

XA(V)S 650-900 JD8 T4F

Portable compressor



Standard Scope of Supply

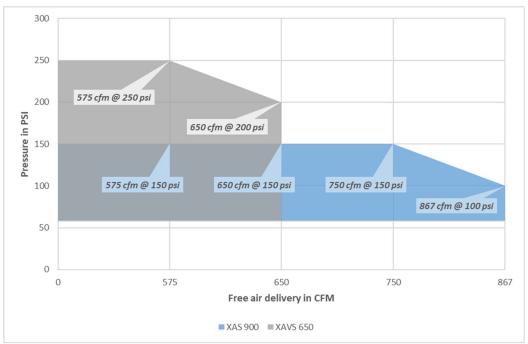
The Atlas Copco **XAS 900 & XAVS 650 JD8 T4F** is a single-stage, oil-injected, rotary screw type air compressor, powered by a liquid-cooled, six-cylinder turbocharged diesel engine.

The unit consists of an air end, diesel engine with exhaust treatment, cooling circuit, air/oil separation and control systems - all enclosed within a sound dampened powder coated galvanealed steel enclosure.

A range of undercarriage formats, factory and locally installed options are available.

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.

Pressure and Flow



Available Models

XAS 900 JD8 T4F XAVS 650 JD8 T4F single stage – 58 to 150 psi – John Deere engine single stage – 58 to 250 psi – John Deere engine



Features

- Variable operating pressure and flow settings
- Designed with environmental protection in mind
- FuelXpert™
- Compact, sound attenuated, corrosion resistant enclosure

Optional Features

· Portable Full Feature (filtered air)

Benefits

- The versatility of the Xc2003 controller gives you the flexibility to tune your machine to a wider range of applications. The machine will match the air flow with the desired operating pressure to maximize output and keep the engine as fuel efficient as possible.
 In turn it will increase your utilization rate and ROI as it is adaptable to many more applications than a standard machine.
- Standard with 110% fluid containment and Tier 4 Final emissions the compressor is designed for use in all areas of the US and to meet stringent local site environmental concerns.
- Atlas Copco's FuelXpert[™] seamlessly trims engine power under varying load conditions to reduce fuel consumption up to 15%.
- Ensures best in class fuel consumption, reducing operational cost.
- 2 layer protective coating (Primer base and Powder Coated top layer) steel enclosure with very large doors for superior access, makes maintenance easy.
- Compact and maneuverable, saving valuable space on your job

Benefits

 Atlas Copco's PFF system ensures cool, clean and dry air. The PFF system is plumbed through a secondary outlet so you can isolate the hoses and hardware requiring this purity of air. The PFF system comes standard with a three way valve the operator can select various air quality levels and optimal cold weather configuration.



Technical Data

Compressor	Units XAS 900 JD8 T4F		JD8 T4F	XAVS 650 JD8 T4F	
Actual free air delivery ¹ (FAD)	cfm	750	867	575	650
Normal effective working pressure	Psi	150	100	250	200
Maximum unloading pressure	Psi	17	5 275		
Minimum working pressure	Psi	58 58		58	
Max. sound pressure level @ 23' (7m) at normal working speed & pressure 2	dB(a)	76		7	'6
Compression Stages		1			1
Air Receiver Capacity	US Gal (L)	16.7 ((63.2)	16.7	(63.2)
Compressor oil capacity	US Gal (L)	4.2 (15.9)	4.2 (15.9)
Approximate air outlet temperature, above ambient (standard air)	°F (°C)	Ambient -	+120 (49)	Ambient	+130 (54)
Approximate air outlet temperature, above ambient (aftercooled air) ³	°F (°C)	Ambient +20 (11)			
Air Compressor outlets		1 x 2" NPT & 2 x ¾" Chicago			
Max. ambient temperature (at sea level) ⁴	°F (°C)	122 (50)			
Maximum altitude	ft (m)	16,404 (5,000)			
Minimum starting temperature (without cold weather options)	°F (°C)	14 (-10)			
Minimum starting temperature (with cold weather options)	°F (°C)	-14 (-26)			

