates other than the preplanned service schedule.

CTS division planned for that job and prepared the suitable service team ready to execute the job with high quality at short time - our service team managed to reduce the production stopover period by working at week end vacation till late hour Which is, in turn, encountered by a considerable customer satisfaction for securing their production line with no delay.

The quality of the service provided met P&G over expectations which is driven by our service team loyalty and commitment.

Offering professional and timely service, through interaction and involvement enhance our conviction with the brand promise of achieving sustainable productivity to our stakeholders and emphasize our core values in every touch point with the customer.

" I'd like to thank Atlas Copco service team for the cooperation and flexibility during recent maintenance and also the quick response to our request of maintenance in record time. I really appreciate your continued support"

- **Said by Mr. Mansour Aly** - *Electrical Safety Leader at P&G*

CTS ACADEMY
MENA REGION
COMPRESSOR TECHNIQUE SERVICE
MENA TRAINING ACADEMY
Committed to competence development
Just Call us for training and feel the difference!
Mohamed Aly
Service ACademy Manager
Phone: +202 46140826
Mobile: +20 128 917 7005
E-mail: mohamed.aly@eg.atlascopco.com

Atlas Copco Compressor Technique Service Division (CTS) has established a regional training academy in Egypt responsible for providing training courses on Atlas Copco stationary compressed air systems within Middle East, North Africa and Pakistan region (MENAP).

The Academy is an extension of the CTS Divisional Academy in Atlas Copco Airpower-Belgium, with the same mission to ensure that people in the service organization within MENAP region have the correct competences by providing training packages and following up the results.

The training programs are available for Atlas Copco service employees and authorized distributors to deliver better service to our customers.

In addition, As Atlas Copco cares about customer's productivity and investment, the academy offers effective and world-class training programs for customer's operation and maintenance teams to achieve sustainable productivity and risk free operation.

According to customer's needs, the academy will customize the suitable training program to improve customer's knowledge about compressed air systems for a higher productivity and efficiency.

Technical training

Inauguration

Sales Training

Academy Practical Area

HILIGHT RANGE
Your site. Your light.

A HiLight

FOR EVERY NEED

The HiLight range of light towers were designed to offer the widest choice when it comes to finding the light tower that is right for your application. We provide a wide range of industries with a flexible and dynamic set of lighting options, while addressing all aspects of efficiency and safety. You can also be assured of the robust build quality and compact size for which Atlas Copco is globally recognized.
Atlas Copco have really put their innovation stamp on LED technology. The lenses in our LED light towers have a very special optic designed specifically for construction and mining applications.
This innovative, fully directional, LED lens design means we maximize the light coverage and reduce "lighting waste". A single HiLight tower can cover an area of up to 5.000 m2 with a 20 lux (brightness) average – ensuring a brighter, safer andmore productive site.

The HiLight V4 and V5+ include a HardHat® canopy as standard, which ensures maximum protection of internal parts. This range of light towers is perfect for multiple drop rental applications and providing users a robust and easy to transport set of lighting options that match any site requirements. The extended safety features also guarantee the protection of bulbs during transportation.

EXTRA SAFETY FEATURES
Manual vertical mast

LAMP DURABILITY / LIFE EXPECTANCY
Metal Halide 6.000 Hrs

TRANSPORT EFFICIENCY
16 ut
13m Truck

LAMP DURABILITY / LIFE EXPECTANCY
LED 30.000 Hrs

LIGHT COVERAGE M² (Average 20 luxes)
4.000

FUEL CONSUMPTION
2 l/h

ADDITIONAL FEATURES
HardHat®
Spillage free frame

FUEL CONSUMPTION
0,7 l/h

LIGHT COVERAGE M² (Average 20 luxes)
5.000

THE AMAZING NEW 8 SERIES

The 8 series is the latest product launched in-line with the **Forward-Thinking** philosophy of the Portable Energy division

Anytime, any product you can contact us.

