XAS 1150 CD8 T4F

Portable compressor

Standard Scope of Supply

The Atlas Copco **XAS 1150 CD8 T4F** is a two-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 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.

Available Models

XRVS 1150 CD8	single stage – 100 to 200 psi – Caterpillar engine

Features	Benefits
• Variable operating pressure	• The versatility of the Xc3003 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.
• FuelXpert™	• Atlas Copco's FuelXpert™ seamlessly trims engine power under varying load conditions to reduce fuel consumption up to 25% • Ensures best in class fuel consumption, reducing operational cost
• Environmentally friendly	• Standard with 100% fluid containment and Tier 4 Final emissions the compressor is designed for us in all areas of the US and to meet stringent local site environmental concerns
• Compact, sound attenuated, corrosion resistant enclosure	• Galvannealed steel enclosure with very large doors for superior access, makes maintenance easy. • Compact and maneuverable, saving valuable space on your job site, and during transportation.

Optional Features	Benefits
• Refinery equipment	• Spark arrestor and inlet shutdown valve for sensitive work areas
• Support mounted base frame	• For applications for when the compressor needs to be mounted on a truck
• Portable Full Feature (filtered air)	• Atlas Copco's PFF system to ensure 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

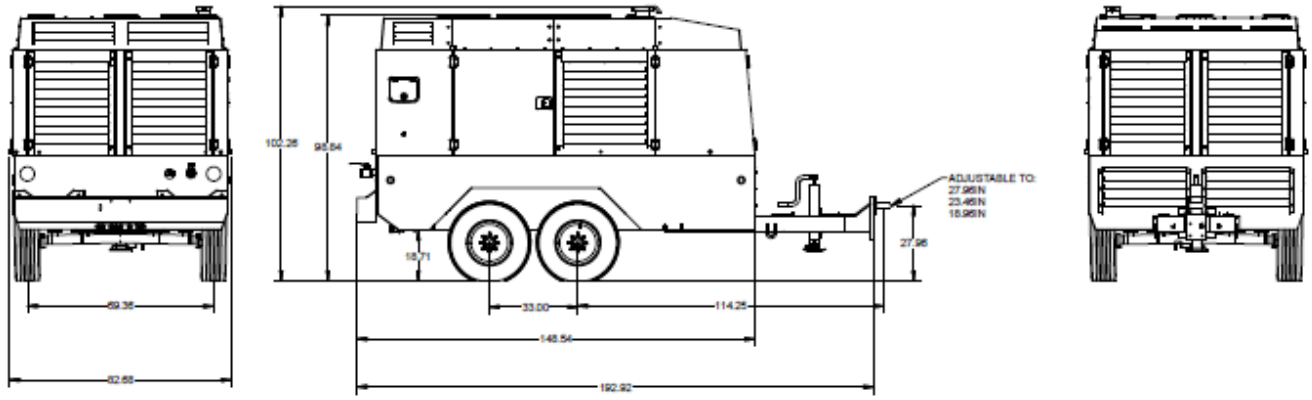
Compressor	Units	XAS 1150 CD8		
Actual free air delivery[1] (FAD) 200psi/150psi/100psi	CFM	950	1050	1150
Actual free air delivery though aftercooler[1] (FAD) 200psi/150psi/100psi	CFM	900	1000	1100
Normal effective working pressure	Psi	200	150	100
Maximum unloading pressure	Psi	225		
Minimum working pressure	Psi	58		
Max. sound pressure level @ 23' (7m) at normal working speed & pressure[2]	dB(a)	76		
Compression Stages		1		
Air Receiver Capacity	US Gal (L)	37.8 (143.1)		
Compressor oil capacity	US Gal (L)	28 (106)		
Approximate air outlet temperature (standard outlet)	°F (°C)	Ambient +120 (49)		
Approximate air outlet temperature (aftercooled)[3]	°F (°C)	Ambient +20 (11)		
Air Compressor outlets		1 x2" NPT (2 w/ PFF option)		
Max. ambient temperature (at sea level)[4]	°F (°C)	120 (49)		
Maximum altitude	ft (m)	12,000 (3,657)		
Minimum starting temperature with standard block heater	°F (°C)	14 (-10)		
Minimum starting temperature without block heater	°F (°C)	32 (0)		
Minimum starting temperature, with coldstart equipment	°F (°C)	-13 (-25)		

