

**90-355 kW  
Oil-injected  
Screw  
Compressor  
50Hz**



People. Passion. Performance.



# About Chicago Pneumatic

Since 1901, the Chicago Pneumatic name has represented reliability and attention to customer needs, as a global manufacturer of power tools, air compressors, generators, light towers, and hydraulic equipment for professional and industrial applications. It represents products that are engineered for high performance. In addition to pioneering design, high-impact technology and durability, Chicago Pneumatic means customer value.

Our people start every single day with a passion to research, develop, manufacture and deliver new products that are meant to meet your needs not only today, but tomorrow as well. All this has come together because we have consistently practiced our brand promise:

**People. Passion. Performance.**



## Maximized productivity

### FIXED SPEED



	Noise level	75-80 dB(A)
	FAD	242-1007 l/s 512-2135 cfm
	Power	90-355 kW 120-480 hp
	Pressure	0.7-1.0 MPa 7-10 bar

#### User benefits

- New design for highest reliability
- Group screw element to ensure maximum uptime
- Unmatched efficiency
- Air Cooled & Water Cooled variants

## Top value through energy efficiency

### VARIABLE SPEED



	Noise level	78-80 dB(A)
	FAD	71-710 l/s 148-1503 cfm
	Power	90-355 kW 120-480 hp
	Pressure	0.7-1.0 MPa 7-10 bar

#### User benefits

- Reduce Energy use by 35%
- More savings in every application
- Fast ROI with maximum pay back
- Lowest LCC (Life Cycle Cost)

## CPE 150-180

# ROBUST AND POWERFUL COMPRESSOR

The CPE range is a unique design by our engineers after careful consideration of voice of customer & result of continuous improvement to ensure reliable compressed air in the demanding applications of modern industries.



### Features

- High efficiency total package
- Keep your running costs low
- Optimum reliability
- Simple installation and maintenance



- 1 Oil separator
- 2 Compression element
- 3 Oil filters
- 4 Motor
- 5 Cooling fan

### Air Cooled

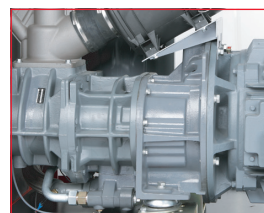
Model									
	Working Pressure	Motor Power	FAD	FAD	Noise Level	Dimensions	Weight	Connection	
	MPa	kW	HP	l/s	cfm	dB	L x W x H(mm)	kg	
CPE 120	0.8	90	120	271	574	76	2259 x 1060 x 1594	1570	G2
	1			242	512				
CPE 150	0.8	110	150	308	653	78	2255 x 1230 x 1600	1870	G2
	1			265	562				
CPE 180	0.8	132	180	374	793	79	2255 x 1230 x 1600	1920	G2
	1			325	689				

\* Variants - SQL, ASME+MOM

### Water Cooled

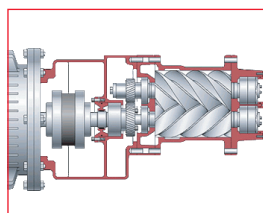
Model									
	Working Pressure	Motor Power	FAD	FAD	Noise Level	Dimensions	Weight	Connection	
	bar	kW	HP	l/s	cfm	dB	L x W x H(mm)	kg	
CPE 120	0.8	90	120	271	574	71	2210 x 1060 x 1594	1620	G2
	1			242	512				
CPE 150	0.8	110	150	308	653	78	2255 x 1230 x 1600	2400	G2
	1			265	562				
CPE 180	0.8	132	180	374	793	79	2255 x 1230 x 1600	2550	G2
	1			325	689				

Notes: Variants - SQL, ASME+MOM



#### State of the art screw element

High air delivery and efficient operation.



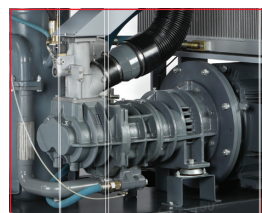
#### High efficiency drive system

Sureflex coupling: reliable, efficient, compact and quiet.



