XAS 185-100 & XAS 185-150 PACE (*APP)

Standard Scope of Supply

The Atlas Copco **XAS 185-100 and XAS 185-150 PACE** are single-stage, oil-injected, rotary screw type air compressors powered by a liquid-cooled, 4-cylinder Kubota diesel engine with cold start (-4°F).

The unit incorporate the new generation C67 screw element in its air end, combined with a Kubota diesel engine model V1505-CR-T-E5B, complying with the T4F emission standard.

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.

The optional pioneering PACE functionality coupled with the intuitive Xc2003 controller enables multiple pressure and flow settings ensuring meeting air flow and pressure to the application requirements.

Features	Benefits
• PACE (on selected models)	• The versatility of the Xc2003 controller provides the flexibility to tune the machine to a wider range of applications. This feature makes the compressor very versatile as it can be used for various applications. This increases the utilization and ROI over a standard compressor. The PACE functionality ensures that the air flow matches the desired operating pressure maximizing output without compromising fuel efficiency.
• Designed with environmental protection in mind • Compact, sound attenuated, corrosion resistant enclosure	• The unit features a 110% fluid containment spillage free frame and T4F compliant engine standard making the compressor operational in all areas. For OND compliance the unit is enclosed in a sound attenuated Zincor steel enclosure. Compact and maneuverable, saving valuable space on the job site and during transportation.
• HardHat™ hood and 3-layer painting of metal parts	• High residual value and low repair costs

Main data

Model		XAS 185-100	XAS 185-150 PACE	
		8162010129	8162010130	
Minimum effective receiver pressure	psi(g)	29	29	
Maximum effective receiver pressure (Unloaded)	psi(g)	128	150	
Normal effective working pressure	psi(g)	100	150	100
Actual free air delivery	CFM	174	119	174
Fuel consumption				
at 100% FAD (full load)	gal/hr	2.7	2.7	
at 75% FAD	gal/hr	1.9	1.9	
at 50% FAD	gal/hr	1.3	1.3	
at 25% FAD	gal/hr	1.1	1.1	
Maximum typical oil content of compressed air	ppm	10	10	
Max. sound pressure level (Lp @ ISO 2151)	dB(A)	70	70	
Compressed air temperature at outlet valve	°F	185	185	
Max. ambient temperature at sea level	°F	122	122	
Min. starting temperature with cold start equipment	°F	-4	-4	
Engine		Kubota	Kubota	
Type		V1505-CR-T-E5B	V1505-CR-T-E5B	
Emission stage		T4F	T4F	
Coolant		ParCool Green	ParCool Green	
Number of cylinders		4	4	
Bore	in	3	3	
Stroke	in	3.1	3.1	
Swept volume	gal	0.4	0.4	
Engine power at normal shaft speed @ ISO 9249G	hp	44	44	
Full Load	rpm	3000	3000	
Unload	rpm	1800	1800	
Capacity of oil sump:	gal	1.5	1.5	
Capacity of cooling system	gal	8.5	8.5	
Capacity of compressor oil system	gal	2.2	2.2	
Net capacity of air receiver	gal	3.2	3.2	
Air volume at inlet grating (approx.)	CFM	1970	1970	
Capacity of standard fuel tanks	gal	16	16	
Safety valve - minimum opening pressure	psi(g)	142	210	

Dimensions

See dimension drawing

Principle Data

Compressor Element

Compressor quality is measured through the reliability, efficiency, and durability of the element. Decades of expertise in the design of compressor elements have resulted in the production of the most efficient and reliable compressors in the market. An efficient screw element means increased durability and decreased maintenance intervals and fuel consumption.

The **XAS 185-100 and XAS185-150 PACE** compressors utilize Atlas Copco's C67 element driven by the diesel engine with inlet air filtered through a heavy duty two stage air filter.

Air/Oil Separator

Air and oil separation are achieved through a centrifugal oil separator combined with a filter element.
The vessel is ASME/CRN/MOM/AS1210 approved and stamped.

