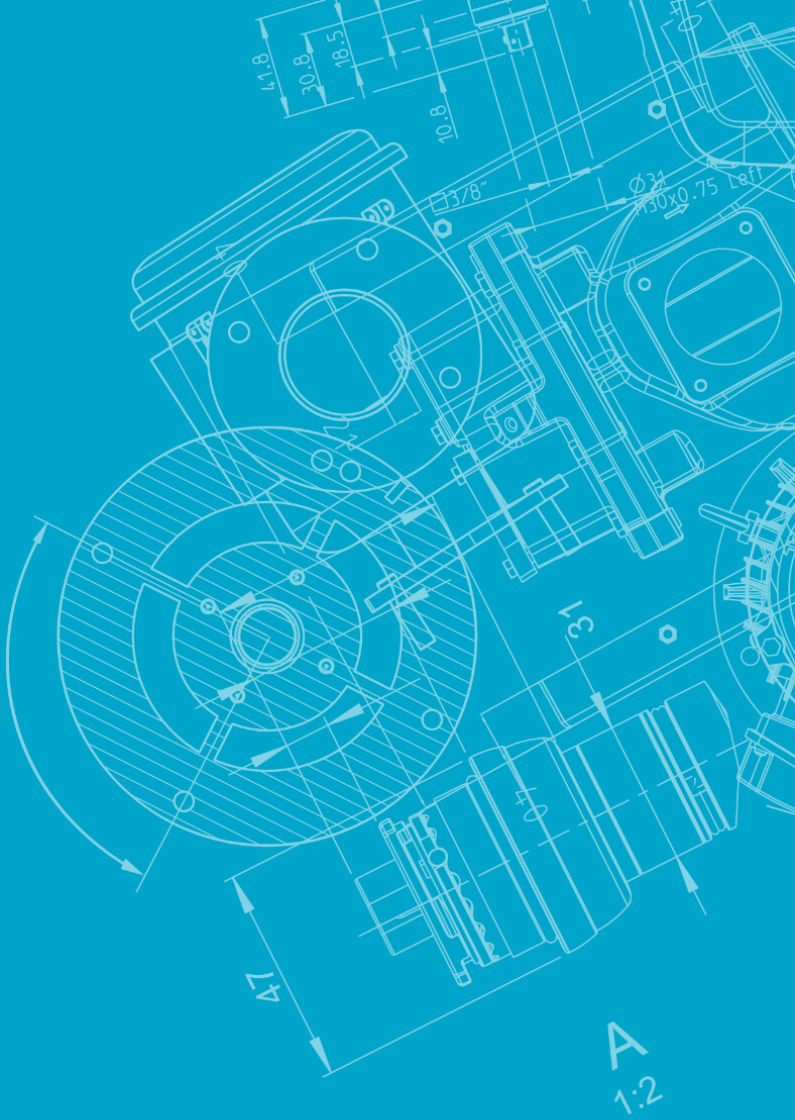
# Oil-free rotary tooth compressor

ZR/ZT 30-50 VSD+

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# Oil-free to protect your products

Atlas Copco ZR/ZT 30-50 VSD⁺ tooth compressors are designed for operations needing a non-stop supply of the highest quality compressed air. In industries ranging from pharmaceutical manufacturing and packaging to food & beverage, electronics, and automotive paint spraying, they are renowned for the peace of mind that comes with reliable production and zero risk of oil contamination.

### Highest reliability

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.

### 100% oil-free compressed air

The ZR/ZT offers you 100% pure, clean air that complies with ISO 8573-1 CLASS 0 (2010) certification.

### Maximum energy efficiency

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

### The most complete package

With the ZR/ZT compressor, Atlas Copco provides a totally integrated, ready-to-use package including internal piping, coolers, motor, lubrication and control system.

### Peaceful productivity

Low noise levels (70 dBA) support a more comfortable, safer , and focused working environment.

### Energy Recovery

Turn your compressor into an energy source with our Energy Recovery control unit. Achieve hot water temperatures up to 90°C.

# Optimum air quality

By using our compressors and air treatment equipment you will avoid dust, water or oil in your process. It's important to have the right air quality to maximize your efficiency. If the air quality is too low, you will reduce the reliability of production equipment or processes. If the air quality is too high you're wasting energy. Therefore it's crucial to have the right air quality for your needs.

## The perfect installation for your requirements

You have to avoid 3 things: water, dust & oil contaminants.

**Water**

Water in compressed air creates corrosion, rust and can damage your end product. We have twin, desiccant and rotary drum dryers to remove any level of water in your air.

**Dust**

Dust in your compressed air creates extra friction, which leads to extra wear & tear in e.g. pneumatics. Our wide range of filtration solutions can remove all levels of dust in your system.

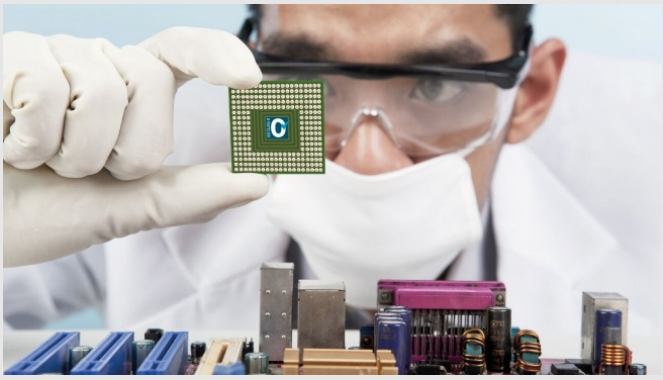
**Oil**

Oil particles entering the compressed air system can create product contamination and damage your end products. With our oil-free products and filtration solutions we can deliver Class-0 air for industries like food & beverage, medical & health care, textiles, and chemical.

## Which air quality do you require?

CLASS 0 = As specified by the equipment user or supplier and more stringent than class 1
CLASS 1 = < 0.01
CLASS 2 = < 0.0
CLASS 3 = < 1
CLASS 4 = < 5

Current ISO 8573-1 (2010) classes (the five main classes and the associated maximum concentration in total oil content). Concentration total oil (aerosol, liquid, vapor) mg/m$^3$. Contact your local Atlas Copco representative to decide the right air quality for your application needs.



