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### Standard Scope of Supply

The Atlas Copco **XAHS 38-XAS 98 KD** is a single-stage, oil-injected, rotary screw type air compressor range, powered by a liquid-cooled, four-cylinder Kubota diesel engine.

The unit hosts the new generation C67 and C90 (XAS 98) screw element in its air end, combined with a Kubota made diesel engine model V1505 or V1505-T, complying with the Tier 2 emission standard. Different pressure variants 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.

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### Features

- 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

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### Benefits

- 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.
- Compact and maneuverable, saving valuable space on your job site and during transportation, weighing less than 750 kg. (without options)
- High residual value and low repair costs

## Main data

Model		XAHS 38	XAS 58	XAS 68
Minimum effective receiver pressure	bar(g)	2	2	2
Maximum effective receiver pressure (Unloaded)	bar(g)	13,5	8,8	8,8
Normal effective working pressure	bar(g)	12	7	7
Actual free air delivery	m <sup>3</sup> /min	2,3	3,0	3,5
Fuel consumption				
at 100% FAD (full load)	kg/h	5,6	6,44	6,44
at 75% FAD	kg/h	4,66	5,23	5,23
at 50% FAD	kg/h	3,84	3,87	3,87
at 25% FAD	kg/h	2,79	3,51	3,51
Specific fuel consumption at 100% FAD	g/m <sup>3</sup>	42,03	29,91	29,91
Maximum typical oil content of compressed air	mg/m <sup>3</sup>	5	5	5
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	101	101	101
Compressed air temperature at outlet valve without aftercooler	°C	54	78,5	78,5
Max. ambient temperature at sea level without aftercooler	°C	50	50	50
Min. starting temperature with cold weather equipment	°C	-20	-20	-20
Min. starting temperature without cold weather equipment	°C	-10	-10	-10
<b>Engine</b>		Kubota	Kubota	Kubota
Type		V1505	V1505	V1505
Coolant		ParCool	ParCool	ParCool
Number of cylinders		4	4	4
Bore	mm	78	78	78
Stroke	mm	78,4	78,4	78,4
Swept volume	l	1,498	1,498	1,498
Engine power at normal shaft speed @ ISO 9249G	kW	26,5	26,5	26,5
Full Load	rpm	3000	3000	3000
Unload	rpm	1800	1850	1850
Capacity of oil sump: - Initial fill	l	5,5	5,5	5,5
Capacity of oil sump: - Refill (max)	l	5,35	5,35	5,35
Capacity of cooling system	l	8,5	8,5	8,5
Capacity of compressor oil system	l	8	8	8
Net capacity of air receiver	l	12	12	12
Air volume at inlet grating (approx.)	m <sup>3</sup> /s	0,93	0,93	0,93
Capacity of standard fuel tanks	l	60	60	60
Safety valve - minimum opening pressure	bar(g)	14,1	9,9	9,9

