



Atlas Copco



Crossover to flexible efficiency

XAHS 108 and XATS 138 (with PACE) Stage V
5.0-7.0 m³/min (7-10/12 bar)

Crossover to flexible efficiency

Boost your utilization

The Xc2003 controller with PACE (pressure adjusted through cognitive electronics) technology allows you to set the pressure with increments of 0.1 bar between 7 and 10.3 bar. This means the XATS 138 can handle a variety of applications, increasing the utilization rate significantly.

HardHat® canopy

The HardHat® protects all internal components, keeps the machine looking as good as “new” and increases the residual value.

Easy to move

Lightweight and compact, these models can be easily towed. Mounted on a single axle, these compressors are easy to manoeuvre on site.

Fuel efficiency

Combining the Atlas Copco screw element with a stage V compliant Kubota diesel engine, we deliver a compressor that is best in class in terms of fuel economy.

Service efficiency

The long service intervals and longer life of all consumables reduce operational costs and increase utilization. Spin-on filters and a spin-on oil separator element means you can change all consumables in minutes.

Spillage free frame

110% guaranteed to contain all fluids. This is not an option – it comes as standard. The 3 layer corrosion protection coating (category C3) extends lifetime and increases residual value.



Model		XATS 138			XAHS 108
Performance					
Nominal effective working pressure	bar (g)	7	8.6	10.3	7-12
	psi (g)	100	125	150	175
Free air delivery	cfm	237	214	189	188
	m ³ /min	7	6	5	5
	l/sec	112	101	89	89
Max. ambient temp. at sea level	°C	45			
Min. starting temperature	°C	-10			
Min. starting temp. (cold start)	°C	-20			
Engine					
Engine Brand		Kubota			
Engine Model		V2403-CR-T-E5B			
Emission level		stage V			
Number of cylinder		4			
Engine power	kW	48.6			
Full load	rpm	2700	2450	2200	2700
Unload	rpm	1800	1800	1800	1800
Capacity					
Engine oil	l	11.5			
Compressor oil	l	11			
Fuel tank	l	87			
Noise level					
Sound pressure level (LpA) at 7m	dB(A)	70			
Dimensions					
length (inc fixed towbar)	mm	3747			
width	mm	1593			
height	mm	1572			
weight	kg	1300			

stage V
COMPLIANT
(ONLY FOR EUROPE)

COMPACT AND LIGHT

7 TO 10 BAR
(ONLY FOR EUROPE)

EXTENDED SERVICE INTERVALS
1 IN 2 YEARS

110% SPILLAGE FREE FRAME

Product Reference XA(H)S 108-138 Kd S2 APP

Portable Compressor

Standard Scope of Supply

The Atlas Copco **XAS 138 and XAHS 108 Kd** are single-stage, oil-injected, rotary screw type air compressors, powered by a liquid-cooled, Four-cylinder turbocharged Kubota diesel engine.

The unit hosts the new generation C90 Screw element in its air end combined with a Kubota made diesel engine model V2403 Stage 2, cooling circuit, air/oil separation and control systems, an undercarriage with fixed towbar, brakes and pintle eye is available as standard.

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
- Battery Cut off switch
- 3-layer painting

Benefits

- The unit comes with a Spillage Free frame as Standard with 110% fluid containment and Stage 2 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, less than 1300 Kg
- Prevents damage to the engine by cutting of the power from the batteries
- High residual value

Main data

Model		XAS 138	XAHS 108
Minimum effective receiver pressure	bar(g)	5	4
Maximum effective receiver pressure (Unloaded)	bar(g)	7.5	13
Normal effective working pressure	bar(g)	7	12
Actual free air delivery			
at pressure setting 7 bar(g)	l/s	113.93	-
at pressure setting 12 bar(g)	l/s	-	88
Fuel consumption	l/s		
at 100% FAD (full load)	kg/h	10.76	11.72
at 75% FAD	kg/hr	6.59	8.99
at 50% FAD	kg/hr	4.8	6.6
at 25% FAD	kg/hr	4.42	5.56
Specific fuel consumption at 100% FAD	g/m ³	26.2	36.5
Maximum typical oil content of compressed air	mg/m ³	5	5
Max. sound pressure level (Lw @ 2000/14/EC)	dB(A)	100	100
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	72	72
Compressed air temperature at outlet valve without aftercooler	°C (°F)	78.5 (173.3)	76 (168.8)
Max. ambient temperature at sea level with aftercooler	°C (°F)	50 (122)	50 (122)
Min. starting temperature with cold weather equipment	°C (°F)	-20 (-4)	-20 (-4)
Min. starting temperature without cold weather equipment	°C (°F)	-10 (-14)	-10 (-14)
Number of compression stages		1	1

