



Standard scope of supply

Sustainable workhorse

Engineered for high-demand, heavy-duty applications such as drilling, mining support, construction, pipeline pre-commissioning, abrasive blasting, and industrial operations, this power house is designed to operate in ambient conditions from -25°C to $+50^{\circ}\text{C}$, it features a strengthened all-steel enclosure and corrosion-protected base frame. Environmental compliance, safety, and uptime are core design priorities.

Craftsmanship

This model leverages long-standing engineering heritage to deliver high air output, fuel efficiency, and low total cost of ownership (TCO). Precision components, optimized airflow, and a modern driveline ensure long-term durability. The airflow and pressure is supported by a heavy-duty screw element designed for reliable operation.

More in the box

Arrives with a rich set of standard features, including:

- 24-V electrical system with full safety coverage.
- Spillage-free frame.
- High-efficiency cooling package.
- Full-access service doors.
- Multi-language operator interface.

Ready to go

A user-optimized layout shortens learning curves for operators and service teams. Key components are positioned for rapid access, enabling full routine maintenance within minutes. Integrated connectivity and diagnostic intelligence support predictable uptime and simplified fleet coordination.

Main Data

Model		
Minimum effective receiver pressure	bar	11.5
Maximum effective receiver pressure (Unloaded)	bar	22
Maximum working pressure	bar	20
Minimum working pressure	bar	13

Model

Actual free air delivery (standard)*		
at pressure setting 20 bar	m ³ /min	21.0
at pressure setting 17 bar	m ³ /min	22.0
at pressure setting 13 bar	m ³ /min	22.0
Fuel consumption at highest pressure setting		
at 100% FAD (full load)	l/h	50
at 75% FAD	l/h	36
at 50% FAD	l/h	28.5
at 25% FAD	l/h	21.8
at unload	l/h	17.4
Capacity of standard fuel tanks	l	270
Capacity of DEF tank	l	37
Maximum typical oil content of compressed air	mg/m ³	5
Max. sound power level (Lw @ 2000/14/EC)	dB(A)	100
Max. sound pressure level at 7 m (Lp)	dB(A)	75
Max. sound pressure level at 10 m (Lp)	dB(A)	72
Max. ambient temperature (standard)	°C	50
Min. starting temperature (standard)	°C	-10
Min. starting temperature with cold start equipment	°C	-25
Number of compression stages		2
Air outlet connections		1 x G2
Net capacity of air receiver	l	91
Air volume at inlet grating (approx.)	m ³ /sec	9.7
Capacity of compressor oil system	l	59
Vessel certificates		ASME/CE/CRN (ASME-based)
Compressor element		C142+J35
Final pressure safety valve - maximum opening pressure	bar	27.5
Final pressure safety valve - reseating pressure	bar	24.3
Nominal engine speed at 100% compressor load	rpm	1890
Nominal engine speed at compressor unload	rpm	1300
DC voltage system	V	24
Compressor regulating system		AirXpert
Control system		Xc2004
Energy source		Diesel
Cooler type		Fins
Cooler material		Aluminium
Fleetlink version included in standard configuration		Smartbox

* according to ISO 1217 ed.3 1996 annex D

Engine

Engine brand		Cummins
Engine type		QSB 6.7
Emission stage (EU)		StV
Emission stage (USA)		T4F
Emission stage (Korea)		T5
Capacity of cooling system	l	42
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
DEF consumption relative to fuel consumption	%	11

Dimensions

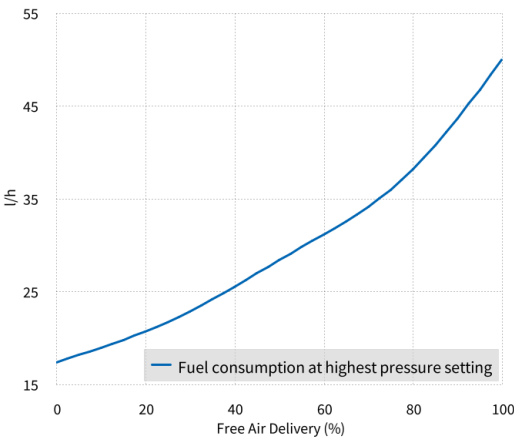
Box		
Length	mm	3603
Width	mm	1750
Height	mm	1691
Dry weight	kg	3075
Wet weight	kg	3375
Box and undercarriage*		
Length max	mm	5760
Width min	mm	1978
Width max	mm	1978
Height max	mm	1978
Max allowed weight	kg	3500

* Please contact your local sales representative to obtain the full dimension drawing of your configuration

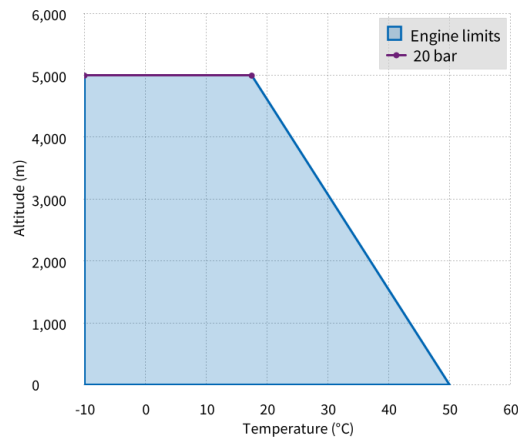
Variable Pressure Graph



Fuel Consumption Graph



Altitude Performance Graph



Maximum allowable working pressure as function of altitude and ambient temperature

Sustainability

Exhaust emission

Equipped with a **Cummins QSB 6.7 Stage V diesel engine**, the unit meets the strictest global non-road mobile machinery (NRMM) emissions requirements, including particulate filtration and NOx reduction technologies.

