

# Oil-injected Screw Compressor – 60Hz

Fixed speed CPM 60-100, CPD 60 G & CPE 75-95 G

Variable speed CPMV 60-100 & CPVS 60-95PM



**AIRPLUS**  
Industrial

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People.  
Passion.  
Performance.



**Chicago  
Pneumatic**

# FIXED SPEED COMPRESSOR

## CPM, CPD & CPE series 60-100HP/45-75kW

For Chicago Pneumatic, it isn't just about products. We value our end users' and distributors' **performance**, and do our ultimate best to make it easy to work with us while providing **reliable products with a passion**.

This is how we keep you productive at all times, meeting the needs of professionals in vehicle service, general industry and construction around the globe.  
**People. Passion. Performance.**

**Broad product portfolio**  
of robust compressors & tools

**Decades of experience**  
& innovation

**100% committed**  
distributor partnership



### Technical data

Model										
	Working pressure		Motor		Capacity*		Noise	Weight	Connection	Dimension
	Mpa	psig	kW	hp	l/s	cfm	dB(A)±2	KG	G	LxWxH (mm)
CPM60	0.7	100	45	60	128	271	72	866	1 1/2	1723x980x1600
	0.8	115			128	271				
	1.0	145			117	249				
	1.25	180			98	208				
CPM75	0.7	100	55	75	164	348	76	1221	2	1950x1090x1600
	0.8	115			155	328				
	1.0	145			142	301				
	1.25	180			122	258				
CPM100	0.7	100	75	100	218	461	77	1285	2	1950x1090x1600
	0.8	115			211	446				
	1.0	145			185	393				
	1.25	180			153	325				

Model										
	Working pressure		Motor		Capacity*		Noise**	Weight	Connection	Dimension
	Mpa	psig	kW	hp	l/s	cfm	dB(A)±2	KG	G	LxWxH (mm)
CPD60 G	0.7	100	45	60	134	283	70	906	1 1/2	1723x980x1600
	0.8	115			133	282				
	1.0	145			115	244				
	1.25	180			98	207				
CPE75 G	0.7	100	55	75	180	381	74	1460	2	2259x1060x1594
	0.8	115			173	366				
	1.0	145			146	309				
	1.25	180			131	278				
CPE95 G	0.7	100	75	100	236	501	75	1535	2	2259x1060x1594
	0.8	115			230	486				
	1.0	145			204	433				
	1.25	180			170	359				

\* Unit performance measured according to ISO 1217. Annex C. latest edition. \*\* Mean sound level according to ISO 2151.

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## Separate coolers

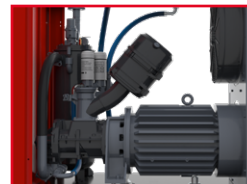
Separate oil and air cooler for high-quality cooling. Perfect work at 46°C ambient temperature



1

## Chicago Pneumatic in-house design element

Guarantee the quality of compressed air and efficient operation



2

## High efficiency air filter

Low pressure drop, less noise and 99.9% removal efficiency at 3µm solid particles



3

## Integrated fan

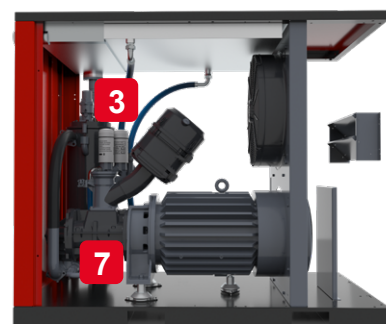
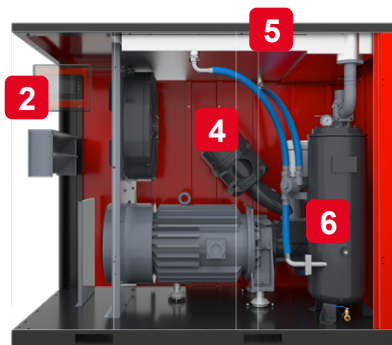
Start/stop coordinated by controller in accordance with the oil temperature



## High performance components made for CPM, CPD & CPE series

Pioneering components make for a revolutionary range

- |                    |                          |
|--------------------|--------------------------|
| 1 Filtration panel | 5 Air cooler, Oil cooler |
| 2 Controller       | 6 Oil-separator vessel   |
| 3 Oil filter       | 7 Screw element          |
| 4 Air filter       |                          |





# VARIABLE SPEED COMPRESSOR

## CPMV & CPVS PM 60-100Hp/45-75kw



### Excel at operational efficiency and performance

Continuous investment in product development has resulted in our most innovative and energy efficient compressor to date. Designed with the customer in mind, the CPMV & CPVS range delivers premium performance at a minimal energy cost.

With the CPMV & CPVS, reliable productivity becomes a given. Maintenance-free components enable higher uptime and consumables with a long lifetime ensure low total cost of ownership. Last but not least, this range offers you peace of mind, packaged in a proven canopy design with already thousands of installations around the globe.



