

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 H450 VSD** compressor utilizes an Atlas C106 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 72.5 and 188.5 psi. 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 2.0 psi.

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

Aftercooler + Water separator + UD Filter

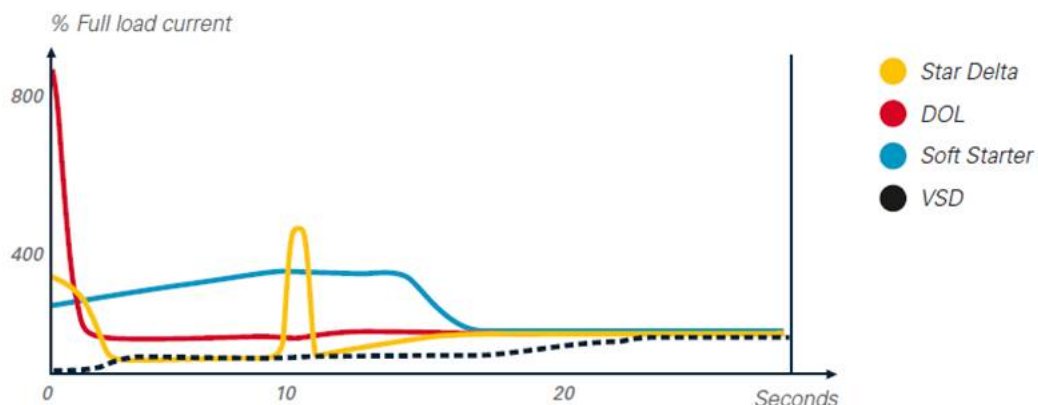
Aftercooler + Water separator + UD Filter are standard for the E-Air H450 VSD to produce filtered air that meets ISO 8573-1: 1.7.2 quality air.

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.



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 XC2003 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).

XC2003 Controller Functionality:

- Displayed while running
 - Hours
 - Outlet pressure
- Compressor measurements displayed
 - Running hours
 - Clock
 - Regulating pressure
 - Emergency stop count
 - Air discharge pressure
 - Minor and major service counters in hours and days
- Warnings and Shutdowns
 - Power phase detection
 - Main Motor Overload
 - Fan Motor Overload
 - Vessel pressure
 - Pressure Air Discharge
 - Element Temperature
- Operational Buttons
 - Start and stop of the unit
 - View measurements, settings and alarms
 - Multi position cursor to navigate menus
- Alarms
 - View current & historical alarms present
 - History of last 20 alarms and events with time and date stamps
- Settings
 - Reset service timers
 - Language settings
- ECO-mode
- Remote start



Bodywork

The compressor's frame comes standard with ASTM A653 Zincor steel plate work with powder coat paint finish providing excellent corrosion protection. The canopy is a PE hardhat with sound attenuated to meet the most current legal noise requirements.

Undercarriage

The **E-Air H450 VSD** compressor is available with the following undercarriage:

- Single axle trailer setup with:
 - Undercarriage with DoT road homologation and Fixed towbar
 - 205R14C Wheels for trailer use
 - Heavy Duty torsion axle
 - Jockey wheel
 - Single point lifting structure
 - Pintle eye

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.