Engine		Kubota V2403-M-DI-T-E2B	Kubota V2403-M-DI-T-E2B
Emission stage		Stage 2	Stage 2
Coolant		ParCool EG	ParCool EG
Number of cylinders		4	4
Bore	mm	87	87
Stroke	mm	102.4	102.4
Swept volume	l	2.4	2.4
Engine power at normal shaft speed @ ISO 9249G	kW	49.2	49.2
Full Load	rpm	2700	2700
Unload	rpm	1600	1600
Capacity of oil sump: - Initial fill	l	9.5	9.5
Capacity of oil sump: - Refill (max)	l	9	9
Capacity of cooling system	l	11.5	11.5
Capacity of compressor oil system	l	11	11
Net capacity of air receiver	l	30	30
Air volume at inlet grating (approx.)	m ³ /s	2.7	2.7
Capacity of standard fuel tanks	l	87	87

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 **XAS 138 and XAHS 108 Kd** compressors utilize an Atlas Copco C90 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. Vessel is ASME/CRN approved and stamped accordingly.

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 AC, with canopy doors closed.

Compressor Regulating System

The compressor regulating system consists of air filter, air receiver/oil separator, compressor element, unloader assembly with unloader valve, blow down valve and loading valve.

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

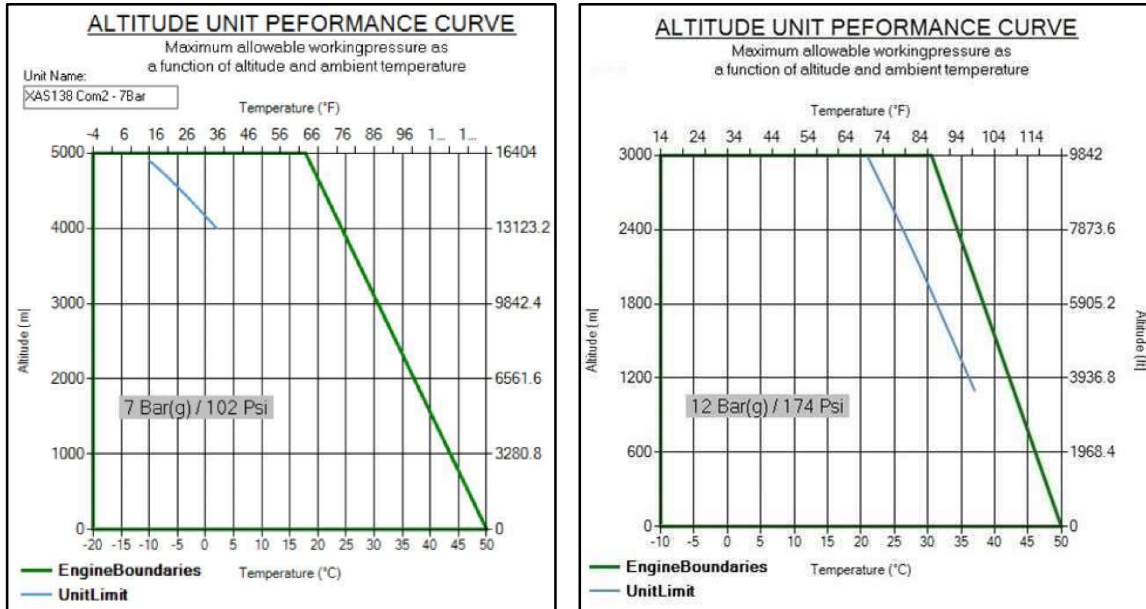
Engine

Kubota

Kubota V2403-M-DI-T-E2B, turbocharged, 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 -20°C (-4°F).

The 87 L fuel tank is sufficiently sized to allow full shift autonomy (8h).



Electrical System

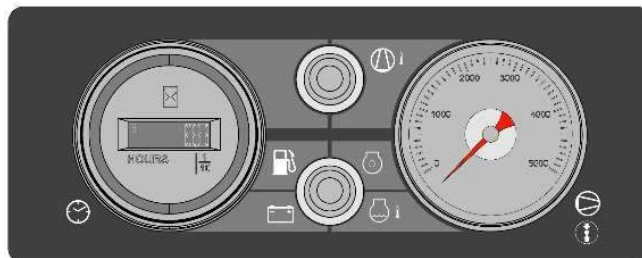
The **XA 138 and XAHS 108 Kd** are equipped with a 12 Volt negative ground electrical starting system.

Instrumentation

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

The Control Panel will show the following information: Vessel pressure indication, Compressor running condition, Running hours and Warning indicators - Engine oil pressure, Coolant temperature and Battery charging indicator.

The Power ON/OFF switch turns the control panel on and off. Starting is achieved with the start button and key switch. Turning the Key switch to OFF position will stop the compressor in a controlled way.



Safety Devices

The compressor is standard equipped with safety devices for the compressor and the engine. The unit will be completely turned off when:

- Engine oil temperature rises too high
- Engine oil pressure drops too low
- Compressor Oil temperature is high

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 sound attenuated to meet the most current legal noise requirements. U-flex canopy offers easy service access to all components from both sides of the machine.

Undercarriage

The **XAS 138 and XAHS 108 Kd** 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, Atlas Copco Parts Book, Kubota 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.