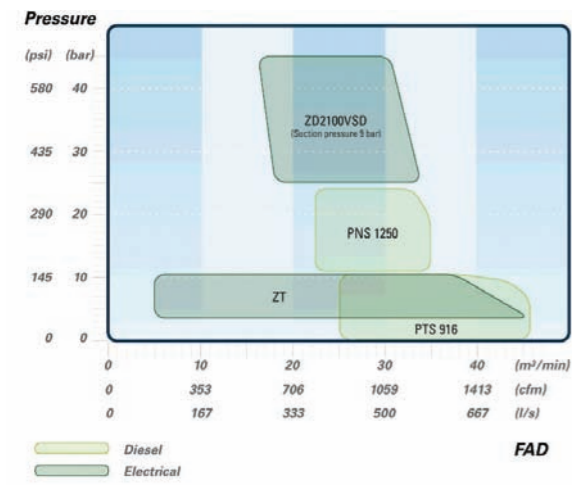


# Rental product solutions

offered by Atlas Copco Specialty Rental

# Oil-free Air Specialty Rental

## Overview of our oil-free compressors



## Highlights of Atlas Copco Specialty Rental

### Individual Solutions

Our diversity and range of equipment allow us to create an individualized solution for your specific needs by configuring single or multiple compressors supplemented by boosters and accessories as required.

### Reliability

You can count on the proven reliability of Atlas Copco compressors to minimize downtime.

### Technical Expertise

Our cumulative experience contributes to our outstanding reputation as specialists in custom solutions.

### Ease of use

Your own personnel can operate the Atlas Copco Specialty Rental equipment with easy-to-use controls, making specialized crews or contractors unnecessary.

### Contingency planning

You need to have a contingency plan in place for unscheduled/emergency situations such as natural disasters. Let one of our experienced representatives design a plan that matches your specific needs.

### It's all about solutions

Industry turns to Atlas Copco Specialty Rental because we deliver individualized solutions that work.

	ZD 2100 VSD		
	ZT 250 VSD FF	DNS 160 VSD	ZD-Package

General Information				
Suction pressure	bar(e)	0	7,5 - 10,5	0
Outlet Pressure	bar(e)	4 - 10,4	25 - 45	7 - 10.4 / 25 - 45
Ambient temperature	°C	-25 / +45	-25 / +45	-25 / +45
Dimensions ( l x w x h)	m	6,0 x 2,4 x 2,9	6,0 x 2,4 x 2,6	see Z + D
Weight	kg	12,300	20,900	33,200
Noise level (Lp) 7m	dB(A)	74	72	74
Input motor power ( 400V/50hz)	kW	289	148	473
Line current - In	A	426	250	676
Starting current	A	<In (VSD)	<In (VSD)	<In (VSD)
Fuse	A	500	400	500 + 400
Capacity				
FAD(*) @ 0bar(e) inlet - 9bar(e) outlet	m³/min	21,9 - 36,9	-	-
FAD(*) @ 9bar(e) inlet - 45bar(e) outlet	m³/min	-	18,4 - 34,5	18,4 - 34,5
FAD(*) @ 9bar(e) inlet - 40bar(e) outlet	m³/min	-	18,9 - 35,3	18,9 - 35,3
FAD(*) @ 9bar(e) inlet - 25bar(e) outlet	m³/min	-	20,3 - 37,9	20,3 - 36,9

(\*) At reference conditions and according ISO 1217

[www.atlascopco.com/rental](http://www.atlascopco.com/rental)

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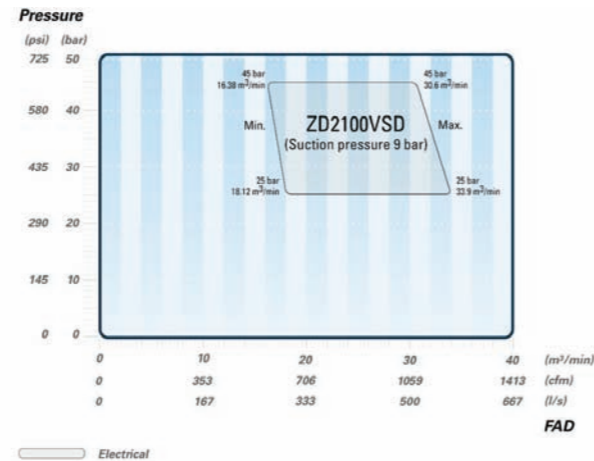
## ZD2100 VSD

100 % oil-free high-pressure air compressor



# Going to higher pressures and still **100 % oil-free**

Atlas Copco Specialty Rental has always been a pioneer in finding new solutions: by analyzing the needs in various industries, and by exploring the matching technologies, we continuously expand our offering to meet even the most challenging needs. Some years ago this resulted in the first ever 3 stage 100% oil-free air compressor for applications between 10 and 24 bar. Today we are proud to say we can offer a solution for all requests for oil-free air between 25 and 45 bar with the 4 stage ZD2100 VSD.



## Defining stages in the solution

The concept of the ZD2100 VSD is based on the idea of combining forces of two compressors resulting in a solution where the whole is more than the sum of its parts.

