XAS 58-7 - XAS 58-7 G Kd S5 APP

Standard Scope of Supply

The Atlas Copco **XAS 58-7 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 C90 Screw element in its air end, combined with a Kubota made diesel engine model D1105-E4B, 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	• Saves up to 25% of fuel on typical applications in this range compared to its Stage IIIA predecessor (at 75% load).
• Designed with environmental protection in mind	• 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.
• Compact, sound attenuated, corrosion resistant enclosure	• 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 750 kg in standard configuration on any undercarriage.
• HardHat™ hood and 3-layer painting of metal parts	• High residual value and low repair costs

Main data

Model		XAS 58-7	XAS 58-7G 6kVA 230/400 V	XAS 58-7G 6,5kVA 110 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	l/s	50	50	50
Fuel consumption				
at 100% FAD (full load)	kg/h	4,8	4,8	4,8
at 75% FAD	kg/h	3,8	3,8	3,8
at 50% FAD	kg/h	2,9	2,9	2,9
at 25% FAD	kg/h	2,1	2,1	2,1
Specific fuel consumption at 100% FAD	g/m³	27,95	27,95	27,95
Maximum typical oil content of compressed air	mg/m³	5	5	5
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	95	95	95
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	67	67	67
Compressed air temperature at outlet valve without aftercooler	°C	80	80	80
Compressed air temperature at outlet valve with aftercooler	°C	35	35	35
Max. ambient temperature at sea level without aftercooler	°C	50	50	50
Max. ambient temperature at sea level with aftercooler	°C	45	45	45
Min. starting temperature with cold start equipment	°C	-20	-20	-20
Min. starting temperature without cold start equipment	°C	-10	-10	-10
Engine		Kubota	Kubota	Kubota
Type		D1105-E4B	D1105-E4B	D1105-E4B
Emission stage		EU Stage 5	EU Stage 5	EU Stage 5
Coolant		ParCool Green	ParCool Green	ParCool Green
Number of cylinders		3	3	3
Bore	mm	78,0	78,0	78,0
Stroke	mm	78,4	78,4	78,4
Swept volume	l	1,123	1,123	1,123
Engine power at normal shaft speed @ ISO 9249G	kW	18,5	18,5	18,5
Full Load	rpm	3000	3000	3000
Unload	rpm	1500	1500	1500
Capacity of oil sump:	l	4,5	4,5	4,5
Capacity of cooling system	l	6	6	6
Capacity of compressor oil system	l	8,7	8,7	8,7
Net capacity of air receiver	l	12	12	12
Air volume at inlet grating (approx.)	m³/s	0,93	0,93	0,93
Capacity of standard fuel tanks	l	45	45	45
Safety valve - minimum opening pressure	bar(g)	9,9	9,9	9,9
Alternator			MECC ALTE	MECC ALTE
Type			T16F-130/A	S16F-180/A
Insulation class			H	H
Rated output, class H temp. rise	kVA		6	6,5
Standard			IEC 34-1	IEC 34-1
Number of phases			3	1
Fault current protection, residual current release, Idn	A		0,03	0,03
Circuit-breaker: Number of poles			4	2
Circuit-breaker: Thermal release (It)	A		10	63
Circuit-breaker: Magnetic release	%In		300-500	300-500
Circuit-breaker: Rated current (In)	A		10	63
Air/Electricity operating mode*			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

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 58-7 and XAS 58-7 G** compressors utilize an Atlas Copco C90 element which 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 are 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 up to 50°C, with canopy doors closed.