## Our air treatment portfolio

**Refrigerant dryer**
Refrigerant dryers are the most common and consist of an air-to-air heat exchanger and an air-to-Freon heat exchanger. They are used to avoid free water and corrosion in the system. A relative humidity of below 50% is enough to achieve this. Refrigerant dryers are available in water-& air-cooled variants.

**Desiccant dryer**
Adsorption dryers are used when the compressed air application requires a pressure dew point below 0°C. In most cases, the dryers consist of two pressure vessels next to each other. Both vessels are filled with desiccant. When one vessel is removing moisture, the other is regenerating and vice versa.

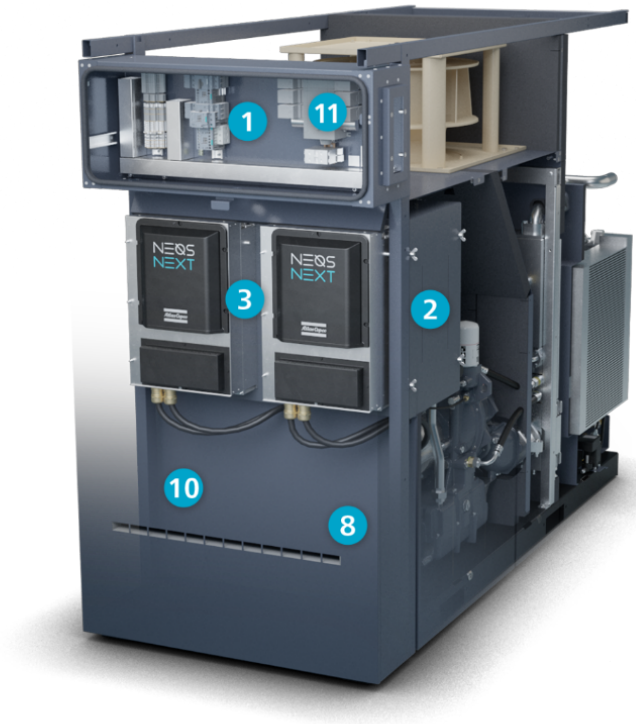
**Drum dryer**
A rotary drum dryer exists of one vessel with a drum. This drum is a honeycomb structure on which the adsorption material is impregnated. ¾ of the drum is used to dry the compressed air, while the other quarter is used for regeneration. The regeneration is done with hot compressed air.

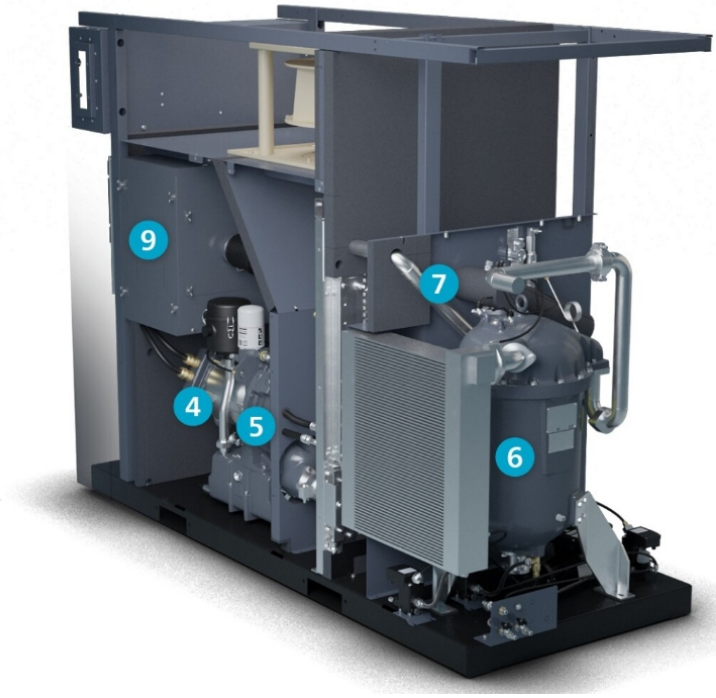
**Filters**
We offer a wide selection of utility and process filtration solutions for compressed air and gas with different filter types and grades to remove any dust or micro organisms from your compressed air system.

# Engineered to enhance your profits

To ensure the success of your business, you need to guarantee consistent quality while minimizing your overheads. A ZR/ZT 30-50 VSD⁺ compressor keeps you on track by delivering a reliable supply of clean, dry air with the lowest possible energy consumption for your operation. To cut running costs even further, every component is optimized for long life and easy servicing.

# ZT 30-50 VSD+ FF iMD



## 1 Advanced Elektronikon® monitoring system

– Touch screen operating system with numerous control and monitoring features
– Embedded control algorithms enhance efficiency and reliability

## 2 Soundproof canopy

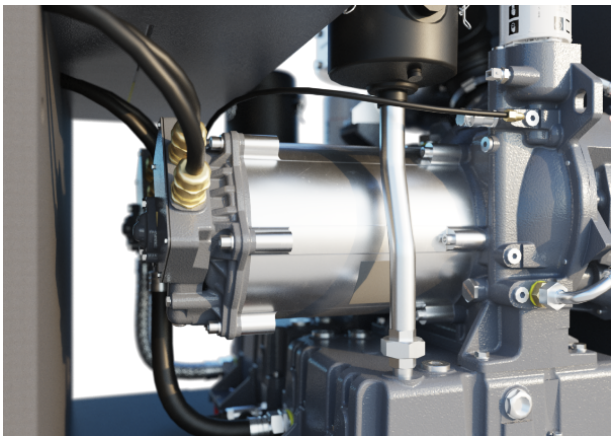
– Sound insulation allows for installation in most working environments
– No need for a separate compressor room

