Product Reference

XA(T)S 67-97 Dd(G)

Portable compressor

Standard Scope of Supply

The Atlas Copco **XA(T)S 67-97 Dd(G)** is a direct driven single-stage oil-injected rotary screw type air compressor, powered by a air-cooled, three cylinder Deutz diesel engine.

The unit consists of an element, diesel engine, cooling, air/oil separation and control systems - all enclosed within a sound dampened strong steel / polyethylene canopy.

A broad range of undercarriage types and standard factory installed options 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.

Available Models

XAS 67 Dd Steel Canopy	single stage -7 bar – Com3 compliant Deutz engine
XAS 67 Dd HardHat	single stage -7 bar – Com3 compliant Deutz engine
XAS 67 DdG	single stage -7 bar – Com3 compliant Deutz engine
XATS 67 Dd Steel Canopy	single stage -10.3 bar – Com3 compliant Deutz engine
XATS 67 Dd HardHat	single stage -10.3 bar – Com3 compliant Deutz engine
XAS 77 Dd Steel Canopy	single stage -7 bar – Com3 compliant Deutz engine
XAS 77 Dd HardHat	single stage -7 bar – Com3 compliant Deutz engine
XAS 97 Dd Steel Canopy	single stage -7 bar – Com3 compliant Deutz engine
XAS 97 Dd HardHat	single stage -7 bar – Com3 compliant Deutz engine
XAS 97 DdG	single stage -7 bar – Com3 compliant Deutz engine

Features

- Reputable engine brand
- 250 hr service intervals
- Zincor coated steel canopy (Steel Canopy)
- Full polyethylene canopy (HardHat)
- Simple instrument panel
- Low noise emissions
- Low engine exhaust emissions

Benefits

- Efficiency, Low Cost of Ownership
- Increase uptime, lower cost to own
- Robust, impact resistant, eye-catching: all guaranteeing a higher resale value (HardHat)
- Ease of operation
- Able to work in noise sensitive areas
- Protecting the environment

Technical Data

Compressor		XAS 67 Dd	XAS 67 Dd HardHat	XAS 67 DdG	XATS 67 Dd	XATS 67 Dd HardHat
Normal effective working pressure	bar	7	7	7	10.3	10.3
Actual free air delivery[1]	l/s	62	62	58	58	58
	m^3/min	3.7	3.7	3.5	3.5	3.5
Actual free air delivery with aftercooler[1]	l/s	57	57	53	53	53
	m^3/min	3.4	3.4	3.2	3.2	3.2
Max. sound power level (Lw)[2]	dB(A)	98	98	98	98	98
Max. sound pressure level at 7 m (Lp)	dB(A)	70	70	70	72	72
Oil Capacity	l	8	8	8	8	8
Max. ambient temperature	°C	45	45	45	45	45
Max. ambient temperature with aftercooler	°C	40	40	40	40	40
Air Compressor outlets		2 x G3/4"	2 x G3/4"	2 x G3/4"	2 x G3/4"	2 x G3/4"
Maximum altitude	m	5000	5000	5000	5000	5000
Minimum starting temperature	°C	-10	-10	-10	-10	-10

1 according to ISO 1217 ed.3 1996 annex D
2 according to 2000/14/EC, 84/533/EEC and 85/406/EEC limits

Engine						
Deutz		D2011L03	D2011L03	D2011L03	D2011L03	D2011L03
Number of cylinders		3	3	3	3	3
Output at rated speed	kW	32.5	32.5	36	36	36
Swept volume	l	2.332	2.332	2.332	2.332	2.332
Engine speed (nominal)	r/min	2400	2400	2750	2750	2750
Engine speed (unloaded)	r/min	1850	1850	1850	1850	1850
Capacity oil system	l	8.5	8.5	8.5	8.5	8.5
Capacity of fuel tank	l	80	80	80	80	80
Fuel consumption at 0% load	kg/h	3.1	3.1	4	3.3	3.3
Fuel consumption at 25% load	kg/h	3.4	3.4	4.2	3.7	3.7
Fuel consumption at 50% load	kg/h	4.3	4.3	5	4.2	4.2
Fuel consumption at 75% load	kg/h	5.2	5.2	6.2	5.6	5.6
Fuel consumption at 100% load	kg/h	5.9	5.9	7.4	7	7