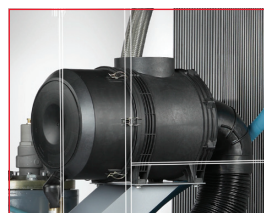
#### Energy saving controller

Advance and friendly use controller in large color screen. Trending chart, reliable and durable monitoring the air compressor's performance.



#### Easy maintenance

Quick and easy access to all components.



#### Efficient air filtration

Protect internal components from contamination.

## CPF 151-480

# PROFESSIONAL SOLUTIONS FOR MAXIMUM PRODUCTIVITY

In the view of Chicago Pneumatic users, the logo of Chicago Pneumatic represents the features of enduring and reliable operation. New generation fixed speed of oil-injected screw compressors have been launched to fit the needs on sufficient air volume when applied in high-power industrial area.

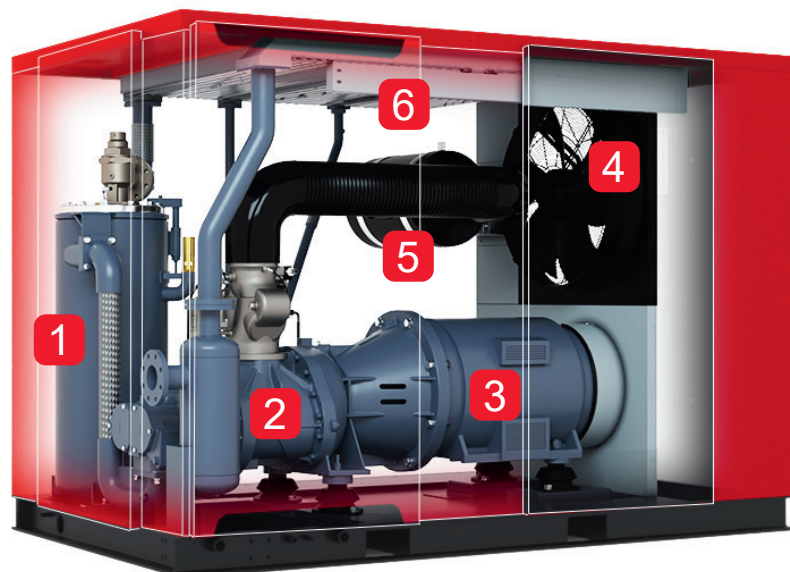


### Low operational costs

- Lower energy costs thanks to in-house designed, high-efficiency screw element.
- Helps you move toward a green production with lower emissions.
- Monitor and optimize your compressor remotely with ICONS.

### Always reliable

- Reliable operation, even in 46°C.
- IP55-enclosed drive train for dependable performance in dusty and humid conditions.



- 1 Oil separator
- 2 Compression element
- 3 Motor
- 4 Cooling fan
- 5 Air filter
- 6 Air/Oil Cooler

## Air cooled

Model	Working Pressure	Motor Power		FAD		Noise Level	Dimensions	Weight	Connection
	MPa	kW	HP	l/s	cfm	dB	L x W x H(mm)	kg	
CPF220	0.7			503	1066				
	0.8	160	220	482	1020	78	2880 x 1754 x 1930	2970	DN80
	1			443	939				
CPF270	0.7			607	1285				
	0.8	200	270	567	1200	80	3502 x 1754 x 1983	3450	DN100
	1			517	1094				
CPF340	0.7			755	1599				
	0.8	250	340	713	1511	80	3502 x 1754 x 1983	3620	DN100
	1			643	1363				
CPF450	0.8	315	450	871	1847	78	5100 x 2150 x 2250	6350	DN125
	1			804	1704				
	0.8	355	480	1007	2135	79	5100 x 2150 x 2250	6380	DN125
CPF480	1			890	1887				
	0.7			370	784				
	0.8	110	150	337	713	78	2880 x 1754 x 1930	3140	DN80
CPF151	1			312	660				
	0.7			433	918				
	0.8	132	180	412	872	78	2880 x 1754 x 1930	3230	DN80
CPF181	1			378	801				
	0.7			515	1091				
	0.8	160	220	483	1024	80	3502 x 1754 x 1983	3640	DN100
CPF221	1			445	943				
	0.8	250	340	705	1495	77	4800 x 2150 x 2250	5460	DN125
	1			656	1391				