## 3 NEOS Next frequency converters

– In-house designed NEOS Next frequency converters ensure stable operation up to 50°C/122°F
– IP54 grade protection for reliability even in harsh conditions
– NEOS Next contains the main frequency drive for the drive motor plus an auxiliary drive for the cooling fan and dryer
– Two NEOS Next frequency converters are combined with two IE5 ultra-premium efficient permanent magnet motors to optimize load distribution at every running condition
– ZT 30-50 VSD+ compressors can range between 28 and 100% of their maximum capacity (turn down 72%), ensuring stable net pressures and maximum energy savings

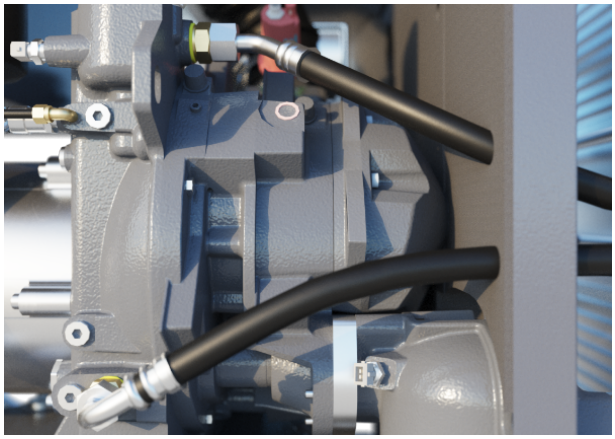

## 4 Mechanical drive system

– Two direct coupled permanent magnet drive motors for the low- and high-pressure elements, each with its own frequency converter
– Oil-cooled motors with IP66 grade protection grade and proven performance in the field
– Optimized intercooler pressure for the complete speed range for premium reliability and efficiency



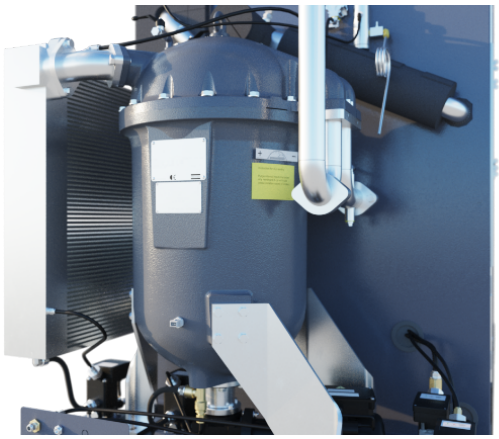
## 5 Oil-free tooth element

– Proven reliability and durability
– Most efficient element in this power range of oil-free compressors



## 6 Integrated dryer

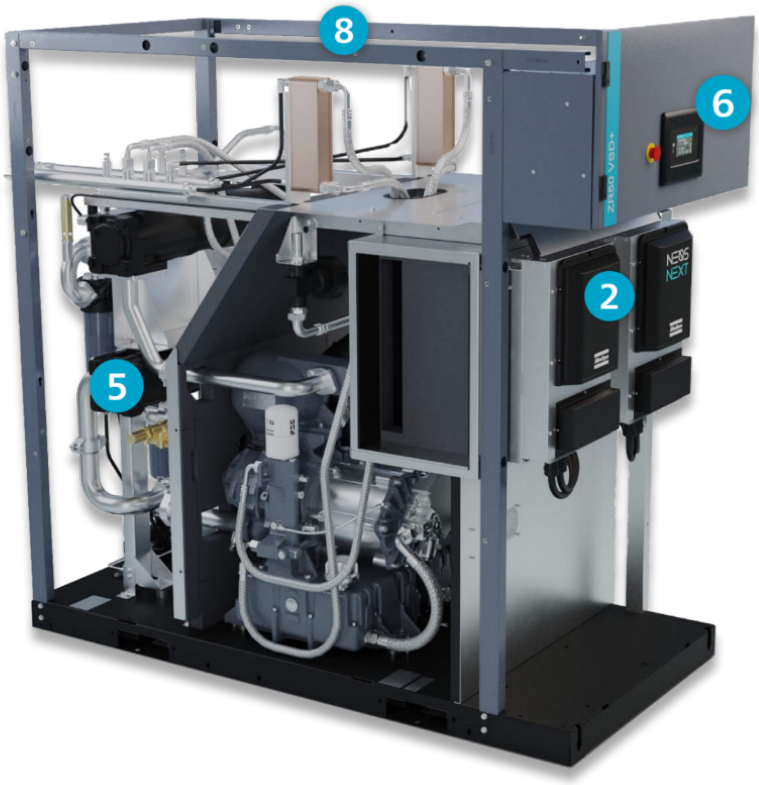
– Reduces energy consumption of the integrated air treatment in light load conditions
– Improved water separation
– More stable Pressure Dew Point (PDP)

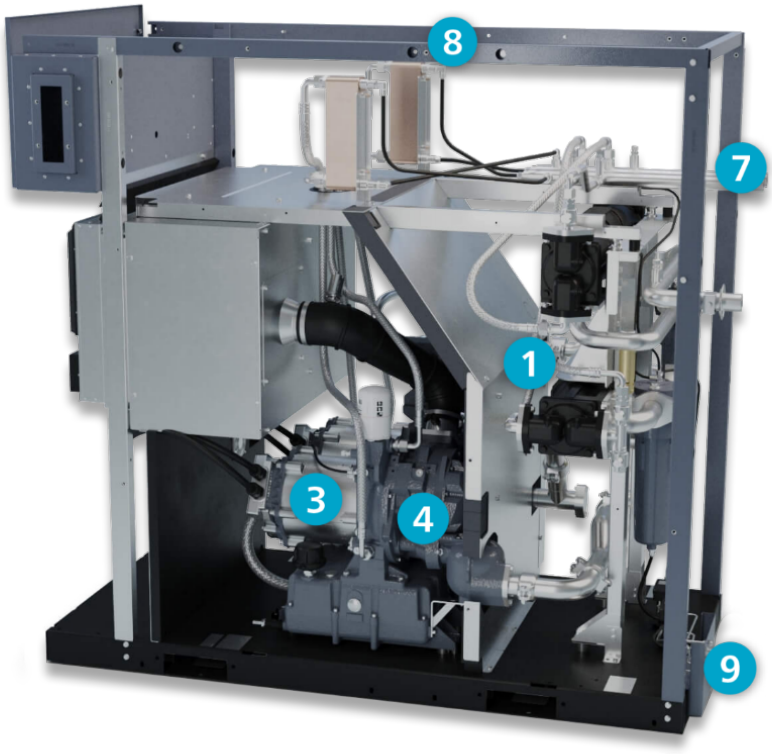


## 7 Reliable cooling

– Available in both air-cooled and water-cooled versions
– Frequency-controlled fan optimizes cooling for all running conditions
– Oil cooling shields permanent magnet motors from the environment and makes them more robust

