

XA(H)S 107-137 Dd(G)

Portable compressor



Standard Scope of Supply

The **XA(H)S 107-137 Dd(G)** have been designed to offer true versatility through compact dimensions and simple to use controls. Providing exceptional reliability and efficiency, these units are designed to operate in a wide range of applications in the harshest of work environments.

Whether being used for running pneumatic breakers, general construction work, sandblasting or for rental are all within the capability of these units. Wide choices of options are available which to build these units specific from the simplest to most complex specialized application.

Despite the overall compactness these compressors still provide exceptional access to all the service and maintenance points. The compressor is driven by the latest COM 3 (C3) compliant diesel engine ensuring low operational costs and high resale value.

Above all Atlas Copco compressors are build for reliability, easily maintained, providing many years of trouble free performance.

Available Models

XAHS 107 Dd	single stage -12 bar - Com3 compliant Deutz engine
XAS 137 DdG	single stage -7 bar - Com3 compliant Deutz engine
XAS 137 Dd	single stage -7 bar - Com3 compliant Deutz engine

Features

- Full compliance with 2000/14/EC, the latest European Outdoor Noise Directive 250 hr service intervals
- Guaranteed free air delivery in accordance with ISO 1217 ed. 3 1996 annex D
- Zincor treated canopies with powder coat paint finish
- Modular design
- Few moving parts
- Controls grouped on one panel
- Engine speed adapts to air demand
- Compliant with exhaust emission standards 97/68/EC step III (Europe) & EPA Tier III (U.S.)
- Long service intervals

Benefits

- Units can be operated in the vicinity of hospitals, schools, residential areas and even at night and comply with international legislation
- Measured at the outlet valves, you get the amount of air you pay for
- Improved resistance to corrosion and higher resale value
- Easy accessibility for service and maintenance, Toolbox as standard, Fewer parts
- Reliability second to none and long working life
- Easy to monitor and control
- Economical power and fuel consumption, Stable air flow
- Meets the strictest environmental requirements
- Low operating costs

Technical Data

		XAHS 107 Dd C3	XAS 137 DdG C3	XAS 137 Dd C3
Compressor - EC				
Normal effective working pressure	bar	12	7	7
Actual free air delivery ¹	l/s	93	96	125
Actual free air delivery with aftercooler ¹	l/s	88	92	120
Max. sound power level (Lw) ²	dB(A)	98	98	98
Max. sound pressure level at 7 m (Lp)	dB(A)	71	71	71
Oil Capacity	l	13	13	13
Max. ambient temperature	°C	49	48	48
Max. ambient temperature with aftercooler	°C	41	40	40
Air Compressor outlets		3 x 3/4"	3 x 3/4"	3 x 3/4"
Maximum altitude	m	4200	4400	4200
Minimum starting temperature	°C	-10	-10	-10

Engine				
Deutz		TD2011L04	TD2011L04	TD2011L04
Number of cylinders		4	4	4
Output at rated speed	kW	52	52	52
Swept volume	l	3.62	3.62	3.62
Engine speed (nominal)	r/min	2400	2400	2400
Engine speed (unloaded)	r/min	1800	1700	1800
Capacity oil system	l	11	11	11
Capacity of fuel tank	l	130	130	130
Fuel consumption at 0% load	kg/h	5.9	-	5.9
Fuel consumption at 25% load	kg/h	6.9	-	6.9
Fuel consumption at 50% load	kg/h	9	-	9
Fuel consumption at 75% load	kg/h	10.9	-	10.9
Fuel consumption at 100% load	kg/h	12.3	-	12.3

		XAHS 107 Dd	XAS 137	XAS 137
		C3	DdG C3	Dd C3
Compressor - NON EC				
Normal effective working pressure	bar	12	7	7
Actual free air delivery ¹	l/s	95	98	127
Actual free air delivery with aftercooler ¹	l/s	90	94	122
Max. sound power level (Lw) ²	dB(A)	104	104	104
Max. sound pressure level at 7m (Lp)	dB(A)	76	76	76
Oil Capacity	l	13	13	13
Max. ambient temperature	°C	53	53	53
Max. ambient temperature with aftercooler	°C	45	45	45
Air Compressor outlets		3 x 3/4"	3 x 3/4"	3 x 3/4"
Maximum altitude	m	4200	4400	4200
Minimum starting temperature	°C	-10	-10	-10

Engine				
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Capacity oil system	l	11	11	11
Capacity of fuel tank	l	130	130	130
Fuel consumption at 0% load	kg/h	5.9	-	5.9
Fuel consumption at 25% load	kg/h	6.9	-	6.9
Fuel consumption at 50% load	kg/h	9	-	9
Fuel consumption at 75% load	kg/h	10.9	-	10.9
Fuel consumption at 100% load	kg/h	12.3	-	12.3

