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Setting the standard in energy efficiency, safety and reliability

The shortest route to superior productivity is to minimize operational cost while maintaining an uninterrupted supply of the right quality of air. The Atlas Copco Z compressor series is focused on effectively saving energy, ensuring product safety – only oil-free machines exclude contamination risks for 100% – and guaranteeing the utmost reliability around the clock. And not just today, but day after day, year after year, with minimal maintenance cost, few service interventions and long overhaul intervals.



Pioneering oil-free air technology

The ISO 8573-1 CLASS 0 certification means zero risk of our products contaminating the compressed air. This means we won't damage your company's hard-won professional reputation due to oil contamination from our oil-free products.



Maximum energy efficiency

The ZR/ZT's superior oil-free screw elements provide the optimum combination of high Free Air Delivery (FAD) with the lowest energy consumption.

Ample sized cooling, low pressure drops and an extreme efficient drive train result in the highest compressor package efficiency.



The most complete package

With the ZR/ZT compressor, Atlas Copco provides a superior solution without hidden costs. The totally integrated, ready-to-use package includes internal piping, coolers, motor, lubrication and control system. The Full Feature version even integrates an IMD adsorption dryer for an impeccable end product. Installation is fault-free commissioning time is low and no external instrument air is required. You simply plug and run.



Lowest possible operating costs

Our aftermarket product portfolio is designed to add maximum value for our customers by ensuring the optimum availability and reliability of their compressed air equipment with the lowest possible operating costs.



Local service

We deliver a complete service guarantee through our extensive service organization, maintaining our position as leader in compressed air.



Having the right air quality protects your production

Compressed air is used in a wide variety of manufacturing and commercial operations. Air is generated from the ambient atmosphere around the compressor and typically would contain contaminants in the form of dust and water which are two naturally occurring impurities while a third impurity which is oil typically gets added to compressed air due to the compression process. Oil though can be avoided/eliminated by using our 100% oil-free compressors.





100% oil-free compressed air

For over 60 years Atlas Copco has pioneered the development of oil-free air technology. Resulting in the largest range of air compressors and blowers within our industry. Through continuous research and development, we achieved a new milestone, setting the standard for air purity as the first manufacturer to be awarded ISO 8573-1 CLASS 0 certification. CLASS 0 certification means zero risk of oil contamination from our products.

Air treatment

Untreated compressed air contains moisture and possibly dirt particles that can damage your air system and contaminate your end product. The resulting maintenance costs far exceed air treatment costs. Atlas Copco believes in effective prevention and provides a complete range of air treatment solutions to protect investments, equipment, production processes and end products.





Avoid downtime

Low quality air heightens the risk of corrosion, which can lower the life span of production equipment. The air treatment solutions produce clean air that enhances your system's reliability, avoiding costly downtime and production delays. Compressed air coming into contact with your final products should not affect their quality. Atlas Copco provides clean, dry air to protect your production and reputation in the market

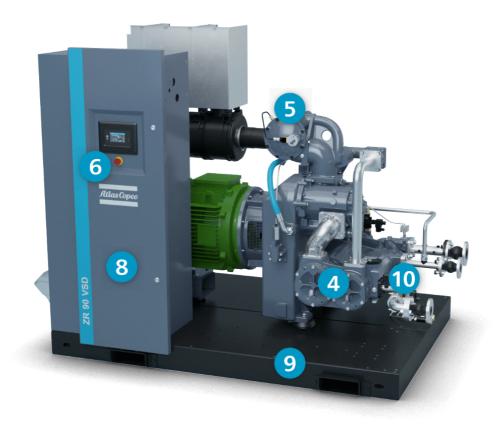
ISO 22000

ISO 22000 is a management system for food safety. Atlas Copco is among a few compressor manufacturers to have their oil free compressors and related dryers and filters certified for ISO 22000 by Lloyds Register Quality Assurance.

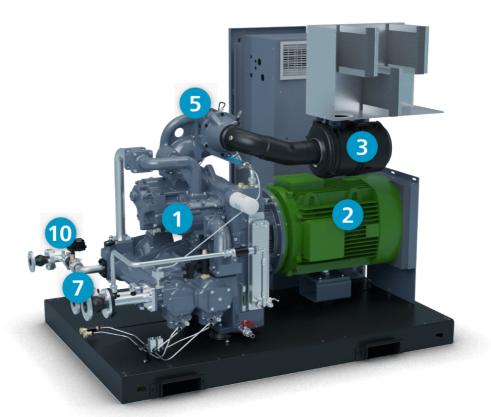
The highest reliability

ZR 90 VSD

LEFT VIEW



RIGHT VIEW



1 Oil-free air compressor elements (Class 0)

- Unique seal design guarantees certified oil-free air
- Superior coating for high durability
- Cooling jackets to ensure world class compression in different conditions

2 Main drive motor

- IP55 TEFC motor protects against dust, chemicals and humidity
- Continuous operation under severe ambient conditions

3 Efficient intake air filtration

- 2 stage dust removal system (99.9% for 3 micron)
- High grade protection of the compressor

4 Highly reliable coolers

- Compact design with low approach temperature
- Low thermal stresses ensure long lifetime
- Reliable water separation ensures low water carry over to downstream equipment
- Stainless steel water coolers designed for durability and easy serviceability

5 Reliable load/unload regulation

- No external air supply needed
- Mechanical interlock of inlet and blow-off valve
- Low unload power

6 Advanced touch screen monitoring system

- User friendly Elektronikon Touch with enhanced connectivity potential
- Integrated smart algorithms to protect equipment in harsh conditions
- Including warning indications, maintenance scheduling and online visualization of the machine's condition

Complete Plug-and-play package

- All in one solution: fault free installation, easy commissioning and quick start up
- Includes internal piping, coolers, motor, drive, lubrication and control system

8 Sound proof design

- Silenced canopy ensures optimal working conditions for everyone in the immediate environment
- Optimized internal ducting and integrated pulsation damper to reduce noise level

9 Ease of maintenance

- Minimal service time with service parts grouped together for ease of access
- All components are designed for serviceability and longevity
- Optional service plans available to extend warranty

10 Smart Energy Recovery valve

The Energy Recovery option on ZR has improved regulation to ensure stable water temperature at the required level for your processes.

ZR 90 VSD FF

LEFT VIEW



RIGHT VIEW



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- Cooling jackets to ensure world class compression in different conditions

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- All components are designed for serviceability and longevity
- Optional service plans available to extend warranty

10 Integrated dryer

With the ZR/ZT you have the option to include a dryer. IMD dryer with Silicone free rotor.

Design & control algorithms for optimal efficiency

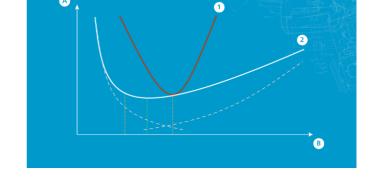


Components designed for efficiency

- Compressor elements with superior coating, optimized design and low loss bearings and seals ensure highest efficiency.
- Efficient intake filtration for minimum losses and low pressure drop.
- Coolers are designed for efficiency with low pressure drop and low air approach temperature, ensuring coolest possible running conditions.
- Our fixed speed machines come with IE4 super premium efficiency motors, giving you extra energy savings, every hour the machine runs.
- VSD machines are equipped with IE3 premium efficiency motors, in combination with our highly efficient in-house designed Neos frequency converter.
- With machines typically running 4000 to 8000 hours per year, again a major contributor to energy savings.

