Atlas Copco Air compressors

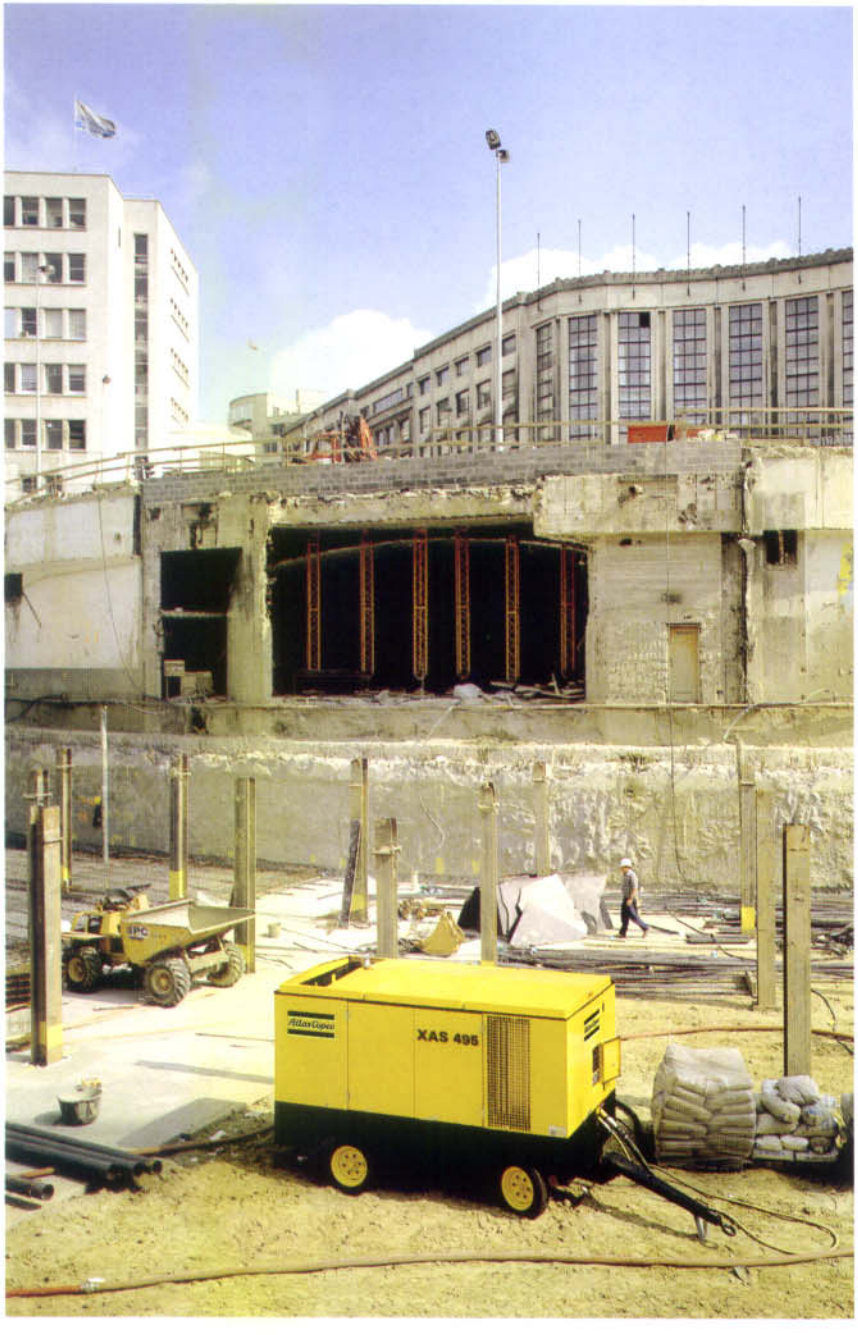
XAS, XAMS, XAHS Md

15-30 m³/min, 550-1050 cu.ft/min - 7 to 12 bar(e), 100 to 175 psig

Atlas Copco

X Md heavy-duty screw compressors: reliability designed for the 2000s

Atlas Copco are the pioneers of the rotary screw principle. Since the introduction in 1958 of the PR600, the first portable oil injected screw compressor ever introduced to the world market, we have constantly aimed for more efficient and longer lasting machines. During all these years we listened to operators and engineers in the mining, quarrying and construction industries and constantly adapted and improved our products following their advice and comments.

