



Atlas Copco



Low pressure
portable air
compressors

XAVS 448 XAT6 F28 (25-30 m³/min)

Versatile, fuel-efficient low pressure air

The XAVS 448 and XATS 528 low pressure compressors offer versatility and a **low fuel consumption**. The Stage V engines at the heart of these compressors bring an efficiency gain of 3%. Thanks to its automatic ECO-mode setting (optional), the compressor consumes 50% less fuel when your application doesn't require feed air. This and other smart electronics are accessible in the user-friendly Xc4004 controller.

Both units are dual pressure and offer flows up to 33m³/min. These energy-efficient workhorses tackle applications such as drill and blast, shallow depth drilling, geotechnical exploration drilling and abrasive blasting.

- Efficient, Stage V Scania engines
- ECO-mode (optional): fuel savings of 50% when no air is needed
- 3-step fuel filtration
- Flexi dual pressure: quickly toggle between two preset pressure levels
- 3-layered corrosion protection, for a higher resale value
- Predictable maintenance costs: standard warranty covers parts within 2 years or 4000 hours
- Xc4004 controller

Stop compressing air – start controlling it!

Smart Air Xc4004 controller

The Smart Air Xc4004 controller features the latest innovations. We believe a controller should put you in complete control, while being intuitive, and most importantly easy to use and navigate.

Smart controls also protect your investment: improve your efficiency while decreasing the operating costs of your equipment through advanced insights.

Advanced features:



Smart user interface with key parameters at first sight.



Mirror application for remote control.



Audible, clear warning system for any deviations.



Robust design which resists water and dust (IP67 rated).



Takes efficiency, control and connectivity to the next level.

SMART AIR Xc4004 CONTROLLER

Technical data

Normal effective working pressure	bar	
	psig	
Free air delivery	l/s	
	cfm	
	m ³ /mi	
Fuel consumption @ 100%*	l/h	
Fuel consumption @ 75%*	l/h	
Fuel consumption @ 50%*	l/h	
Max sound power level (LWA)**	dB(A)	
Capacity of compressor oil system	l	
Max. ambient temperature	°C	



- **Easy to use interface**
- **Powerful insights increase uptime**
- **Save time through remote controlling**

Power Technique Solutions Portfolio

Atlas Copco's Power Technique Business Area has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

Air compressors

Ready to go



- 1-5 m³/min
- 7-12 bar

Versatility



- 5.5-22 m³/min
 - 7-20 bar
- *Diesel and electric options available

Productivity partner



- 19-116 m³/min
- 10-345 bar

Handheld tools

Pneumatic tools



- Breakers (2.5 – 40 kg)
- Rockdrills (5 – 25 kg)
- Underground Rockdrills
- Additional Air Tools

Hydraulic tools



- Breakers (11 – 40 kg)
- Additional Hydraulic Tools
- Powerpacks

Petrol engine driven tools



- Breakers & Tie Tamper (25 kg)
- Combi Drills (23 Kg)

Generators



- Portable
- Mobile
- Industrial

*Multiple configurations available to produce power for any size application

Light towers



- Diesel LED and MH
- Electric LED
- Battery LED

Dewatering pumps



- Submersible
- Surface
- Small portable

*Diesel and electric options available

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Product Reference

XAVS 448, XATS 528 SD S5 APP



Standard Scope of Supply

The Atlas Copco **XAVS 448, XATS 528 S5** are single-stage, oil-injected, rotary screw type air compressors, powered by a liquid-cooled, five-cylinder turbocharged Scania diesel engine.

The unit hosts the new generation C190 screw element in its air end, combined with a Scania made diesel engine model DC09, complying with the EU Stage 5 emission standard. Along with a DPF, DOC and SCR in the exhaust treatment system, cooling circuit, air/oil separation and control systems. The unit is mounted on support beams and the engine is supported by rubber buffers in a spillage-free frame.

An undercarriage with fixed towbar, brakes and pintle eye is available as option.

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.

