

CPS275 - CPS400

Portable compressor



Standard Scope of Supply

The Chicago Pneumatic **CPS 275 - CPS400** is a direct drive oil-injected rotary screw type air compressor, powered by a water-cooled, Cummins diesel engine.

The unit consists of an element, diesel engine, cooling, air/oil separation and control systems - all enclosed within a sound dampened strong canopy.

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.

Available Models

CPS 275	single stage 7 bar, 8.0 m ³ /min – Com II compliant Cummins engine
CPS 400	single stage 7 bar, 12.0 m ³ /min – Com II compliant Cummins engine
CPS 350-10	single stage 10 bar, 10.4 m ³ /min – Com II compliant Cummins engine
CPS 350-12	single stage 12 bar, 10.4 m ³ /min – Com II compliant Cummins engine

Features

- Reputable engine brand
- Efficient screw element
- Efficient air/fuel filtration
- Galvanized powder coated canopy
- User friendly instrument panel
- Low noise level
- Robust single axle undercarriage

Benefits

- World Wide support, high up time
- Efficiency, Low Cost of Ownership
- Protection from engine damage, Low Cost of Ownership
- Robust, impact resistant: all guaranteeing a higher resale value
- Ease of operation, protected from operators' fault
- Able to work in noise sensitive areas
- Low transportation costs



Technical Data

Performance		CPS 275	CPS 400	CPS 350-10	CPS 350-12
Normal effective working pressure	bar	7	7	10.3	12
Actual free air delivery ¹	m ³ /min	8.0	12.0	10.4	10.4
Max. sound power level (Lw) ²	dB(A)	104	104	104	104
Max. sound pressure level at 7 m (Lp)	dB(A)	77.9	77.9	77.9	77.9
Max. ambient temperature	°C	50	50	50	50
Max. ambient temperature with aftercooler	°C	50	50	50	50
Air Compressor outlets		1 x 1" + 3 x G3/4"			
Minimum starting temperature (with cold start equipment)	°C	-10 (-25)	-10 (-25)	-10 (-25)	-10 (-25)

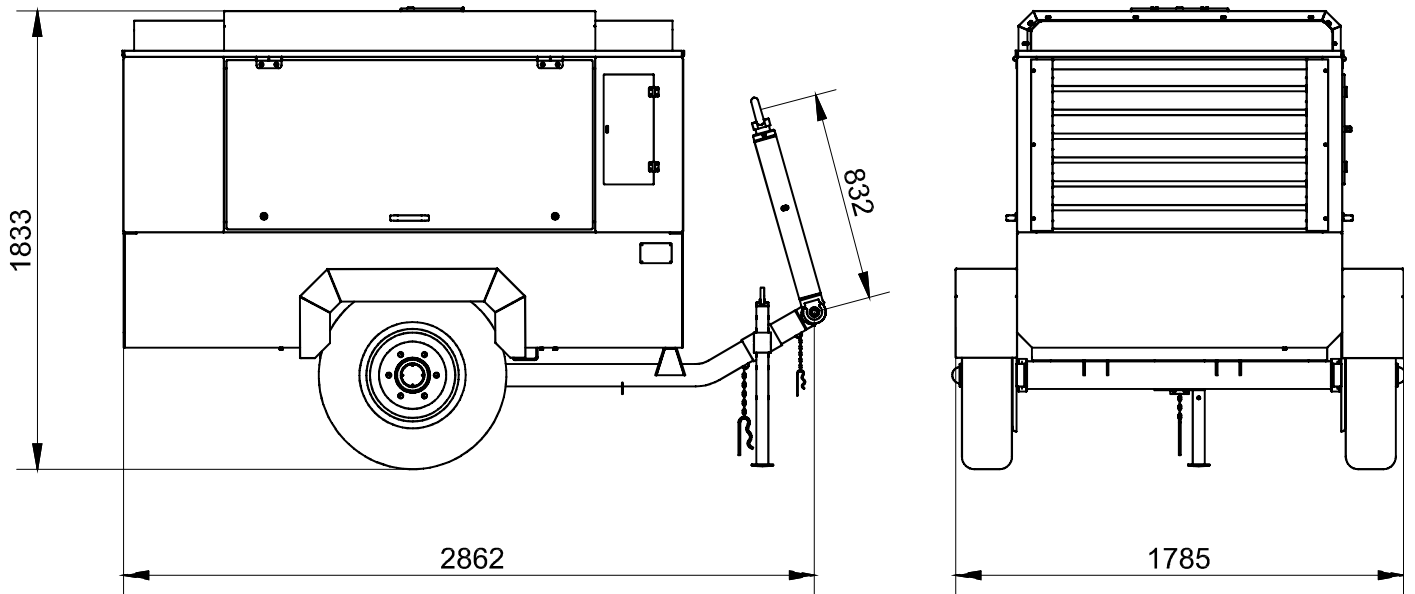
Compressor		CPS 275	CPS 400	CPS 350-10	CPS 350-12
Compressor type		screw	Screw	Screw	screw
Number of stages		1	1	1	1
Oil capacity	L	20	20	20	20