Generator							
Electric Power	1 phase	kW/kVA	-	-	4.8/4	-	-
	3 phase	kW/kVA	-	-	4.8/6	-	-
Sockets	110 V		-	-	2x16+1x32 A CEE 1ph	-	-
	230/400 V		-	-	1x16 A CEE 3ph	-	-
			-	-	2x16 A schuko 1ph	-	-
	230/400 V		-	-	2x16 A CEE 3ph	-	-
			-	-	1x16 A schuko 1ph	-	-

Compressor			XAS 77 Dd	XAS 77 Dd HardHat	XAS 97 Dd	XAS 97 Dd HardHat	XAS 97 DdG
Normal effective working pressure		bar	7	7	7	7	7
Actual free air delivery[1]		l/s	72	72	89	89	89
		m^3/min	4.3	4.3	5.3	5.3	5.3
Actual free air delivery with aftercooler[1]		l/s	67	67	84	84	84
		m^3/min	4.02	4.02	5.04	5.04	5.04
Max. sound power level (Lw)[2]		dB(A)	98	98	98	98	98
Max. sound pressure level at 7 m (Lp)		dB(A)	70	70	72	72	72
Oil Capacity		l	8	8	8	8	8
Max. ambient temperature		°C	45	45	45	45	45
Max. ambient temperature with aftercooler		°C	40	40	40	40	40
Air Compressor outlets			2 x G3/4"	2 x G3/4"	3 x G3/4"	3 x G3/4"	3 x G3/4"
Maximum altitude		m	5000	5000	5000	5000	5000
Minimum starting temperature		°C	-10	-10	-10	-10	-10

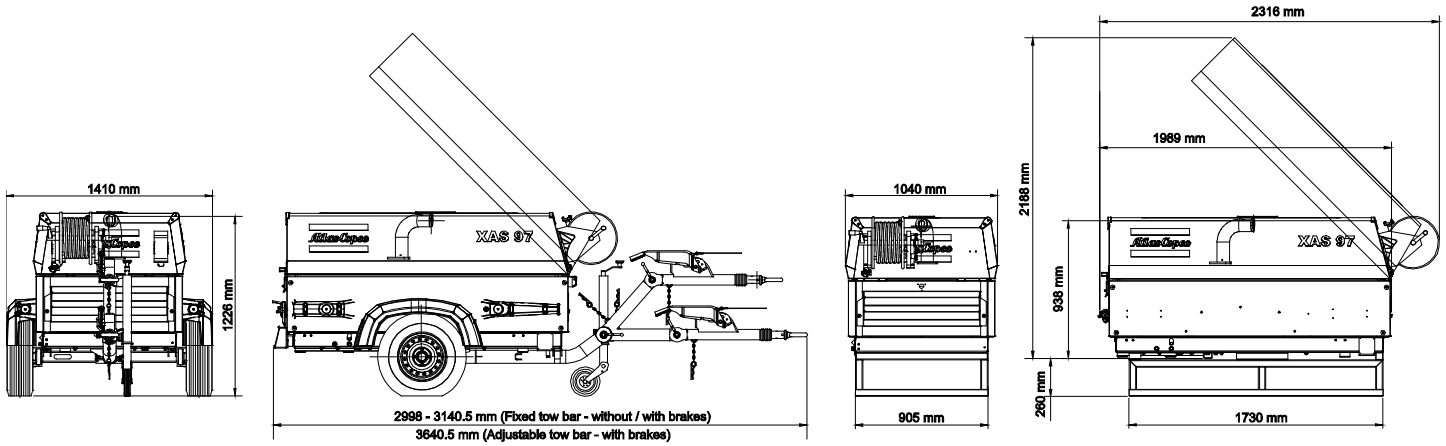
1 according to ISO 1217 ed.3 1996 annex D
2 according to 2000/14/EC, 84/533/EEC and 85/406/EEC limits