Engine		Caterpillar C9.3		
Emissions Regulation	US EPA	Tier 4 Final		
US EPA Engine Family		ECPXL09.3HTF		
Output at rated speed (2200 rpm) [5]	HP	350		
Number of cylinders		6		
Aspiration		Turbocharged		
Displacement	cu in (L)	567.5 (9.3)		
Engine speed (Unloaded)	rpm	1250		
Engine speed (Maximum loaded)	rpm	2200		
Engine oil capacity	US Gal (L)	7.5 (28.4)		
Engine oil required		Low Ash Oil per API CJ-4, ACEA C9		
Engine coolant capacity	US Gal (L)	17 (64)		
Fuel tank capacity	US Gal (L)	110 (416)		
Fuel consumption at 0% load	Gal/Hr (L/Hr)	8.2 (31)	6.7 (25.4)	6.2 (23.5)
Fuel consumption at 100% load (with AC)	Gal/Hr (L/Hr)	13.7 (51.9)	14.0 (53)	13.5 (51.1)
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)	8.7 (32.9)		
DEF Autonomy		≥ 25 hours		
Electrical System (Negative Ground)	V	24		
Alternator	A	95		
Battery Capacity (Cold Cranking Amps[8])	CCA	2 @ 1100 each		

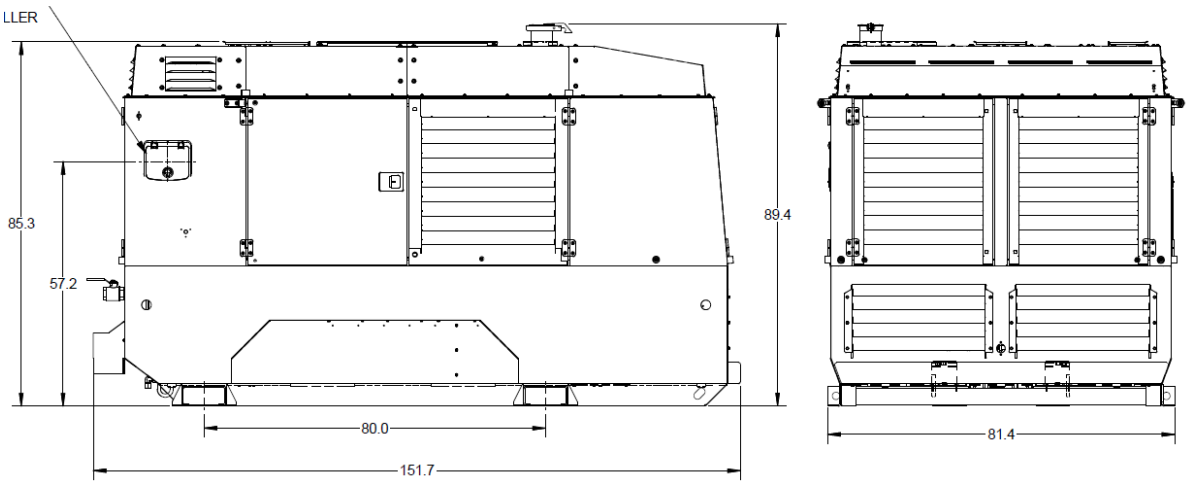
1 According to ISO 1217 ed.3 1996 annex D
2 Measured in accordance with ISO 2151 under free field conditions @ 7m distance
*3 Aftercooler approach temperature **is dependent on site conditions. Measured ate reference conditions of 72°F with 0% humidity***
4 Consult Atlas Copco for proper de-rating instructions 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



Weight (Wet - Ready-to-operate)

		XAS 1150 CD8 T4F
Trailer mounted	lb (Kg)	12,000 (5,443)
Support mounted	lb (Kg)	TBA

Dimensions

		XAS 1150 CD8 T4F
Trailer mounted (Inches)	L x W x H	198 x 82.75 x 102.5
Support mounted (Inches)	L x W x H	152 x 81.5 x 89.5

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 XAS 1150 CD T4F compressor utilizes Atlas Copco's C190 element and is driven from the diesel engine through a gearbox.

