Product Reference

XA(M,H)S 237-287 Dd

Portable compressor

Standard Scope of Supply

The Atlas Copco **XA(M,H)S 237-287 Dd** is a single-stage oil-injected asymmetrical rotary screw type air compressor, powered by a liquid-cooled, six cylinder turbo-charged, inter-cooled Deutz COM III/Tier 3 compliant diesel engine.

The unit consists of one high efficient compressor element, diesel engine, cooling, air/oil separation and control systems - all enclosed within a sound dampened strong steel 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

XAMS 287 Dd	single stage -8.6 bar - Com3 compliant Deutz engine
XAHS 237 Dd	single stage -12 bar – Com3 compliant Deutz engine

Features

- Low noise and exhaust emissions.
- Practical design with easy service and maintenance access.
- Few moving parts.
- Engine speed adapts to air demand

Benefits

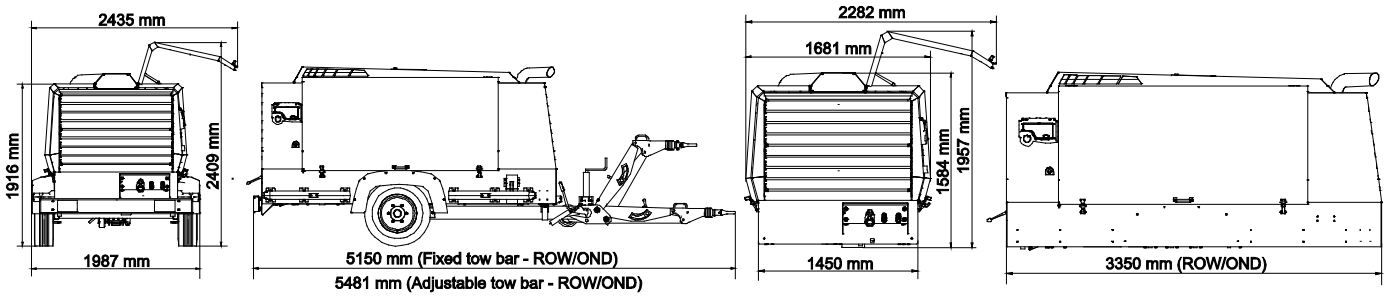
- Our compressors satisfy international standards and can operate in the vicinity of hospitals, schools, and residential areas, even at night.
- Short service downtime
- Economical power and fuel consumption.
- Stable air flow.

Technical Data

Compressor - EC		XAHS 237 Dd	XAMS 287 Dd
Normal effective working pressure	bar	12	8.6
Actual free air delivery[1]	l/s	231	283
Max. sound power level (Lw)[2]	dB(A)	99	99
Max. sound pressure level at 7 m (Lp)	dB(A)	71	71
Oil Capacity	l	45	45
Max. ambient temperature	°C	50	50
Air Compressor outlets		3 x 3/4"	3 x 3/4"
Maximum altitude	ft	2500	2500
Minimum starting temperature	°C	-10	-10
Engine			
Deutz		TCD 2012 L06 2V	TCD 2012 L06 2V
Number of cylinders		6	6
Output at rated speed	kW	128	128
Swept volume	l	6.06	6.06
Engine speed (nominal)	r/min	2000	2000
Engine speed (unloaded)	r/min	1300	1300
Capacity oil system	l	13	13
Capacity of fuel tank	l	250	250
Fuel consumption at 0% load	kg/h	12.7	12.7
Fuel consumption at 25% load	kg/h	14.2	14.2
Fuel consumption at 50% load	kg/h	15.2	15.2
Fuel consumption at 75% load	kg/h	20.6	20.6
Fuel consumption at 100% load	kg/h	27.9	27.9

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

Dimensions



Weight (Ready-to-operate)

		XAHS 237 Dd	XAMS 287 Dd
Box version (OND / ROW)	kg	2800	2800
fixed tow bar & adjustable tow bar – (OND / ROW)	kg	3150	3150

Options

Vessel type

- EC
- ASME
- MOM

Undercarriages

- Without undercarriage
- Fixed tow bar with brakes
- Adjustable tow bar with brakes
- Support mounted
- Skid mounted

Towing eyes

- NATO
- DIN
- Italian
- Ball coupling

Road equipment

- Wheel chocks
- Road signalization

Special applications

- Spark arrestor
- Inlet shut down valve
- Full refinery equipment

Air treatment

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

Others

- Cold start (-25°C)
- COSMOS™
- FuelXpert™
- Customer colours

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 aluminium oil cooler, intercooler and radiator with axial fan to ensure optimum cooling. The cooling system is suitably designed for continuous operation in ambient conditions up to +45°C for European Outdoor Noise Directive (OND) compliant units, and +50°C for non-OND compliant units. Units should be operated with all doors closed to ensure optimal cooling performance.

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 1 x 2" outlet valve or 2 x ¾" outlet valves.

Engine

Deutz TCD 2012 L06 2V

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

Engine output at rated speed, in accordance to SAE standard is 129kW at 2000 rpm.

The engine has the capability to start the compressor to -10°C without the addition of a cold start aid. Cold start options are available for up to -25°C.

The **XA(M,H)S 237-287 Dd** is standard equipped with a steel fuel tank sufficiently sized to operate the unit for minimum of running 8 hours.

The fuel system includes a 10 micron pre-filter, a 3 micron high efficiency filter, and a RACOR fuel filter & water separator.

Electrical System

The **XA(M,H)S 237-287 Dd** is equipped with a 24 Volt negative ground electrical starting system.

Instrumentation

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

Standard instrument package includes a multi-functional control / scroll pad, operating pressure gauge, and LCD operations & diagnostic display providing access to all machine performance data.

Starting is achieved with a rotary power switch and push button starter 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 zincor coated steel canopy with powder coat paint finish providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements. Wide doors provide complete service access to all components.

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

Undercarriage

The **XA(M,H)S 237-287 Dd** compressor is available with numerous undercarriage alternatives, providing utmost flexibility in installation or towing requirements.

- Support mounted
- Skid mounted
- 2-wheel fixed height towing bar undercarriage with overrun brakes
- 2-wheel adjustable height towing bar undercarriage with overrun brakes

Manufacturing & Environmental Standards

The **XA(M,H)S 237-287 Dd** 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(M,H)S 237-287 Dd** 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
- 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

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