Engine							
Deutz			D2011L03	D2011L03	D2011L03	D2011L03	D2011L03
Number of cylinders			3	3	3	3	3
Output at rated speed		kW	31.5	31.5	36	36	36
Swept volume		l	2.332	2.332	2.332	2.332	2.332
Engine speed (nominal)		r/min	2300	2300	2750	2750	2750
Engine speed (unloaded)		r/min	1850	1850	1850	1850	1850
Capacity oil system		l	8.5	8.5	8.5	8.5	8.5
Capacity of fuel tank		l	80	80	80	80	80
Fuel consumption at 0% load		kg/h	3.7	3.7	3.6	3.6	3.6
Fuel consumption at 25% load		kg/h	3.9	3.9	4	4	4
Fuel consumption at 50% load		kg/h	4.5	4.5	5	5	5
Fuel consumption at 75% load		kg/h	5.1	5.1	6.4	6.4	6.4
Fuel consumption at 100% load		kg/h	5.9	5.9	8.1	8.1	8.1

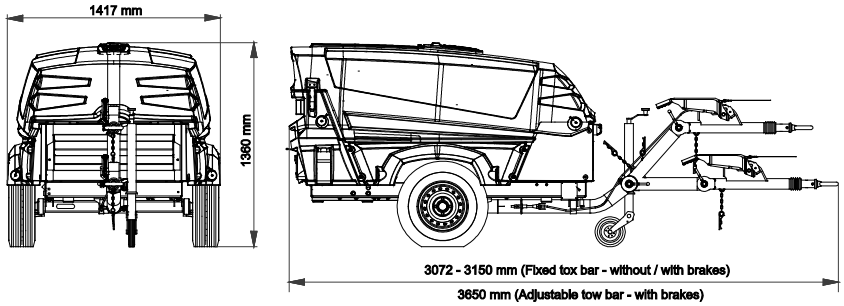
Generator							
Electric Power	1 phase	kW/kVA	-	-	-	-	4.8/4
	3 phase	kW/kVA	-	-	-	-	4.8/6
Sockets	110 V		-	-	-	-	2x16+1x32 A CEE 1ph
	230/400 V		-	-	-	-	1x16 A CEE 3ph
			-	-	-	-	2x16 A schuko 1ph
	230/400 V		-	-	-	-	2x16 A CEE 3ph
			-	-	-	-	1x16 A schuko 1ph

Dimensions

Steel Canopy



HardHat



Weight (Ready-to-operate)

		XAS 67 Dd	XAS 67 Dd (HardHat)	XAS 67 DdG	XATS 67 Dd	XATS 67 Dd HardHat
Box version	kg	800	-	-	800	-
fixed tow bar - no brakes	kg	1060	1060	-	1060	1060
fixed tow bar – brakes	kg	1060	1060	-	1060	1060
adjustable tow bar - brakes	kg	1060	1060	-	1060	1060

		XAS 77 Dd	XAS 77 Dd (HardHat)	XAS 97 Dd	XAS 97 Dd HardHat	XAS 97 DdG
Box version	kg	800	-	800	-	-
fixed tow bar - no brakes	kg	1060	1060	1060	1060	-
fixed tow bar – brakes	kg	1060	1060	1060	1060	-
adjustable tow bar - brakes	kg	1060	1060	1060	1060	-

Options

Undercarriage

- Support mounted (Steel Canopy)
- Adjustable height tow bar
- Fixed height tow bar
- Non braked undercarriage
- Braked undercarriage (parking brake + overrun brake)
- Jockey wheel
- Support leg
- Safety chain (for unbraked version only)
- Wheel chocks

Road signalization

- Bumper with road lights
- Bumper with reflectors
- 24V-12V adapter for road lights

Quality air equipment

- Tool lubricator
- Safety cartridge intake air filter
- Frost protection

Equipment

- 20 m hose reel (Steel Canopy)
- Cold weather starting aid (-20°C)
- Spillage free frame
- Compressed air non return valve
- Cosmos - GPRS or CDMA
- Special frame colour
- Special canopy colour
- Extended warranty
- Additional literature set

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 on the market. When the screw element is efficient- durability excels, maintenance intervals increase and fuel consumption goes down.

