

# XATS 138 Kd S3B

## Standard Scope of Supply



## Portable compressor

The Atlas Copco **XATS 138** is a single-stage, oil-injected, rotary screw type air compressor, powered by a liquid-cooled, Four-cylinder turbocharged Kubota diesel engine.

The unit hosts the new generation C90 Screw element in its air end. Kubota makes diesel engine model V2403-CR-T-E4B with exhaust treatment, cooling circuit, air/oil separation and control systems - all enclosed within a sound-dampened powder + primer-coated zinc-coated steel enclosure.

An undercarriage with adjustable towbar and brakes is available as standard.

Special attention has been given to the overall product quality, user-friendliness, ease of serviceability, and economical operation to ensure the best in-class cost of ownership.

The unique feature of this new range is the PACE functionality coupled with the intuitive XC2003 controller that allows the compressor to be configured to operate at any pressure between 2 pressure Presets. The controller can be used as a toggle to select between the presets.

## Pressures and flow

Model name		XATS 138			XAHS 108		
		Bar(g)	8,6	10	7	10	12
Normal effective Working Pressure	Bar(g)	7	8,6	10	7	10	12
	Psi (g)	100	125	150	100	150	175
Free Air Delivery	cfm	240	215	189	185	185	185
	m <sup>3</sup> /min	6,7	6	5,5	5,23	5,23	5,23
	l/sec	112	101	89	174	174	174

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## Features

- PACE
- Designed with environmental protection in mind
- Compact, sound attenuated, corrosion resistant enclosure

## Benefits

- The versatility of the Xc2003 controller gives you the flexibility to tune your machine to a wider range of applications.. This feature make the compressor very versatile as the same unit can be used for various application . This increases the utilization and hence the ROI as against an 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 3B emission compliant engine , This makes the compressor suitable for use in all areas of the EU
- For OND compliance the unit is enclosed in an 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.

## Optional Features

Of course, we will still offer the same variety of options as we had on the previous products:

- Undercarriages: support mounted, adjustable or fixed towbar
- Towing eyes (DIN, NATO, GB,BNA, Ball coupling and loose ball coupling)
- Jockey wheel or leg support
- Road light system
- Wheel chocks
- Quality air equipment (Aftercooler + WSD + bypass, Aftercooler + WSD + PD + Bypass)
- Special application equipment: Refinery Kit
- Cold start
- Toolbox
- Safety cartridge
- Metal filler neck
- Special color

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	l/sec	112	101	89	174	174	174
Max. Ambiente Temperature at sea level	°C	45					
Min. Starting Temperature	°C	-10					
Min. Starting Temperature with Cold Start option	°C	-20					
Engine Brand		Kubota					
Engine Model		V2403-CR-T-E4B					
Number of Cylinder		4					
Power output	kW	49					
<b>Capacity</b>							
Engine Oil	l	9,5					
Compressor Oil	l	11					
Fuel Tank	l	87					
<b>Dimensions</b>							
		BOX			Adjustble brakes		
Length	mm	2138			3395		
Width	mm	1255			1593		
Height	mm	1183			1571		
Weight Dry	Kg	960			1140		
Weight Wet	Kg	1070			1250		

<sup>1</sup> According to ISO 1217 ed.4 2009 annex D

<sup>2</sup> Measured in accordance with 2000/14/EC

<sup>4</sup> Consult Atlas Copco for proper de-rating instructions for operation beyond ambient limitations

<sup>5</sup> Power limited by Engine ECU

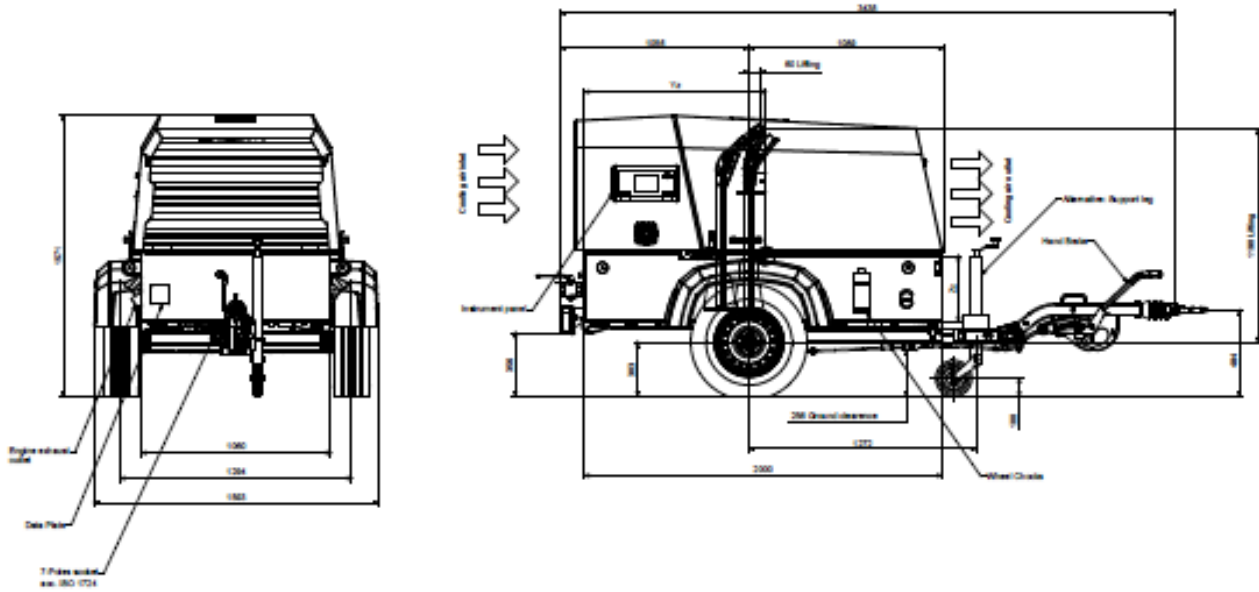
<sup>6</sup> Engine and emissions require the use of Ultra Low Sulfur Diesel in accordance to ASTM-D975 Grade No.1-D S15 & No.2-D S15