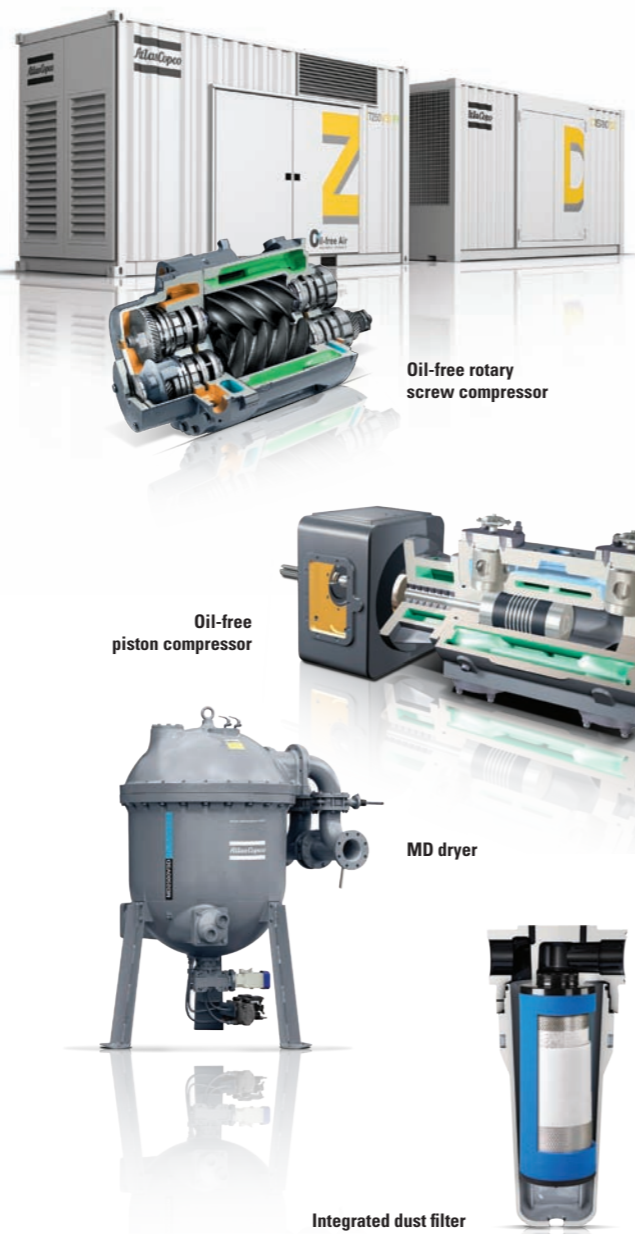
Two 20 foot containers hold the ingredients for a highly reliable, high quality, environmentally friendly solution for the high pressure needs in various industries. A solution that is easily handled and adjustable to variable applications.

**Guaranteed 100% oil-free air** thanks to Atlas Copco's oil-free screw and oil-free piston compressor technology, reliable building blocks based on 40 years experience.

Thirty years experience are behind the integrated unique MD dryer, delivering **dry air** with a pressure dew point of 3 °C at 40 bar.

Integrated dust filters filter out particles up from 0,1 micron, resulting in ISO 8573-1 Class 1 **clean air** at the outlet of the ZD package.

The 100% oil-free, dry, clean air solution of the ZD2100 combination is highly flexible. A variable speed drive allows a variable compressor capacity with a **wide operating range** from 55 to 100% of its maximum capacity. The desired outlet pressure can be set between 25 and 45 bar, and this outlet pressure remains stable with only 0,2 bar fluctuations.



# One solution for various applications

High quality compressed oil-free air at high pressures is required in various industries. The needs for high-pressure compressed air vary between industries and between applications within industrial processes.

The ZD2100 VSD was conceived to meet the various needs and requirements in the following industries:



- **Bottle Production** ..... PET Bottle Blowing
- **Flat Glass Mfg.**..... Autoclave
- **Coal fired Power Plants** ... Soot Blowing
- **Pressure Vessel**..... Testing
- **Manufacturing** ..... Robotics
- **By-product of Coal** ..... Atomization
- **Petrochemical** ..... Process Air
- **Petrochemical** ..... Catalyst Regeneration
- **Aircraft Testing** ..... Wind Tunnel
- **Aircraft Testing** ..... Bleeding
- **Steam Turbine** ..... Pipe Cleaning (Air Blowing)
- **Pipeline**..... Dewatering and Testing

# ZD2100 VSD various advantages and **no worries**

## Plug-and-Play solution

### Easy to install

Pre-installation requirements are minimal. On site the work is reduced to the minimum.

- A flat floor space for two 20 foot containers (no foundation required)
- Power connection for both containers (no current peak during start-up and thus easy power supply thanks to the integrated VSD)
- Compressed air connections between the two containers, and from the high-pressure container to the point of use

### Easy to use

No outside expertise is required to work the ZD2100 VSD.

- To start and stop simply push the according buttons
- Atlas Copco standard Elektronikon® controller in both containers
- Pressure set-point can be easily changed to the desired pressure at the push of a button

## Low in energy consumption

Saving energy saves money.

- Thanks to 4 stage compression with intercooling the ZD requires a lot less work, saving 7% compared to 3 stage compression (for 40 bar)
- The unique MD dryer has virtually no energy consumption and no purge losses, saving 5 to 20% of the compressor power compared to other dryer types
- Variable Speed Drive accounts for up to 30% additional savings

## Environmentally aware

### Low noise level

Astonishingly low noise level of 74 dB(A).

- Compression elements are designed for low noise by double sided casings
- Further noise reduction by silencers & baffles, a concrete base plate under the D piston compressor to absorb vibrations, container enclosures

### High level of purity

Guaranteed oil-free, clean, dry air.

- ISO 8573-1 oil content Class 0 oil-free screw & oil-free piston compressor technology
- ISO 8573-1 water content Class 4 dryer
- ISO 8573-1 particle content Class 1 filters