Air/Oil Separator

The three stage air and oil separation is achieved through a centrifugal oil separator combined with a filter element. The separator is available in a CE or an ASME approved version and is stamped accordingly.

Designed for 8.8 bar maximum working pressure (compressor unloaded), the separator is equipped with a sealed pressure safety relief valve and pressure regulator.

Cooling System

The cooling system consists of an integrated side-by-side aluminium oil cooler with axial fan to ensure optimum cooling. The cooling system is suitably designed for continuous operation in ambient conditions up to +50°C, with the compressor hood closed.

Compressor Regulating System

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

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

Discharge Outlets

Compressed air is available from 2 x ¾" outlet valves.

Engine

Deutz D2011L03

COM III / Tier 2 compliant three-cylinder, oil-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

Engine output at rated speed is 32.5kW at 2400 rpm.

The engine has the capability to start the compressor to -10°C without the addition of a cold start aid. A cold start option is available for temperatures down to -20°C.

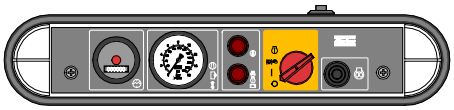
The 80 litre capacity fuel tank is sufficiently sized to operate the unit for a minimum of 8 hours at full-load condition.

Electrical System

The **XA(T)S 67-97 Dd(G)** is equipped with a 12 Volt negative ground electrical starting system.

Instrumentation

The instrument control panel is located on the back of the compressor canopy, with a protective plastic cover for safety and protection.



Standard instrument package includes an hour meter, operating pressure gauge, start button, and diagnostic shutdown indicator lamps all in one grouping.

An electric breaker switch avoids unauthorized starting of the compressor.

Starting is achieved with a three position switch for ease of operation.

Safety Devices

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

- Engine oil temperature rise too high
- Engine oil pressure drop too low

The starter motor is also protected against overloading from operating for an excessive period or when the engine is running.

Bodywork

Steel Canopy

The compressor is delivered as standard with a Zincor coated steel canopy with powder coat paint finish providing excellent corrosion protection. The canopy is sound attenuated and ensures a sound power level below 98 dB(A).

The removable side panels and rear baffle and the one piece canopy, supported by two gas struts, provide excellent service access.

An easy to remove cassette in the front baffle makes cleaning the coolers simple, fast and easy.

HardHat

The compressor is delivered as standard with a polyethylene canopy providing excellent corrosion- and impact protection. The canopy is sound attenuated and ensures a sound power level below 98 dB(A).

The removable side panels and rear baffle and the one piece canopy, supported by two gas struts, provide excellent service access.

An easy to remove cassette in the front baffle makes cleaning the coolers simple, fast and easy.

Undercarriage

The **XA(T)S 67-97 Dd(G)** compressor is available with numerous undercarriage alternatives, providing utmost flexibility in installation or towing requirements.

- Box version without undercarriage (Steel Canopy)
- Support mounted (Steel Canopy)
- Fixed height tow bar, with or without brakes
- Adjustable height tow bar, with or without brakes

Wheeled versions can be selected with stand leg or jockey wheel, and a broad range of towing eyes

Manufacturing & Environmental Standards

The **XA(T)S 67-97 Dd(G)** is manufactured following stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 14001 requirements.

Attention has been given to ensure minimum negative impact to the environment.

The **XA(T)S 67-97 Dd(G)** meets all current EU exhaust and noise emission directives.

Supplied Documentation

The unit is delivered with certificates regarding:

- Test certificate for air delivery pressure and capacity, acc. ISO 1217
- Sound power level, compliant to 2000/14/EC and ISO 2151 levels at 7m.
- Certificate for air/oil separator vessel and safety valve approval (CE/ASME)
- Instruction and operational manual for compressor and engine
- Spare parts list
- Declaration of conformity (for CE variants only)

Warranty Coverage

For our standard warranty conditions and options to extend, please check your local Atlas Copco representative.