Lower energy costs with Atlas Copco's VSD technology

Over 80% of a compressor's lifecycle cost is taken up by the energy it consumes. Moreover, the generation of compressed air can account for more than 40% of a plant's total electricity bill. To cut your energy costs, Atlas Copco pioneered Variable Speed Drive (VSD) technology in the compressed air industry. VSD leads to major energy savings, while protecting the environment for future generations. Thanks to continual investments in this technology, Atlas Copco offers the widest range of integrated VSD compressors on the market.



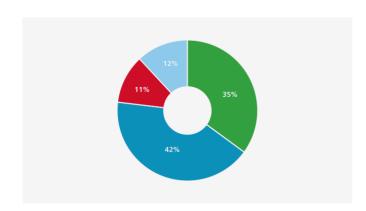
Legend

A = Losses

B = Speed

1 = Total losses traditional element

2 = Total losses Atlas Copco element



Up to 35% energy savings

Atlas Copco's VSD technology closely follows the air demand by automatically adjusting the motor speed. This results in large energy savings of up to 35%. The Life Cycle Cost of a compressor can be cut by an average of 22%. In addition, lowered system pressure with VSD minimizes energy use across your production dramatically.

Legend

42% = Energy

35% = Energy savings with VSD

12% = Investment

11% = Maintenance

Monitor your compressed air installation with **SMART**LINK

Knowing the status of your compressed air equipment at all times is the surest way to achieve optimal efficiency and maximum availability.

Go for energy efficiency

Customized reports on the energy efficiency of your compressor room. **Increase uptime**

All components are replaced on time, ensuring maximum uptime. **Save money**

Early warnings avoid breakdowns and production loss.





Energy Recovery

You can turn your compressor into an energy source. Our ZR compressors equipped with Energy Recovery can help you achieve your goals in becoming carbon neutral. Compressed air is one of the most important utilities for the industry. It is also one of the largest consumers of energy. Up to 94% of the electrical energy is converted into compression heat. Without energy recovery, this heat is lost into the atmosphere via the cooling system and radiation. You can use hot water recovered from the compressed air system for sanitary purposes and space heating. But it is particularly suitable for process applications. Using the hot water as boiler pre-feed or directly in processes requiring 70 to 90°C can save you costly energy sources such as natural gas and heating oil.

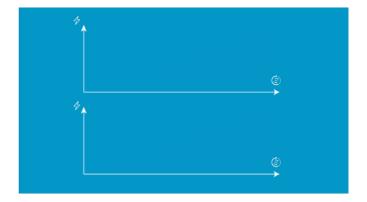
Advanced control algorithms

The Elektronikon compressor monitoring system saves energy by using advanced control algorithms:

Delayed Second Stop (DSS): in traditional fixed speed machines (load/unload), when a compressor reaches the unload pressure, the machine will be kept running in unload for a fixed time, to prevent too frequent starting and causing the electrical motor to overheat. Our sophisticated Delayed Second Stop (DSS) will take the running conditions of the machine into account and will allow the machine to stop if no frequent motor starts preceded. This will generate major savings compared to traditional load/unload compressors.

Timer functions: stop your machines when no air is needed. Often, machines are kept running over night and during weekends, even if there is no need for compressed air during these times. The timer function on our compressors can easily fix this.

Dual pressure band: even if compressed air is needed during nights and weekends, often, the required pressure is lower during these times. Implementing a dual pressure band with lower settings during nights and weekends will save loads of energy.





Dual set-point and automatic stop

Most production processes create fluctuating levels of demand which, in turn, can create energy waste in low use periods. Using the Elektronikon unit controller, you can manually or automatically switch between two different setpoints to optimize energy use and reduce costs at low use times. In addition, the sophisticated algorithm runs the drive motor only when needed. As the desired setpoint is maintained while the drive motor's run time is minimized, energy consumption is kept to a minimum.



Multiple machine control

Any installation with three or more machines will benefit from our advanced controller, the Optimizer 4.0. It will control your installation in a more efficient way than the individual machines with individual settings can.





Class-leading compressed air products

As a compressor is only one component in a compressed air system, true efficiency can only be achieved by looking at the bigger picture. Atlas Copco smart AIR solutions are complete systems optimized for energy performance, reliability, and output quality. They are based on a range of class-leading compressed air products, fully optimized to work better together for the most efficient and reliable combination of a compressor with our air and gas equipment.

The most efficient and reliable combination

Atlas Copco smart AIR solutions can include dryers, filters, controllers, energy recovery systems, nitrogen or oxygen generators, air receivers, coolers, or boosters specified to your needs. If you have multiple compressors, the combination of machines is important for the efficiency of the complete system. And if you have three or more compressors, a central controller will allow smarter, more effective control than individual controllers.





Central controllers

Having a central controller reduces the average pressure band.It also reduces the operating pressure of your machines.

- By reducing the pressure by 1 bar (or 14.5 psi), your energy usage lowers by 7%.
- By reducing the pressure by 1 bar (or 14.5 psi) decreases air leakages by 13%.

Multiple embedded functions in the Optimizer 4.0 in which pressure, capacity and speed can be regulated. *Legend*

A = Net pressure

B = Average pressure

C = Min. system pressure



2 Energy efficient and reliable compressors

All smart AIR solutions start with picking the correct components in the correct combination. Choosing energy efficient compressors, paying special attention to the mix of compressors will be a major contributor to a smart AIR solution. Our sound proof design contributes to a better working environment around the compressors. Our compressors have been designed with maintenance in mind, reducing the downtime of machines and improving availability of compressed air.

3 Variable Speed Drive (VSD) compressors

Compressed air demand of most applications varies widely. Adding one or multiple VSD compressors to the installation will greatly help to improve energy efficiency of the total installation, stability of compressed air pressure and reliability, thanks to more stable regime of each machine.

4 Ventilation

Compressors generate heat. Adequate evacuation of this heat will ensure favorable working conditions for compressors and dryers alike

5 Air receiver

Even with a Variable Speed Drive compressor, having an appropriately sized buffer tank for compressed air will help smoothening the variation in demand and allow compressors to work in more stable operating conditions, thus helping both energy efficiency and reliability.

6 Compressed air dryers

The correct choice of dryer technology corresponding to the compressed air quality requirements is detrimental to a reliable and energy efficient compressed air installation.

The choice for integrated dryers – our full feature concept – will have additional benefits, reducing installation cost, time and complexity, having dryers controlled together with the compressors, reducing connecting pipes, hence the chance of leakages and extra pressure drops. And look at the major space saving full feature machines can bring.

Smart AIR solutions have impact on every aspect of your compressed air installation.

7 Compressed air filters

Also the correct filter grade in correspondence with air quality requirements will be an important contributor in a smart AIR solution. This goes hand in hand with correct maintenance of the filters, as incorrectly maintained filters will jeopardize both the reliability of your installation as the energy efficiency.

Easy maintenance and low ownership costs

By taking proper care of your air compressor, you will reduce running costs and avoid the risk of unplanned breakdowns or production stops. Atlas Copco offers energy efficiency checks, service, repairs, spare parts, and maintenance plans for all air compressors to keep your business running smoothly.

Complete compressor care with our Total Responsibility

We take care of all your compressor maintenance, upgrades, repairs and even breakdowns for an all-inclusive price.

Complete compressor care

On-time maintenance by expert service engineers, genuine parts, proactive upgrades and compressor overhauls.

Total risk coverage

This means we take care of all your compressor repairs and even breakdowns, without extra charges.

Ultimate efficiency

Fitting the latest drive line components gives you as-new levels of compressor efficiency and reliability.





Audit your compressed air installation with AIRScan

AIRScan offers a reliable analysis and wellfounded recommendations to improve your energy efficiency.

Go for energy efficiency

AIRScan offers a reliable analysis and actionable insights for energy efficiency improvements.

