Portable Compressor



Standard Scope of Supply

The CPS900E have been designed to offer true versatility through compact dimensions and useful and intuitive electronic controller. Providing exceptional reliability and efficiency, these units are designed to operate in a wide range of applications in the harshest of work environments.

Whether being used for running pneumatic breakers, general construction work, sandblasting or for rental are all within the capability of these units. Wide choices of options are available which to build these units specific from the simplest to most complex specialized application.

Despite the overall compactness these compressors still provide exceptional access to all the service and maintenance points. The compressor is driven by the latest high efficient IE3 motor ensuring low operational costs and high resale value.

Chicago Pneumatic compressors are build for reliability, easily maintained, CE and CSA/UL compliant, providing many years of trouble free performance

Available models

CPS900E

Single stage – 900CFM @150 psi

Features

- Controls grouped on one panel as standard
- Designed with environmental protection in mind
- Compact, sound attenuated, corrosion resistant enclosure
- 3-layer painting
- Long service intervals (2000 h or 1 year)
- Soft start
- After cooler, water separator no filters
- External CamLock connections
- 110% Spillage Free Containment Frame
- Standard cold weather operations

Benefits

- Easy to monitor and control.
- The unit comes with a robust frame on a skid based in CPDG platform, CE and CSA/UL compliant equipment
- Unit is enclosed in a sound attenuated Zincor steel
 enclosure
- High residual value
- Low operating costs
- reduces the inrush current
- cools down the air and removes moisture
- easy and fast connections
- Protects environment from spill/ leaks, avoids costly clean up
- Compressor can start and safely operate at -13°F in cold weather environment.

Main data

Model		CPS900E	CPS900E	
Frequency	Hz	60	50	
Minimum effective receiver pressure	Bar	4	4	
	PSI	58	58	
Maximum effective receiver pressure at no	Bar	10,4	10,4	
load	PSI	150	150	
Maximum ambient temperature	°C (°F)	45 (113)	45 (113)	
Minimum ambient temperature	°C (°F)	-25 (-13)	-25 (-13)	
Motor shaft speed (rpm)	rpm	1790	2890	
Free air delivery				
Effective working pressure (psi) 150	CFM (I/s)	900 (430)	900 (430)	
Total electrical power input (kW)				
Effective working pressure (PSI) 150	kW (HP)	194 (260)	204 (274)	
Unload	kW (HP)	74 (99)	74 (99)	
Total electrical power input at unload	kW (HP)	78 (105)	79 (106)	
Compressed air temperature at outlet valve	°C	Amb+16 +/- 7°C	Amb+16 +/- 7°C	
Fan(s) shaft power	kW (HP)	4 (5)	4 (5)	
Fan(s) electrical power input	kW (HP)	4 (5)	5 (6.7)	
DESIGN DATA			· · · ·	
Drive motor installed power	kW	160 kW (220 HP-cv)	160 kW (220 HP-cv)	
Drive motor name		Motor 3Ph W22 WEG	Motor 3Ph W22 WEG	
Housing		315S/M	315S/M	
Motor shaft speed	rpm	1790	2980	
Frequency		60 Hz	50 Hz	
Voltage		460	400 Volts	
Current		243 A	264 A	
Service Factor		1,2	1,2	
lp/ln		8	8	
I.P.		IPW55	IPW55	
Fan motor name		AT112S-4	AT112S-4	
Housing		112M	112M	
Motor shaft speed	rpm	1740	1460	
Frequency		60 Hz	50 Hz	
Voltage		460	400 Volts	
Current	A	6.6	8,32 A	
Service Factor		1	1,15	
lp/ln		7	8,2	
I.P.		IP55	IP55	
Shipping mass (kg) – CPS900E 50 Hz wet	Kg (lb)		3160 (6967)	
Shipping mass (kg) – CPS900E 50 Hz net	Kg (lb)	-	3105 (6845)	
Shipping mass (kg) – CPS900E 60 Hz wet	Kg (lb)	2963 (6532)	-	
Shipping mass (kg) – CPS900E 60 Hz net	Kg (lb)	2908 (6411)	-	
Shipping mass (kg) – Option DDx/PDx filters	Kg (lb)	40 (88)	40 (88)	
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Dimensions

See dimension drawing



CPS900E BQR - Product Reference



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 in the market. When the screw element is efficient durability excels, maintenance intervals decrease and fuel consumption goes down.

Air/Oil Separator

Air and oil separation is achieved through a centrifugal oil separator combined with a filter element. Vessel is ASME approved and stamped accordingly.

Designed for a higher maximum working pressure, the separator is equipped with a high pressure sealed and certified safety relief valve, automatic blow-down valve

Compressor Regulating System

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

Discharge outlets

Compressed air is available from 1 x 2.1/2" outlets.

Motor

WEG

High efficiency CE and CSA/UL compliant motor provides ample power to operate the compressor continuously at full load. Motor output at rated speed is 160kW for CPS900E.

The Motor has the capability to start the compressor to -13°F.



Electrical System

Instrumentation

The instrument control panel is located on the side of the compressor closed with a canopy's door for safety and protection.

Standard instrument package includes an hour meter, operating pressure gauge, start button, load and unload switch, diagnostic shutdown indicator lamps and soft starter

An electric circuit breaker switch avoids unauthorized starting of the compressor.

Safety devices

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

- Compressor oil temperature rise too high
- Wrong phase sequence connection
- Short circuit
- Motor overload
- High air temperature



Bodywork

The compressor is delivered as standard with a zincor coated steel canopy with 2 layer powder coat paint finish providing excellent corrosion protection. The canopy is available in fully sound attenuated versions meeting the most current legal noise requirements. The hood concept door provides complete service access to all components.

Undercarriage

The **CPS900E** compressor is available with an undercarriage alternative, providing utmost flexibility in installation or towing requirements.

See details below

Supplied Documentation

The unit is delivered with documentation regarding:

- Hard copies of the Chicago Pneumatic Operators Safety and Instruction Manual, electronic copies available on request for Chicago
 Pneumatic Parts Book, motor Manual.
- Certificate for air/oil separator vessel and safety valve approval (Upon request only).

Optional DOT Certified trailer

GVWR: 11,000 lb

Overall Dimensions: 190" X 86 1/2" " X 22 1/2"" (L X W X H)

Tongue Jack: 10,000 lbs Capacity, Top wind

Hitch: 3" Eye Height: 26" Adjustable: +-2" w/ Safety Chains

Axles: (2) - 5,000 lb Dexter Torflex

Brakes: Electric with Breakaway System

Tires: ST225/75R15 LRC on 15" Wheels w/ 6 Bolts

Fenders: 12 Ga. Galvanneal with Anti-Skid Tape

Paint Color: PPG AUE-400LG AU7M100034 Slate Gray RAL 7015

Wiring: Double Jacketed Harness w 7 Blade RV Style Plug

Lights: LED to Federal DOT Requirements

Accessories: (4) Tie Down D Rings