Noise emission

The redesigned all-steel canopy and airflow path reduce sound levels for operation in urban, industrial, and noise-sensitive zones. Compliant with current regional outdoor noise regulations.

Spillage

Spillage-free frame protects the environment by capturing all machine fluids—even on inclined terrain or during heavy rainfall.

Engine

A modern 6-cylinder, 6.7-L Cummins QS series engine delivers robust, reliable power for high-pressure operation. Key features:

- Turbocharged and aftercooled for consistent performance.
- High-pressure common-rail fuel system.
- Autonomy typically 7,5 hours at full load.
- Full ECU-controlled engine protection strategy.
- Cold-start capability.

Compressor element

The heavy-duty screw compressor element is optimized for 20-bar continuous operation:

- High-efficiency rotor profile for reduced fuel consumption.
- Long-life bearings and precision machining for extended durability.
- Optimized airend-to-engine coupling for low vibration and smooth output.
- Extended service intervals minimize operational downtime.

Control System

The Xc2004 Smart Controller is a next-generation solution designed to simplify compressor control while boosting performance. Replacing the Xc2003, it features a user-friendly interface with fewer buttons and intuitive navigation, making it accessible to both seasoned operators and newcomers. Engineered for harsh environments, it delivers reliable output and minimizes downtime. It supports advanced features such as dual pressure functionality, electronic engine control, PACE pressure regulation, and FleetLink connectivity. Certified and already in production, the Xc2004 is backed by dedicated training programs covering installation, software uploads, and alarm configuration—ensuring users are fully equipped to operate and maintain it with confidence.

AirXpert

The compressor is provided with a continuous electronic regulating system (AirXpert) and a blow-off valve which is integrated in the unloader assembly. The vessel pressure is maintained at the preselected working pressure. Economic power consumption is assured by the fully automatic 100% step-less speed regulation by the controller that adapts engine speed to air demand.

AirXpert provides an intelligent, electronically assisted regulating system with:

- Precise pressure management from idle to full load.
- Faster response to air-demand fluctuations.
- Optimized fuel economy via adaptive engine speed control.
- Integrated blow-off and unloading assembly.
- Stable vessel pressure maintained between working pressure and unloading pressure.

Size and weight

Engineered to stay under 3,5 tons, enabling it to be safely towed with a standard vehicle without requiring any special road permit or commercial driving license. Available in:

- Skid-mounted version for permanent or truck-bed installations.
- Heavy-duty towable undercarriage supporting regional towing standards.

Transport features:

- Reinforced lifting structure.
- Optimized weight distribution for safe towing and site maneuvering.

Air/oil separator

A multi-stage separation system ensures clean compressed air:

- Centrifugal pre-separator.
- Long-life separator element.
- Minimal oil carryover for reduced air-end wear.
- Safety relief valve (certified) and blow-down valve for operator protection.

Bodywork

The machine features a robust, powder-coated steel canopy.

Key features:

- 2-layer anti-corrosion coating on all exterior metal parts.
- Reinforced steel bumpers and corner protection.
- Full-length sound-insulated panels.
- Gas-strut-assisted service doors with wide opening angles.
- Highly durable finish designed for harsh industrial environments.

Cooling system

A high-capacity cooling package engineered for extreme duty:

- Integrated coolers for engine coolant, engine oil, charge air, compressor oil, and aftercooler.
- High-flow axial fan for stable performance at high ambient temperatures.
- Easy-access cleaning ports.
- Protection grilles for operator safety.

Electrical system

- 24-V negative-ground electrical starting system.
- Heavy-duty alternator supporting additional electrical loads.
- Full integration with Xc2004 monitoring and diagnostics.

Options

Undercarriage

- Fixed skid, heavy-duty towing frame.
- Braked axle variants.
- Adjustable towbar.
- Multiple towing eyes (ball, DIN, NATO, GB).

Road light system

- Bulb and reflector system.
- Full compliance with regional towing regulations.
- 7-pin connector with optional 13-to-7 adapter.

Cold weather equipment

- Block heater.
- Low-temperature synthetic oils.
- Thermostatic bypass valve.

Quality air equipment

- Aftercooler + water separator.
- Aftercooler bypass.

Protection

- Inlet shutdown valve.

Customization

- Special colors, decals, and branding kits.

Supplied Documentation

- Safety and instruction manual.
- Digital Spare parts catalogue; engine manual.
- Declaration of conformity, test certificate, SCIP documentation.
- Vessel and valve certificates.
- Warranty registration documentation.

Manufacturing and Environmental Standards

The compressor is manufactured following stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 14001 requirements. Attention has been given to ensure minimum negative impact to the environment. All our factories have an ISO 45001 certificate to focus on occupational health & safety.

Warranty Coverage

Extended Warranty Programs are available; please contact your local sales representative for more info.