Save energy: up to 30 % of your costs

Our unique compressor audit software simulates various configurations of your compressed air installation. This allows us to provide realistic projections on potential energy savings.

Clear report

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

AIRnet

AlRnet is a piping solution that guarantees operational excellence for compressed air, vacuum, nitrogen and other inert gas applications. Available in aluminium and stainless steel.

Fast, easy and reliable

AIRnet Aluminium is the most effective solution for your air or gas network. Its fast and easy installation gets your operations up and running in record time. AIRnet is leak-proof and corrosion-free. Its pipes and fittings come with a 10-year warranty.

Safe, solid and clean

AIRnet Stainless Steel piping system ensures 100% oil free air delivery from the generation to the point of use, in compliance with the highest quality standards.



Optimize your system

With the ZR/ZT, Atlas Copco provides an all-in-one standard package incorporating the latest technology in a built to-last design. To further optimize your ZR/ZT's performance or to simply tailor it to your specific production environment, optional features are available.

	ZR/ZT 55-90 (VSD)
Monitoring & Protection bundle (Anti-Condensation heaters / Monitoring & Protection bundle (Anti-Condensation heaters / SPM equipment / PT 1000 in the windings & bearings)	
Integrated SMARTLINK	•
Kit for purge of dry air during standstill	•
Silicone-free rotor for dryer	Standard scope
Anchor pads	•
Wooden case protection packaging	•
High ambient temperature version*	•
Test certificate	•
Witnessed performance test	•
IT Network (VSD)	•
Energy recovery	•
Teflon free	•
MD heater	•
Hot air	•
Water shutoff valve	•

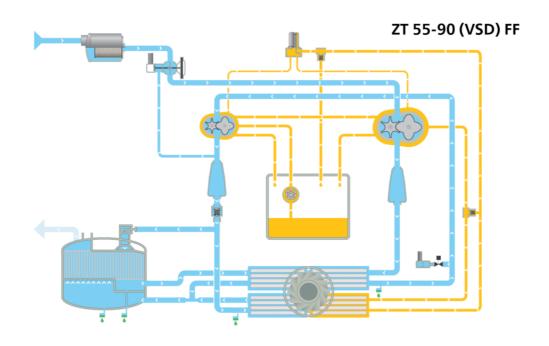


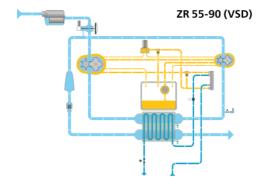
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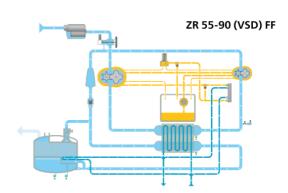
^{*} Maximum intake/cooling air temperature is 50°C/122 °F for HAT versions. Please note the availability of the option depends on the chosen configuration.



Process, oil and cooling flows – a step by step guide







1. Filtration & first compression

The light blue flow represents the air. Air is drawn into the compressor through the inlet filter where the air is cleaned. Then passes through the throttle valve with integrated blow off valve that takes care of the load unload regulation. In the first compression stage the air pressure is raised to the intermediate pressure after which the air is cooled down in the inter-cooler.

2. Cooling & second compression

After the inter-cooler the air passes through a moisture separation system before entering the high pressure stage. In the high pressure stage the pressure is brought to the final pressure.

3. Cooling & drying

The air at the outlet of the high pressure stage is split in two parts. One part goes via the pulsation damper with integrated check valve to the after-cooler where it is cooled down and moisture is separated and evacuated. A second part goes directly to the regeneration area of the heat compression MD dryer.

In the regeneration area of the dryer the hot air regenerates the adsorption drum after which it passes through the regeneration cooler where it is cooled down and moisture is separated and evacuated. The cold air coming from the regeneration section is then mixed with the cold air from the after-cooler in the nozzle-ejector system before passing through the drying section of the adsorption drum where the moisture is removed. Dry air leaves the compressor through the outlet connection flanges.

4. Oil flow

The yellow flow is the oil path within the compressor where the oil pump sucks oil from the oil sump and pumps it through the oil cooler and a high efficiency filter to give cool clean oil to the bearings and the gears; then the oil flows back to the gear casing.

ZR 55-90 (FF)

50 Hz

Туре	Working pres	ssure (1)	Free Air Delivery (2)		Installed motor power (3)	Noise level (4)
Туре		bar(e)	l/s	m³/min	kW	dB(A)
	Minimum	7.5	169.9	10.2		71
ZR 55	Effective	8.6	156.3	9.4	55	11
	Maximum	10	10 140.7 8.4		74	
	Minimum	7.5	224.6	13.5		69
ZR 75	Effective	8.6	214.7	12.9	75	09
	Maximum	10	204.8	12.3		74
	Minimum	7.5	267.2	16.0		72
ZR 90	Effective	8.6	250.7	15.0	90	12
	Maximum	10	263.4	14.2		74

50 Hz

Туре	Working press	ure (1)	Free Air Do	elivery (2)	Installed motor power (3)	Noise level (4)
1,700		psig	l/s	cfm	hp	dB(A)
	Minimum	100	169.9	360.2		71
ZR 55	Effective	125	156.3	332.0	75	1.1
Maximum	Maximum	145	140.7	296.6		74
	Minimum	100	224.6	476.7		69
ZR 75	Effective	125	214.7	455.6	100	03
	Maximum	145	204.8	434.4		74
	Minimum	100	267.2	565.0		72
ZR 90	Effective	125	250.7	529.7	120	12
	Maximum	145	263.4	501.5		74

60 Hz

Туре	Working pressure (1)		Free Air Delivery (2)		Installed motor power (3)	Noise level (4)
Type		bar(e)	l/s	m³/min	kW	dB(A)
ZR 55	Effective	8.6	161.7	9.7	55	70
	Maximum	10	142.7	8.6	. 33	74
ZR 75	Effective	8.6	226.1	13.6	75	70
ZK 13	Maximum	10	200.3	12.0	15	74
ZR 90	Effective	8.6	262.1	15.7	90	71
ZI(30	Maximum	10	240.8	14.5	50	74

60 Hz

Туре	Working pressure (1)		Free Air Delivery (2)		Installed motor power (3)	Noise level (4)
туре		psig	l/s	cfm	hp	dB(A)
ZR 55	Effective	125	161.7	342.6	75	70
	Maximum	150	142.7	303.7	. 13	74
ZR 75	Effective	125	226.1	480.3	100	70
ZK 13	Maximum	150	200.3	423.8	100	74
ZR 90	Effective	125	262.1	554.4	120	71
ZR 90	Maximum	150	240.8	512.1	120	74

ZR 75-90 VSD (FF)

Type	Working pre	ssure (1)	Free Air De	livery (2)	Installed motor power (3)	Noise level (4)
Туре		bar(e)	l/s	m³/min	kW	dB(A)
	Minimum	4	75.6 – 239.5	4.6 – 14.4		
ZR 75 VSD - 8.6	Effective	7	74.7 – 229.4	4.48 – 13.8		70
	Maximum	8.6	74.1 – 208.6	4.4 – 12.5	75	
	Minimum	4	82.6 – 239.2	4.3 - 14.35	- 15	74
ZR 75 VSD - 10.4	Effective	9	81.7 – 202.9	5.0 – 12.2		
	Maximum	10.4	81.3 – 184.6	4.9 – 11.1		
	Minimum	6	75.1 – 297.2	4.51 – 17.8		
ZR 90 VSD - 8.6	Effective	7	74.1 – 282.5	4.4 – 16.9		71
	Maximum	8.6	73.6 – 258.1	4.42 - 15.5	90	
	Minimum	6	76.5 – 292.9	4.6 – 17.6	30	
ZR 90 VSD - 10.4	Effective	9	75.5 – 250.5	4.53 – 15.0		74
	Maximum	10.4	75.0 – 229.2	4.5 – 13.7		