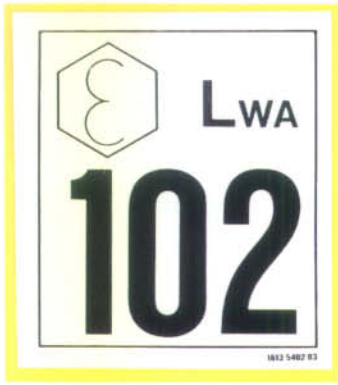


The XAS, XAMS and XAHS Md compressors are today the amalgamation of decades of dialogue and expertise.
They are the first types of a new series of portable air compressors that will dominate the scene for the years to come, and set the pace for the 2000s: a newly developped, even more efficient screw compressor element in combination with a proven engine from a renown manufacturer.

These state-of-the-art machines have been designed for utmost reliability in tough environments such as crowded construction sites where they are used for breaking, paving, drilling, road building and bridge works.
Or they can be used as standby machines for industrial applications. They also match the requirements of sandblasters and quarries.
Whether the units are continuously operating at full load on sealevel or up to 4000 m altitude, in temperatures of -10°C or +50°C, they give substance to the word "reliability".

The range is built in a brand new factory, with fine-tuned techniques for production, assembly and protection in a cataphoretic painting process.

For anybody who is looking for reliable operation in the most difficult terrains and climates, high performance and economy, the XAS/XAMS/XAHS Md is the only logical choice.

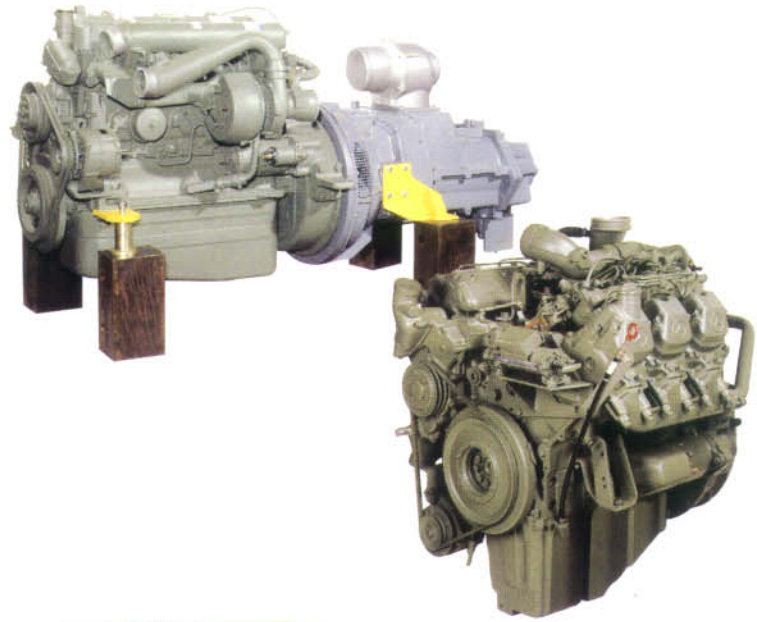


The answer to an environmental problem

XAS/XAMS/XAHS Md compressors meet the stringent regulations which reflect today's widespread environmental concern. Each machine of the range can be operated without problems near hospitals, offices, schools, in a word near any noise-conscious area as they are silenced down to 102 dB(A), according to EEC 84/533 and 85/406. For health protection no asbestos is used for any component part of the units.

