



Standard Scope of Supply

The Atlas Copco **XAS 38-48 KD** is a single-stage, oil-injected, rotary screw type air compressor range, powered by a liquid-cooled, three-cylinder Kubota diesel engine.

The unit hosts the new generation C67 Screw element in its air end, combined with a Kubota made diesel engine model D722 and D902 respectively, complying with the EU Stage 5 emission 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

Benefits

- Compact, fuel-efficient engine
- Designed with environmental protection in mind
- Compact, sound attenuated, corrosion resistant enclosure
- HardHat™ hood and 3-layer painting of metal parts
- Saves up to 12% of fuel on typical applications in this range.
- The unit comes with a Spillage Free frame as standard with 110% fluid containment and EU Stage 5 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.
Compact and maneuverable, saving valuable space on your job site and during transportation, weighing less than 550 kg.
- High residual value and low repair costs

Main data

Model		XAS 38 KD	XAS 48 KD	XAS 48 KD LRC*
Minimum effective receiver pressure	bar(g)	2	2	2
Maximum effective receiver pressure (Unloaded)	bar(g)	8,8	8,8	8,8
Normal effective working pressure	bar(g)	7	7	7
Actual free air delivery	m ³ /min	2,0	2,5	2,6
Fuel consumption				
at 100% FAD (full load)	kg/h	3,43	4,19	4,64
at 75% FAD	kg/h	2,83	3,46	3,82
at 50% FAD	kg/h	2,07	2,53	2,73
at 25% FAD	kg/h	1,64	1,64	1,98
Specific fuel consumption at 100% FAD	g/m ³	29,7	28,5	29,8
Maximum typical oil content of compressed air	mg/m ³	5	5	5
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	70	70	71
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	97	98	99
Compressed air temperature at outlet valve without aftercooler	°C	85	85	85
Max. ambient temperature at sea level without aftercooler	°C	50	47	43
Min. starting temperature with cold weather equipment	°C	-20	-20	-20
Min. starting temperature without cold weather equipment	°C	-10	-10	-10
Engine		Kubota	Kubota	Kubota
Type		D722	D902	D902
Emission stage		EU Stage 5	EU Stage 5	EU Stage 5
Coolant		ParCool	ParCool	ParCool
Number of cylinders		3	3	3
Bore	mm	67	72	72
Stroke	mm	68	73,6	73,6
Swept volume	l	0,719	0,898	0,898
Engine power at normal shaft speed @ ISO 9249G	kW	14,9	18,5	18,5
Full Load	rpm	3400	3400	3600
Unload	rpm	2000	2000	2200
Capacity of oil sump: - Initial fill	l	4	4	4
Capacity of oil sump: - Refill (max)	l	3,8	3,8	3,8
Capacity of cooling system	l	4,5	4,5	4,5
Capacity of compressor oil system	l	6	6	6
Net capacity of air receiver	l	6,7	6,7	6,7
Air volume at inlet grating (approx.)	m ³ /s	0,93	0,93	0,93
Capacity of standard fuel tanks	l	28,5	28,5	28,5
Safety valve - minimum opening pressure	bar(g)	9,9	9,9	9,9

*not available for sale in the EU

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 38-48 KD compressors utilize an Atlas Copco C67 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. The vessel is either CE or ASME/CRN/MOM/AS1210 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 coolers with an 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 between 43°C and 50°C depending on the model, with canopy doors closed.

Engine

A Kubota D722 or D902, turbocharged, three-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full load.