Туре	Working press	sure (1)	Free Air D	Delivery (2)	Installed motor power (3)	Noise level (4)
Туре		psig	l/s	cfm	hp	dB(A)
	Minimum	58	75.6 – 239.5	160.2 – 507.5		
ZR 75 VSD - 8.6	Effective	100	74.7 – 229.4	158.2 – 486.1		70
	Maximum	125	74.1 – 208.6	157 – 442	100	
	Minimum	87	82.6 – 239.2	175 – 506.8	100	74
ZR 75 VSD - 10.4	Effective	130	81.7 – 202.9	173.1 – 429.9		
	Maximum	150	81.3 – 184.6	172.3 – 391.1		
	Minimum	58	75.1 – 297.2	159.1 – 629.7		
ZR 90 VSD - 8.6	Effective	100	74.1 – 282.5	157 – 598.6		71
	Maximum	125	73.6 – 258.1	155.9 – 546.9	120	
	Minimum	87	76.5 – 292.9	162.1 – 620.6	120	
ZR 90 VSD - 10.4	Effective	130	75.5 – 250.5	160 – 530.8		74
	Maximum	150	75.0 – 229.2	158.9 – 485.6		

ZT 55-90 (FF)

50 Hz

Туре	Working pres	ssure (1)	Free Air Delivery (2)		Installed motor power (3)	Noise level (4)
Type		bar(e)	l/s	m³/min	kW	dB(A)
	Minimum	7.5	166.3	10		76
ZT 55	Effective	8.6	153.0	9.2	55	75
	Maximum	10	137.4	8.2		76
	Minimum	7.5	221.2	13.3		78
ZT 75	Effective	8.6	211.4	12.7	75	10
	Maximum	10	201.5	12.1		74
	Minimum	7.5	263.9	15.8		79
ZT 90	Effective	8.6	247.4	14.8	90	77
	Maximum	10	233.0	14.0		79

50 Hz

Туре	Working press	ure (1)	Free Air D	elivery (2)	Installed motor power (3)	Noise level (4)
Type		psig	l/s	cfm	hp	dB(A)
	Minimum	100	166.3	352.4		76
ZT 55	Effective	125	153.0	324.2	75	75
	Maximum	145	137.4	291.1		76
	Minimum	100	221.2	468.7		78
ZT 75	Effective	125	211.4	447.9	100	10
	Maximum	145	201.5	427.0		74
	Minimum	100	263.9	559.2		79
ZT 90	Effective	125	247.4	524.2	120	77
	Maximum	145	233.0	493.7		79

60 Hz

Туре	Working pressure (1)		Free Air Delivery (2)		Installed motor power (3)	Noise level (4)	
		bar(e)	l/s	m³/min	kW	dB(A)	
ZT 55	Effective	8.6	158.4	9.5	55	77	
2133	Maximum	10	139.3	8.4		79	
ZT 75	Effective	8.6	222.8	13.4	75	19	
2113	Maximum	10	197.0	11.8	15	76	
ZT 90	Effective	8.6	258.7	15.5	90	78	
21 30	Maximum	10	237.4	14.2	50	18	

60 Hz

Туре	Working pressure (1)		Free Air Delivery (2)		Installed motor power (3)	Noise level (4)
туре		psig	l/s	cfm	hp	dB(A)
ZT 55	Effective	125	158.4	335.6	75	77
2133	Maximum	150	139.3	295.1		79
ZT 75	Effective	125	222.8	472.1	100	19
2113	Maximum	150	197.0	417.4	100	76
ZT 90	Effective	125	258.7	548.1	120	78
21 30	Maximum	150	237.4	503.0	120	10

ZT 75-90 VSD (FF)

Turns	Working pre	ssure (1)	Free Air De	livery (2)	Installed motor power (3)	Noise level (4)
Type		bar(e)	l/s	m³/min	kW	dB(A)
	Minimum	4	72.2 – 236.1	4.33 – 14.2		
ZT 75 VSD - 8.6	Effective	7	71.2 – 226.0	4.27 – 13.6		78
	Maximum	8.6	70.7 – 205.2	4.24 - 12.3	75	
	Minimum	6	79.2 – 235.8	4.8 – 14.1	13	
ZT 75 VSD - 10.4	Effective	9	78.2 – 199.6	4.7 – 12.0		76
	Maximum	10.4	77.8 – 181.3	4.67 – 10.9		
	Minimum	4	71.7 – 293.9	4.3 – 17.6		
ZT 90 VSD - 8.6	Effective	7	70.6 – 279.1	4.24 – 16.7		78
	Maximum	8.6	70.1 – 254.7	4.2 – 15.3	90	
	Minimum	6	73.0 – 289.5	4.4 – 17.4	30	
ZT 90 VSD - 10.4	Effective	9	72.0 – 247.1	4.3 – 14.8		77
	Maximum	10.4	71.5 – 225.7	4.29 - 13.5		

Туре	Working pressure (1)		Free Air Delivery (2)		Installed motor power (3)	Noise level (4)
		psig	l/s	cfm	hp	dB(A)
ZT 75 VSD - 8.6	Minimum	58	72.2 – 236.1	153 – 500	100	78
	Effective	100	71.2 – 226.0	150.9 – 478.9		
	Maximum	125	70.7 – 205.2	149.8 – 434.8		
ZT 75 VSD - 10.4	Minimum	87	79.2 – 235.8	167.8 – 499.6		76
	Effective	130	78.2 – 199.6	165.7 – 422.6		
	Maximum	150	77.8 – 181.3	164.8 – 384.1		
ZT 90 VSD - 8.6	Minimum	58	71.7 – 293.9	151.9 – 622.7	120	78
	Effective	100	70.6 – 279.1	149.6 – 591.4		
	Maximum	125	70.1 – 254.7	148.5 – 539.7		
ZT 90 VSD - 10.4	Minimum	87	73.0 – 289.5	154.7 – 613.4		77
	Effective	130	72.0 – 247.1	152.6 – 523.6		
	Maximum	150	71.5 – 225.7	151.5 – 478.2		

^(1 + 2) Unit performance measured according to ISO 1217, Annex C & E, Edition 4 (2009). Reference conditions: relative humidity 0%, absolute inlet pressure: 1 bar (14.5 psi), intake air temperature: 20°C (68°F). Free Air Delivery (FAD) is measured at the following working pressures: 7.5 bar versions at 7 bar, 8.6 bar versions at 8 bar, 10 bar versions at 9.5 bar. For VSD at 7 bar. For the working pressure of the FF variant, please contact Atlas Copco. (3) The installed motor power might deviate depending on the options, voltages and pressure variants.

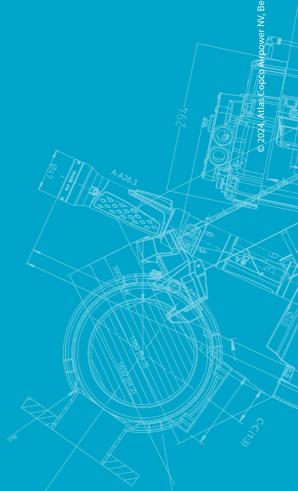
⁽⁴⁾ A-weighted emission sound pressure level at the work station (LpWSAd). Measured according to ISO 2151: 2008 using ISO 9614-2 (sound intensity scanning method). The added correction factor (+/- 3 dB(A)) is the total uncertainty value (KpAd) conform with the test code.