A reliable combination second-to-none

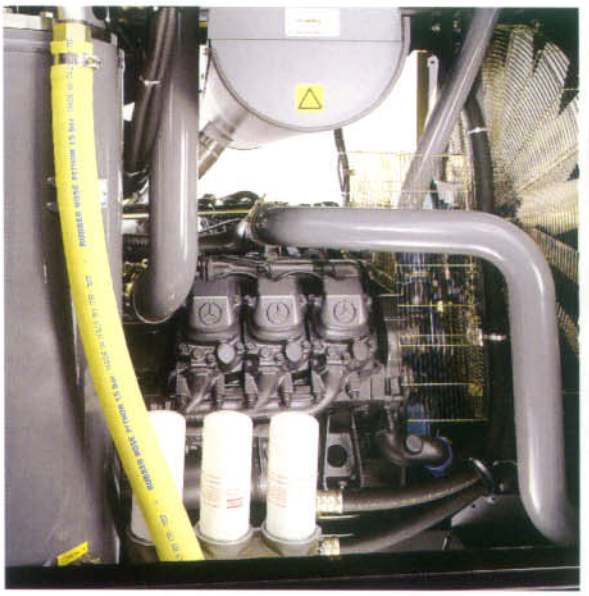
As the supplier of one out of every three portable compressors in the world Atlas Copco has a reputation to keep up. Consequently our engine manufacturers must have the same fame and after-sales service as our own. Mercedes-Benz, rigorously tested for reliability and long lifetime fulfills these requirements and complies with the EPA 1998 and Euro Stage 1 (NRMM) exhaust-gas emission regulations.



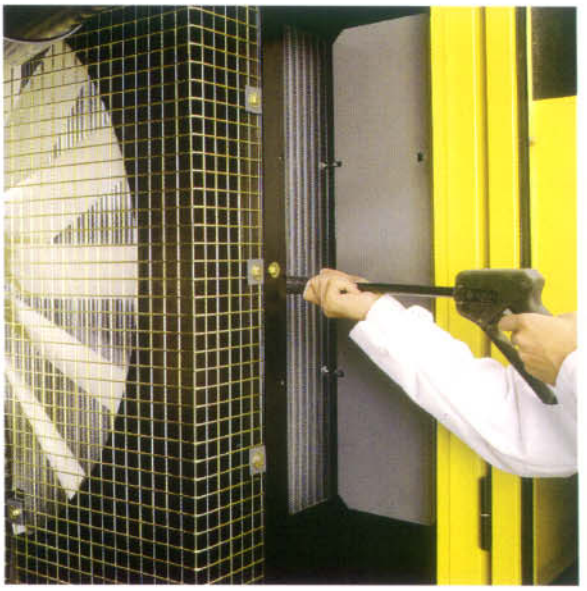
The XAS/XAMS/XAHS Md machines are light and compact, yet amply sized for easy maintenance and service. The steel canopy is cataphoretic painted to give long-term protection, making for a higher resale value.

Good design makes running and maintenance easier and more economical

Ease of maintenance saves time
Oil and fuel filters are at hand level and can easily be reached for maintenance and are grouped on one side of the compressor. Each unit is delivered with the first Service Pak for 30/50 running hours.The battery (24 V) is conveniently protected by a rigid plate and very accessible.
The protection plate is used as a step to reach the lifting eye. Oil filter separation is so good (3 ppm) that refilling is minimised, thus avoiding mixing of different oil brands.

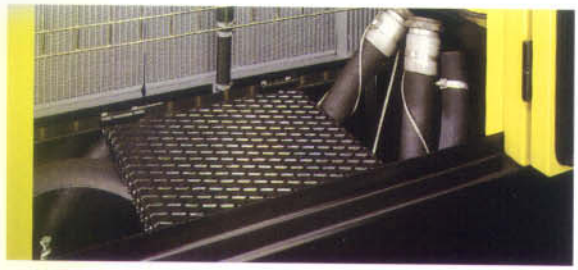


Amply sized cooler for better performance
Maintenance is kept simple: doors on both sides of the cooler housing allow for cleaning by high-pressure water- or airjet.