We'll help optimize your investment to maximize your productivity.
Servicing your machines regularly is very important to ensure reliable operation and long service life

8 STEP SIMPLE SERVICE

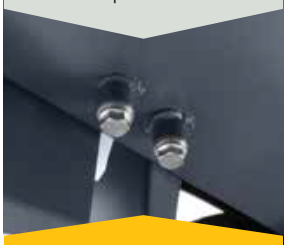
1

Draining
all liquids

Centralized
draining point

2

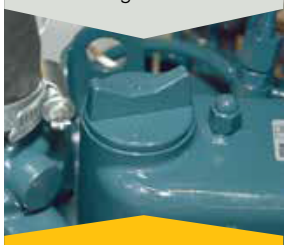
Drain and replace
compressor oil



Accessible drain point
below vessel

3

Drain and replace
engine oil



Easy inlet pour

4

Replace engine
air filter

Easy clip in
changeable filter

5

Replace compressor
air filter

Easy clip in
changeable filter

6

Replace engine
oil filter

Easily
accessible spin on
engine oil filter

7

Replace compressor
oil filter

Easily
accessible spin on
compressor oil filter

8

Replace compressor
separator element

Easily
accessible spin on
separator element

ALL THIS CAN BE DONE IN MINUTES – NOT HOURS, WITH NO SPECIAL TOOLS NEEDED

PORTABLE ENERGY SOLUTIONS

PORTFOLIO

AIR COMPRESSORS

READY TO GO
- 5-1 m³/min
- 12-7 bar

VERSATILITY
- 22-7 m³/min
- 20-7 bar

PRODUCTIVITY PARTNER
- 64-19 m³/min
- 35-10 bar

Diesel and electric options available.

GENERATORS

PORTABLE
- 13,9-1,6 kVA

MOBILE
- 1250-9* kVA

INDUSTRIAL
- 1250-10* kVA

*Multiple configurations available to produce power for any size application.

DEWATERING PUMPS

ELECTRIC SUBMERSIBLE
- 16.500-275 l/min

DIESEL DRIVEN CANOPY
- 9833-833 l/min

DIESEL DRIVEN OPEN FRAME
- 7500-3300 l/min

LIGHT TOWERS

LED

METAL HALIDE

SOLAR

ATLAS COPCO SPECIALTY RENTAL LAUNCHES PTS 800

- Our equipment will be delivered quickly and in excellent condition.
- Whatever you rent comes with a flexible premium service to meet your exact needs.
- That is how we make sure our technical answer will help you realize your objectives.
- Our triple certification gives you the strictest quality, environment, health and safety assurance.

Our 100% oil-free rental range introduces the brand new PTS 800 compressor now, ready to create a secure airflow to fit your specific need. Companies looking for a complete oil-free air solution that gives them peace of mind for all their critical applications can now rely on a truly matching set-up.

100% MADE FOR INDUSTRIES

With the new state-of-the-art PTS 800, designed to deliver reliable air quality for flows up to 800 cfm, our range of oil-free rental compressors is now more complete.

In the world of 100% oil-free air, this means you are able to generate the matching airflow for your specific applications in any industry with optimal efficiency, whatever your required flow rate is.

TAKING SUSTAINABILITY FURTHER

At the heart of the new PTS 800 is an engine conform to the latest emission standards, bringing levels of emission to minimum. This guarantees optimal fuel efficiency and offers full regulation compliance. With this new unit, we take a step further towards environmentally friendly solutions.

100% SAFE

The PTS 800 is, like its family members (PTS 1600, PNS 1250, PTE 1500), a Class Zero compressor. According to ISO 8573-1 CLASS 0, it produces air without any risk of contaminating your product with oil.

TOTAL SOLUTION

As for every project, we take care of; the PTS 800 comes with all the necessary accessories.
We can also handle for you the entire project management from design of the temporary compressed air solution to installation, maintenance and commissioning of our products.

The PTS 800 will be available for rental from December 2016 in selected countries and during the coming year to all countries. Contact your local Atlas Copco Rental company for more information.

For more info - please visit:
http://www.atlascopco.ae/en-ae/Rental

DID YOU KNOW ?