# ZR 30-50 VSD+



## 1 Soundproof canopy

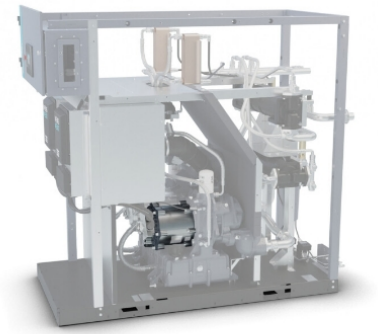
– Sound insulation allows for installation in most working environments
– No need for a separate compressor room

## 2 NEOS Next frequency converters

– In-house designed NEOS Next frequency converters ensure stable operation up to 50°C/122°F
– IP54 grade protection for reliability even in harsh conditions
– NEOS Next contains the main frequency drive for the drive motor plus an auxiliary drive for the cooling fan and dryer
– Two NEOS Next frequency converters are combined with two IE5 ultra-premium efficient permanent magnet motors to optimize load distribution at every running condition

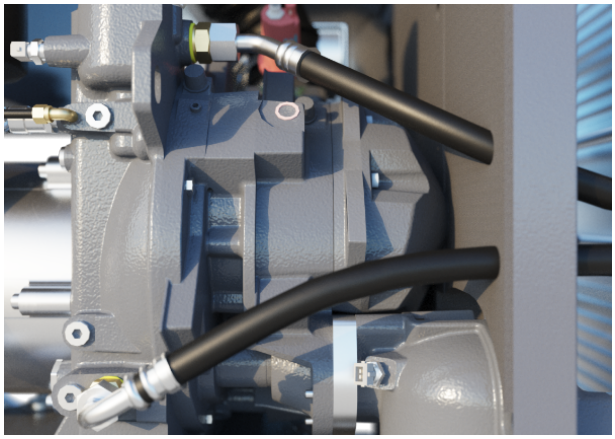

## 3 Permanent magnet motor

– A proven design with a direct coupled permanent magnet drive motor for low- and high-pressure element, each with their own frequency converter
– Oil cooled permanent magnet motors with IP66 protection grade that have stood the test of time in other product ranges in real field conditions
– Optimization of intercooler pressure for the complete speed range. That is premium reliability combined with premium efficiency.



## 4 Oil-free tooth element

– Proven reliability and durability
– Most efficient element in this power range of oil-free compressors



## 5 Reliable cooling

– Available in both air-cooled and water-cooled versions
– Frequency-controlled fan optimizes cooling for all running conditions
– Oil cooling shields permanent magnet motors from the environment and makes them more robust

## 6 Advanced Elektronikon® monitoring system

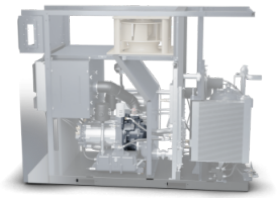
– Touch screen operating system with numerous control and monitoring features
– Embedded control algorithms enhance efficiency and reliability

# Building energy savings into your process

Did you know that compressed air generation can amount 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? For businesses serious about increasing their profits, energy consumption is an obvious target. It was therefore one of the leading design priorities for our ZR/ZT 30-50 VSD⁺ compressors.

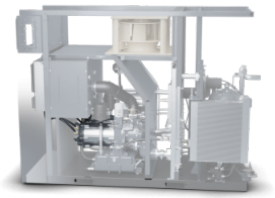
## Energy-saving components

Our engineers took every opportunity to reduce energy consumption in these machines. The patented elements are designed in-house for maximum efficiency. A superior coating on the active surfaces of the stainless steel rotors contributes to the most efficient oil-free tooth technology in this capacity range. A unique Z seal design further reduces running costs and guarantees 100% certified oil-free air for your application.



### Oil-free Tooth Element

Our in-house designed oil-free tooth element boosts efficiency by delivering consistent, high-performance compression with minimal energy loss. Its streamlined design ensures low unload power, helping the machine use less energy while maintaining top output.

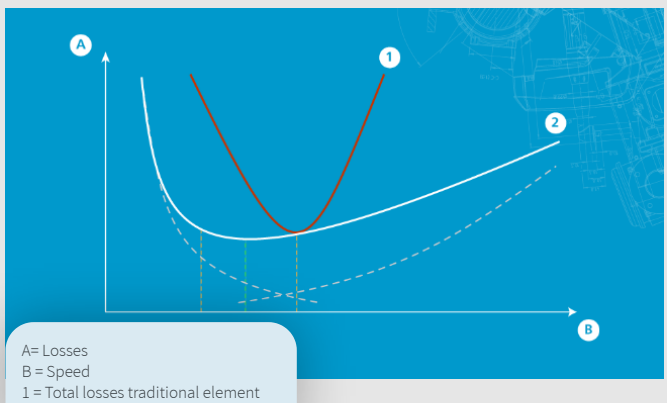


### Motor

The IE5 permanent magnet motor in our oil-free tooth FLX machine achieves up to 97% energy efficiency, ensuring maximum power conversion and reduced energy consumption during operation

### Neos Next

Our patented NEOS Next drives improve energy efficiency by minimizing power use during unload and enabling smart speed control across varying air demands.




## VSD⁺ with dual NEOS drives

Atlas Copco pioneered VSD technology in the compressed air industry to offer major energy savings while protecting the environment for future generations. Today, we offer the widest range of integrated VSD compressors on the market.