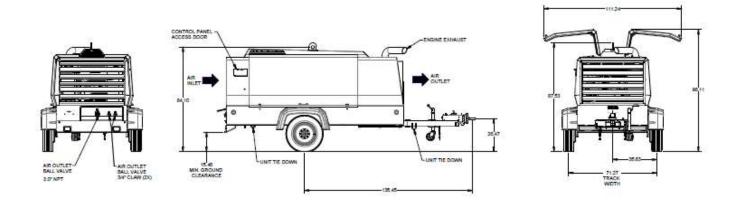
Engine	John Deere	6068HFC08		
Emissions Regulation	US EPA	Tier 4 Final		
US EPA Engine Family		FJDXL06.8302		
Output at rated speed (@2100 rpm) ⁵	HP	250		
Number of cylinders		6		
Aspiration		Turbocharged		
Displacement	cu in (L)	415 (6.8)		
Engine speed (Unloaded)	rpm	1300		
Engine speed (Maximum loaded)	rpm	2100		
Engine oil capacity	US Gal (L)	8.5 (34)		
Engine oil required		Low Ash Oil per API CJ-4, ACEA C9		
Engine coolant capacity	US Gal (L)	11 (44)		
Fuel tank capacity	US Gal (L)	88 (333)		
Fuel consumption at 0% load	Gal/Hr (L/Hr)	2.2 (8.3)		
Fuel consumption at 100% load	Gal/Hr (L/Hr)	10.7 (40.5) 10.6 (40.1) 10.1 (38.2) 10.5 (39.7)		
Fuel type required ⁶		Ultra Low Sulfur Diesel < 15 PPM (mg/KG)		
DEF Consumption ⁷		Apx 3.5% of diesel consumption		
DEF tank capacity	US Gal (L)	11.3 (42.5)		
DEF Autonomy		≥ 24 hours		
Electrical System (Negative Ground)	V	24		
Alternator	A	60		
Battery Capacity (Cold Cranking Amps ⁸)	А	2 @ 725		

- 1 According to ISO 1217 ed.3 1996 annex D
- 2 Measured in accordance with ISO 2151 under free field conditions @ 7m distance
- 3 Aftercooler approach temperature is dependent on site conditions. Measured ate reference conditions of 72°F with 0% humidity
- 4 Consult Atlas Copco for proper de-rating instructions for operation beyond ambient limitations
- 5 Horsepower limited by Engine ECU
- 6 Engine and emissions require the use of Ultra Low Sulfur Diesel in accordance to ASTM-D975 Grade No.1-D S15 & No.2-D S15
 7 Diesel Exhaust Fluid in accordance with ISO 2224, consumption rate is dependent on DEF age, quality and site conditions
- 8 According to DIN 72311

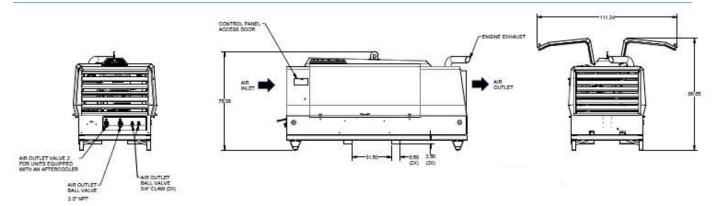


Dimensions

Trailer mounted



Support mounted



XA(V)S 650-900 JD T4F

Weight (Wet - Ready-to-operate)

Trailer mounted	ib (Ng)	7,900 (3,020)
Support mounted	lb (Kg)	7,695 (3,490)
Dimensions		
		XA(V)S 650-900 JD T4F
Trailer mounted (Inches)	LxWxH	203 x 80 x 86
Support mounted (Inches)	LxWxH	145.5 x 66.5 x 78



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 XA(V)S 650-900 JD8 T4F compressor utilizes an Atlas Copco C146 element and 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 is achieved through a centrifugal oil separator combined with a filter element. Separators are ASME/CRN approved versions and are stamped accordingly.

