

Product Reference
XA(T,V)S 238-288 Jd S3A APP

Portable Compressor



Standard Scope of Supply

The Atlas Copco **XAVS 238** and **XATS 288** are single-stage, oil-injected, rotary screw type air compressors, powered by a liquid-cooled, four-cylinder John Deere diesel engine.

The unit hosts the new generation C142 screw element in its air end combined with a John Deere made diesel engine model 4045HF485, 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 XC2003 controller. This pioneering technology enables multiple pressure and flow settings, ensuring you match air flow and pressure to your application needs.

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Main data

Model		XAVS 238 Jd	XATS 288 Jd
Minimum effective receiver pressure	bar(g)	5	5
Maximum effective receiver pressure (Unloaded)	bar(g)	14,2	14,2
Normal effective working pressure	bar(g)	14	10,3
Actual free air delivery			
at pressure setting 7 bar	l/s	247	277
at pressure setting 8.6 bar	l/s	247	272
at pressure setting 10.3 bar	l/s	247	240
at pressure setting 12 bar	l/s	225	-
at pressure setting 14 bar	l/s	203	-
Fuel consumption			
at 100% FAD (full load)	kg/h	23,4	23,4
at 75% FAD	kg/h	16,86	16,86
at 50% FAD	kg/h	12	12
at 25% FAD	kg/h	10,27	10,27
Specific fuel consumption at 100% FAD	g/m ³	23,6	23,6
Maximum typical oil content of compressed air	mg/m ³	5	5
Max. sound pressure level (Lw @ 2000/14/EC)	dB(A)	99	99
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	71	71
Compressed air temperature at outlet valve without aftercooler	°C (°F)	90 (194)	90 (194)
Max. ambient temperature at sea level without aftercooler	°C (°F)	50 (122)	50 (122)
Max. ambient temperature at sea level with aftercooler	°C (°F)	45 (113)	45 (113)
Min. starting temperature with cold weather equipment	°C (°F)	-25 (-13)	-25 (-13)
Min. starting temperature without cold weather equipment	°C (°F)	-10 (14)	-10 (14)
Number of compression stages		1	1
Engine		John Deere 4045HF485	John Deere 4045HF485
Emission stage		Stage IIIA / Tier 3	Stage IIIA / Tier 3
Coolant		PARCOOL Green	PARCOOL Green
Number of cylinders		4	4
Bore	mm	106	106
Stroke	mm	127	127
Swept volume	l	4,5	4,5
Engine power at normal shaft speed @ SAE J1995	kW	129	129
Full Load	rpm	2150	2150
Unload	rpm	1300	1300
Capacity of oil sump	l	20	20
Capacity of cooling system	l	29,5	29,5
Capacity of compressor oil system	l	44	44
Net capacity of air receiver	l	67	67
Air volume at inlet grating (approx.)	m ³ /s	4,33	4,39
Capacity of standard fuel tanks	l	164	164
Safety valve - minimum opening pressure	bar(g)	16,1	16,1

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Features

- PACE (Pressure Adjusted Cognitive Electronic)
- Designed with environmental protection in mind
- Compact, sound attenuated, corrosion resistant enclosure
- Battery Cut off switch
- 3-layer painting

Benefits

- The versatility of the Xc2003 controller gives you the flexibility to tune your machine to a wider range of applications. This feature makes the compressor very versatile as the same unit can be used for various application. This increases the utilization and hence the ROI as against a standard compressor. The PACE functionality ensures that the air flow matches the desired operating pressure to maximize output without compromising on the fuel efficiency.
- The unit comes with a Spillage Free frame as Standard with 110% fluid containment and Stage 3A emission compliant engine.
- For OND compliance the unit is enclosed in a sound attenuated Zincor steel enclosure. The large gull-wing canopy doors allows superior access and makes maintenance easy.
Compact and maneuverable, saving valuable space on your job site, and during transportation, less than 2700 Kg
- Prevents damage to the engine by cutting of the power from the batteries
- High residual value with C3 painting quality.

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 238** and **XATS 288** compressors utilize an Atlas Copco C142 element and is driven from the diesel engine. 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.