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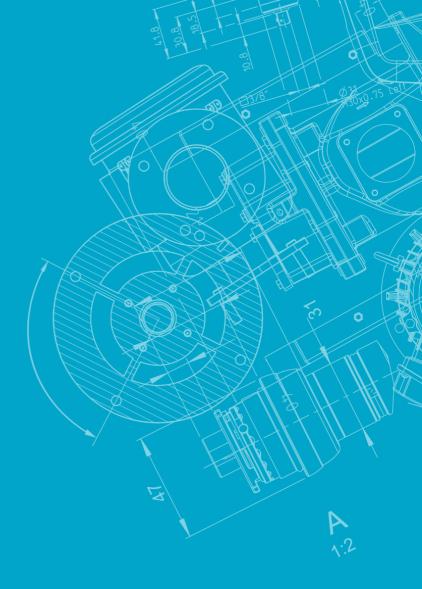


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Oil and air flows

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Smart AIR solutions

Setting the standard in energy efficiency, safety and reliability

The shortest route to superior productivity is to minimize operational cost while maintaining an uninterrupted supply of the right quality of air. The Atlas Copco Z compressor series is focused on effectively saving energy, ensuring product safety – only oil-free machines exclude contamination risks for 100% – and guaranteeing the utmost reliability around the clock. And not just today, but day after day, year after year, with minimal maintenance cost, few service interventions and long overhaul intervals.



Pioneering oil-free air technology

The ISO 8573-1 CLASS 0 certification means, zero risk of our products contaminating the compressed air. This means we won't damage your company's hard-won professional reputation due to oil contamination from our oil-free products.



Maximum energy efficiency

The ZR/ZT's superior oil-free screw elements provide the optimum combination of high Free Air Delivery (FAD) with the lowest energy consumption. Ample sized cooling, low pressure drops and an extremely efficient drive train result in the highest compressor package efficiency.



The most complete package

With the ZR/ZT compressor, Atlas Copco provides a superior solution without hidden costs. The totally integrated, ready-to-use package includes internal piping, coolers, motor, lubrication and control system. The Full Feature version even integrates an IMD adsorption dryer for an impeccable end product. Installation is fault-free commissioning time is low and no external instrument air is required. You simply plug and run.



Lowest operating costs

Our aftermarket product portfolio is designed to add maximum value for our customers by ensuring the optimum availability and reliability of their compressed air equipment with the lowest possible operating costs.



Global presence – local service

We deliver this complete service guarantee through our extensive service organization, maintaining our position as leader in compressed air.



The right air quality to protect your products

Compressed air is used in a wide variety of manufacturing and commercial operations. Air is generated from the ambient atmosphere around the compressor and typically would contain contaminants in the form of dust and water which are two naturally occurring impurities while a third impurity which is oil typically gets added to compressed air due to the compression process. Oil though can be avoided/eliminated by using our 100% oil free compressors.







For over 60 years Atlas Copco has pioneered the development of oil-free air technology. Resulting in the largest range of air compressors and blowers within our industry. Through continuous research and development, we achieved a new milestone, setting the standard for air purity as the first manufacturer to be awarded ISO 8573-1 CLASS 0 certification. CLASS 0 certification means zero risk of oil contamination from our products.



Air treatment

Untreated compressed air contains moisture and possibly dirt particles that can damage your air system and contaminate your end product. The resulting maintenance costs far exceed air treatment costs. Atlas Copco believes in effective prevention and provides a complete range of air treatment solutions to protect investments, equipment, production processes and end products.

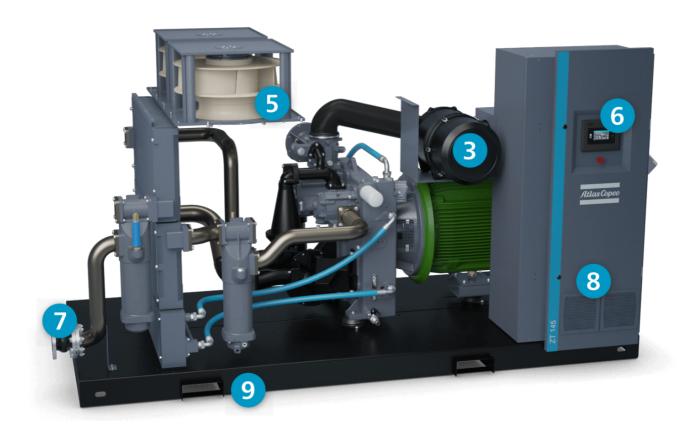


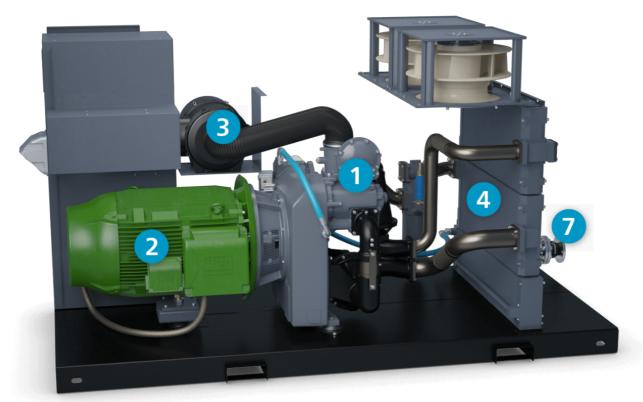
Avoid downtime

Low quality air heightens the risk of corrosion, which can lower the life span of production equipment. The air treatment solutions produce clean air that enhances your system's reliability, avoiding costly downtime and production delays. Compressed air coming into contact with your final products should not affect their quality. Atlas Copco provides clean, dry air to protect your production and reputation in the market.

Engineered for the highest reliability

ZT 90-160 VSD





1 Oil-free air (Class 0)

- Unique Z seal design guarantees certified oil-free air.
- Superior rotor coating for high efficiency and durability.
- Cooling jackets ensure world class compression in varying conditions.

2 Robust motor

- IP 55 TEFC motor protects against dust, chemicals, and humidity.
- Continuous operation under severe ambient temperature conditions.

Efficient intake air filtration

- 2-stage dust removal system (99.9% for 3 micron).
- Minimum intake losses and low pressure drop.
- Efficient protection of the compressor.

4 High performing coolers

- Compact and efficient design with low air approach temperature and low pressure drop.
- Water separator separates condensate from compressed air.
- Low moisture carry-over protects downstream equipment.

5 Reliable load/unload regulation

- No external air supply required.
- Mechanical interlock of inlet and blow-off valve.
- Low unload power.



6 Advanced touch screen monitoring system

- \bullet User-friendly Elektronikon $^{^{\circledcirc}}$ Touch with enhanced connectivity potential.
- Integrated smart algorithms optimize system pressure and maximize energy efficiency.
- Warning indications, maintenance scheduling and online visualization of the machine's condition.



7 Complete Plug-and-play package

- All-in-one solution including internal piping, coolers, motor, drive, lubrication, and control system.
- Fault-free installation.
- Easy commissioning and quick start-up.

8 Soundproof design

- Silenced canopy improves conditions for workers in the immediate environment.
- Optimized internal ducting and integrated pulsation damper to reduce the noise level.

9 Quick, easy maintenance

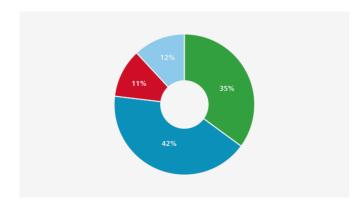
- Minimal service time with service parts grouped together for ease of access.
- All components are designed for serviceability and long lifetime.
- Optional service plans available to extend the warranty.

