



Standard Scope of Supply

X-Air⁺ 750-25 is part of our premium DrillAir range, lowering the total cost of ownership of the product for our customers by bringing improved productivity & optimized fuel efficiency. The compressor is fully connected, coming standard with our FleetLink functionality.

The unit is equipped with an Atlas Copco patented, in-house developed screw element, a new 6.7 liter Cummins engine, XC2003 controller and AirXpert regulating system as standard, for maximum versatility & efficiency.

Reliability of a compressor is paramount and serves as the base of all the premium functions. X-Air⁺ 750-25 is optimally designed and comprehensively tested to guarantee reliability and peace of mind.

Features

- Atlas Copco in house screw element
- AirXpert 2.0
- ECO mode
- New concept vessel
- Service interval
- FleetLink

Benefits

- The screw element is the heart of compressor, it is essential for compressor efficiency and reliability. Atlas Copco in house element offer the best performance.
- The AirXpert 2.0 regulation system increases reliability. This patented compressor management system brings some unique features like flowboost, for faster flushing & stem refill.
- Fuel consumption is a significant investment during operation. ECO mode reduces the fuel consumption in unloading state.
- The new vessel design comes without any components at the vessel top. This makes the vessel maintenance easier, faster, while minimizing the possibility of damage during maintenance.
- Long service interval helps to reduce the maintenance frequency, cost, and increase the up time of compressor.
- FleetLink is an intelligent telematics system designed to remotely monitor and manage your fleet, whether it's just one unit or an entire group. Everything you need to know and do is at your fingertips 24/7, including the system's smart recommendations and tools for proactive fleet management.

Technical Data

Model	Unit	X-Air ⁺ 750-25
Reference conditions		
Absolute inlet pressure	bar	1
Relative air humidity	%	0
Air inlet temperature	°C	20
Normal effective receiver pressure	bar	25

Limitations		
Minimum effective receiver pressure	bar	13.6
Maximum effective receiver pressure	bar	27
Maximum ambient temperature at sea level (without aftercooler)	°C	50
Minimum starting temperature (without cold start equipment)	°C	-10
Minimum starting temperature with cold start equipment	°C	-25
Altitude capability	m	See curve

Performance data			
Engine shaft speed ¹⁾ , compressor 100% loaded		r/min	1890
Engine shaft speed, compressor unloaded		r/min	1100
Free air delivery ²⁾			
	at pressure setting 16 bar	m³/min	19.8
		cfm	699.2
	at pressure setting 20 bar	m³/min	19.8
		cfm	699.2
	at pressure setting 25 bar	m³/min	19.2
		cfm	678.0
Fuel consumption			
at 100% FAD (full load)	at pressure setting 16 bar	kg/h	33.9
	at pressure setting 20 bar	kg/h	36.8
	at pressure setting 25 bar	kg/h	41.3
at 75% FAD	at pressure setting 16 bar	kg/h	24.4
	at pressure setting 20 bar	kg/h	26.7
	at pressure setting 25 bar	kg/h	30.9
at 50% FAD	at pressure setting 16 bar	kg/h	17.8
	at pressure setting 20 bar	kg/h	19.9
	at pressure setting 25 bar	kg/h	23.7
at 25% FAD	at pressure setting 16 bar	kg/h	13.2
	at pressure setting 20 bar	kg/h	14.8
	at pressure setting 25 bar	kg/h	17.6
at unload	at pressure setting 16 bar	kg/h	10.8
	at pressure setting 20 bar	kg/h	13.2
	at pressure setting 25 bar	kg/h	16.7
Specific fuel consumption at 100% FAD at pressure setting 25 bar		g/m³	36.3
Maximum typical oil content of compressed air		mg/m³	5
Noise level			
o	Maximum sound pressure level at 10m (Lp @ ISO 2151)	dB(A)	72
o	Maximum sound pressure level at 7m (Lp @ ISO 2151)	dB(A)	75
o	Maximum sound power level (Lw @ 2000/14/EC)	dB(A)	100

Performance data	Unit	X-Air ⁺ 750-25
Number of compression stages		2
Engine		
Make		Cummins
Engine emission		StV
Type		B6.7
Coolant		Parcool EG
Number of cylinders		6
Bore	mm	107
Stroke	mm	124
Swept volume	l	6.7
Engine power at normal shaft speed @ ISO 9249G	kW	231
Capacity of oil sump	l	19
Capacity of cooling system	l	43

Unit		
Net capacity of air receiver	l	159
Capacity of fuel tanks	l	270
Air volume at inlet grating (approx.): ³⁾	m ³ /s	7.4

1) At reference conditions, if applicable, and at normal shaft speed unless otherwise stated