VSD technology automatically adjusts the motor speed to air demand, reducing energy consumption by up to 35%. For the ZR/ZT 30-50 VSD⁺ range, we added a specially designed NEOS inverter to constantly optimize the motor speed, and our own Permanent Magnet Motor for class-leading efficiency.

Featuring dual NEOS drives, the ZR/ZT 30-50 VSD⁺ range has the widest operating range on the market. The units can operate from 28 to 100% load without wasting energy from unloaded operation, resulting in huge energy savings during periods of low to medium air demand. The dual NEOS drive system also keeps the compressor working at optimal efficiency – at any pressure – consuming less energy than a standard fixed speed machine or a VSD machine with a fixed gear ratio.

# Installation

Scan the QR code to explore a typical installation of the ZR/ZT 30-50 VSD+ compressor range.

# Solid, stable, and built to last

From robust, time-proven components to the most effective cooling technologies, ZR/ZT 30-50 VSD+ compressors are packed with innovations that keep your process running smoothly and continuously day after day, year after year. Along with first-class reliability to ensure uninterrupted production, we are committed to excellent service with strong local presence. Our expert teams are always on hand to answer questions, discuss solutions and take care of your servicing and maintenance needs.

### Complete solutions and Total Responsibility

Atlas Copco is much more than a compressor manufacturer. We provide complete compressed air solutions that take as much work as possible out of our customers' hands, leaving them free to focus on their core business. This includes assistance with equipment selection, purchasing, installation, adaptations, optimization, auditing, maintenance, spare parts, service plans and access to our profound and wide-ranging expertise.

## Oil-free air compressors for clean air

For the past sixty years, Atlas Copco has been pioneering the development of oil-free air technology, resulting in a range of oil-free air compressors designed specifically for applications that can make no compromise when it comes to clean, 100% oil-free air. By maintaining and strengthening its world-leading position through continuous research and development, Atlas Copco was able to achieve a new milestone in setting the standard for air purity: it was the first manufacturer to be awarded ISO 8573-1, ed3. 2012, Class 0, for oil content.

## 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 enabling timely component replacement. This results in more uptime and prevents production loss.

## Total Responsibility Plan

Our **Total Responsibility Plan** is a comprehensive service plan that keeps your equipment running optimally in all conditions. It covers preventive maintenance, breakdown risk reduction, quick resolution of any performance issues and, if necessary, complete overhauls.

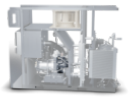
# Options for every application

The standard ZR/ZT 30-50 VSD+ package can be customized with a range of optional features to tailor its performance for different production environments.

| | |
|---|---|
| Anchor pads | Integrated refrigerant dryer (ID) |
| ANSI flanges | Integrated MD dryer (iMD) for moisture sensitive applications |
| High ambient variant for warm regions (50°C ambient temperature) | Dryer bypass |
| Flanged inlet | Silicone-free rotor (for MD) for deeper dewpoints |
| Main power isolator switch | Anti condensation heaters |
| IT variant (IEC variants only) | MD heater for deeper dewpoints |
| Test certificate | Fast Acting Fuse |
| Energy Recovery | Water shut-off valve |

iMD [1]

MD heater [2]



Silicon-free rotor [3]

High ambient variant [4]

Further customisation [5]

[1] For moisture sensitive applications you can opt for the integrated rotary drum dryer (iMD) that ensures negative pressure dew points at reference conditions and saves on footprint and installation costs.

[2] For deeper dewpoints you can opt for the optional MD heater that further increases the regeneration temperature to lower the pressure dew point.

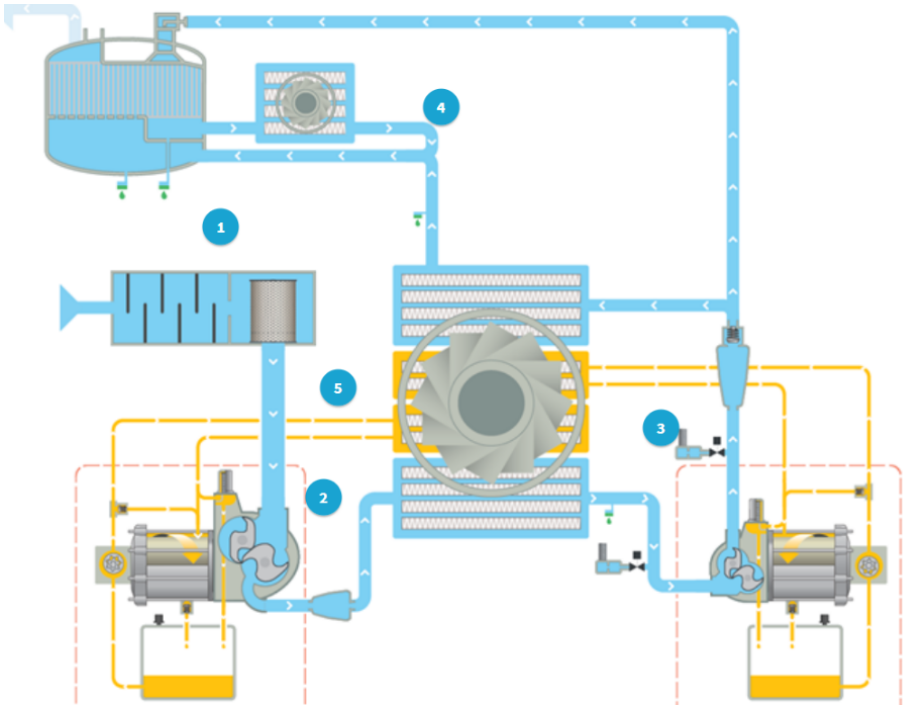
[3] For applications like paint shops, we offer an optional silicon-free rotor to match the requirements.

[4] For warm regions our VSD+ unit with high ambient version is designed to run trouble-free round the clock at a 50°C ambient temperature, with the frequency drive also designed for 50°C without any derating.

[5] With a dedicated customization team, we can further tailor our units to your requirements.

Please note that the availability of the option depends on the chosen configuration.