Another time saver
The V-belt can be tensioned in a very simple and correct way.

Warning
Clearly visible from a distance a flash light warns the operator to top up the fuel tank when the fuel level becomes low or filters get clogged.



Extra stowing space
Flexibles, steels and other accessories can be locked away in the box behind the cooler. A sturdy step brings the radiator expansion tank within easy reach.

The capacity and pressure you specified
That is what you get at the outlet valve(s) of an Atlas Copco compressor. (High pressure units >10 bar are delivered with a safety harness for the flexible hose).

Effortless fuel topping up and air filter maintenance
The position of the big diameter fuel cap makes quick filling of the fuel tank possible. The tank allows for full shift operation at full load conditions. The double-stage air intake filters with safety cartridge are at eye level for uncomplicated service.

Exemplary manoeuvrability
The low weight of the units and sturdy towbar (raisable), front axle and stable suspension allow for a very small turning radius (4.3 m), which almost equals the one of an unstable turntable front axle, and results in smooth manoeuvring on all terrains.

Easy monitoring of all controls
Controls are grouped on a single panel near the air outlet valves and are protected by a lockable metal door.
The pressure of the delivered air can instantly be adjusted with the regulating valve.
In case of emergency the unit can be stopped by means of a push button with the control panel door closed.

Safety switches automatically stop the engine in case of too low fuel level and prevent damage resulting from
- too high air/oil temperature in the compressor element
- too high engine water temperature
- too low engine oil pressure

Separate switches prevent starting too frequently or under load conditions.
The standard fault memory module allows for easy diagnosis in case of malfunction.

A parkingbrake is available as standard on all machines.

Technical data

Compressor

Type		XAS 405	XAS 495	XAMS 295	XAMS 355	XAMS 445	XAHS 285	XAHS 365
Normal effective working pressure	bar(e)	7	7	8.6	8.6	8.6	12	12
	psig	102	102	125	125	125	175	175
Actual free air delivery* guaranteed acc.	m3/min	23.6	28.8	17.5	21	26.1	17.0	21.5
to ISO 1217 ed.3 1996 annex D	cu.ft/min	832	1017	618	740	922	600	760
Cooling system		oil	oil	oil	oil	oil	oil	oil
Capacity of compressor oil system	l	66	66	66	66	66	66	66
	US gal	17.4	17.4	17.4	17.4	17.4	17.4	17.4
Number of compression stages		1	1	1	1	1	1	1

Engine

Make and type		turbocharged aftercooled Mercedes Benz						
		OM 366 LA	OM 441 LA	OM 366 LA	OM 366 LA	OM 441 LA	OM 366 LA	OM 441 LA
Coolant		liquid	liquid	liquid	liquid	liquid	liquid	liquid
Number of cylinders		6	6	6	6	6	6	6
Output acc. DIN 6271 at normal shaft speed	kW	167	206	167	167	206	167	206
Bore	mm	97.5	128	97.5	97.5	128	97.5	128
	inch	3.84	5.04	3.84	3.84	5.04	3.84	5.04
Stroke	mm	133	142	133	133	142	133	142
	inch	5.24	5.59	5.24	5.24	5.59	5.24	5.59
Swept volume	l	5.958	10.96	5.958	5.958	10.96	5.958	10.96
Speed, normal and max.	r/min	2400	1600	2400	2400	1600	2400	1600
Speed, compressor unloaded	r/min	1500	1000	1500	1500	1000	1500	1000
Capacity oil system	l	18	15	18	18	15	18	15
	US gal	4.76	3.96	4.76	4.76	3.96	4.76	3.96
Capacity cooling system	l	45	54	45	45	54	45	54
	US gal	11.9	14.27	11.9	11.9	14.27	11.9	14.27