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

Air/Oil Separator Tank:

Volume	24 US Gal / 91 L		
Certifications	ASME / CRN		
MAWP	304.6 psi @ 248°F		

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 at the front of the machine for easy cleaning

The cooling system is suitably designed for continuous operation in ambient conditions up to 122°F, with canopy doors closed.

Compressor Regulating System

The compressor regulating system consists of two stage air filter, air receiver/oil separator, compressor element, blow down valve, and pressure safety valve.

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

Discharge Outlets

Standard compressed air is available from a 2" NPT ball valve and two 3/4" Chicago Fittings. Units with the optional PFF (Portable Full Feature) systems receive a fourth outlet for the filtered air.

Standard Air	1 x 2" NPT / 2 x 3/4" Chicago
Filtered Air (optional)	1 x 2" NPT

Engine

John Deere

John Deere 6068HFC08 Tier 4 Final, turbocharged, six-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

Meats all US EPA and Environment Canada exhaust legislations with Tier 4 Final compliance. The US EPA engine family is "FJDXL06.8302". The engine utilizes a Diesel Particulate Filter (DPF) with active regeneration, a Diesel Oxidation Catalyst (DOC) and a Selective Catalytic Reduction (SCR) system to help meet Tier 4 Final emissions. All functionality of the engine and exhaust after treatment are controlled automatically on the XC2003 controller.

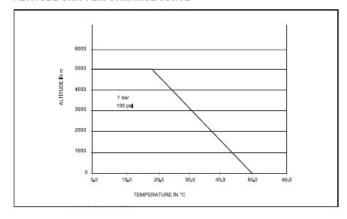
Engine output at rated speed, in accordance to SAE Standard, is 250hp at 2100 rpm.

The engine has the capability to start the compressor to 14°F (-10°C) with standard glow-plug aid. Comes option with 120V block heater and synthetic compressor oil to start down to -14°F (-25°C).

The 88 Gal (333L) fuel tank is sufficiently sized to operate the unit for minimum of 8 hours at full-load condition. As well the unit requires Diesel Exhaust Fluid (DEF). There is a DEF tank sufficiently sized to operate the unit for a minimum of 24 hours.



ALTITUDE UNIT PERFORMANCE CURVE



Electrical System

The XA(V)S 650-900 JD T4F is equipped with a 24 Volt negative ground electrical starting system.

Instrumentation

The instrument control panel is located on the rear corner 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 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
 - DEF level
 - RPM
 - Outlet pressure
- Compressor measurements displayed
 - Running hours
 - Fuel level
 - DEF level
 - Clock
 - Battery voltage
 - Running hours
 - Regulating pressure
 - Emergency stop count
 - Average fuel consumption
 - Minor and major service counters in hours and days
- Warnings and Shutdowns
 - High temperature engine coolant
 - High temperature compressor oil
 - Engine oil pressure
 - Low fuel level
 - Low DEF Level
 - High DPF soot level
- Settings
 - Manual regeneration of DPF
 - Reset service timers
 - Diagnostics for engine ECU
 - Language settings
 - Unit of measure changes

- Operational Buttons
 - Start and stop of the unit
 - View measurements, settings and alarms
 - Multi position cursor to navigate menus
- Engine measurements displayed
 - Current fuel rate
 - Engine coolant temperature
 - Engine oil pressure
 - DPF Soot level
 - Engine RPM
- 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)





Bodywork

The compressor comes standard with metal canopy that has a 2 layer protective coating (Primer base and Powder Coated top layer) providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements. Large service doors offer easy service access to all components from all sides of the machine.

Undercarriage

The **XA(V)S 650-900 JD T4F** compressor is available with two undercarriage alternatives, providing utmost flexibility in installation or towing requirements.

