



Portable Screw Compressors



PDC 90, PDC 190, 12–25 m³/min



CE certified

enough air for everyone



EUROPEAN UNION
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Operational Programme Enterprise and Innovations for Competitiveness

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Tradition in production



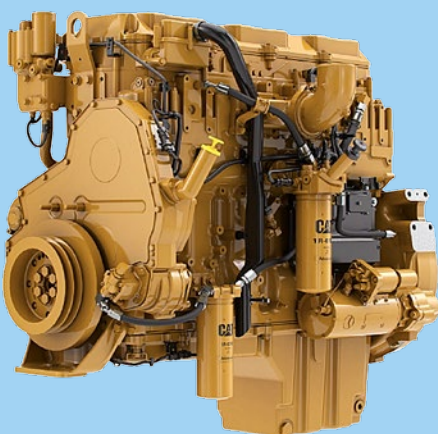
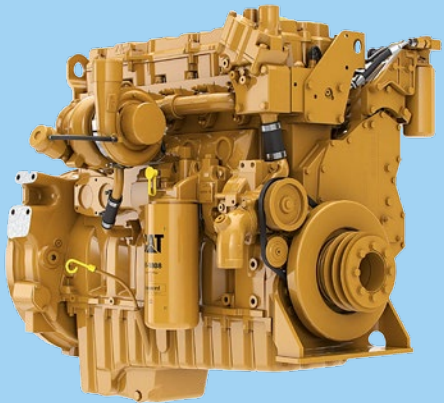
Portable Screw Compressors PDC 90, PDC 190

Our industrial tradition is the cornerstone on which we have built our company. Atmos has been engaged in engineering and production of compressors for more than 110 years. The 1st compressors powered by diesel engines left the assembly line in 1955. Since then, many generations of air compressors have been developed and the experience with the design, manufacture and primarily operation has been incorporated into a mobile compressor for demanding applications.

Caterpillar certificates for CE conformity



- New solution of combustible engine
- CAT certified engines C4 and C7





Machines for extreme conditions

- highest quality components used for the machine construction
- corrosion-resistant body protected by powder baked enamel coated on cathaphoretic treated sheet
- heavy duty air filters
- cooling for extreme temperature
- excellent cold start with 24V battery
- depressurised startup at low temperatures for longer lifetime
- robust compression unit with high energy efficiency

Easily manoeuvrable machine

- weight of both machines under 3500 kg including all options thanks to the innovative engineering design
- lifting bales for loading by crane or helicopter
- uniaxial undercarriage for easy manoeuvrability in confined spaces



right compressors for your

Constant speed engine highlights

- Brand new Caterpillar CE compliant engine
- Robust design with minimum electronics
- No AdBlue necessary
- Large power reserves
- Low speed engine
- Low consumption of fuel due to the innovative design of the control unit
- Complete range of optional accessories
- No particle filter necessary

Application examples



Control unit

- intuitive digital display with simple control displays the operational status of the compressor:
 - temperature and pressure values in the circuit of a screw compressor
 - temperature and pressure values in the engine circuit
 - engine speed (required and actual)
 - service intervals
 - fuel level in the tank
 - battery voltage
 - non-standard conditions history
- smooth start of the aggregate without excessive vibration
- remote machine control (not standard but possible as an option)

Excellent serviceability

- body of the machine allows a very convenient service access from all sides (including from above).
- special doors provide easy access for cleaning high-performance coolers.
- the fuel tank provides necessary amount of fuel for full shift without interruption.

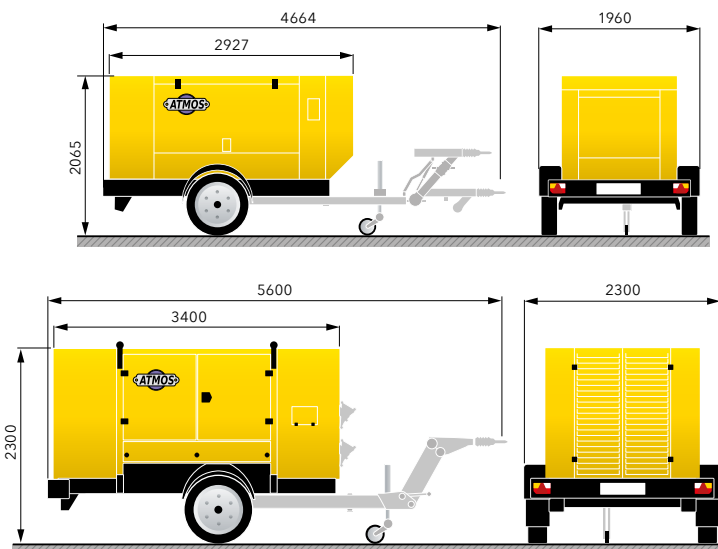



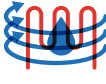

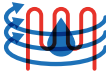


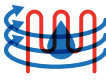


Technical parameters

		PDC 90	PDC 190
Rated air delivery	[m³/min]	12 / 10 / 8,4 / 7,5	25,2 / 24,8 / 22,1 / 19,9
	[cfm]	425 / 350 / 300 / 265	875 / 750 / 680 / 660
Overpressure	[bar]	7 / 10 / 12 / 14	8,6 / 10 / 12 / 14
	[psi]	100 / 150 / 175 / 200	125 / 150 / 175 / 200
Engine		CAT C 4.4 Constant Speed	CAT C 7.1 Constant Speed
Rated power	[kW]	98,1	205
Engine speed	[rpm]	1800	1800
Fuel tank	[l]	190	280
Voltage	[V]	24	24
Temperatures (min to max)	[°C]	-10 to +45	-10 to +45
Weight (max)	[kg]	2500	3490












All changes reserved.

Dimensions [mm]



Option combination A	 	Portable compressor is able to start in -40°C, compressed air is dried.
Option combination B	  	Portable compressor is able to start in -40°C, compressed air is dried, oil and dust particles free.
Option combination C	   	Portable compressor is able to start in -40°C, compressed air is dried, oil and dust particles free, reheated ideal for working in freezing conditions with long air distance.

Optional accessories

- undercarriages 
- cold start (-40°C) 
- aftercooler + water trap 
- condensate vaporizer 
- filters 
- heat exchanger 
- tool lubricator 
- spark arrester 
- chalywn valve 
- diesel particle filter (DPF) 
- remote control 
- external fuel tank connection 