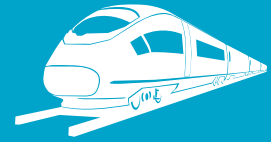


ATLAS COPCO RAILWAY AIR SYSTEMS



Oil-injected Screw Compressor
GAR 11-37

Sustainable Productivity

Atlas Copco

i *Compact and tough*

The space-saving GAR 11-37 oil-injected screw compressor was designed, built and tested to meet the toughest ambient conditions, such as extreme climate conditions, high humidity, shocks and vibrations. Available from 1100 to 4500 l/min free air delivery.



FEATURES AND BENEFITS

Space-saving design

- Air dryer, filters and control integrated in a very compact compressor package.
- Integrated fan concept.
- Minimum footprint.

Enduring performance

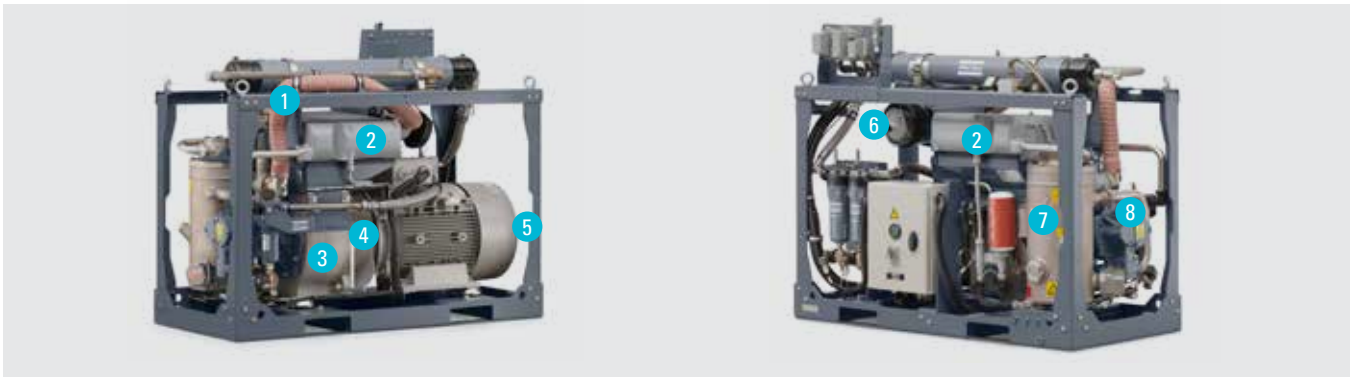
- The compressor is designed, built and tested to meet the toughest conditions in railway applications (extreme climatic conditions, high humidity, and shocks and vibrations).
- Built in accordance with international railway standards.

Reliability and durability

- Minimum amount of moving parts.
- Use of corrosive resistant materials like stainless steel and aluminum.
- Long service intervals.
- Gear driven.

Flexible and easy installation

- Plug and play system.
- Easy to adapt cooling flow directions.
- Mainly used inside a railway vehicle.



- 1 The Full Feature version includes integrated filters and a membrane dryer that removes oil and water vapor from the compressed air to protect your air piping network and braking system from freezing and corrosion.
- 2 Optimally sized, high efficiency aluminum cooler provides ideal compressor running temperature under all conditions.

- 3 High precision gears manufactured according to DIN 3961/class 6. Gears are oil-lubricated and temperature-controlled by the compressor oil.
- 4 Integrated cooling fan to optimize the air flow, which ensures that the right amount of cooling air is delivered efficiently to where it is needed with a minimum of noise.
- 5 High efficiency, totally enclosed fan-cooled (TEFC), IP 55, class F electric railway motor for continuous trouble-free operation with greased-for-life bearings.

- 6 Heavy duty air intake filter for efficient operation in dusty environments.
- 7 Multi-stage, highly corrosion resistant oil separator, with a low (3 ppm) oil carry-over, reduces contamination and maintenance requirements.
- 8 Atlas Copco's patented screw compression element for optimal energy efficiency and outstanding reliability.

OPTIONS

- **Different drives** The compressor can be equipped with different drives, like an AC motor, DC motor and hydraulic drive.
- **Control voltage connector** To easily connect the control voltage lines.
- **Motor voltage connector** To easily connect the power voltage lines.
- **Condensate treatment** To treat the condensate from the filtration line.
- **Different approvals** CE, ASME, SQL.
- **Load/unload valve** To be able to control the compressor in different applications.
- **Control pressure switch** To regulate the compressor according to air demand by measuring the pressure in the system.
- **Alarm pressure switch** To indicate that the compressor is still under pressure and to prevent the compressor from restarting too soon against a too high back-pressure in case of power supply interruption.
- **Anti-rotation switch** To signal the compressor is running and to prevent the compressor from running in the opposite direction due to a phase switch of the electro motor dP-switch.
- **dP-switch inlet filter** For remote warning in case the inlet filter is clogged.
- **Heating kit** To be able to run the compressor in ambient temperatures between -40 °C (-40 °F) and -25 °C (-13 °F).
- **Motor starter** Y/D or DOL.
- **Customized frame** To easily integrate the complete package into the available space envelope in, under or on top of the railway vehicle.

TECHNICAL SPECIFICATIONS

Compressor type	Capacity*			Installed motor power		Pressure**		Sound pressure level dB(A)	Weight	
	l/s	l/min	cfm	kW	hp	bar(e)	psig		kg	lbs
50 Hz version										
GAR 11	20.0	1200	42	11	15	10	145	70	309	681
GAR 15	29.0	1740	61	15	20	10	145	71	333	734
GAR 18	35.0	2100	74	18.5	25	10	145	72	333	734
GAR 22	45.0	2700	95	22	30	10	145	76	333	734
GAR 30	60.0	3600	127	30	40	10	145	77	381	840
GAR 37	75.0	4500	159	37	50	10	145	78	392	862
60 Hz version										
GAR 11	19.0	1140	40	11	15	10	145	72	309	681
GAR 15	27.5	1650	58	15	20	10	145	73	333	734
GAR 18	39.5	2370	84	18.5	25	10	145	74	333	734
GAR 22	45.0	2700	95	22	30	10	145	79	333	734
GAR 30	57.5	3450	122	30	40	10	145	80	381	840
GAR 37	75.5	4530	160	37	50	10	145	81	392	862

Reference conditions:

Absolute inlet pressure: 1 bar (14.5 psi)

Intake air temperature: 20 °C (68 °F)

Effective working pressure: 9.5 bar (138 psi)

Mean noise level measured according to ISO 2151/Pneurop/Cagi PN8NTC2 at 4.6 meter free field

* Unit performance measured at a standard unit (before dryer) according to ISO 1217, Annex C, latest edition

** Outlet pressures possible between 6 and 13 bar