# Oil and air flows: your step-by-step guide




**Legend:**

**1.** Inlet & filtration

**2.** First compression & cooling

**3.** Second compression & cooling

**4.** Integrated dryer

**5.** Oil flow

## Inlet & filtration

The air (represented by the light blue flow) is drawn into the compressor through the inlet filter, where it is cleaned. Then it passes through the throttle valve with its integrated blow off valve which takes care of the load unload regulation. The air then continues to the compression stage.

## First compression & cooling

The air pressure is raised to an intermediate pressure, after which the air is cooled down in the intercooler. Next it passes through a moisture separation system before entering the high pressure stage.

## Second compression & cooling

In the high pressure stage, the pressure is brought to the final pressure. The air at the outlet of the high pressure stage passes via the pulsation damper with integrated check valve to the aftercooler. Here it is cooled down and moisture is separated and evacuated. The compressed air leaves the compressor through the outlet connection flange.

## Integrated dryer

The cooled wet compressed air is mixed with 40% of the cooled regeneration air and enters the dryer. The dry compressed air with guaranteed dew point is now ready for use in your application.

## Oil flow

The oil path within the compressor is represented by the yellow flow. The oil pump sucks oil from the oil sump and pumps it through the oil cooler and the high efficiency filter. This delivers cool, clean oil to the bearings and gears. Note that oil never comes into contact with the air. This ensures completely oil-free air for your process.

# Specifications 8.6 bar version

**Specifications ZR/ZT 30-50 VSD⁺ 8.6 bar (Metric)**

| TYPE | Working pressure | | Free Air Delivery | | Power rating | Noise level |
|---|---|---|---|---|---|---|
| | bar(e) | | l/s | m³/min | kW | dB(A) |
| ZR 30 VSD⁺ – 8.6 | Minimum | 4 | 38 – 94 | 2.28 – 5.64 | 30 | 66 |
| | Effective | 7 | 37 – 92 | 2.22 – 5.52 | | |
| | Maximum | 8.6 | 36 – 72 | 2.16 – 4.32 | | |
| ZT 30 VSD⁺ – 8.6 | Minimum | 4 | 40.4 – 95.5 | 2.42 – 5.73 | | |
| | Effective | 7 | 39.9 – 93.6 | 2.36 – 5.62 | | |
| | Maximum | 8.6 | 37.9 – 74.8 | 2.28 – 4.49 | | |
| ZR 37 VSD⁺ – 8.6 | Minimum | 4 | 38 – 107 | 2.28 – 6.42 | 37 | 68 |
| | Effective | 7 | 37 – 105 | 2.22 – 6.30 | | |
| | Maximum | 8.6 | 36 – 94 | 2.16 – 5.64 | | |
| ZT 37 VSD⁺ – 8.6 | Minimum | 4 | 40.4 – 112.6 | 2.42 – 6.75 | | 69 |
| | Effective | 7 | 39.9 – 110.1 | 2.36 – 6.61 | | |
| | Maximum | 8.6 | 37.9 – 95.6 | 2.28 – 5.74 | | |
| ZR 45 VSD⁺ – 8.6 | Minimum | 4 | 38 – 132 | 2.28 – 7.92 | 45 | 67 |
| | Effective | 7 | 37 – 129 | 2.22 – 7.74 | | |
| | Maximum | 8.6 | 36 – 111 | 2.16 – 6.66 | | |
| ZT 45 VSD⁺ – 8.6 | Minimum | 4 | 40.4 – 135.8 | 2.42 – 8.15 | | 68 |
| | Effective | 7 | 39.3 – 132.3 | 2.36 – 7.94 | | |
| | Maximum | 8.6 | 37.9 – 118.2 | 2.28 – 7.09 | | |
| ZR 50 VSD⁺ – 8.6 | Minimum | 4 | 38 – 150 | 2.28 – 9.00 | 50 | 69 |
| | Effective | 7 | 37 – 147 | 2.22 – 8.82 | | |
| | Maximum | 8.6 | 36 – 143 | 2.16 – 8.58 | | |
| ZT 50 VSD⁺ – 8.6 | Minimum | 4 | 40.4 – 153.7 | 2.42 – 9.22 | | 70 |
| | Effective | 7 | 39.3 – 147.0 | 2.36 – 8.82 | | |
| | Maximum | 8.6 | 47.2 – 144.5 | 2.83 – 8.67 | | |

**Specifications ZR/ZT 30-50 VSD⁺ 8.6 bar (Imperial)**

| TYPE | Working pressure | | Free Air Delivery | | Power rating | Noise level |
|---|---|---|---|---|---|---|
| | psig | | l/s | cfm | Hp | dB(A) |
| ZR 30 VSD⁺ – 8.6 | Minimum | 58 | 38 – 94 | 80.5 – 199 | 40 | 66 |
| | Effective | 102 | 37 – 92 | 78.4 – 195 | | |
| | Maximum | 125 | 36 – 72 | 76.3 – 152.5 | | |
| ZT 30 VSD⁺ – 8.6 | Minimum | 58 | 40.4 – 95.5 | 85.5 – 202.3 | | |
| | Effective | 102 | 39.9 – 93.6 | 83.2 – 198.3 | | |
| | Maximum | 125 | 37.9 – 74.8 | 80.3 – 158.4 | | |
| ZR 37 VSD⁺ – 8.6 | Minimum | 58 | 38 – 107 | 80.5 – 227 | 50 | 68 |
| | Effective | 102 | 37 – 105 | 78.4 – 222.5 | | |
| | Maximum | 125 | 36 – 94 | 76.3 – 199 | | |
| ZT 37 VSD⁺ – 8.6 | Minimum | 58 | 40.4 – 112.6 | 85.5 – 238.5 | | 69 |
| | Effective | 102 | 39.9 – 110.1 | 83.2 – 223.4 | | |
| | Maximum | 125 | 37.9 – 95.6 | 80.3 – 202.6 | | |
| ZR 45 VSD⁺ – 8.6 | Minimum | 58 | 38 – 132 | 80.5 – 280 | 60 | 67 |