<sup>7</sup> Diesel Exhaust Fluid in accordance with ISO 2224, consumption rate is dependent on DEF age, quality and site conditions

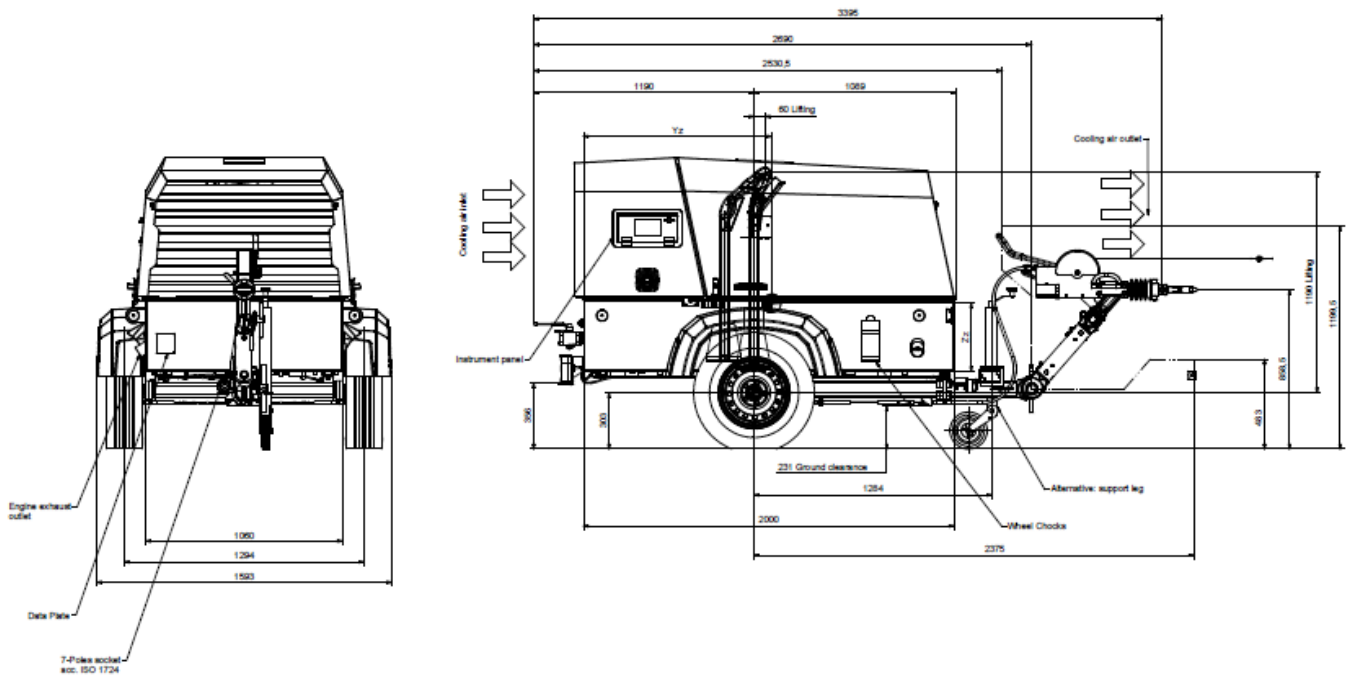
<sup>8</sup> According to DIN 72311

## Dimensions

### Fixed Braked



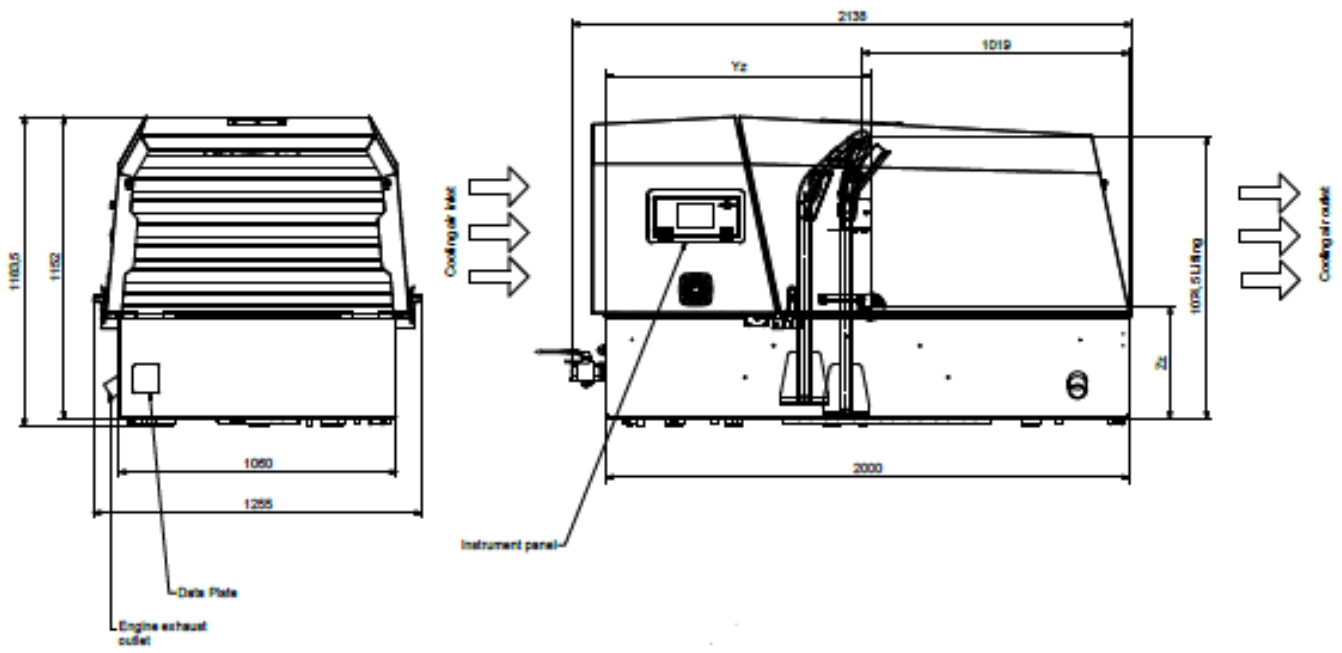
### Adjustable Braked



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Box Version

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## Principle Data

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### Compressor Element

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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 XATS138 Stage 3B compressor utilizes an Atlas Copco C90 element and is driven from the diesel engine. Inlet air is filtered through a heavy duty two stage air filter.

### Air/Oil Separator

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Air and oil separation is achieved through a centrifugal oil separator combined with a filter element. Vessel is CE approved and stamped accordingly.

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

### Cooling System

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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 45 °C (40°C with AC), with canopy doors closed.

### Compressor Regulating System / PACE

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Introduction of intuitive PACE functionality allows the compressor to operate at any pressure setting between 7 and 10 bar. The compressor can have 2 pressure presets and we can use the controller to toggle between the pressure presets

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

### Discharge Outlets

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Standard compressed air is available from a 1 ½" NPT ball valve and three ¾" Fittings.

## Engine

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### Kubota

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Kubota V2403 CR-T-E4B, turbocharged, four-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

Meets all EU exhaust legislations with Stage 3B compliance, a Diesel Oxidation Catalyst (DOC) and DPF system helps to meet stage 3B emissions.

Cold start options are available for up to -20°C.