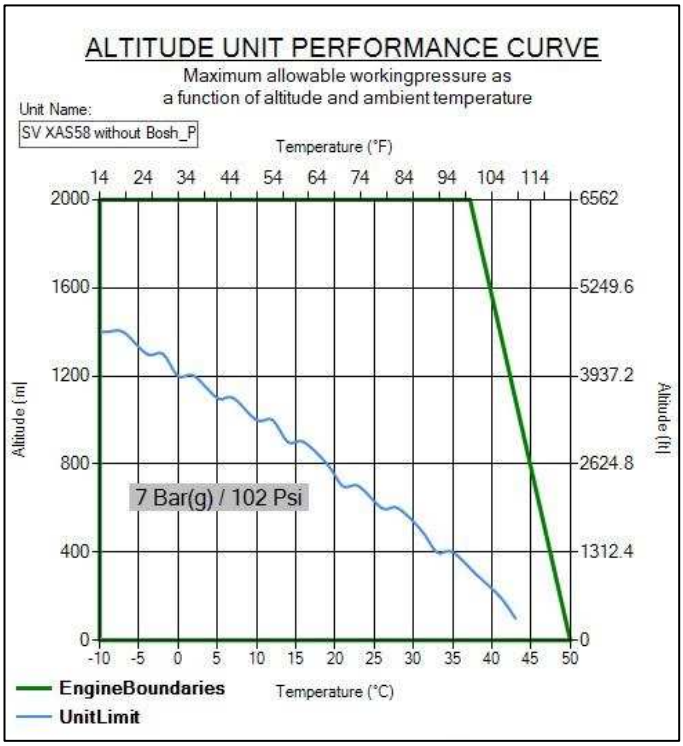
Engine

A Kubota D1105-E4B naturally aspirated 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 45-liter fuel tank is sufficiently sized to allow full shift autonomy at 75% load (8 hours).
An optional 60 liter fuel tank is available for even greater autonomy*.

** This option may increase the unit's weight above 750 kg in certain cases*



Electrical System

The **XAS 58-7 and XAS 58-7 G** are equipped with a 12 Volt negative ground electrical starting system.

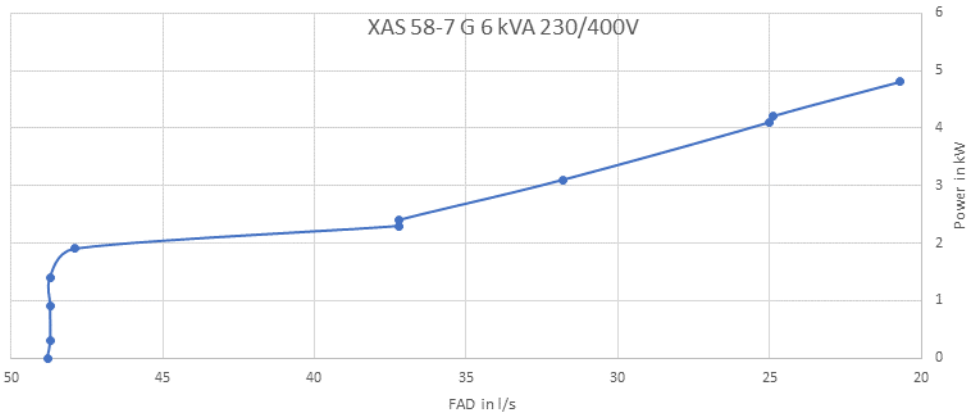
Instrumentation

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.

Generator

The XAS 58-7 G model comes with an on-board generator.
For semi-simultaneous units, the possible air take-off depends on the electric load. For these models, the relationship between FAD and electric power is indicated in below graphs.



Simultaneous units always have full air flow and electric power available at the same time.

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 **XAS 58-7 and XAS 58-7 G** 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.

Options

The following options are available:

- Undercarriage
  - Adjustable without brakes
  - Adjustable with brakes
  - Fixed without brakes
  - Fixed with brakes
  - Support mounted
  - Extended support mounted
- Towing eyes
  - Ball coupling
  - DIN
  - NATO
- Towbar supports
  - Support leg
  - Jockey wheel
- Road light systems
  - Normal
  - LED
  - Reflectors only
- Quality air equipment
  - Aftercooler with optional bypass valve
  - Lubricator
  - Reheater
  - Non return valve
  - PD filter
- Pressure vessel
  - CE approved
  - Multi-approved (ASME/CRN/MOM/AS1210)
- Anti-theft device
- Additional fuelfilter
- Safety cartridge
- Toolbox
- Extended fuel tank
- Cold weather equipment (thermostatic bypass valve and synthetic oil)
- Hose reel
- Refinery equipment
  - Spark arrester
  - Inlet shutdown valve
- Customized appearance
  - Special labelling
  - Special coloured hood
  - Special coloured frame
  - Special coloured bumper
- Connectivity
  - Fleetlink™ CoreBox

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.