| TYPE | Working pressure | | Free Air Delivery | | Power rating | Noise level |
|---|---|---|---|---|---|---|
| | psig | | l/s | cfm | Hp | dB(A) |
| | Effective | 102 | 37 – 129 | 78.4 – 273 | | |
| | Maximum | 125 | 36 – 111 | 76.3 – 235 | | |
| ZT 45 VSD+ – 8.6 | Minimum | 58 | 40.4 – 135.8 | 85.5 – 287.7 | | 68 |
| | Effective | 102 | 39.3 – 132.3 | 83.2 – 280.2 | | |
| | Maximum | 125 | 37.9 – 118.2 | 80.3 – 250.5 | | |
| ZR 50 VSD+ – 8.6 | Minimum | 58 | 38 – 150 | 80.5 – 318 | 67 | 69 |
| | Effective | 102 | 37 – 147 | 78.4 – 311 | | |
| | Maximum | 125 | 36 – 143 | 76.3 – 303 | | |
| ZT 50 VSD+ – 8.6 | Minimum | 58 | 40.4 – 153.7 | 85.5 – 325.6 | | 70 |
| | Effective | 102 | 39.3 – 147.0 | 83.2 – 311.5 | | |
| | Maximum | 125 | 47.2 – 144.5 | 100.0 – 306.1 | | |

### Weight ZR/ZT 30-50 VSD+ 8.6 bar (Metric)

| TYPE | Weight (kg) | | |
|---|---|---|---|
| | Pack | Full Feature (iMD) | Full feature (iD) |
| ZR/ZT 30 VSD+ | 1350 | 1610 | 1504 |
| ZR/ZT 37 VSD+ | | | |
| ZR/ZT 45 VSD+ | 1373 | 1646 | 1531 |
| ZR/ZT 50 VSD+ | | | |

### Weight ZR/ZT 30-50 VSD+ 8.6 bar (Imperial)

| TYPE | Weight (lbs) | | |
|---|---|---|---|
| | Pack | Full Feature (iMD) | Full feature (iD) |
| ZR/ZT 30 VSD+ | 2976 | 3549 | 3316 |
| ZR/ZT 37 VSD+ | | | |
| ZR/ZT 45 VSD+ | 3027 | 3629 | 3375 |
| ZR/ZT 50 VSD+ | | | |

Data may vary for other operating modes, versions and conditions. Consult Atlas Copco for details.

Data and specifications are subject to change without prior notice.

### Dimensions ZR/ZT 30-50 VSD+ 8.6 bar

| TYPE | Length | Width | Height |
|---|---|---|---|
| | mm / inch | | |
| ZR/ZT 30-50 VSD+ | 2005 / 79 | 1022 / 40 | 1909 / 75 |
| ZR/ZT 30-50 VSD+ (FF) | 2440 / 88 | 1022 / 40 | 1909 / 75 |

# Specifications 10 bar version

**Specifications ZR/ZT 30-50 VSD⁺ 10 bar (Metric)**

| TYPE | Working pressure | | Free Air Delivery | | Power rating | Noise level |
|---|---|---|---|---|---|---|
| | bar(e) | | l/s | $m^3$/min | kW | dB(A) |
| ZR 30 VSD⁺ – 10.0 | Minimum | 4 | 38 – 94 | 2.28 – 5.64 | 30 | 66 |
| | Effective | 9 | 37 – 92 | 2.22 – 5.52 | | |
| | Maximum | 10 | 35 – 62 | 2.10 – 3.72 | | |
| ZT 30 VSD⁺ – 10.0 | Minimum | 4 | 40.4 – 95.5 | 2.42 – 5.73 | | |
| | Effective | 9 | 37.7 – 71.7 | 2.3 – 4.30 | | |
| | Maximum | 10 | 36.9 – 64.8 | 2.2 – 3.89 | | |
| ZR 37 VSD⁺ – 10.0 | Minimum | 4 | 38 – 107 | 2.28 – 6.42 | 37 | 68 |
| | Effective | 9 | 37 – 105 | 2.22 – 6.30 | | |
| | Maximum | 10 | 35 – 82 | 2.10 – 4.92 | | |
| ZT 37 VSD⁺ – 10.0 | Minimum | 4 | 40.4 – 112.6 | 2.4 – 6.75 | | 69 |
| | Effective | 9 | 37.7 – 92.5 | 2.3 – 5.55 | | |
| | Maximum | 10 | 36.9 – 84.9 | 2.2 – 5.09 | | |
| ZR 45 VSD⁺ – 10.0 | Minimum | 4 | 38 – 132 | 2.28 – 7.92 | 45 | 67 |
| | Effective | 9 | 37 – 129 | 2.22 – 7.74 | | |
| | Maximum | 10 | 35 – 95 | 2.10 – 5.70 | | |
| ZT 45 VSD⁺ – 10.0 | Minimum | 4 | 40.4 – 135.8 | 2.4 – 8.15 | | 68 |
| | Effective | 9 | 37.7 – 112.5 | 2.3 – 6.75 | | |
| | Maximum | 10 | 36.9 – 96.9 | 2.2 – 5.81 | | |
| ZR 50 VSD⁺ – 10.0 | Minimum | 4 | 38 – 150 | 2.28 – 9.00 | 50 | 69 |
| | Effective | 9 | 37 – 147 | 2.22 – 8.82 | | |
| | Maximum | 10 | 35 – 128 | 2.10 – 7.68 | | |
| ZT 50 VSD⁺ – 10.0 | Minimum | 4 | 40.4 – 153.7 | 2.4 – 9.22 | | 70 |
| | Effective | 9 | 37.7 – 141.0 | 2.3 – 8.46 | | |
| | Maximum | 10 | 36.9 – 130.5 | 2.2 – 7.83 | | |