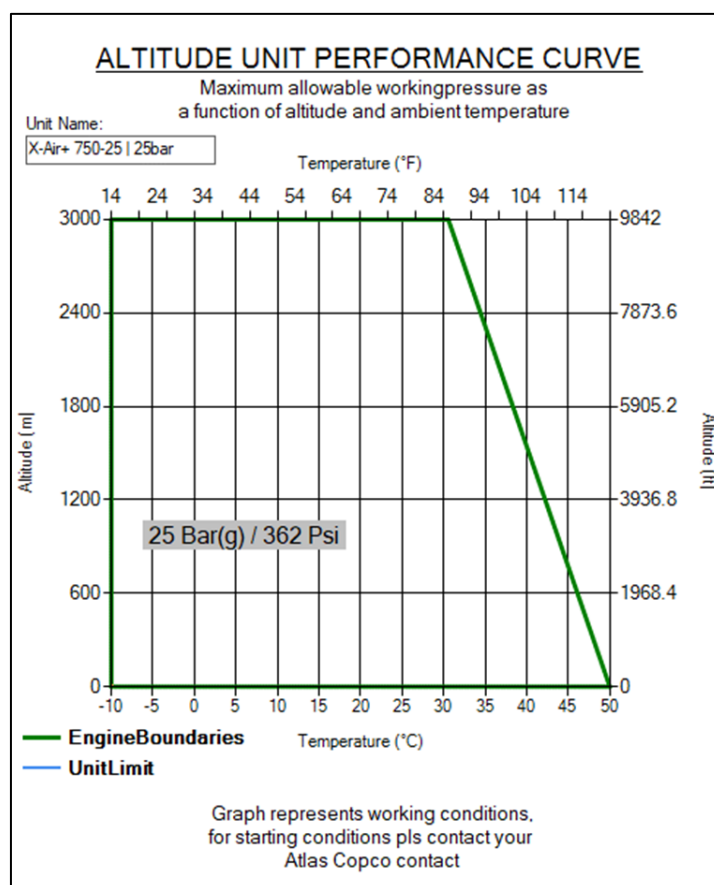
2) Data: Free air delivery, measured according: ISO 1217 ed.3 1996 annex D, Tolerance: +/- 5% 25l/s<FAD<250l/s; +/- 4% 250l/s <FAD

The international standard ISO 1217 corresponds to following national standards:

- British BSI 1571 Part 1
- German DIN 1945 Part 1
- Swedish SS-ISO 1217
- American ANSI PTC9

3) Air required for engine and compressor cooling, combustion and for compression

Altitude Unit Performance Curve



Principle Data

Compressor Element

Atlas Copco has decades of expertise in designing & manufacturing compressor elements. The compressor excels in durability, shorter maintenance intervals & improved fuel efficiency.

The X-Air⁺ 750-25 utilizes an Atlas Copco C142 + J34 element and are driven by the diesel engine. Inlet air is filtered through a heavy-duty, two-stage air filter.

Air/Oil Separator

Air and oil separation is achieved through a centrifugal oil separator combined with a filter element. The vessel is ASME/CE approved and stamped accordingly.

Designed for a higher maximum working pressure, the separator is equipped with a sealed high-pressure safety relief valve, minimum pressure valve, automatic blow-down valve, and pressure regulator.

Cooling System

The cooling system consists of integrated side-by-side aluminum oil cooler with axial fan to ensure optimum cooling. The fan is protected by a guard for operator safety. There is an access port for easy cleaning of coolers.

The cooling system is suitably designed for continuous operation in ambient conditions up to 50°C, with canopy doors closed.

Compressor Regulating System

The compressor is provided with the AirXpert 2.0 regulating system.

The AirXpert 2.0 variable regulating system gives full control of compressor pressure and flow.

It controls vessel pressure and outlet flow by measuring air pressure and air temperature at several points and steering the air inlet valve, engine speed and blow-off valve corresponding the values measured.

Engine

Cummins Diesel Engine

The compressor is driven by a liquid-cooled, six-cylinder Cummins QSB6.7 diesel engines. The engine's power is transmitted to the compressor element through a heavy-duty coupling.

Electrical System

The X-Air⁺ 750-25 is equipped with a two pole 24-volt negative ground electrical system.

Instrumentation - Xc2003

The Xc2003 control panel is located on the side of the compressor canopy.

The intuitive Atlas Copco Xc2003 controller is easy to operate with all functions conveniently at your fingertips. The controller also manages the engine ECU operating system, and several safety warnings and shutdowns on various parameters (listed below).

Xc2003 Controller Functionality:

- Displayed while running
 - Hours
 - Fuel level
 - RPM
 - Outlet pressure
- Operational Buttons
 - Start and stop of the unit
 - View measurements, settings, and alarms
 - Multi position cursor to navigate menus
- Compressor measurements displayed
 - Running hours
 - Fuel level
 - Clock
 - Battery voltage
 - Running hours
 - Regulating pressure
 - Emergency stop count
 - Average fuel consumption
 - Minor and major service counters in hours and days
- Engine measurements displayed
 - Current fuel rate
 - Engine coolant temperature
 - Engine oil pressure
 - Engine RPM

- Warnings and Shutdowns
 - High temperature engine coolant
 - High temperature compressor oil
 - Engine oil pressure
 - Low fuel level
- Alarms
 - View current & historical alarms present
 - History of last 20 alarms and events with time and date stamps
 - DM1 & DM2: View current engine codes (SPN/FMI)
- Settings
 - Reset service timers
 - Diagnostics for engine ECU
 - Language settings
 - Unit of measure changes



Undercarriage

The X-Air⁺ 750-25 is available with an undercarriage alternative, providing utmost flexibility in installation or towing requirements.

Options:

- Support-mounted
- Skid-mounted

Manufacturing & Environmental Standards

The X-Air⁺ 750-25 is manufactured following stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 1401 requirements. Attention has been given to ensure minimum negative impact to the environment.

Safety Devices

The compressor is standard equipped with safety devices for the compressor and the engine. The unit will be completely turned off should:

- Coolant level low shutdown.
- Vessel pressure high.
- Vessel pressure sensor circuit.
- Element temperature high.
- Element temperature sensor circuit.
- Engine protection caused shutdown.

Warranty Coverage

- Please refer to product presentation for warranty info.
- Extended Warranty Programs are available; please contact your local sales representative for more information.

Supplied Documents

The unit is delivered with documentation regarding:

- Hard copies of the Atlas Copco Operators Safety and Instruction Manual and Parts Book as well as electronic copies are available on request. Electronic copies of the Cummins Engine Manual and Parts book are also available on request.
- Warranty registration card for engine and Atlas Copco Compressor (units must be registered upon receipt).
- Certificate for air/oil separator vessel and safety valve approval (upon request only).

* **Note:** Due to continuous improvements in the products, the technical specifications are subject to change without prior notice.