

Standard Scope of Supply

The Atlas Copco **E-Air V1100 VSD** is a single-stage, oil-injected, rotary screw type air compressor, powered by a Danfoss electric motor with Class F insulation The E-Air VSD compressor is a game changer when it comes to performance, energy-efficiency and versatility.

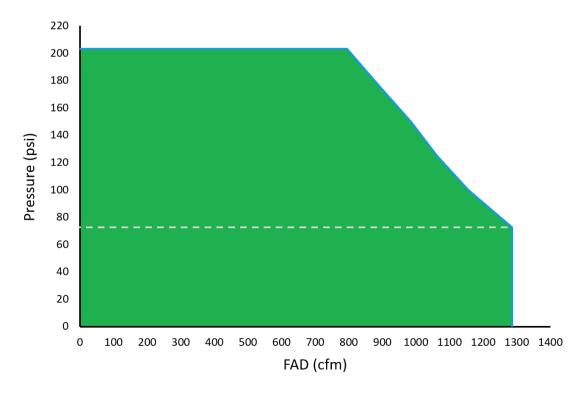
The unit hosts the new generation Screw element in its air end combined with a Danfoss integrated permanent magnet motor, cooling circuit, air/oil separation and control systems.

Special attention has been given to the overall product quality, user friendliness, ease of serviceability, and economical operation, to ensure best in class cost of ownership.

The unique feature of this new range is the PACE functionality coupled with the intuitive XC4004 controller.

This pioneering technology enables multiple pressure and flow settings, ensuring you match air flow and pressure to your application needs.

Pressures and flow



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Main data

Model		E-Air V1100 VSD
Minimum effective receiver pressure	bar(g)	5
·	psi(g)	72.5
Maximum effective receiver pressure (Unloaded)	bar(g)	14
	psi(g)	203
Free air delivery	. (6)	
FAD at pressure setting of 203 psi	cfm	794.6
FAD at pressure setting of 175 psi	cfm	894.2
FAD at pressure setting of 150 psi	cfm	985.3
FAD at pressure setting of 125 psi	cfm	1061.6
FAD at pressure setting of 100 psi	cfm	1154.8
FAD at pressure setting of 72.5 psi	cfm	1286.2
Max. sound pressure level (Lp @ ISO 2151) @ 23ft	dB(A)	72
Compressed air temperature at outlet valve with aftercooler	°C (°F)	Amb. +15°C (Amb. +59°F)
Max. ambient temperature at sea level	°C (°F)	50 (122)
Max. ambient temperature at sea level with aftercooler	°C (°F)	45 (113)
Min. starting temperature with cold weather equipment	°C (°F)	-25 (-13)
Min. starting temperature without cold weather equipment	°C (°F)	<-25 (<-13)
Max. oil content of compressed air	mg/m³	2.7
Number of compression stages		1
Capacity of compressor oil system	US Gal (I)	19 (72)
Net capacity of air receiver	US Gal (I)	47.55 (180)
Air volume at inlet grating (approx.)	ft³/s	406.1
Motor		
Installed motor power	hp (kW)	280 (208)
Voltage	V	380-460 +/- 10%
Current	A	350
Fan(s) electrical power input	hp (kW)	10 (7.5)
Frequency	Hz	50-60
Number of phases	112	3



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Fea	atures	Benefits
•	Highest efficieny with the rugged Permanent Magnet Motor in combination with screw element.	Reliable performance in the roughest conditions (IP66)
•	Unmatched Compact, sound attenuated, corrosion resistant enclosure	 Compact and maneuverable, saving valuable space on your job site, and during transportation
•	Extended Pressure range	Highly versatile Lower capital Investment
•	Designed with environmental protection in mind	The unit comes with a Spillage Free frame as Standard with 110% fluid containment and a class H electric motor, this makes the compressor suitable for use in all areas of the EU.
•	Triple layer painting	High resale value
•	Lowest Energy consumption Smallest footprint.	 Low cost of ownership and service. (1 Service in 2 years or 2000 hours)
•	Advanced XC4004 controller	IP65: fully dust and water proof. Tested for resistance to vibrations/shock
•	Electric Quick couplings (Camlocks)	No need for phase sequence alarms Inbuilt Amperage limit in Controller

Dimensions

See dimension drawing



Principle Data

Compressor Element

The quality of a compressor can be measured through the reliability, efficiency and durability of the compressor element used. Through decades of expertise in the design of compressor elements, the result is the production of most efficient and reliable compressors in the market. When the screw element is efficient durability excels, maintenance intervals decrease and energy consumption goes down.