**Specifications ZR/ZT 30-50 VSD⁺ 10 bar (Imperial)**

| TYPE | Working pressure | | Free Air Delivery | | Power rating | Noise level |
|---|---|---|---|---|---|---|
| | psig | | l/s | cfm | hp | dB(A) |
| ZR 30 VSD⁺ – 10.0 | Minimum | 58 | 38 – 92 | 80.5 – 199 | 40 | 66 |
| | Effective | 130 | 37 – 92 | 78.4 – 195 | | |
| | Maximum | 150 | 35 – 62 | 74 – 131 | | |
| ZT 30 VSD⁺ – 10.0 | Minimum | 58 | 40.4 – 95.5 | 85.5 – 202.3 | | |
| | Effective | 130 | 37.7 – 71.7 | 79.8 – 151.9 | | |
| | Maximum | 145 | 36.9 – 64.8 | 78.1 – 137.3 | | |
| ZR 37 VSD⁺ – 10.0 | Minimum | 58 | 38 – 107 | 80.5 – 227 | 50 | 68 |
| | Effective | 130 | 37 – 105 | 78.4 – 222 | | |
| | Maximum | 150 | 35 – 82 | 74 – 174 | | |
| ZT 37 VSD⁺ – 10.0 | Minimum | 58 | 40.4 – 112.6 | 85.5 – 238.5 | | 69 |
| | Effective | 130 | 37.7 – 92.5 | 79.8 – 196.1 | | |
| | Maximum | 145 | 36.9 – 84.9 | 78.1 – 179.9 | | |
| ZR 45 VSD⁺ – 10.0 | Minimum | 58 | 38 – 132 | 80.5 – 279 | 60 | 67 |

| TYPE | Working pressure | | Free Air Delivery | | Power rating | Noise level |
|---|---|---|---|---|---|---|
| | psig | | l/s | cfm | hp | dB(A) |
| | Effective | 130 | 37 – 129 | 78.4 – 273 | | |
| | Maximum | 150 | 35 – 95 | 74 – 201 | | |
| ZT 45 VSD⁺ – 10.0 | Minimum | 58 | 40.4 – 135.8 | 85.5 – 287.7 | | 68 |
| | Effective | 130 | 37.7 – 112.5 | 79.8 – 238.4 | | |
| | Maximum | 145 | 36.9 – 96.9 | 78.1 – 205.3 | | |
| ZR 50 VSD⁺ – 10.0 | Minimum | 58 | 38 – 150 | 80.5 – 318 | 67 | 69 |
| | Effective | 130 | 37 – 147 | 78.4 – 311 | | |
| | Maximum | 150 | 35 – 128 | 74 – 271 | | |
| ZT 50 VSD⁺ – 10.0 | Minimum | 58 | 40.4 – 153.7 | 85.5 – 325.6 | | 70 |
| | Effective | 130 | 37.7 – 141.0 | 79.8 – 298.7 | | |
| | Maximum | 145 | 36.9 – 130.5 | 78.1 – 276.5 | | |

### Weight ZR/ZT 30-50 VSD⁺ 10 bar (Metric)

| TYPE | Weight (kg) | | |
|---|---|---|---|
| | Pack | Full Feature (iMD) | Full Feature (iD) |
| ZR/ZT 30 VSD⁺ – 10.0 | 1350 | 1610 | 1504 |
| ZR/ZT 37 VSD⁺ – 10.0 | | | |
| ZR/ZT 45 VSD⁺ – 10.0 | 1373 | 1646 | 1531 |
| ZR/ZT 50 VSD⁺ – 10.0 | | | |

### Weight ZR/ZT 30-50 VSD⁺ 10 bar (Imperial)

| TYPE | Weight (lbs) | | |
|---|---|---|---|
| | Pack | Full Feature (iMD) | Full Feature (iD) |
| ZR/ZT 30 VSD⁺ – 10.0 | 2976 | 3549 | 3316 |
| ZR/ZT 37 VSD⁺ – 10.0 | | | |
| ZR/ZT 45 VSD⁺ – 10.0 | 3027 | 3629 | 3375 |
| ZR/ZT 50 VSD⁺ – 10.0 | | | |

### Dimensions ZR/ZT 30-50 VSD⁺ 10 bar

| TYPE | Length | Width | Height |
|---|---|---|---|
| | mm / inch | | |
| ZR/ZT 30-50 VSD⁺ | 2005 / 79 | 1022 / 40 | 1909 / 75 |
| ZR/ZT 30-50 VSD⁺ (FF) | 2440 / 88 | 1022 / 40 | 1909 / 75 |

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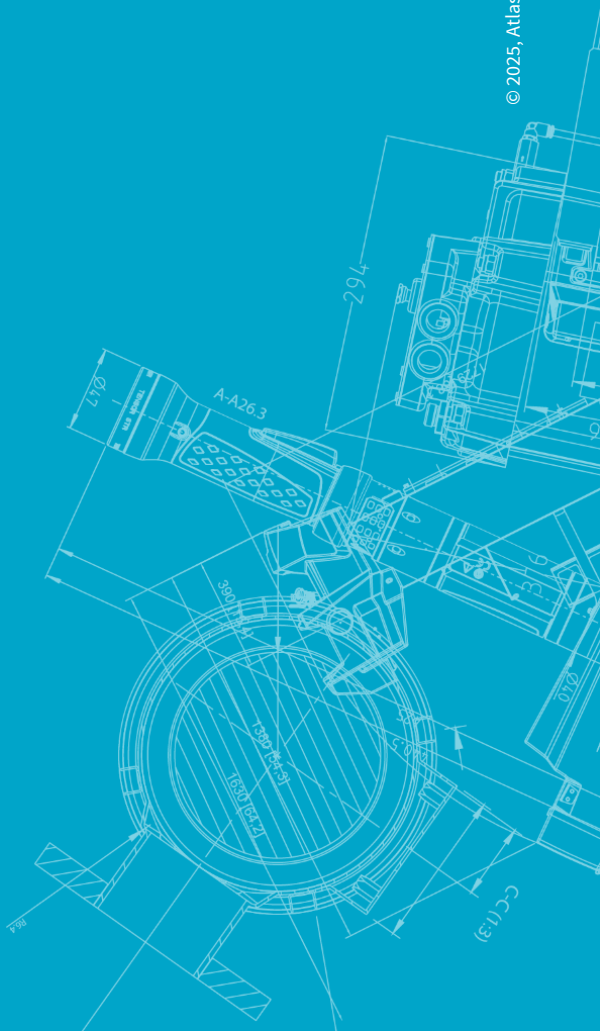


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