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	37.8 US Gal / 143 L
Certifications	ASME / CRN
MAWP	261psi @ 266°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 120°F, with canopy door 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

Compressed air is available from a 2" NPT outlet for single standard air. There's also the option for 2 x 2" NPT outlets with aftercooler option for standard air and quality air.

Engine

Caterpillar C9.3

Caterpillar C9.3 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 ECPXL09.3HTF". 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 XC3003 controller.

Engine output at rated speed, in accordance to SAE Standard, is 350hp at 2200 rpm, as limited by the engine ECU.

The engine has the capability to start the compressor at 14°F (-10°C) with standard blow heater, 32°F (0°C) without block heater, and -13°F (-25°C) with coldstart equipment.

The 110 Gal (416 L) fuel tank is sufficiently sized to operate the unit for minimum of 8 hours at full-load condition.

Electrical System

The **XAS 1150 CD T4F** is equipped with a 24 volt negative ground electrical starting system.

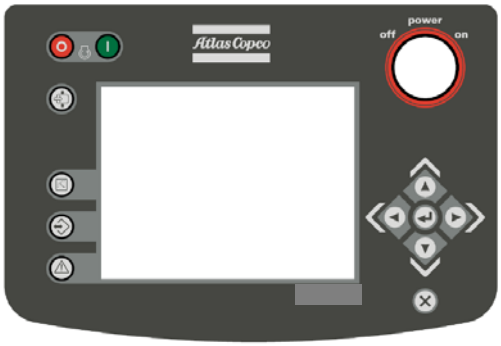
Instrumentation

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

Standard instrument package includes an operating pressure gauge, and fully diagnostic ECU controller with large 3 5/8" display. The intuitive Atlas Copco XC3003 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).

XC3003 Controller Functionality:

- Main Screen
  - Vessel Pressure
  - Fuel Level
  - Running Hours
  - RPM
- Measurements
  - Fuel Consumption
  - Engine Coolant Temperature
  - Compressor Element Temperature
  - Vessel Pressure
  - Engine Load
  - Engine Oil Pressure
  - Engine Boost 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
- Alarm
  - Active Alarms
  - Event Log History
  - Alarm Log History



Bodywork

The compressor comes standard with ASTM A653 Galvannealed steel canopy with powder coat paint finish providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements. Large oversized doors offer easy service access to all components from both sides of the machine.

Undercarriage

The **XAS 1150 CD 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)
  - 16" Rims w/ ST235/80R16 Tires for trailer use
  - Heavy Duty twin torsion beam axles with electric brakes
  - Safety chains
  - Screw jack leveling
  - Single point lifting structure

- Support mounted setup
  - Forklift pockets and mounting locations for securing to pad or deck

Factory Options Available

- PFF System (Aftercooled, filtered air)
- Aftercooler Water Separator
- Cold Weather Package (CAT Either Start kit)
- Support Undercarriage
- Air Inlet Shutdown
- Spark Arrestor

Manufacturing & Environmental Standards

The **XAS 1150 CD8 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 **XAS 1150 CD8 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, CAT 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

Caterpillar Engine: Caterpillar Diesel engines are warranted to be free from defects with regard to material and workmanship for the period of twelve (12) months, with unlimited running hours from the date of invoicing from Atlas Copco or up to twenty-four (24) months and prior to the accumulation of 2000 hours of use, whichever occurs first.

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 startup, 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 startup, whichever occurs first, without limitation of running hours. Atlas Copco service kits including parts and oils (Paroil's) must be used to maintain warranty. Failure to register warranty upon initial startup may cause warranty claim delays or rejection of claims.

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