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. Simple design cover allows OSE changing within one hour.

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 doors closed.

Compressor Regulating System

The compressor is provided with a electronic regulating system (PACE) 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.

Working pressure can be changed easily by PACE.

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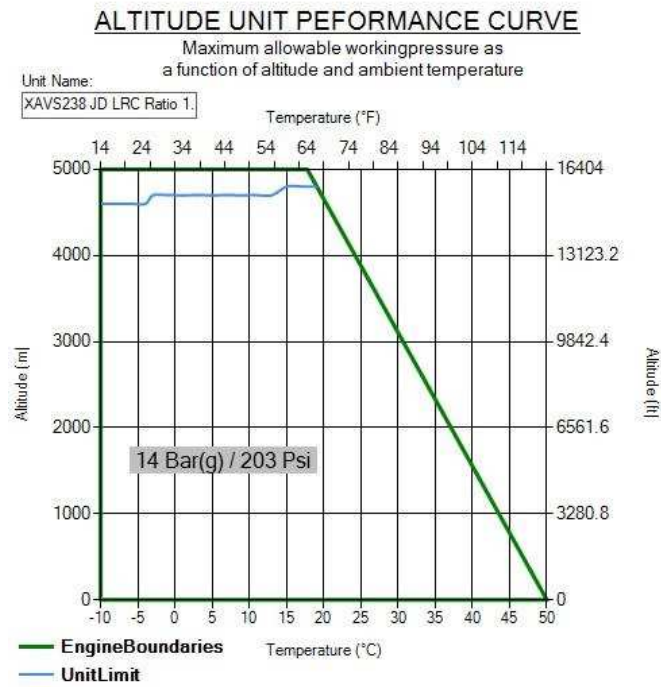
Engine

John Deere

John Deere 4045HF485, four-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

Cold start options are available for up to -25°C (-13°F).

The 164 L fuel tank is sufficiently sized to allow full shift autonomy (8h).



Graph represents working conditions, for starting conditions pls contact your Atlas Copco contact

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Electrical System

The **XAVS 238** and **XATS 288** are equipped with a 12 Volt negative ground electrical starting system.

Instrumentation

The controller is located on the rear corner, of the compressor canopy with easy access.

The intuitive Atlas Copco XC2003 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).

XC2003 Controller Functionality:

- Displayed while running
 - Hours
 - Fuel level
 - RPM
 - Outlet pressure
- Operational Buttons
 - Start and stop of the unit
 - View measurements, settings and alarms
 - Multi position cursor to navigate menus
- Compressor measurements displayed
 - Running hours
 - Fuel level
 - Clock
 - Battery voltage
 - Running hours
 - Regulating pressure
 - Emergency stop count
 - Average fuel consumption
 - Minor and major service counters in hours and days
- Engine measurements displayed
 - Current fuel rate
 - Engine coolant temperature
 - Engine oil pressure
 - Engine RPM
- Warnings and Shutdowns
 - High temperature engine coolant
 - High temperature compressor oil
 - Engine oil pressure
 - Low fuel level
- Alarms
 - View current & historical alarms present
 - History of last 20 alarms and events with time and date stamps
 - DM1 & DM2: View current engine codes (SPN/FMI)
- Settings
 - Reset service timers
 - Diagnostics for engine ECU
 - Language settings
 - Unit of measure changes



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Bodywork

The compressor's frame comes standard with ASTM A653 Zincor steel platework with 2-layer powder coat paint finish providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements. Gull wing canopy offers easy service access to all components from both sides of the machine.

Undercarriage

The **XAVS 238** and **XATS 288** 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 Adjustable towbar
 - 215 R17S Wheels for trailer use
 - Hydraulic Trailer brakes
 - Heavy Duty torsion axle
 - Jockey wheel or leg support
 - Tie-down points lifting structure
- Support mounted
- Skid mounted

Supplied Documentation

The unit is delivered with documentation regarding:

- Hard copies of the Atlas Copco Operators Safety and Instruction Manual, Atlas Copco Parts Book, John Deere Engine Manual and Parts book, as well as electronic copies 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, CE (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.