The **E-Air V1100 VSD** compressor utilizes an Atlas element and is driven by an electric motor. Inlet air is filtered through a heavy-duty air filter.

Air/Oil Separator

Air and oil separation is achieved through a centrifugal oil separator combined with a filter element. Multiple Certification levels of the vessel are available.

Designed for a higher maximum working pressure, the separator is equipped with a high pressure sealed and certified safety relief valve, automatic blow-down valve

Cooling System

The cooling system consists of integrated side-by-side aluminum oil cooler with axial fan to ensure optimum cooling. The fan is protected by a guard for operator safety. There is an access port for easy cleaning of coolers

The cooling system is suitably designed for continuous operation in ambient conditions up to 50°C (122°F) and 45°C (113°F) with After Cooler, with canopy closed.

Compressor Regulating System / PACE with ECO mode

Introduction of intuitive PACE functionality allows the compressor to operate at any pressure setting between 5 and 12 bar. The compressor can have multiple pressure presets and we can use the controller to toggle between the pressure presets. Pressure can be adjusted in increments of 0.1 bar.

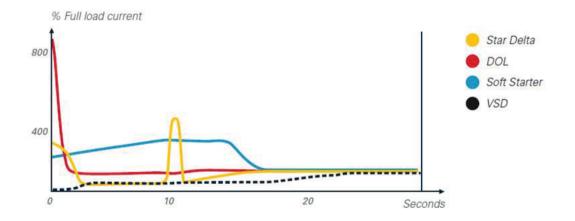
Economic power consumption is assured by the fully automatic 100% step-less speed regulator that adapts motor speed to air demand.

Motor

Atlas Copco

Our Atlas Copco in-house designed and patented integrated permanent magnet motor provides ample power to operate the compressor continuously at full-load without peak load at start-up.

This water-cooled and ruggedized motor with sealed windings will protect the machine.



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Electrical System

Instrumentation

The instrument control panel is located on the rear of the compressor canopy with easy access.

Standard instrument package includes an operating pressure gauge, and fully diagnostic ECU controller with large display. The intuitive Atlas Copco XC4004 controller is easy to operate with all functions conveniently at your fingertips. The controller also manages the motor operating system, and a number of safety warnings and shut downs on various parameters (listed below).





Easy to use interface

- 7 inch anti-glare LED screen.
- Simultaneous view of pressure and flow increase control on the output flow required by your application.
- Personalized interaction through metrics and language settings.

Powerful insights increase uptime

- Easy access to trends of 15 parameters.
- Increase uptime through preventative maintenance

Save time through remote controlling

- Mirror application: control feed air compressor through second controller at point of use.
- All machine parameters remotely adjustable: ECOmode, Dynamic Flow Boost, multi pressure / flow settings, emergency stop...
- Hard wired or RRC (radio remote connection)

Bodywork

The compressor's frame and canopy come standard with ASTM A653 Zincor steel plate work with powder coat paint finish providing excellent corrosion protection.

Undercarriage

The **E-Air V1100 VSD** compressor is available with the following undercarriages:

- Skid version
- Trailer mounted



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Supplied Documentation

The unit is delivered with documentation regarding:

- Hard copies of the Atlas Copco Operators Safety and Instruction Manual, Atlas Copco Parts Book, as well as electronic copies available on request.
- · Warranty Registration card for motor and Atlas Copco Compressor (Units must be registered upon receipt).
- · Certificate for air/oil separator vessel and safety valve approval.

Warranty Coverage

Please refer to product presentation for warranty info

Extended Warranty Programs are available; please contact your local sales representative for more info.



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