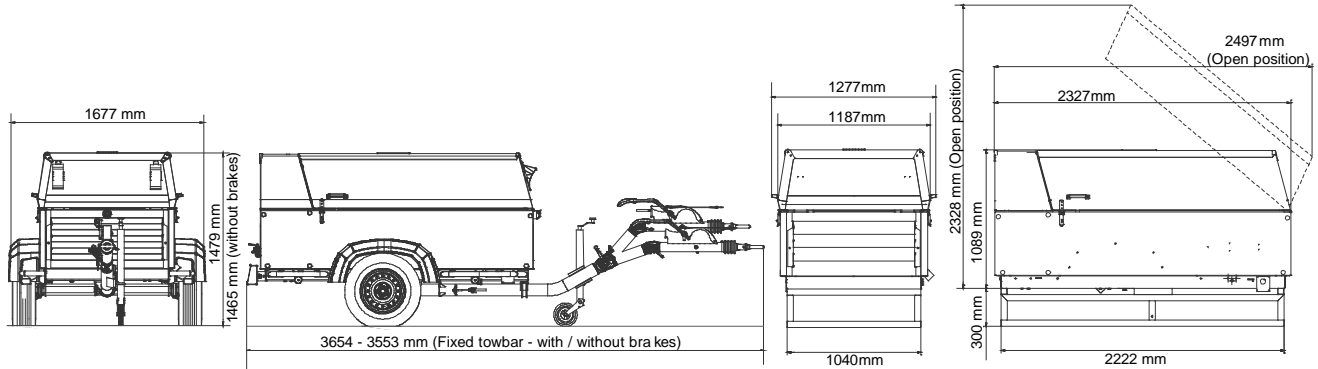
¹ according to ISO 1217 ed.3 1996 annex D

² according to 2000/14/EC, 84/533/EEC and 85/406/EEC limits

XA(H)S 107-137 Dd(G) – Product Reference

		XAHS 107 Dd C3	XAS 137 DdG C3	XAS 137 Dd C3
Generator			230V-400V - 50Hz	
Electric Power	1 phase	kW/kVA	-	9.6/0
	3 phase	kW/kVA	-	9.6/12
Sockets	1 phase	A	-	1x16
	3 phase	A	-	2x16

Dimensions



Weight (Ready-to-operate)

		XAHS 107 Dd	XAHS 137 Dd	XAS 137 Dd(G)
Box version	kg	1190	1190	1190
fixed tow bar – brakes	kg	1450	1450	1450
fixed tow bar - no brakes	kg	1350	1350	1350

Options

Vessel type

- EC
- ASME
- MOM

Tow bar

- Adjustable with brakes
- Fixed with brakes
- Fixed without brakes

Towing eyes

- Atlas Copco
- DIN
- Ball coupling
- Italian
- NATO
- AC (France)

Tow bar support

- Leg
- Jockey wheel

Road system

- Full road lights system (EU homologation)
- 24V-12V adapter for road lights
- Wheel chocks

Refinery equipment

- Spark arrestor
- Inlet shut down valve

Generator

- 12 kVA - 230/400 V - 50 Hz (XAS 137 DdG)

Air Quality Treatment

- Lubricator
Built-in tool lubricator for 7 bar units. Suitable for use with after-cooler, fine filters and reheater.
- Built-in after-cooler
Complete with moisture separation; the after-cooler reduces the compressed air temperature to ambient +7°C.
- Built-in filtration pack
In combination with the after-cooler, the filtration pack reduces the oil carry-over to 0.003 ppm (depending on type selection).
- Reheater pack
In combination with the after-cooler, the reheater produces dry warm air.

Air quality equipment can be combined as follows:

- After-cooler + water separator
- After-cooler + water separator + fine filter
- After-cooler + water separator + reheater
- After-cooler + water separator + fine filter + reheater

Customer colour

- Single
- Double

Others

- Inlet filter safety cartridge
- Cold start (-20°C)
- Tool box

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

Air and oil separation is achieved through a centrifugal oil separator combined with a filter element. Oil separator vessels are available in CE, ASME and MOM approved versions stamped accordingly. Designed for a higher maximum working pressure, the separator is equipped with a sealed high pressure safety relief valve, minimum pressure nozzle, automatic blow-down valve, and pressure regulator.

The compressor is delivered as standard with mineral based compressor oil.

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 all canopy doors closed.

The compressor is delivered as standard with radiator coolant PARCOOL.

Compressor Regulating System

The compressor regulating system consists of air filter, air receiver/oil separator, compressor element, 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 3 x 3/4" outlet valves.

Engine

Deutz TD2011L04

COM III / Tier 3 compliant four-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

Engine output at rated speed is 52kW 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 130 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(H)S 107-137 Dd(G)** is equipped with a 12 Volt negative ground electrical starting system.

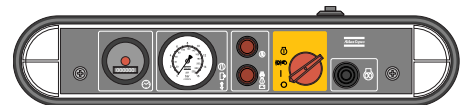
Instrumentation

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
- Outlet temperature of the compressed air go outside a specified range
- Low fuel level

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 zinc coated steel canopy with powder coat paint finish providing excellent corrosion protection. The canopy is available in either un-silenced or fully sound attenuated versions meeting the most current legal noise requirements. The hood concept door provides complete service access to all components.

The standard colour combination is Atlas Copco Yellow and RAL 7015 grey, however, other colour combinations are also available on demand.

Undercarriage

The **XA(H)S 107-137 Dd(G)** compressor is available with numerous undercarriage alternatives, providing utmost flexibility in installation or towing requirements.

- Support mounted
- 2-wheel style fixed height undercarriage with or without brakes
- 2-wheel style adjustable height undercarriage 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(H)S 107-137 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(H)S 107-137 Dd(G)** comply to the latest noise emission directives, and the installed engine meets COM III / Tier 3 exhaust directive.



Supplied Documentation

The unit is delivered with certificates regarding:

- Test certificate for air delivery pressure and capacity , acc. ISO 1217
- Certificate for air/oil separator vessel and safety valve approval (CE/ASME)
- Declaration of conformity (for CE variants only)
- Operating and instruction manual
- Spare parts manual

Warranty Coverage

Three (3) years / 2,000 hours of operation, warranty on all components, except belts, gaskets, hoses, fuses, filters, fluids, tyres, brakes and batteries. In the third year except startermotor and alternator of engine.

For further information on warranty conditions we refer to the document with the publication nr. 2915 7013 xx.

Extended Warranty Programs are available.