Unit

Capacity of receiver	l	147	192	147	147	192	147	192
	cu.ft	5.19	6.78	5.19	5.19	6.78	5.19	6.78
Capacity of fuel tanks	l	320	334	320	320	334	320	334
	US gal	84.5	88.2	84.5	84.5	88.2	84.5	88.2
Sound power level acc. to 84/533 and 85/406 EEC limits	dB(A)	102	102	102	102	102	102	102
Sound pressure level acc. to ISO 2151	dB(A)	74	74	74	74	74	74	74
Overall length (towbar raised)	mm	4210	4210	4210	4210	4210	4210	4210
	inch	166	166	166	166	166	166	166
Overal width	mm	1810	1810	1810	1810	1810	1810	1810
	inch	71	71	71	71	71	71	71
Overall height	mm	2369	2369	2369	2369	2369	2369	2369
	inch	93.3	93.3	93.3	93.3	93.3	93.3	93.3
Net mass (dry/wet) standard unit	kg	3500/3860	3800/4300	3500/3860	3500/3860	3800/4300	3500/3860	3800/4300
	lb	7718/8507	8379/9482	7718/8507	7718/8507	8379/9482	7718/8507	8379/9482
Air outlet valves		1x2"+1x1"	1x2"+1x1"	1x2"+1x1"	1x2"+1x1"	1x2"+1x1"	1x2"+1x1"	1x2"+1x1"

Max. standard working conditions:

- ambient temperature: -10 to +50°C
- altitude: up to 4000 m

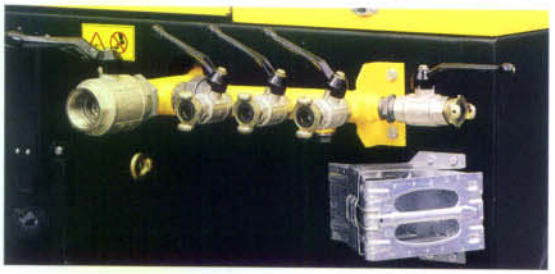
* at full load, max. speed and normal working pressure at following inlet conditions:

- abs. inlet air pressure = 1 bar (1.02 kg/cm², 14.5 psi)
- inlet air temp. = 20°C (68°F)

Select the options that best suit your needs

A. Road signalisation

B. Air outlet manifold with 4x1" valves for multiple flexible hoses (max. 10 bar)

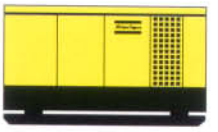


C. DIN towing eye

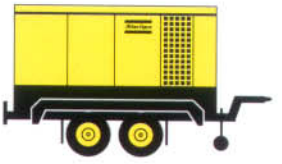
Genuine parts from Atlas Copco and Mercedes Benz: Service Pak.

D. Towbar with leveling device

Wagon undercarriage*:
With optional pneumatic brakes for high speed towing on main roads and options A to D.



Skid-mounted:
when machines are used for a considerable length of time on the same worksite.



Tandem undercarriage*:
with adjustable towbar and pneumatic brakes, for high speed towing on main roads and options A to C.

Without undercarriage:
for truck mounting.

* Pneumatic brakes in conformity with EEC 71/320.

- Aftercooler, watertrap, fine filters and reheater for surface treatment
- Cold start system for ambiant temperature below -10°C
- Safety equipment: spark arrester and automatic engine overspeed shut down system
- Painted according to customer colour

Why you can trust compressors and equipment from Atlas Copco

It takes more than the right specifications and the right price to ensure that you'll always have reliable, trouble-free compressed air. The X Md series is backed by one of the largest companies in the world specializing in compressed air equipment.

Atlas Copco has autonomous sales companies and agencies in over 120 countries.

Advanced design, exhaustive testing, top grade materials, modern plant, strict quality control (ISO 9001) and a trained and committed workforce ensure that products meet the highest quality standards . After-sales service is never more than a phone call away.

Your local Atlas Copco representative is ready to advise you on your own special requirement and to give you full information about the comprehensive range of Atlas Copco compressed air products.

Atlas Copco

Never use compressed air as breathing air without prior purification in accordance with local legislation and standards.

Visit our website: www.atlascopco.com

2935 0564 32 - Subject to alteration without notice. Printed in Belgium.