Reducing consumption throughout your process

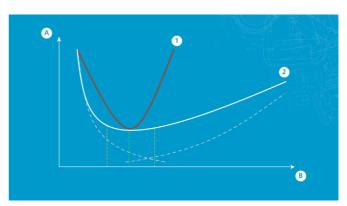
Did you know that compressed air generation amounts to over 40% of a plant's total electricity bill? And that energy consumption can account for over 80% of a compressor's lifecycle cost? Atlas Copco pioneered Variable Speed Drive (VSD) technology in the compressed air industry to help businesses reduce energy consumption and increase their profits. While continuing to invest in VSD, we have also developed a range of control, monitoring and energy recovery technologies that reduce running costs while protecting the environment for future generations.

What is Variable Speed Drive (VSD)?

Atlas Copco's VSD technology automatically adjusts the motor speed to air demand, reducing energy consumption by up to 35% and cutting the compressor's life cycle cost by an average of 22%. In addition, lowered system pressure with VSD dramatically minimizes energy use across your production.







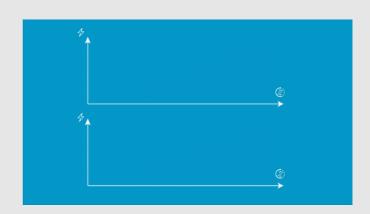
A = Losses B = Speed 1 = Total losses traditional element 2 = Total losses Atlas Copco element

Elektronikon® with advanced control algorithms for more energy savings

Delayed Second Stop (DSS): in traditional fixed speed machines (load/unload), when a compressor reaches the unload pressure, the machine will be kept running in unload for a fixed time, to prevent too frequent starting and causing the electrical motor to overheat. Our sophisticated Delayed Second Stop (DSS) will take the running conditions of the machine into account and will allow the machine to stop if no frequent motor starts preceded. This will generate major savings compared to traditional load/unload compressors.

Timer functions: often, machines are kept running overnight and during weekends, even if there is no need for compressed air during these times. This is avoided with timer functions that stop your compressors when no air is needed.

Dual pressure band: even if compressed air is needed during nights and weekends, the required pressure is often lower in these periods. By implementing a dual pressure band with lower settings during nights and weekends, you can create considerable energy savings.





Energy Recovery: turn your compressor into an energy source

Compressed air is a vital utility for many industries. It is also one of the largest consumers of energy. Our ZR compressors equipped with Energy Recovery can help you reduce energy bills and your carbon footprint. In a typical process, up to 94% of the electrical energy is converted into compression heat, which is lost into the atmosphere via the cooling system and radiation. With Energy Recovery, you can recuperate this energy as hot water for sanitary purposes, space heating or, even more effectively, process applications. By using the hot water as boiler prefeed or directly in processes requiring temperatures of 70 to 90°C, you will reduce your consumption of more costly, carbon-based energy sources such as natural gas and heating oil.



SMARTLINK for expert monitoring

Knowing the status of your compressed air equipment at all times is the key to efficiency and availability. SMARTLINK provides customized reports on your compressor room's energy performance as well as early warnings, and timely component replacement alerts to increase uptime and prevent production loss.



Dual set-point and automatic stop

Most production processes create fluctuating levels of demand which can lead to energy waste in low use periods. Using the Elektronikon® unit controller, you can switch manually or automatically between two different setpoints to optimize energy use and reduce costs at low use times. In addition, the sophisticated algorithm runs the drive motor only when needed. As the desired setpoint is maintained while the drive motor's run time is minimized, energy consumption is kept to a minimum.



Components designed for efficiency

Our engineers took every opportunity to reduce energy consumption in the ZT and ZR compressors. The element has a superior coating for increased efficiency. Highperforming intake filtration ensures minimum losses and low pressure drop. The coolers are also designed for efficient operation with low air approach temperature and low pressure drop. The water separator efficiently separates the condensate from the compressed air.

Smart AIR solutions: class-leading compressed air products

As a compressor is only one component in a compressed air system, true efficiency can only be achieved by looking at the bigger picture. Atlas Copco smart AIR solutions are complete systems optimized for energy performance, reliability, and output quality. Smart Air solutions are based on a range of class-leading compressed air products, fully optimized to work better together for the most efficient and reliable combination of a compressor with our air and gas equipment. These solutions can include dryers, filters, controllers, energy recovery systems, nitrogen or oxygen generators, air receivers, coolers, or boosters specified to your needs. If you have multiple compressors, the combination of machines is important for the efficiency of the complete system. And if you have three or more compressors, a central controller will allow smarter, more effective control than individual controllers.



1 Central controllers

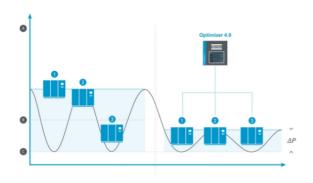
Central control reduces both the average pressure band and the operating pressure of your machines. A pressure reduction of 1 bar (14.5 psi) lowers energy consumption by 7% and air leakages by 13%. Multiple functions are embedded in the Optimizer 4.0 which regulate pressure, capacity, and speed.

Legend

A = Net pressure

B = Average pressure

C = Min. system pressure



2 Reliable, energy-efficient compressors

All smart AIR solutions start with selection of the correct components in the correct combination. Choosing energy-efficient compressors and paying special attention to the mix of compressors are major factors. Our soundproof design contributes to a better working environment around the compressors. Low maintenance is also a priority to reduce machine downtime and improve the availability of compressed air.

3 Variable Speed Drive (VSD) compressors

In most applications, demand for compressed air varies widely. Adding one or multiple VSD compressors will significantly improve the energy efficiency of the total installation, the stability of compressed air pressure, and reliability, thanks to more the stable regime of each machine.

4 Ventilation

Compressors generate heat. Adequate evacuation of this heat will improve the performance of compressors and dryers alike.

5 Air receiver

Even with a VSD compressor, an appropriately sized buffer tank for compressed air will help smooth out variations in demand and stabilize operating conditions. This enhances both energy efficiency and reliability.

6 Compressed air dryers

Choosing the right dryer technology for the specific compressed air quality requirement is essential to ensure the reliability and energy efficiency of the entire set-up. Our Full Feature concept integrates the best dryer for the installation and process. The benefits include reduced installation cost, time, and complexity; integrated control of dryers and compressors; and a reduction in connecting pipes, which decreases the chance of leakages and extra pressure drops. Full Feature solutions also save significant space in the compressor room.

7 Compressed air filters

The correct filter grade to correspond with air quality requirements is an important part of a smart AIR solution. This goes hand-in-hand with correct filter maintenance to protect the reliability of the installation and increase energy efficiency.

Easy maintenance and low ownership costs

By taking proper care of your air compressor, you will reduce running costs and avoid the risk of unplanned breakdowns or production stops. Atlas Copco offers energy efficiency checks, service, repairs, spare parts, and maintenance plans for all air compressors to keep your business running smoothly.

Total Responsibility Plan

Complete compressor care

On-time maintenance by expert service engineers.

Total risk coverage

We take care of all your compressor maintenance, upgrades, repairs, and even breakdowns for an all-inclusive price.

Ultimate efficiency

Fitting the latest driveline components gives you as-new levels of compressor efficiency and reliability.



AIR NET AIR NET

AIRnet

AlRnet is a piping solution that guarantees operational excellence for compressed air, vacuum, nitrogen, and other inert gas applications. It is available in aluminium and stainless steel.

Fast, easy, and reliable

AIRnet Aluminium is the most effective solution for your air or gas network. Its fast and easy installation gets your operations up and running in record time. AIRnet is leak-proof and corrosion-free. Its pipes and fittings come with a 10-year warranty.

Safe, solid, and clean

An **AIRnet Stainless Steel** piping system ensures 100% oil free air delivery from generation to the point of use, in compliance with the highest quality standards.

AIRScan

Audit your compressed air installation

AIRScan offers a reliable analysis and well-founded recommendations to improve your energy efficiency.