## Water cooled

Model	Working Pressure	Motor Power		FAD		Noise Level	Dimensions	Weight	Connection
	bar	kW	HP	l/s	cfm	dB	L x W x H(mm)	kg	
CPF220	0.7			503	1066				
	0.8	160	220	482	1020	75	2880 x 1754 x 1930	2870	DN80
	1			443	939				
CPF270	0.7			607	1285				
	0.8	200	270	567	1200	77	2902 x 1754 x 1983	3240	DN100
	1			517	1094				
CPF340	0.7			755	1599				
	0.8	250	340	713	1511	77	2902 x 1754 x 1983	3410	DN100
	1			643	1363				
CPF450	0.8	315	450	871	1847	78	5100 x 2150 x 2250	5730	DN125
	1			804	1704				
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CPF480	1			890	1887				
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	0.7			433	918				
	0.8	132	180	412	872	75	2880 x 1754 x 1930	3130	DN80
CPF181	1			378	801				
	0.7			515	1091				
	0.8	160	220	483	1024	77	2902 x 1754 x 1983	3430	DN100
CPF221	1			445	943				
	0.8	250	340	705	1495	77	4800 x 2150 x 2250	5460	DN125
	1			656	1391				

## CPVS 120-180, CPVS 151-340 PM

# VARIABLE SPEED DRIVE FOR MAJOR ENERGY SAVINGS

With its excellent performance on the energy saving, variable speed of oil-injected screw compressors have been recognized and applied in various industries. To comply with global green energy production and carbon emission reduction activities, Chicago Pneumatic cherishes its mission to advance the technology on variable speed compressors and launched new generation of permanent magnet oil-inject screw compressors. Max.4% energy could be saved compared to last generation. Chicago Pneumatic users will benefit more energy saving during air compressors' whole life cycle.

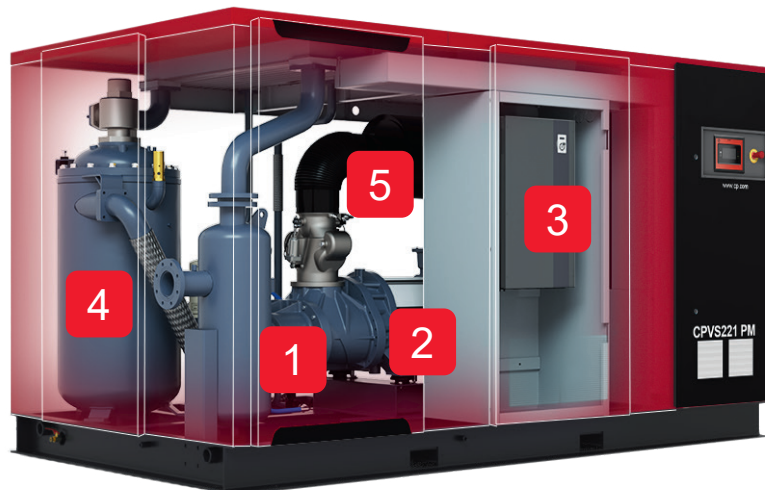


### Energy saving starts from commissioning

- In-house designed drive train provides stronger power
- Integrated permanent magnet motor with ultra IE4 efficiency

### Advanced connectivity

Advanced IoT technology with ICONS built-in, enable your instant monitoring your compressor



- 1 Compression element
- 2 Motor
- 3 Inverter
- 4 Oil separator
- 5 Air filter

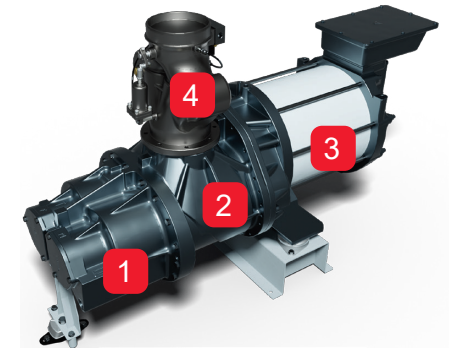
## REVOLUTIONARY DRIVE TRAIN TECHNOLOGY

### Improved energy efficiency saves you money

- In-house designed PM motor with PM premium efficiency
- New generation screw elements, with improved efficiency
- Integrated direct drive transmission for minimal losses.
- Smart inlet valve optimizes the inlet flow and improves efficiency

### Increased reliability extends lifetime

- PM motor rated IP55, premium protection against dust and water ingress
- Optimal cooling at all speeds and conditions thanks to oil-cooling principle of the PM motor.