# XAHS 38 - XAS 98 KD WUX - Product Reference

Model		XATS 68	XAS 78	XAS 175 XAS 88	XAS 98
Minimum effective receiver pressure	bar(g)	2	2	2	2
Maximum effective receiver pressure (Unloaded)	bar(g)	12,5	8,8	8,8	8,8
Normal effective working pressure	bar(g)	10,3	7	7	7
Actual free air delivery	m <sup>3</sup> /min	3,5	4,5	5,0	5,3
<b>Fuel consumption</b>					
at 100% FAD (full load)	kg/h	8,17	8,17	8,17	8,5
at 75% FAD	kg/h	6,83	6,83	6,83	7
at 50% FAD	kg/h	5,3	5,3	5,3	5,27
at 25% FAD	kg/h	2,93	2,93	2,93	3,59
Specific fuel consumption at 100% FAD	g/m <sup>3</sup>	39,81	30,83	30,83	28,73
Maximum typical oil content of compressed air	mg/m <sup>3</sup>	5	5	5	5
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	101	101	101	101
Compressed air temperature at outlet valve	°C	78,5	83,2	83,2	83,2
Max. ambient temperature at sea level	°C	50	50	50	50
Min. starting temperature with CS equipment	°C	-20	-20	-20	-20
Min. starting temperature without CS equipment	°C	-10	-10	-10	-10
<b>Engine</b>					
Type		Kubota	Kubota	Kubota	Kubota
Coolant		ParCool	ParCool	ParCool	ParCool
Number of cylinders		4	4	4	4
Bore	mm	78	78	78	78
Stroke	mm	78,4	78,4	78,4	78,4
Swept volume	l	1,498	1,498	1,498	1,498
Engine power at normal shaft speed @ ISO 9249G	kW	33	33	33	33
Full Load	rpm	3000	3000	3000	3000
Unload	rpm	1850	1850	1850	1850
Capacity of oil sump: - Initial fill	l	5,5	5,5	5,5	5,5
Capacity of oil sump: - Refill (max)	l	5,35	5,35	5,35	5,35
Capacity of cooling system	l	8,5	8,5	8,5	8,5
Capacity of compressor oil system	l	8	8	8	9
Net capacity of air receiver	l	12	12	12	18
Air volume at inlet grating (approx.)	m <sup>3</sup> /s	0,93	0,93	0,93	0,93
Capacity of standard fuel tanks	l	60	60	60	60
Safety valve - minimum opening pressure	bar(g)	14,1	9,9	9,9	9,9

# XAHS 38 - XAS 98 KD WUX - Product Reference

Model		XAS 48 KDG 6kVA 400 V	XAS 68 KDG 6kVA 400 V
Minimum effective receiver pressure	bar(g)	2	2
Maximum effective receiver pressure (Unloaded)	bar(g)	8,8	8,8
Normal effective working pressure	bar(g)	7	7
Actual free air delivery	m <sup>3</sup> /min	2,5	3,5
<b>Fuel consumption</b>			
at 100% FAD (full load)	kg/h	4,89	6,68
at 75% FAD	kg/h	3,96	5,61
at 50% FAD	kg/h	3,12	4,12
at 25% FAD	kg/h	2,29	3,1
Specific fuel consumption at 100% FAD	g/m <sup>3</sup>	36,51	30,67
Maximum typical oil content of compressed air	mg/m <sup>3</sup>	5	5
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	101	101
Compressed air temperature at outlet valve	°C	76	80,8
Max. ambient temperature at sea level	°C	50	50
Min. starting temperature with CS equipment	°C	-20	-20
Min. starting temperature without CS equipment	°C	-10	-10
<b>Engine</b>			
Type		Kubota	Kubota
Coolant		V1505	V1505-T
Number of cylinders		ParCool	ParCool
Bore	mm	4	4
Stroke	mm	78	78
Swept volume	l	78,4	78,4
Engine power at normal shaft speed @ ISO 9249G	kW	1,498	1,498
Full Load	rpm	26,5	33
Unload	rpm	3000	3000
Capacity of oil sump: - Initial fill	l	1850	1850
Capacity of oil sump: - Refill (max)	l	5,5	5,5
Capacity of cooling system	l	5,35	5,35
Capacity of compressor oil system	l	8,5	8,5
Net capacity of air receiver	l	8	8
Air volume at inlet grating (approx.)	m <sup>3</sup> /s	12	12
Capacity of standard fuel tanks	l	0,93	0,93
Safety valve - minimum opening pressure	bar(g)	60	60
<b>Alternator</b>			
Type		MECC ALTE	MECC ALTE
Insulation class		T16F-130/A	T16F-130A
Rated output, class H temp. rise	kVA	H	H
Standard		6	6
Number of phases		IEC 34-1	IEC 34-1
Fault current protection, Insulation resistance	kOhm	3	3
Circuit-breaker 3ph: Number of poles		10	10
Circuit-breaker 3ph: Thermal release (It)	A	4	4
Circuit-breaker 3ph: Magnetic release	%In	10	10
Circuit-breaker 3ph: Rated current (In)	A	300-500	300-500
Air/Electricity operating mode*		10	10
		Simultaneous	Simultaneous