Go for energy efficiency

AIRScan offers actionable insights for energy efficiency improvements, based on analysis of your system.

Save energy: up to 30 % of your costs

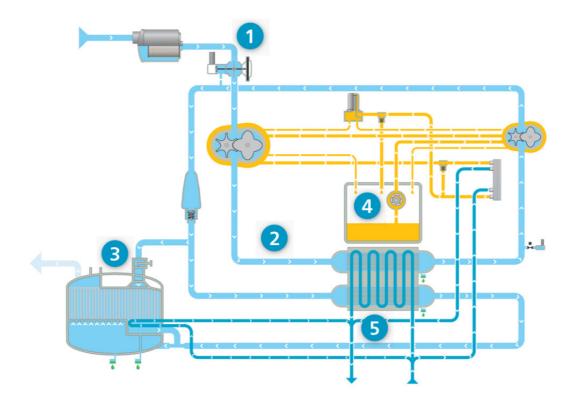
Our unique compressor audit software simulates various configurations of your compressed air installation. This allows us to provide realistic projections on potential energy savings.

Clear report

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



Oil and air flows: water-cooled (ZR)



1 Filtration & first compression

The light blue flow represents the air. Air is drawn into the compressor through the inlet filter, where the air is cleaned. It then passes through the throttle valve with integrated blow off valve, which takes care of the load/unload regulation. In the first compression stage the air pressure is raised to the intermediate pressure, after which the air is cooled down in the intercooler.

2 Cooling & second compression

After the intercooler, the air passes through a moisture separation system before entering the high pressure stage. In the high pressure stage the pressure is brought to the final pressure.

3 Cooling & drying

The air at the outlet of the high pressure stage is split into two parts. One part goes via the pulsation damper with integrated check valve to the aftercooler, where it is cooled down and moisture is separated and evacuated. A second part goes directly to the regeneration area of the heat compression MD dryer. In the regeneration area of the dryer, the hot air regenerates the adsorption drum before passing through the regeneration cooler where it is cooled down and moisture is separated and evacuated. The cold air coming from the regeneration section is then mixed with the cold air from the aftercooler in the nozzle ejector system before passing through the drying section of the adsorption drum where the moisture is removed. Dry air leaves the compressor through the outlet connection flanges.

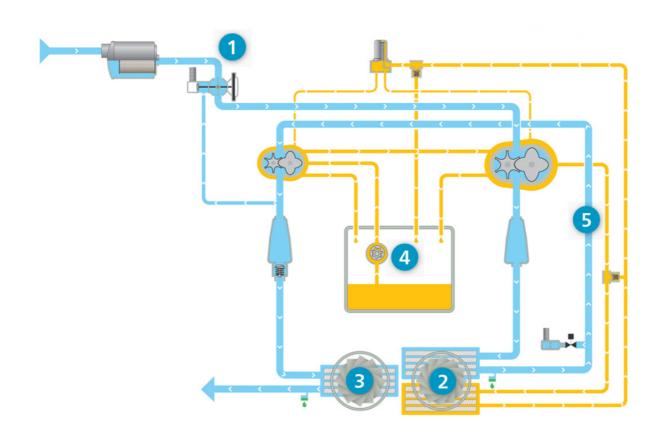
4 Oil flow

The yellow flow is the oil path within the compressor. The oil pump sucks oil from the oil sump and pumps it through the oil cooler and a high efficiency filter to deliver cool, clean oil to the bearings and the gears. The oil then flows back to the gear casing.

Water flow

The dark blue flow represents the water. Water is used in the oil cooler, the intercooler, and the aftercooler, as well as in the integrated dryer.

Oil and air flows: air-cooled (ZT)



1 Filtration & first compression

The light blue flow represents the air. Air is drawn into the compressor through the inlet filter, where it is cleaned. It then passes through the throttle valve with integrated blow off valve, which takes care of the load/unload regulation. In the first compression stage the air pressure is raised to the intermediate pressure, after which the air is cooled down in the intercooler.

2 Cooling & second compression

After the intercooler, the air passes through a moisture separation system before entering the high pressure stage. In the high pressure stage the pressure is brought to the final pressure.

3 Cooling & drying

The air at the outlet of the high pressure stage is split into two parts. One part goes via the pulsation damper with integrated check valve to the aftercooler, where it is cooled down and moisture is separated and evacuated. A second part goes directly to the regeneration area of the heat compression MD dryer. In the regeneration area of the dryer the hot air regenerates the adsorption drum before passing through the regeneration cooler, where it is cooled down and moisture is separated and evacuated. The cold air coming from the regeneration section is then mixed with the cold air from the aftercooler in the nozzle ejector system before passing through the drying section of the adsorption drum where the moisture is removed. Dry air leaves the compressor through the outlet connection flanges.

4 Oil flow

The yellow flow is the oil path within the compressor. The oil pump sucks oil from the oil sump and pumps it through the oil cooler and a high efficiency filter to deliver cool, clean oil to the bearings and the gears. The oil then flows back to the gear casing.

Water flow

The dark blue flow represents the water. Water is used in the oil cooler, the intercooler, and the aftercooler, as well as in the integrated dryer.

ZT 110-160

Metric

Tuna	Working pressure (1)	Free /	Air Delivery (2)	Installed motor power (3)	Noise level (4)
Туре	bar(e)	l/s	m³/min	kW	dB(A)
ZT 110 – 7.5	7.5	315	18.9		
ZT 110 – 8.6	8.6	294	17.7	110	
ZT 110 – 10	10	274	16.5		
ZT 132 – 7.5	7.5	360	21.6		
ZT 132 – 8.6	8.6	335	20.1	132	
ZT 132 – 10	10	311	18.7		79
ZT 145 – 7.5	7.5	390	23.4		15
ZT 145 – 8.6	8.6	361	21.6	145	
ZT 145 – 10	10	348	20.9		
ZT 160 – 7.5	7.5	431	25.8		
ZT 160 – 8.6	8.6	415	24.9	160	
ZT 160 – 10	10	396	23.7		

Туре	Working pressure (1)	Free Air I	Delivery (2)	Installed motor power (3)	Noise level (4)
Туре	psig	l/s	cfm	hp	dB(A)
ZT 110 – 7.5	100	315	667		
ZT 110 – 8.6	125	294	623	150	
ZT 110 – 10	145	274	581		
ZT 132 – 7.5	100	360	762		
ZT 132 – 8.6	125	335	710	175	
ZT 132 – 10	145	311	659		
ZT 145 – 7.5	100	390	826		15
ZT 145 – 8.6	125	361	765	200	
ZT 145 – 10	145	348	736		
ZT 160 – 7.5	100	431	912		
ZT 160 – 8.6	125	415	879	215	
ZT 160 – 10	145	396	838		

ZT 110-160 VSD

Metric

Туре	Working pre	ssure (1)	Free Air D	Delivery (2)	Installed motor power (3)	Noise level (4)
Туре		bar(e)	l/s	m³/min	kW	dB(A)
	Minimum	4	101-320	6.0-19.2		
ZT 110 VSD - 8.6	Effective	7	100-320	0.0-13.2		
	Maximum	8.6	99-299	5.9-17.9	110	
	Minimum	6.5	166-292	10-17.5	110	
ZT 110 VSD - 10.4	Effective	9	165-267	9.9-17.5		
	Maximum	10.4	192-267	11.5-16.6		
	Minimum	4	125-358	7.5-21.5		
ZT 132 VSD - 8.6	Effective	7	125-357	7.5-21.4		
	Maximum	8.6	125-337	7.5-20.2	132	79
	Minimum	6.5	165-331	9.9-19.9	132	15
ZT 132 VSD - 10.4	Effective	9				
	Maximum	10.4	192-316	11.5-19.0		
	Minimum	4	144-410	8.7-24.6		
ZT 160 VSD - 8.6	Effective	7	144-410	8.6-24.6		
	Maximum	8.6	144-385	8.6-23.0	160	
	Minimum	6.5	165-378	9.9-22.7	±00	
ZT 160 VSD - 10.4	Effective	9	103-310	3.3-22.1		
	Maximum	10.4	191-361	11.5-21.6		