- Single axle trailer setup with:
 - US DOT/Federal MVSS 49CFR571 approved light package
 - Adjustable height pintle hitch (3" lunette)
 - 17.5" Rims w/ 215/75R17.5 Tires for trailer use (load range H)
 - Trailer hydraulic brakes are standard (Electric brake can be added as option)
 - Heavy Duty torsion axle rated at 8,000 lbs
 - Safety chains
 - Screw jack leveling
 - Single point lifting structure
- Support mounted frame

Factory Options Available

- Electric Brakes
- Support mounted frame (skid)
- Aftercooler, Water Separator, DD/PD Coalescing filters (PFF system)
- Inlet Shutdown Valve
- LoJack Theft Recovery System
- Telematics
- Cold weather kit

Manufacturing & Environmental Standards

The **XA(V)S 650-900 JD T4F** is manufactured following stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 14001 requirements.

Attention has been given to ensure minimum negative impact to the environment.

The XA(V)S 650-900 JD T4F meets all current US EPA, CARB and Environment Canada exhaust and noise emission directives.

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, ASME/CRN (Upon request only).

Warranty Coverage

John Deere Engine: John Deere Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) months from the date of initial startup, prior to the accumulation of 2000 running hours. All John Deere powered air compressors are subject to a 5 year (5,000hr) limited extended warranty. The extended warranty must be registered with John Deere by the original purchaser, at time of purchase, in order to qualify. Please see John Deere's air compressor extended warranty terms, conditions and further details.

Atlas Copco Compressor: Warrantied to be free from defects with regard to material and workmanship for the period of eighteen (18) months from date of shipment from the factory, or twelve (12) months from date of initial start-up, whichever occurs first, without limitation of running hours.

Air compressor element assemblies used in Atlas Copco portable air compressors, is warranted to be free from defects with regard to materials and workmanship for the period of thirty (30) months from date of shipment from the factory, or twenty four (24) months from date of initial start up, whichever occurs first, without limitation of running hours. Atlas Copco service kits including parts and oils (PAR Oil's) must be used to maintain warranty. Failure to register warranty upon initial start-up may cause warranty claim delays or rejection of claims.



XA(V)S 650-900 JD8 T4F – Product Reference

PRODUCT: Portable Compressors	EXTENDED WARRANTY PERIOD*: 24 months from date of end of initial standard warranty term. For the compressor's air system **, the warranty period is an additional 96 months from the end of the 24 month extended warranty term. For the engine, see Footnote 1 below.
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- * Requirements for Extended Warranty;
 - Service maintenance must be completed according to published intervals while utilizing genuine Atlas Copco/Chicago
 Pneumatic/American Pneumatic Tool parts and lubricants. Record of such maintenance must be entered onto Machines Online for the
 specific serial number and include all required information including date service performed, service interval performed, and part
 numbers used.
 - · Oil sample (engine or compressor) to be taken at any time of failure and available upon request
 - Oil sample kit part number 9753300442 available for purchase
 - · Unit must be available for onsite inspection by a representative of Power Technique North America if required
 - · Unit must be available for transport to a Power Technique North America service center location if required
 - Failed components must be retained and available for return and inspection if required
- ** Air end system component exclusions: Electrical components (i.e. Sensors, wiring), Perishable items (i.e. Rubber, plastics), Wear and air regulation items (i.e. Check valves, couplings)

Note: End users are authorized to complete the required preventative maintenance utilizing genuine parts and lubricants purchased from an authorized dealer. Service maintenance recorded into Machines Online are to be completed by the authorized dealer where products purchased or another authorized dealer after providing proof of purchase for genuine parts and fluids utilized.

Note: Equipment/machinery/components/Accessories/parts/items sold by SELLER but not manufactured by SELLER or an affiliate (including but not limited to a Product's engine, alternator, tires, battery, carrier, electrical equipment, and hydraulic transmission, if applicable) are not warranted by SELLER and shall carry whatever warranty (if any) which the manufacturer has conveyed to SELLER to the extent it can be passed on to the purchaser.