- 1 In-house designed screw elements
- 2 Direct drive train
- 3 Oil cooling motor
- 4 Smart inlet valve

## Air cooled

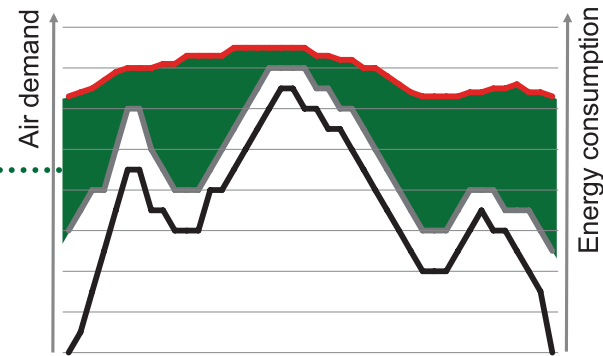
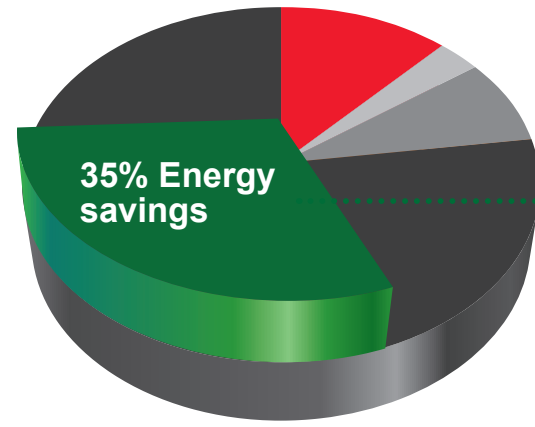
Model	Working Pressure		Motor Power		FAD		Noise Level	Dimensions	Weight	Connection
	Mpa		kW	HP	l/s	cfm	dB	L x W x H(mm)	kg	
CPVS 120	0.8		90	120	90-266	190-561	79	2259 x 1060 x 1594	1650	G2
	1				71-237	150-500				
CPVS 150	0.8		110	150	84-308	177-439	78	2259 x 1230 x 1600	2070	G2
	1				70-265	148-559				
CPVS 180	0.8		132	180	104-374	219-789	79	2259 x 1230 x 1600	2330	G2
	1				88-325	186-686				
CPVS220 PM	0.7-1		160	220	127-497	268-1052	78	2880 x 1754 x 1930	2890	DN80
CPVS270 PM	0.7-1		200	270	143-590	304-1250	80	3602 x 2104 x 2023	4110	DN100
CPVS340 PM	0.7-1		250	340	185-703	392-1490	80	3602 x 2104 x 2023	4280	DN100
CPVS151 PM	0.7-0.8		110	150	100-385	212-815	78	2880 x 1754 x 1930	2370	DN80
	1				98-317	208-671				
CPVS181 PM	0.7-0.8		132	180	100-450	212-953	78	2880 x 1754 x 1930	2410	DN80
	1				98-377	208-798				
CPVS221 PM	0.7-0.8		160	220	98-545	208-1154	80	3602 x 2104 x 2023	3260	DN100
	1				97-465	205-985				