The separator is equipped with a high pressure sealed and certified safety relief valve (automatic blow-down valve) for a higher maximum working pressure

Cooling System

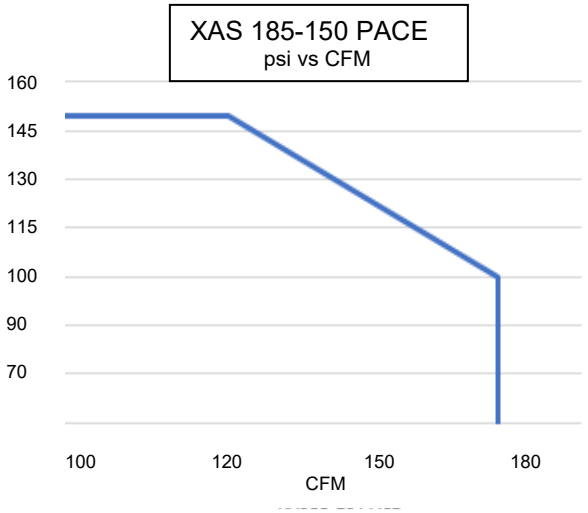
The cooling system consists of integrated side-by-side aluminum coolers with an axial fan to ensure optimum cooling. There is an access port for easy cleaning while the fan is protected by a guard for operator safety.

The cooling system is suitably designed for continuous operation in ambient conditions up to 122°F with canopy doors closed.

Compressor Regulating System / PACE

Introduction of intuitive PACE functionality allows the compressor to operate at any pressure setting between 100 and 150 psi.
The compressor can have 2 pressure presets and we can use the controller to toggle between the pressure presets

Economic power consumption is assured by the fully automatic 100% step-less speed regulator that adapts engine speed to air demand.



Engine

A Kubota V1505-CR-T-E5B common rail turbocharged four-cylinder, liquid-cooled diesel engine provides ample power to operate the compressor continuously at full load.

Cold start for temperatures down to -4°F.

The 16-gal fuel tank is sufficiently sized to allow 9 hours autonomy at 75% load.

* This option may increase the unit's weight above 1653 lbs in certain cases

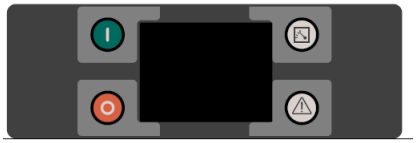
Electrical System

The **XAS 185-100 and XAS 185-150 PACE** are equipped with a 12 Volt negative ground electrical starting system.

Instrumentation

The instrument control panel is located on the rear corner, of the compressor canopy with easy access.

Units without PACE are equipped with the Xc1004 controller.



- Displayed while running
  - Hours
  - RPM
  - Outlet pressure

PACE units are equipped with the Xc2003 controller.

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 as well as several safety warnings and shutdowns on various parameters (listed below).

XC2003 Controller Functionality:

- Displayed while running
  - Hours
  - 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
  - Clock
  - Battery voltage
  - Running hours
  - Regulating pressure
  - Emergency stop count
  - Minor and major service counters in hours and days
- Engine measurements displayed
  - Current fuel rate
  - Engine coolant temperature
  - Engine oil pressure
  - DPF Soot level
  - Engine RPM
- Warnings and Shutdowns
  - High temperature engine coolant
  - High temperature compressor oil
  - Engine oil pressure
  - High DPF soot 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)
  - ECO mode
- Settings
  - Manual regeneration of DPF
  - Reset service timers
  - Diagnostics for engine ECU
  - Language settings
  - Unit of measure changes

Bodywork

The frame is ASTM A653 Zincor powder coated steel plate providing excellent corrosion protection. The canopy is sound attenuated to meet the most current legal noise requirements.

Undercarriage

The **XAS 185-100 and XAS 185-150 PACE** compressors are available with a choice of undercarriages, providing utmost flexibility in installation or towing requirements.

All undercarriage types can be partially disassembled and/or adjusted vertically upwards allowing sideways **truck loading** up to 9 units per truck.
Sideways loading is also possible with the fixed towbar without brakes undercarriage option allowing up to 8 units per container.

Supplied Documentation

The unit is delivered with documentation regarding:

- Hard copies of the Atlas Copco Operators Safety and Instruction Manual, Atlas Copco Parts Book, Kubota Engine Manual and Parts book, as well as electronic copies 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).

Warranty Coverage

Please refer to product presentation for warranty info
Please contact your local sales representative for more info.