



Portable compressor



Highlights

- High Pressure Compressors for Water-well Drilling
- Two stage, oil injected, twin screw element compressor
- Directly coupled to the state of the art water cooled diesel engine through a flexible coupling
- Enclosed in sturdy canopy
- Frame of the compressor is sturdy and can fit any medium size truck.

Advantages

- Efficient air / oil separation system with minimum oil Consumption
- The engine output is as per SAE j 816 b standards, at normal shaft speed and maximum rating
- Easy access to the routine maintenance and for cleaning

Technical data

Compressor		CPS 1200	CPS 1100	CPS 1000
Normal effective working pressure	bar	23	20.7	19
	psig	330	300	275
Actual free air delivery ¹	l/s	567	519	490
	cfm	1200	1100	1035
Max. ambient temperature at sea level	°C	50	50	50
Altitude capability (without deviation)	m	1500	1500	1500
Air inlet temperature	°C	20	20	20

Engine

Cummins		NTA 855 C BIG CAM III	NTA 855 C BIG CAM III	NTA 855 C BIG CAM III
Number of cylinders		6	6	6
Output at rated speed	BHP	430	415	395
Engine speed (nominal)	r/min	1900	1800	1800
Engine speed (unloaded)	r/min	1200	1200	1200
Capacity oil system	l	72	72	72

¹ Reference condition - 1 bar, dry air, 20°C inlet

² Capacity tolerance - ±5% according to ISO 1217 standards

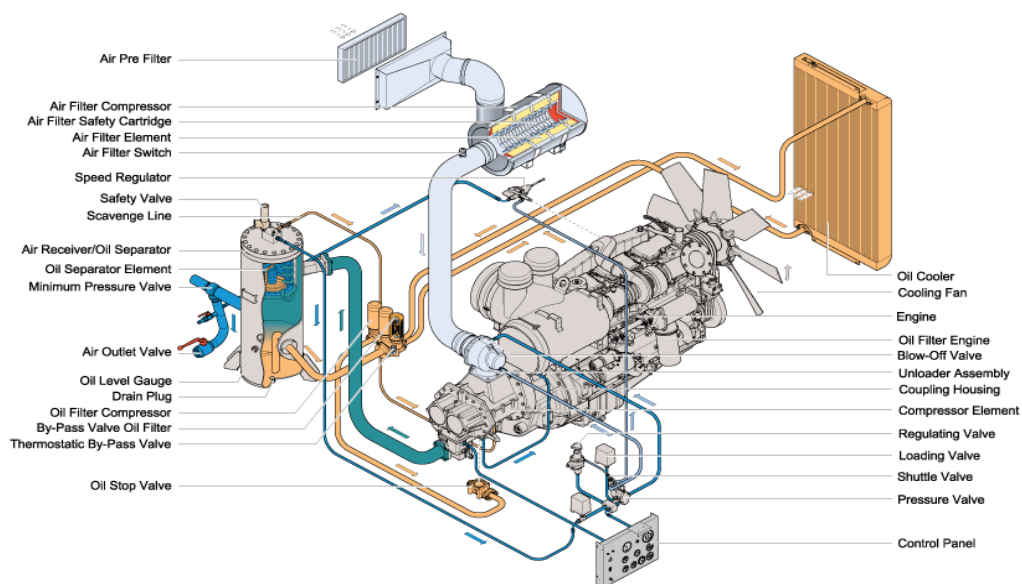
Weight and Dimensions

		CPS 1200	CPS 1100	CPS 1000
Weight (Dry) Stationary	Kg	4100	4100	4100
L x W x H	mm		3850 x 1600 x 1960	

Standard Scope of Supply

CPS 1000-1200 is a two stage, oil injected, twin screw element compressor. The unit consists of an element, diesel engine, cooling, air/oil separation and control systems - all enclosed in a sturdy canopy protected by quality powder coating.

Powered by Cummins engines, this range of portable compressors is typically used for abrasive blasting, water well drilling and drilling of small holes on construction sites and mines.