## Water cooled

Model	Working Pressure		Motor Power		FAD		Noise Level	Dimensions	Weight	Connection
	Mpa		kW	HP	l/s	cfm	dB	L x W x H(mm)	kg	
CPVS 120	0.8		90	120	90-266	190-561	79	2259 x 1060 x 1594	2060	G2
	1				71-237	150-500				
CPVS 150	0.8		110	150	84-308	177-439	78	2255 x 1230 x 1600	2670	G2
	1				70-265	148-559				
CPVS 180	0.8		132	180	104-374	219-789	79	2255 x 1230 x 1600	2770	G2
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	1				98-377	208-798				
CPVS221 PM	0.7-0.8		160	220	98-545	208-1154	80	3602 x 2104 x 2023	3260	DN100
	1				97-465	205-985				

## We protect your efficiency

Energy costs represent about 70% of the total operating cost of your compressor over a 5 year period. That's why reducing the operating cost of a compressed air solution is a major focus. Variable frequency driven compressors can cut the energy bill of your compressor by up to 35%.



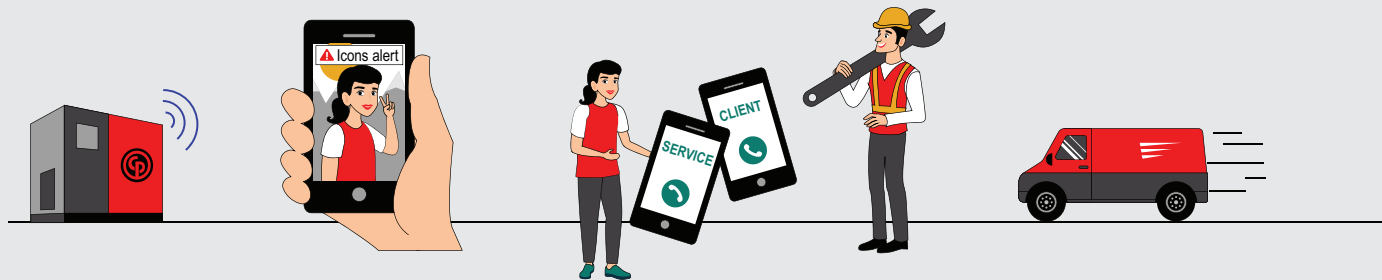
- 12% Investment
- 3% Installation
- 8% Service
- 77% Energy consumption
- Air demand
- Variable frequency driven costs
- Load/Unload costs
- Savings

## Complete your compressed air installation with an ICONS plan

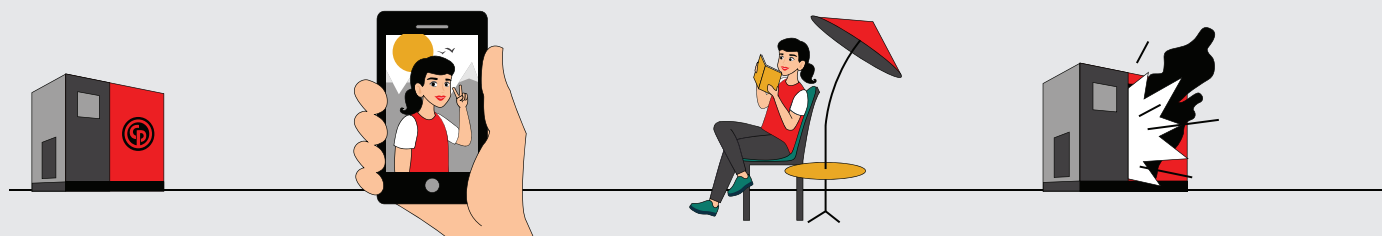
What if your compressor needs service or an immediate intervention?

With an ICONS plan, you get an alert from your controller delivered straight to your computer, tablet or smartphone. Wherever you are, you can take immediate action and reduce the risk of downtime and other costs.

