CPS770-21,820-17,900-12,950-10

Portable diesel-driven compressor

Standard Scope of Supply

The **CPS770-21, 820-17, 900-12, 950-10** are 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

CPS770-21	Two-stages 21 bar, 21.8 m³/min – Com II compliant Cummins engine
CPS820-17	Two-stages 17 bar, 23.2 m³/min – Com II compliant Cummins engine
CPS900-12	Single stage 12 bar, 24.6 m³/min – Com II compliant Cummins engine
CPS950-10	Single stage 10 bar, 26.8 m³/min – Com II compliant Cummins engine

Features

- Reputable engine brand
- Efficient screw element
- Efficient air/fuel filtration
- Outdoor powder coated canopy
- User friendly instrument panel
- Low noise level
- Robust two axles undercarriage

Benefits

- World Wide support, high up time
- Efficiency, Low Cost of Ownership
- Dust, water prevention, lower operating cost
- 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

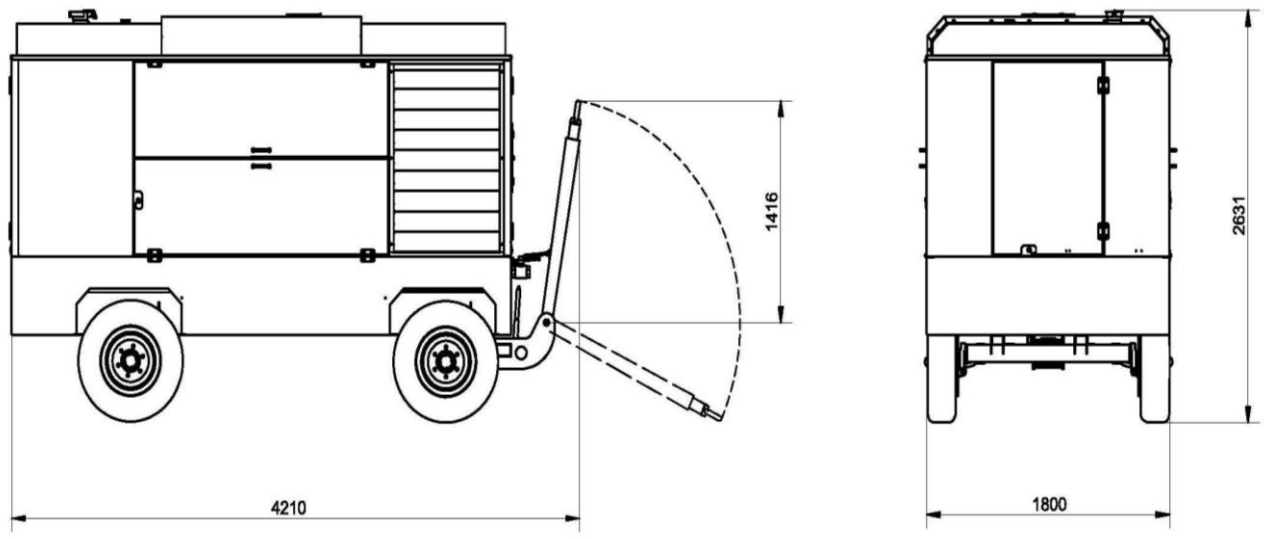
Performance		CPS770-21	CPS820-17	CPS900-12	CPS950-10
Normal effective working pressure	bar	21	17	12	10
Actual free air delivery[1]	m3/min	21.8	23.1	24.6	26.8
Max. sound power level (Lw)[2]	dB(A)	104	104	104	104
Max. sound pressure level, 7 m (Lp)	dB(A)	77.5	77.5	77.5	77.5
Max. ambient temperature	°C	50	50	50	50
Air Compressor outlets				1 x G2"+ 1 x G3/4"	
Minimum starting temperature (with cold start equipment)	°C	-10 (-20)	-10 (- 20)	-10 (-20)	-10 (-20)

Compressor					
Compressor type		screw	screw	screw	Screw
Number of stages		2	2	1	1
Oil capacity	L	70	70	65	65

Engine					
Cummins		6LTAA8.8-C315	6LTAA8.8-C315	6LTAA8.8-C315	6LTAA8.8-C315
Number of cylinders		6	6	6	6
Output at rated speed	kWt	232	232	232	232
Swept volume	L	8.9	8.9	8.9	8.9
Induction system					
Engine speed (nominal)	rpm	2000	2000	2000	2000
Engine speed (unloaded)	rpm	1400	1400	1400	1400
Capacity oil system	L	27.6	27.6	27.6	27.6
Capacity of fuel tank	L	512	512	430	430
Electrical system	V	24	24	24	24
Fuel autonomy at full load		8	8	8	8

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		CPS770-21	CPS820-17	CPS900-12	CPS950-10
Weight box version	kg	5010	5010	4245	4245
Weight on undercarriage	kg	5365	5365	4600	4600

Options

- Undercarriage
- Aftercooler with water separator
- 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 SQE or an ASME approved version and is stamped accordingly.

Oil system is equipped with thermostatic valve.

Compressor Regulating System

The compressor regulating system consists of blow down valve, unloader valve, regulation valve, solenoid valve, engine speed regulator, check valve, oil stop valve and minimum pressure valve.

Economic 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. Engine is equipped with glow plug as a standard. A cold start option is available for temperatures down to -25°C.

The 430/512 liter capacity fuel tank is sufficiently sized to operate the unit for 8 hours at full-load condition.

Engine fuel system is protected from water and particles by high efficient fuel filter with water separator.

Cummins engine has worldwide international support.

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
- Engine speed
- Fuel level
- Operating pressure
- Engine water temperature

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

Discharge Outlets

Compressed air is available from 1 x G2”+ 1 x G3/4” outlet valves.

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 too low
- Fuel level too low
- Compressed air temperature is too high
- Low battery voltage

Undercarriage

Unit can be mounted on two axle undercarriage with adjustable tow bar.

Undercarriage equipped with supporting leg and parking breaks.

Manufacturing & Environmental Standards

The **CPS770-21, 820-17,800-12, 900-10** are manufactured following stringent ISO 9001 regulations.

Supplied Documentation

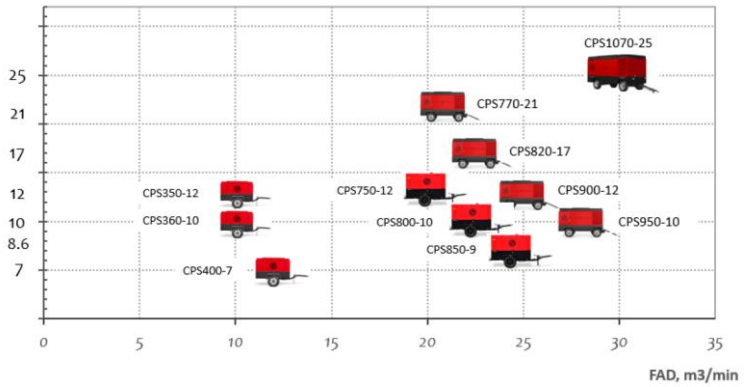
The unit is delivered with certificates regarding:

- Certificate for air/oil separator vessel and safety valve approval (SQE/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.

Check out other products



- Diesel compressors 2.5-26.8 m³/min, 7-21 bar
- Electrical driven compressors 2-26.8 m³/min, 7-21 bar
- Diesel driven generators 13-140 kVA
- Petrol generators 5-12 kVA
- Light tower