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

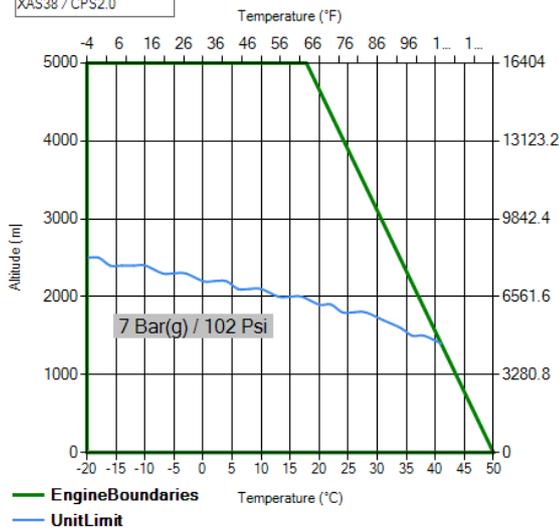
The 28 liter fuel tank is sufficiently sized to allow full shift autonomy (8 hours).

ALTITUDE UNIT PEFORMANCE CURVE

Maximum allowable working pressure as a function of altitude and ambient temperature

Unit Name:

XAS38 / CPS2.0



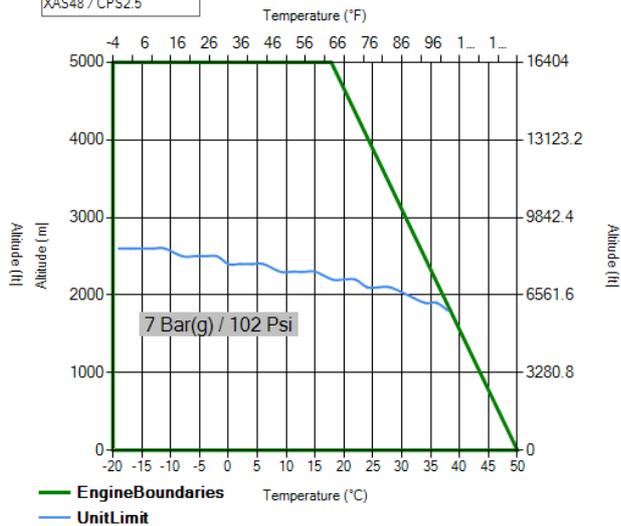
Graph represents working conditions, for starting conditions pls contact your Atlas Copco contact

ALTITUDE UNIT PEFORMANCE CURVE

Maximum allowable working pressure as a function of altitude and ambient temperature

Unit Name:

XAS48 / CPS2.5



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

Electrical System

The XAS 38-48 KD is equipped with a 12 Volt negative ground electrical starting system.

Instrumentation

The instrument control panel is located at the rear of the compressor canopy with easy access.

The standard instrument package includes an operating pressure gauge, a starter switch, a running hour counter, and 2 warning lamps.

The starter switch has an integrated lockout mechanism to prevent starter motor damage.



Bodywork

The compressor's frame comes standard with ASTM A653 Zincor steel platework with powder coat paint finish providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements.

Undercarriage

The XAS38-48 compressors are available with a choice of undercarriages, providing utmost flexibility in installation or towing requirements.

All undercarriage types can be partially disassembled and/or adjusted vertically upwards, to allow for sideways **truck loading**, up to 9 units per truck.

Even sideways **container loading** is also possible, allowing up to 8 units per container.

Options

The following options are available:

- Undercarriage
 - Adjustable without brakes
 - Adjustable with brakes
 - Fixed without brakes
 - Fixed with brakes
 - DoT approved
 - Support mounted
 - Extended support mounted
 - M+S marked tires
- Towing eyes
 - AC
 - Ball coupling
 - DIN
 - GB
 - ITA
 - NATO
- Towbar supports
 - Support leg
 - Jockey wheel
- Road light systems
 - Normal
 - LED
 - DoT approved non LED
 - Reflectors only
- Quality air equipment
 - Non return valve
- Pressure vessel
 - CE approved
 - Multi-approved (ASME/CRN/MOM/AS1210)
- Anti-theft device
- Additional fuelfilter
- Toolbox
- Cold weather equipment (thermostatic bypass valve and synthetic oil)
- Hose reel
- Spark arrester
- Customized appearance
 - Special labelling
 - Special coloured hood
 - Special coloured frame
 - Special coloured bumper
- Connectivity
 - Fleetlink™

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 (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.