\* Simultaneous: full FAD and full electric power available at the same time  
Semi-simultaneous: air and electric power available at the same time, but not both at full load

# XAHS 38 - XAS 98 KD WUX - Product Reference

Model		XAS 48 KDG 12kVA 400 V	XAS 68 KDG 12kVA 400 V	XAS 98 KDG 9kVA 400 V
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 <sup>3</sup> /min	2,5	3,5	5,3
Fuel consumption				
at 100% FAD (full load)	kg/h	4,89	6,68	8,5
at 75% FAD	kg/h	3,96	5,61	7
at 50% FAD	kg/h	3,12	4,12	5,27
at 25% FAD	kg/h	2,29	3,1	3,59
Specific fuel consumption at 100% FAD	g/m <sup>3</sup>	36,51	30,67	28,73
Maximum typical oil content of compressed air	mg/m <sup>3</sup>	5	5	5
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	101	101	101
Compressed air temperature at outlet valve	°C	76	80,8	83,2
Max. ambient temperature at sea level	°C	50	50	50
Min. starting temperature with CS equipment	°C	-20	-20	-20
Min. starting temperature without CS equipment	°C	-10	-10	-10
<b>Engine</b>		Kubota	Kubota	Kubota
Type		V1505-T	V1505-T	V1505-T
Coolant		ParCool	ParCool	ParCool
Number of cylinders		4	4	4
Bore	mm	78	78	78
Stroke	mm	78,4	78,4	78,4
Swept volume	l	1,498	1,498	1,498
Engine power at normal shaft speed @ ISO 9249G	kW	33	33	33
Full Load	rpm	3000	3000	3000
Unload	rpm	1850	1850	1850
Capacity of oil sump: - Initial fill	l	5,5	5,5	5,5
Capacity of oil sump: - Refill (max)	l	5,35	5,35	5,35
Capacity of cooling system	l	8,5	8,5	8,5
Capacity of compressor oil system	l	8	8	9
Net capacity of air receiver	l	12	12	18
Air volume at inlet grating (approx.)	m <sup>3</sup> /s	0,93	0,93	0,93
Capacity of standard fuel tanks	l	60	60	60
Safety valve - minimum opening pressure	bar(g)	9,9	9,9	9,9
<b>Alternator</b>		MECC ALTE	MECC ALTE	MECC ALTE
Type		T20FS-160/A	T20FS-160/A	T20FS-160/A
Insulation class		H	H	H
Rated output, class H temp. rise	kVA	12,5	12,5	12,5**
Standard		IEC 34-1	IEC 34-1	IEC 34-1
Number of phases		3	3	3
Fault current protection, Insulation resistance	kOhm	10	10	10
Circuit-breaker 3ph: Number of poles		4	4	4
Circuit-breaker 3ph: Thermal release (It)	A	16	16	13
Circuit-breaker 3ph: Magnetic release	%In	300-500	300-500	300-500
Circuit-breaker 3ph: Rated current (In)	A	16	16	13
Air/Electricity operating mode*		Simultaneous	Semi-simultaneous	Semi-simultaneous

\* Simultaneous: full FAD and full electric power available at the same time  
Semi-simultaneous: air and electric power available at the same time, but not both at full load

\*\* limited to 9 kVA by main circuit breaker

## 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 decreases, and fuel consumption goes down.

The **XAHS 38 – XAS 98 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.

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 up to 50°C, with canopy doors closed.

## Engine

A Kubota V1505 naturally aspirated or V1505-T turbocharged, four-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 60-liter fuel tank is sufficiently sized to allow full shift autonomy (8 hours).

## Electrical System

The **XAHS 38 - XAS 98 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

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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

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The **XAHS 38 – XAS 98** 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.

With the Fixed without brakes undercarriage type, even sideways **container loading** is also possible, allowing up to 8 units per container.

## Supplied Documentation

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The unit is delivered with the following documents and certificates:

- Spare parts list for compressor.
- Instruction Manual for both compressor and engine.
- Machine test certificate.
- Vessel certificate.

## Warranty Coverage

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Please refer to product presentation for warranty info

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