Tune	Working pres	Working pressure (1)		elivery (2)	Installed motor power (3)	Noise level (4)
Type		psig	l/s	cfm	hp	dB(A)
	Minimum	60	101-320	214-678		
ZT 110 VSD - 8.6	Effective	100	100-320	212-678		
	Maximum	125	99-299	210-634	150	
	Minimum	95	166-292	352-619	150	
ZT 110 VSD - 10.4	Effective	130	165-267	350-619		
	Maximum	150	192-267	407-585		
	Minimum	60	125-358	265-759		
ZT 132 VSD - 8.6	Effective	100	125-357	264-756		
	Maximum	125	125-337	264-714 175	79	
	Minimum	95	165-331	350-701	- 113	19
ZT 132 VSD - 10.4	Effective	130		350-701		
	Maximum	150	192-316	407-670		
	Minimum	60	144-410	305-868		
ZT 160 VSD - 8.6	Effective	100	144-410	303-000		
	Maximum	125	144-385	305-815	215	
	Minimum	95	105 270	205 001	- 215	
ZT 160 VSD - 10.4	Effective	130	165-378	305-801		
	Maximum	150	191-361	406-765		

ZR 110-160 (FF)

Metric

Туре	Working pressure (1)	Free /	Air Delivery (2)	Installed motor power (3)	Noise level (4)
Туре	bar(e)	l/s	m³/min	kW	dB(A)
ZR 110 – 7.5	7.5	318	19.1		
ZR 110 – 8.6	8.6	297	17.8	110	
ZR 110 – 10	10	278	16.7		
ZR 132 – 7.5	7.5	363	21.8		74
ZR 132 – 8.6	8.6	339	20.3	132	
ZR 132 – 10	10	314	18.8		
ZR 145 – 7.5	7.5	393	23.6		74
ZR 145 – 8.6	8.6	364	21.8	145	
ZR 145 – 10	10	351	21.1		
ZR 160 – 7.5	7.5	434	26.0		
ZR 160 – 8.6	8.6	418	25.1	160	
ZR 160 – 10	10	399	23.9		

Typo	Working pressure (1)	Free Air	Delivery (2)	Installed motor power (3)	Noise level (4)
Туре	psig	l/s	cfm	hp	dB(A)
ZR 110 – 7.5	100	318	674		
ZR 110 – 8.6	125	297	629	150	
ZR 110 – 10	145	278	589		
ZR 132 – 7.5	100	363	769		74
ZR 132 – 8.6	125	339	718	175	
ZR 132 – 10	145	314	665		
ZR 145 – 7.5	100	393	832		14
ZR 145 – 8.6	125	364	771	200	
ZR 145 – 10	145	351	743		
ZR 160 – 7.5	100	434	919		
ZR 160 – 8.6	125	418	885	215	
ZR 160 – 10	145	399	845		

ZR 110-160 VSD (FF)

Metric

Torne	Working Pressure (1)		Free Air I	Delivery (2)	Installed motor power (3)	Noise lever (4)
Туре		bar(e)	l/s	m³/min	kW	dB(A)
	Minimum	4	101-320	6.1-19.2		
ZR 110 VSD - 8.6	Effective	7	101-319	6.0-19.2		
	Maximum	8.6	100-298	6.0-17.9	110	
	Minimum	6	168-292	10.1-17.5	110	
ZR 110 VSD - 10.4	Effective	9	167-292	10.0-17.5		74
	Maximum	10.4	193-277	11.6-16.6		
	Minimum	4	108-357	6.5-21.4	132	
ZR 132 VSD - 8.6	Effective	7	107-357	6.4-21.4		
	Maximum	8.6	107-336	6.4-20.2		
	Minimum	6	167-331	1 10.0-19.9	132	
ZR 132 VSD - 10.4	Effective	9	101-331			
	Maximum	10.4	193-316	11.6-19.0		
	Minimum	4	124-412	7.4-24.7		
ZR 160 VSD - 8.6	Effective	7	123-411	7.4-24.6		
	Maximum	8.6	123-386	7.4-23.0	160	
	Minimum	6	167-378	10.0-22.6	100	
ZR 160 VSD - 10.4	Effective	9	101-310	10.0-22.0		
	Maximum	10.4	193-361	11.6-21.6		

Time	Working Pres	Working Pressure (1)		elivery (2)	Installed motor power (3)	Noise lever (4)
Туре		psig	l/s	cfm	kW	dB(A)
	Minimum	60	101-320	214-677		
ZR 110 VSD - 8.6	Effective	100	101-319	213-676		
	Maximum	125	100-298	212-632	150	
	Minimum	90	168-292	355-619	130	
ZR 110 VSD - 10.4	Effective	130	167-292	354-619		
	Maximum	150	193-277	409-586		74
	Minimum	60	108-357	228-757	175	
ZR 132 VSD - 8.6	Effective	100	107-357	227-757		
	Maximum	125	107-336	226-713		
	Minimum	90	167-331	354-702		
ZR 132 VSD - 10.4	Effective	130		353-701		
	Maximum	150	193-316	409-670		
	Minimum	60	124-412	261-872		
ZR 160 VSD - 8.6	Effective	100	123-411	261-871		
	Maximum	125	123-386	261-817	215	
	Minimum	90	167-378	354-801	213	
ZR 160 VSD - 10.4	Effective	130	161-318	353-801		
	Maximum	150	193-361	409-765		

Dimensions

Metric

Туре	L W		Н	Weight
1,500		kg		
Air cooled	Air cooled	Air cooled	Air cooled	Air cooled
ZT 110-160 (VSD)	3400	1660	2150	3850
ZT 110-160 (VSD) FF iMD	4085	1000	2150	4250
Water cooled	Water cooled	Water cooled	Water cooled	Water cooled
ZR 110-160 (VSD)	2431	1660	2000	2920
ZR 110-160 (VSD) FF iMD	3400	1000	2000	3720

Type	L W		Н	Weight
туре		lb		
Air cooled	Air cooled	Air cooled	Air cooled	Air cooled
ZT 110-160 (VSD)	134	65	85	8500
ZT 110-160 (VSD) FF iMD	160	05	65	9400
Water cooled	Water cooled	Water cooled	Water cooled	Water cooled
ZR 110-160 (VSD)	96	65	79	6440
ZR 110-160 (VSD) FF iMD	134	US	19	8200

 $^{{\}it (1)} \ {\it For the FF variant, please consult Atlas Copco.}$

⁽²⁾ Unit performance measured according to ISO 1217, Annex C & E, Edition 4 (2009). Reference conditions: absolute inlet pressure 1 bar (14.5 psi) / intake air temperature 20°C (68°F). Free Air Delivery (FAD) is measured at maximum working pressure (or effective working pressure for VSD variants).

⁽³⁾ The installed motor power might deviate depending on the options, voltages and pressure variants.

⁽⁴⁾ A-weighted emission sound pressure level at the work station (LpWSAd). Measured according to ISO 2151: 2008 using ISO 9614-2 (sound intensity scanning method). ZT variants including ducting on the outlet grating of cooling air. The added correction factor (+/- 3 dB(A)) is the total uncertainty value (KpAd) conform with the test code.



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