Principle Data

Compressor type

The compressor is twostage, oil-injected screw compressor, built for a nominal effective working pressure of 20.7 bar (300 psi) for CPS 1100-300, 19 bar (275 psi) for CPS 1000-275 and 23 bar (330 psi) for CPS 1200-330

Regulating system

The compressor is provided with a continuous regulating system and a blowoff valve which is integrated in the unloader assembly. These valves are inter-connected with flexible tubes

Cooling system

- The engine is provided with a liquid-cooler and the compressor is provided with an oil cooler.
- The cooling air is generated by a fan, driven by the engine

Safety features

- High air temperature shut down
- Low engine oil pressure shut down
- High engine water temperature shut down
- Safety valve on separator tank

Engine

Cummins NTA 855 BC

The compressor is driven by a 6 cylinder liquid-cooled diesel engine. Reliable and efficient diesel engine by Cummins. Popular in Construction equipment, Industrial Water well drilling and Generator applications.

Diesel engine & Turbocharger are liquid cooled for better performance.

Electrical System

The CPS 1000-1200 is equipped with a 24 Volt negative earthed electrical system comprising alternator and two nos. 12 Volt batteries.

Instrument Panel

Control panel consisting of...

- Discharge pressure gauge
- Discharge temperature gauge
- Engine oil pressure gauge
- Engine water temperature gauge
- Tachometer
- Hour meter

Sticker giving easy to follow Starting Instructions

Bodywork

Frame of the compressor is sturdy and can fit any medium size truck. The bodywork has openings for the intake and outlet of cooling air and hinged doors for maintenance and service operations. It is internally lined with sound-absorbing material.

General

Unit performance measured according to ISO 1217.

The engine output is as per SAE j 816 b standards, at normal shaft speed and maximum rating

Available Models

CPS 1000 - 275	Two stage – 275psi - Cummins engine
CPS 1100 - 300	Two stage – 300psi - Cummins engine
CPS 1200 - 330	Two stage - 330psi - Cummins engine

Maintenance schedule

	Daily	1000 hours	2000 hours
Engine oil level	Check		
Condensate (10)	Drain		
Compressor oil level	Check		
Coolant level	Check		
Air filter vacuator valves	Empty		
Fuel filter water drain	Drain		
Vessel drain	Drain		
Electrolyte level and terminals of battery		Check	Check
Air intake vacuum indicator	Check		
Leaks in air-, oil- or fuel system (11)		Check	Check
Oil cooler		Clean	Clean
Radiator		Clean	Clean
Air pre-filter (Element)	Check	Replace	Replace
Safety valve (9)			Test
Door hinges		Grease	Grease
Bleed-off valve unloader			Replace
Oil stop valve			Replace
Rubber flexibles (11)			Check
Shut-down switches			Check
Oil separator element (2)		Replace	Replace
Fan V-belts (3)		Adjust	Adjust
Fuel tank		Clean	Clean
Compressor oil (1) (7)		Change	Change
Compressor oil filter (5)		Replace	Replace
Coolant (8) (4)		Analyse	Analyse

* Refer engine maintenance manual

Standard Warranty Terms

Use only authorized parts.

Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability. The manufacturer does not accept any liability for any damage arising for modifications, additions or conversions made without the manufacturer's approval in writing.

Chicago Pneumatic Construction Equipment

Office Unit No 2, 2nd Floor, B Wing Vishal Complex,
CTS No 395/1 Old Pune Mumbai Road, Dapodi, Pune – 411012

Phone : 020 - 3985 3504 / 05 Fax : 020 - 3985 2093 Email : cpce.sales.india@co.com.



ISO 9001
From Design to production and Delivery Chicago Pneumatic Compressors adheres to the ISO 9001 Management System requirements



ISO 14001
Chicago Pneumatic's Environmental Management System Forms an integral part of each Business process.



Design
Manufacture, Sales and
Service of air compressors,
Air dryers and air filters