With connectivity

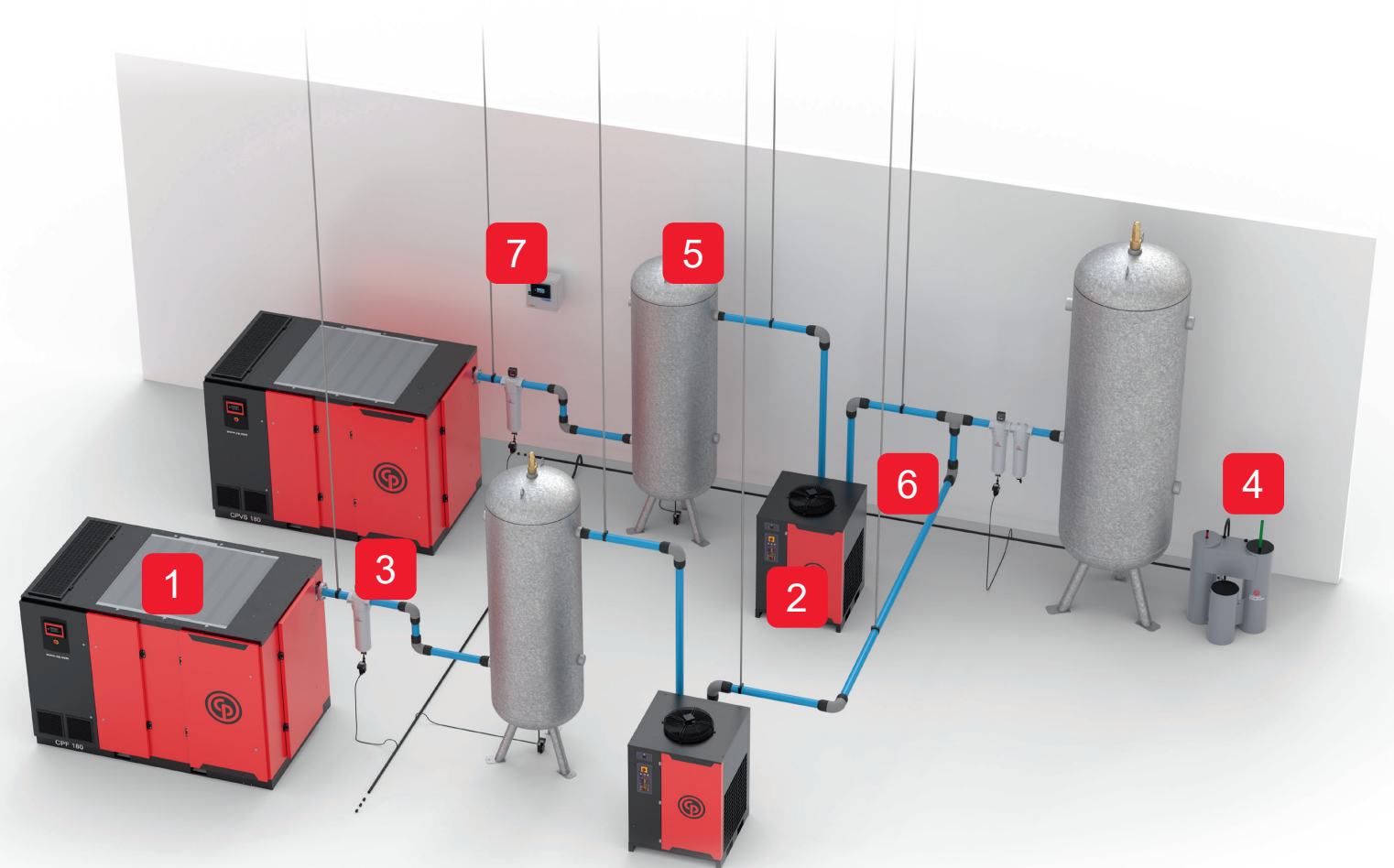


Without connectivity



## WE'VE GOT YOUR COMPRESSED AIR COVERED

Of course you want to get the most out of your CPF and CPVS. Extend the Chicago Pneumatic reliability and performance throughout your compressed air system.



- 1 Air compressor
- 2 Air dryer
- 3 Line filters
- 4 Oil separators
- 5 Air receiver buffer storage
- 6 Piping system
- 7 Central controller



At Chicago Pneumatic we have a passion for performance and long-lasting partnerships. Since 1901, we have been committed to reliability based on technology and trust.



**People. Passion. Performance.**

For more information, please contact your CP partner:

Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

[www.cp.com](http://www.cp.com)

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