"A drop of water can save a life"

Water for All

ATLAS COPCO Emplyees started a non-profit organization in 1984 that provides clean water to almost two million people.

BE A GOOD CORPORATE CITIZEN

This is what we believe in, and by trying to give back to our community, we contacted a very well established & known organization in Egypt to help us deliver fresh & clean water to remote villages in Egypt where no clear water is accessible to them and the trip of water is not so easy to take.

Our project is in motion now that we collected the donations from our employees on monthly basis throughout 2016 Atlas Copco will contribute by paying DOUBLE of whatever collected from the employees.

The collected sums from employee donations and Atlas Copco are the life line of the "Water for All" project and we are very proud of the level of commitment and participation of our people.

Our hope is to be able to reach out and help those who are less fortunate, and improve their quality of lives, which improves our sense of belonging to this community and country even more.

http://www.water4all.org/us/

ATLAS COPCO EGYPT PARTICIPATE ANNUALLY AT THE SWEDISH NATIONAL DAY

EMBASSY OF SWEDEN

Cairo

The colours of Sweden, intercultural displays and information on Sweden's engagement around the globe filled the Embassy's courtyard and garden during the National Day of Sweden reception at the Embassy of Sweden in Cairo on Tuesday, May 31st, 2016.

More than one thousand attendees ranging from officials to businessmen/women, students and representatives of civil society, cultural institutions and media attended the event.

2016 National Day celebrations in Egypt focused on Sweden's global commitment, as a part of presenting Sweden's candidature for a non-permanent seat on the United Nations Security Council 2017/18.

In her speech for the National Day, the Ambassador of Sweden Ms. Charlotta Sparre highlighted the good relations between Sweden and Egypt, both on a bilateral and a multilateral level, including in the UN.

In connection to the reception, the Embassy created exhibitions that highlighted Sweden's role in the UN, and on peace & security efforts, development cooperation, gender equality, climate change & environment, sustainable business and global trade, as well as presentations of some Swedes who play or have played important roles on the international arena. There were also exhibition materials on Swedish innovations, culture and holidays, among other topics.

Several displays had a playful intercultural touch, among them one seating area that showcased the Swedish phenomenon "fika," (to take a break to have coffee and sweets with friends or colleagues) and one of a traditional Egyptian "ahwa" or coffee shop in the Swedish colours.

During the reception, the Ambassador of Sweden Ms. Charlotta Sparre presented awards to the winners of Graphic Design Competition arranged by the Embassy, which had challenged participants to use Swedish design concepts to portray something Egyptian.

Atlas Copco Egypt sponsored the first gift provided to "Mohamed Alaa" who won the contest with a minimalistic, elegant design that played on the great history of Egypt, the colours of Sweden, as well as on the eternal cycle of day and night..

Throughout the evening, the Egyptian brass-band El Nafikha played hit tunes from the Swedish band ABBA.

The Swedish National Day 2016 was organized in collaboration with the Swedish companies in Egypt: Atlas Copco, ABB, Baxter, Electrolux, Ericsson, Gamma Knife Center, Novelari, Oriflame, Scania, SKF, Swedish Group, Tetra Pak, Volvo, Absolut, and Ikea.

RAMADAN IFTAR

Atlas Copco Egypt arranged Ramadan Iftar 2016 at Royal Maxim Palace KEMPINSKI" Park where all the staff gathered & spent a magnificent time and festive night together.
It was the first event sharing with the new Regional General Manager- Samer BaniNaser for Atlas Copco Egypt – who started his mission since August2016.

ATLAS COPCO EGYPT
WISHING YOU A PRODUCTIVE EFFICIENT YEAR 2017!

Looking for a temporary supply of air, nitrogen,
steam, or power?
We have it all, available 7/24.

visit our website:
www.atlascopco.com.eg

Sustainable Productivity

Atlas Copco

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.

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Follow us at: facebook.com/atlascopcoegypt
Visit us on: www.atlascopco.com.eg

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Gemayel AVE. - Jdeideh Al Maten Beirut - Lebanon
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