Atlas Copco TwinAir™ Compressor

Revolutionary performance, compact and safe

XAH 1066
XRV 946

جهان کمپرسور
Jahan Compressor

Atlas Copco

TwinAir™

- ☐ the highest volume of compressed air per square meter.
- ☐ the most robust, versatile and safety enhanced air supply unit on the market.

High demand

As the world economy grows, so does its demand for natural resources. Oil & gas exploration continues in all corners of the globe, while the mining of natural minerals and ores are at full capacity. To get to the bottom of these wells and keep the supply pipelines maintained, the industry is turning to higher and higher capacity compressors.

Atlas Copco has been in the compressor business for over 100 years, so knows about working under pressure. Since the beginning of the last century our company required its own source of compressed air for its pneumatic tools. Our company has been innovating and listening to its customers on how to increase their productivity ever since.

TwinAir™ is a revolution in higher productivity. It has been developed to provide the highest output and airflow for its small footprint. Built robustly with the very highest quality parts and standards, everything has been designed to withstand years of heavy-duty use.
Different versions exist including a specially adapted DNV approved model for offshore requirements.

High specifications

Outstanding cooling performance: the proven optimal cooler configuration, larger air intake and low airflow restriction are designed to optimize the cooling behavior of the TwinAir.

The impregnated air filters function as a fine filter to protect the engine and the heart of the compressor, our air-end.

Dedicated design
The TwinAir™ is designed with dedicated material selections, high specification coatings and proven Atlas Copco components.

Oiltronix™ [optional]
The electronic controlled oil temperature system extends the lifetime of air-ends, compressor components, oil and the oil-separator. This is achieved by eliminating the formation of condensate in the compressed air circuit.

FuelXpert™ [optional]
FuelXpert™, with its electronic control module, regulates engine speed and air inlet with a view to optimizing fuel consumption for each working condition. Importantly when the air demand is lower than the output, the system ensures the right capacity for the application.

Ease of operations
A standard 20 ft ISO – CSC – DNV lifting compliant container has been built for safe handling onshore and offshore, in transport and during installation.

Assembly
Where possible all fixtures make use of materials such as stainless steel and special anti-corrosion inhibitors.

Seals
All doors have high specification seals with bottom drainage points.

Output flexibility
Each compressor within the container can operate independently for flexibility of operations.

Intelligent air inlet system [optional]
A high-quality coalescer with acoustic louvered slats act as a pre-filter and protects the inside of the compressor from water, salt and sand particles.

A maximum free **air delivery of 1058 l/s**, makes TwinAir™ the compressor with the highest airflow per square foot.

Pressure vessels certified to ASME / CE standards.

Controls including external fuel connections and emergency stop buttons **readily accessible.**

DNV certification for offshore working environment, on the specially modified machines.

CSC certification makes it easily and legally transportable as container cargo.

Oiltronix™ guarantees that there is virtually no water in the compressed air system, and therefore ensuring a longer air-end life.

Spark arrester prevents hot particles leaving the exhaust pipes in sensitive environments.

Ergonomically designed **built-in ladder system** to access the roof for service. This is to be used in-line with standard safety practices.

Two CAT C13 engines. 328 kW each for a combined total of 656 kW output. The pressure options range from 12 bar to 25 bar.

Large service access doors, easy to service and clean internal components.

Door latches with locks and door safe-hooks for better security and to avoid inadvertent closure.

Air outlets on the two short sides of the container.

Standard 20-foot container with forklift slots and lifting eyes makes it easy to move around, and can be stored to 3 high (standard unit) and to 8 high (offshore unit).

Access controls for each engine are separate. Opt to run at half the maximum flow if desired.

COSMOS™, our innovative Comprehensive Service and Maintenance System, guarantees that you know where your machine is, and when it should be serviced.

Pressure regulators positioned for easy access for adjusting.

Storage space for parts and small tool equipment.

Coatings: high specification paint finishes for corrosion protection.

Double ceiling roof for separation of cold intake and hot oulet air.

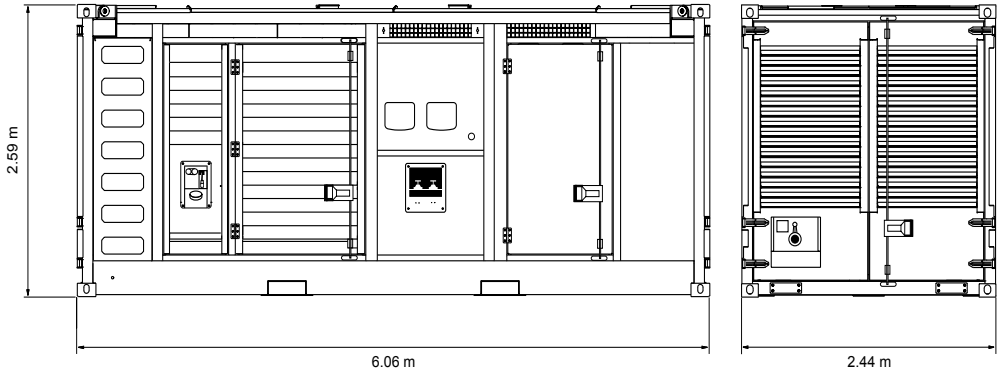
FuelXpert™ guarantees best in class fuel efficiency.

Maintenance service kits give all the necessary parts for servicing in one convenient kit.

Centralized service drains for fast and easy drainage at service intervals.

Spillage free skid frame to protect the environment from inadvertent spills.

Overspeed protection / Intake shutdown prevents engine overrun.



Type		XAH 1066	XRV 946
Normal effective working pressure	bar	12	25
Total actual free air delivery*	l/s	1,058	936
Content fuel tanks	l	1,800	1,800
Air outlet valve (2 no.)	mm	76	76
Engine			
Caterpillar (2 no.)		C13 ACERT	C13 ACERT
Output (each)	kW	328	328
Nominal speed	rpm	1,600	1,600
Unload speed	rpm	1,200	1,200
Weight (wet)	kg	14,500	15,000

*according to ISO1217 ed.3 1996 annex D

TwinAir™	Standard	Offshore
12 bar (1,058 l/s) or 25 bar (936 l/s)	■	■
Yellow and Grey Colour	■	
Red and Grey Colour (6 layer)		■
Special Colour	■	■
CSC Approval	■	■
DNV Approval		■
FuelXpert™	■	■
Oiltronix™	■	■
Spark Arrestor	■	■
Inlet Shutdown Valve	■	■
COSMOS™	■	■

TwinAir™	Standard	Offshore
Aftercooler with Waterseparator	■	■
Pre-heater	■	■
Cold Start	■	■
Sump pump with quick connects	■	■
Yellow Alert		■
Stainless Steel Fuel Lines		■
Battery Box		■
External Fuel Cut-off Valves		■
Rubber Boots on Electrics		■
T-Clamps on hose connections		■

■ Included ■ Optional

Offshore version additional features

- Corrugated roof, for antislip protection and structural rigidity
- Double locks on short sides, DNV requirement
- Extended integrated ladder system
- Galvanished bottom plate with rockwool infill for enhanced sound attenuation
- Slings: each offshore container is provided with lifting eye slings rated to 70,000 kgs
- DNV stamp: a DNV data-plate with certification number is affixed on offshore units

2935 0698 32 - Subject to alteration without notice.Printed in Belgium. Copyright 2007, Atlas Copco Airpower n.v. Wilrijk, Belgium.

Atlas Copco

www.atlascopco.com