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

## Electrical System

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The **XATS 138** is equipped with a 12 Volt negative ground electrical starting system.

## Instrumentation

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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
- 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
  - DPF Soot level
  - Engine RPM
- Warnings and Shutdowns
  - High temperature engine coolant
  - High temperature compressor oil
  - Engine oil pressure
  - Low fuel level
  - High DPF soot 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
  - Manual regeneration of DPF
  - Reset service timers
  - Diagnostics for engine ECU
  - Language settings
  - Unit of measure changes



## Bodywork

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The compressor comes standard with ASTM A653 Zincor steel canopy 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.

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## Undercarriage

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The **XATS 138** compressor is available with a n undercarriage alternative, providing utmost flexibility in installation or towing requirements.

- Single axle trailer setup with:
  - Undercarriage with road homologation and Adjustable towbar
  - 205R14C Wheels for trailer use
  - Trailer brakes
  - Heavy Duty torsion axle
  - Jockey wheel / support leg
  - Single point lifting structure
- Support mounted frame

## Supplied Documentation

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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

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**Kubota Engine:** Kubota Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) months without limitations in running hours, or twenty-four (24) months prior to the accumulation of 2,000 hours from the date of invoicing from Atlas Copco. Unit must be registered directly with Kubota upon receipt to be eligible for warranty. Failure to register warranty upon initial start-up may cause warranty claim delays or rejection of claim by Kubota.

**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.