Features

- Designed with environmental protection in mind
- Compact, sound attenuated, corrosion resistant enclosure
- 2-layer painting

Benefits

- The unit comes with a Spillage Free frame as Standard with 110% fluid containment and Stage 5 emission compliant engine, this makes the compressor suitable for use in all areas of the EU.
For OND compliance the unit is enclosed in a sound attenuated Zincor steel enclosure. The large U-Flex canopy doors allows superior access and makes maintenance easy.
Compact and maneuverable, saving valuable space on your job site, and during transportation.
- High residual value

Main data

Model		XAVS 448	XATS 528
		9822086967	9822086968
Minimum effective receiver pressure	bar(g)	4	5
Maximum effective receiver pressure (Unloaded)	bar(g)	15.9	12.2
Normal effective working pressure	bar(g)	14	10.3
Actual free air delivery	l/s	451 (@12 bar)	537 (@8.6 bar)
	l/s	420 (@14 bar)	500 (@10.3 bar)
Fuel consumption			
at 100% FAD (full load)	kg/h	41.07	41.97
at 75% FAD	kg/h	33	33.53
at 50% FAD	kg/h	29.78	30.83
at 25% FAD	kg/h	28.1	28.3
Specific fuel consumption at 100% FAD	g/m ³	-	-
Maximum typical oil content of compressed air	mg/m ³	3	3
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	100	100
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	-	-
Compressed air temperature at outlet valve without aftercooler	°C	95	95
Compressed air temperature at outlet valve with aftercooler	°C	-	-
Max. ambient temperature at sea level without aftercooler	°C	47	47
Max. ambient temperature at sea level with aftercooler	°C	45	45
Min. starting temperature with cold start equipment	°C	-25	-25
Min. starting temperature without cold start equipment	°C	-10	-10
Engine			
Type		Scania	Scania
Emission stage		DC09	DC09
Coolant		EU Stage 5	EU Stage 5
Number of cylinders		Liquid	Liquid
Bore	mm	5	5
Stroke	mm	130	130
Swept volume	l	140	140
Engine power at normal shaft speed @ ISO 9249G	kW	9.3	9.3
Full Load	rpm	232	232
Unload	rpm	1800	1800
Capacity of oil sump:	l	1300	1300
Capacity of cooling system	l	36	36
Capacity of compressor oil system	l	73	73
Net capacity of air receiver	l	78	78
Air volume at inlet grating (approx.)	m ³ /s	180	180
Capacity of standard fuel tanks	l	9.8	9.8
Capacity of DEF tank	l	600	600
Safety valve - minimum opening pressure	bar(g)	70	70
		19.8	19.8

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 fuel consumption goes down.

The **XAVS 448 and XATS 528** compressors utilize an Atlas Copco C190 element which is driven from the diesel engine. Inlet air is filtered through a heavy duty two stage air filter.

Air/Oil Separator

Air and oil separation are achieved through a centrifugal oil separator combined with a filter element. The vessel is CE approved as standard. It also optionally available in the following approvals ASME/CRN/MOM.

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 coolers with an 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 47°C (116°F) and 45°C (113°F) with aftercooler, with canopy doors closed.