Engine		CPS 275	CPS 400	CPS 350-10	CPS 350-12
Cummins		4BTA3.9-C80	4BTA3.9-C125	4BTA3.9-C130	4BTA3.9-C130
Number of cylinders		4	4	4	4
Output at rated speed	kWt	60	97	97	97
Swept volume	L	3.9	3.9	3.9	3.9
Engine speed (nominal)	rpm	2000	2300	2300	2300
Engine speed (unloaded)	rpm	1400	1320	1430	1430
Capacity oil system	L	9	9	9	9
Capacity of fuel tank	L	185	185	185	185
Fuel consumption at 100% load	Kg/h	14.6	21.5	21.5	21.5
Speed regulation		Mechanical	Mechanical	Mechanical	Mechanical
Electrical system	V	24	24	24	24

¹ according to ISO 1217 ed.3 1996 annex D

² according to 2000/14/EC, 84/533/EEC and 85/406/EEC limits

Dimensions



Weight

Ready-to-operate

Box version	Kg	1400
With undercarriage	Kg	1523

Options

- Undercarriage
- Aftercooler with water separator
- Thermostatic valve in oil circuit
- Engine plug
- Synthetic oils
- Fuel powered coolant heater
- Synthetic compressor oil
- Air prefilter
- ASME approval



Principle Data

Compressor Element

The quality of a compressor can be measured through the reliability, efficiency and durability of the compressor element used. Through decades of expertise in the design of compressor elements, the result is the production of most efficient and reliable compressors on the market. When the screw element is efficient- durability excels, maintenance intervals increase and fuel consumption goes down.



Air/Oil Separator

The three stage air and oil separation is achieved through a centrifugal oil separator combined with a filter element. The separator is available in a CE or an ASME approved version and is stamped accordingly.

Compressor Regulating System

The compressor regulating system consists of air filter, compressor element, air receiver/oil separator, unloader assembly with unloader valve, blow down valve and loading valve.

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

Cummins engine

COM II / Tier 2 compliant water-cooled diesel engine provides ample power to operate the compressor continuously at full-load.

The engine has the capability to start the compressor to -10°C without the addition of a cold start aid. A cold start option is available for temperatures down to -25°F.

The 185 capacity fuel tank is sufficiently sized to operate the unit for a minimum of 7 hours at full-load condition.

Engine fuel system is protected from water and particals by high efficient fuel filter with waterseparator.



Instrumentation

The instrument control panel is located on the side of the compressor canopy, with a lockable protective metal cover.

Standard instrument package includes following analogue gauges: hour meter, fuel level, operating pressure

Starting is achieved with a three position start key for ease of operation. Compressor has load/unload switch.



Safety Devices

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

- Engine coolant temperature is too high
- Engine oil pressure is to low
- Fuel level too low
- Compressed air temperature is too high
- Low battery voltage

Discharge Outlets

Compressed air is available from 1 x 1" + 3 x G3/4" outlet valves.
Outlet valves are well protected from mechanical damage being placed deep in housing.



Undercarriage

Unit can be installed on single axle undercarriage with adjustable towbar equipped with supporting leg and parking breaks.

Manufacturing & Environmental Standards

The CPS 275 - CPS400 is manufactured following stringent ISO 9001 regulations.

Supplied Documentation

The unit is delivered with certificates regarding:

- Certificate for air/oil separator vessel and safety valve approval (CE/ASME)
- Instruction and operational manual for compressor and engine
- Spare parts list

Warranty Coverage

Different Warranty Programs are available. Please consult your local dealer for more details.

For more information, please contact your CP partner:



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