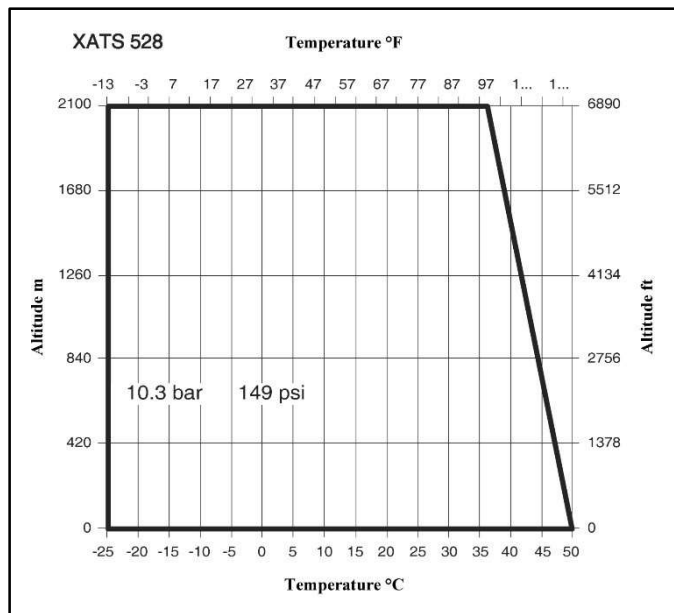
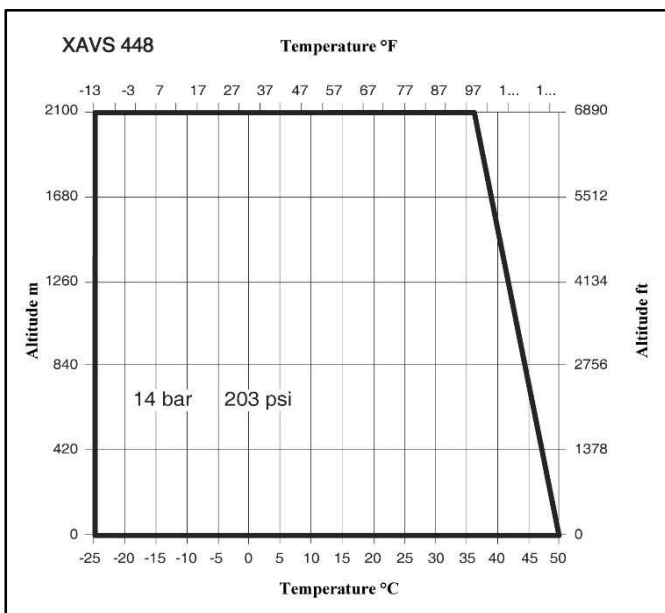
Compressor Regulating System

The compressor is provided with a continuous pneumatic regulating system and a blow-off valve which is integrated in the unloader assembly. The air receiver pressure is maintained between the preselected working pressure and the corresponding unloading pressure.

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

Engine

Scania DC09 turbocharged, five-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor at full load. Cold start options are available for up to -25°C (-13°F).



Electrical System

The **XAVS 448 and XATS 528** are equipped with a 24 Volt negative ground electrical starting system.

Instrumentation

The instrument control panel is located on the front of the compressor canopy.

The intuitive Atlas Copco XC4004 controller is easy to operate with all functions conveniently at your fingertips. The controller also manages the engine ECU operating system, and a number of safety warnings and shut downs on various parameters (listed below).



XC4004 Controller Functionality:

- Main Screen
 - Vessel Pressure
 - Fuel level
 - Running Hours
 - RPM
 - Air Flow CFM
- Measurements
 - Fuel Consumption
 - Engine Coolant Temperature
 - Compressor Element Temperature
 - Vessel Pressure
 - Engine Load
 - Engine Oil Pressure
 - DPF Soot Load
 - Fuel Temperature
 - Battery Voltage
 - Regulatory Pressure
 - Loaded/Unloaded Hours
 - Successful/Unsuccessful Starts
 - Service Timers (2)
- Service
 - Data trending
 - Project Backup
- General Settings
 - DPF Stationary Regeneration
 - Engine Diagnostics
 - Auto Start/Load/Stop
 - Languages
 - Units of Measure
- Operational Controls
 - Preset flow or operating pressure
- Alarm
 - Active Alarms
 - Event Log History
 - Alarm Log History

Bodywork

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

Undercarriage

The **XAVS 448 and XATS 528** compressors are available with an undercarriage alternative, providing utmost flexibility in installation or towing requirements.

- Single axle trailer setup with:
 - Undercarriage with road homologation and fixed towbar
 - 205R14C Wheels for trailer use
 - Hydraulic Trailer brakes
 - 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 and Parts Book as well as electronic copies available on request. Electronic copies of Scania Engine Manual and Parts book also available on request.
- Warranty Registration card for engine and Atlas Copco Compressor (Units must be registered upon receipt).
- Certificate for air/oil separator vessel and safety valve approval (Upon request only).

Warranty Coverage

Please refer to product presentation for warranty info

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