### Technical data

Model										
	Pressure		Motor		Capacity*		Noise	Weight	Connection	Dimension
	Mpa	psig	kW	hp	l/s	cfm	dB(A)±2	KG	G	LxWxH (mm)
CPMV60	0.7-1.0	100-145	45	60	28-142	60-300	74	750	1 1/2	1723x980x1600
CPMV75	0.7-1.0	100-145	55	75	30-183	63-388	76	920	2	1920x1060x1600
CPMV100	0.7-1.0	100-145	75	100	43-218	92-462	78	980	2	1920x1060x1600

Model										
	Pressure		Motor		Capacity*		Noise	Weight	Connection	Dimension
	Mpa	psig	kW	hp	l/s	cfm	dB(A)±2	KG	G	LxWxH (mm)
CPVS60 PM	0.7-1.3	100-190	45	60	33-145	69-307	71	733	1 1/2	1723x980x1600
CPVS75 PM	0.7-1.3	100-190	55	75	27-189	57-401	72	932	2	2210x1060x1600
CPVS95 PM	0.7-1.3	100-190	75	100	28-222	59-469	77	973	2	2210x1060x1600

\* Unit performance measured according to ISO1217. Annex C. latest edition and ISO 2151.

1

## Imperium inverter

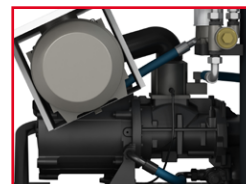
In-house designed Imperium inverter ensures perfect match between air demand and air supply.



2

## Drive train

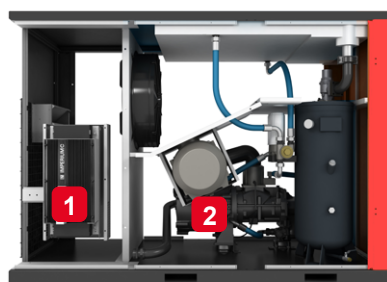
Reliable and high efficiency drive train: unique design, lower fabrication to reduce energy loss and optimize operation cost



3

## ES4000T controller

Easy-to-use, graphical touch screen display with integrated connectivity to optimize and save energy



1 Imperium inverter

2 Drive train

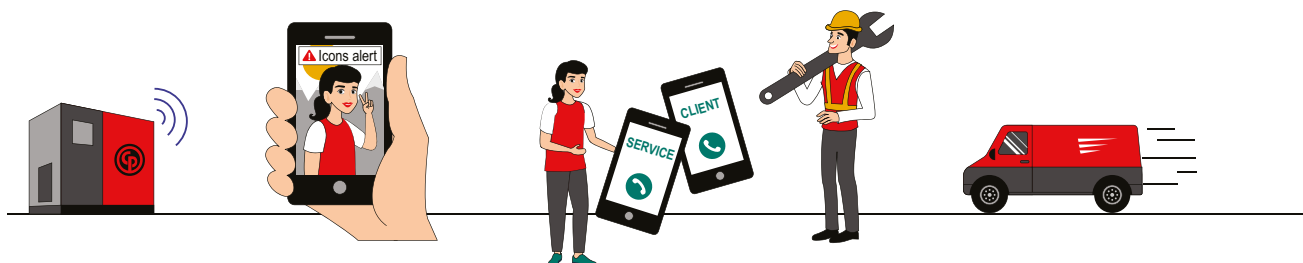
# Complete your compressed air installation with an ICONS plan

What if your compressor needs service or an immediate intervention?

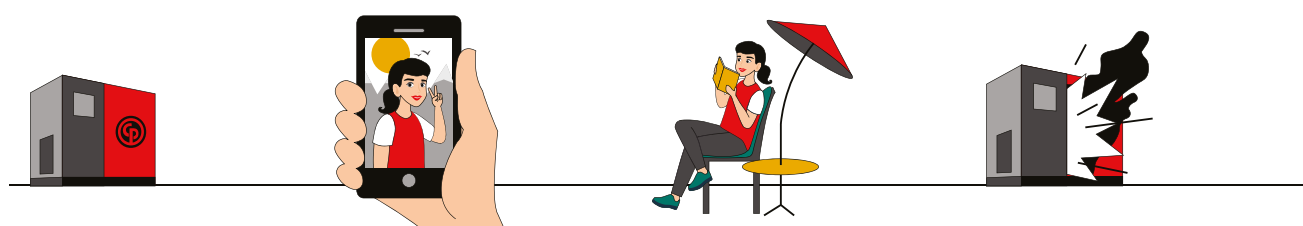
With an ICONS plan, you get an alert from your controller delivered straight to your computer, tablet or smartphone. Wherever you are, you can take immediate action and reduce the risk of downtime and other costs.



## With connectivity



## Without connectivity



# A TOTAL SOLUTION FOR YOUR QUALITY AIR

## Upgrade CPVS PM with built-in options

### Revolutionary drive train technology

#### Improved energy efficiency saves you money

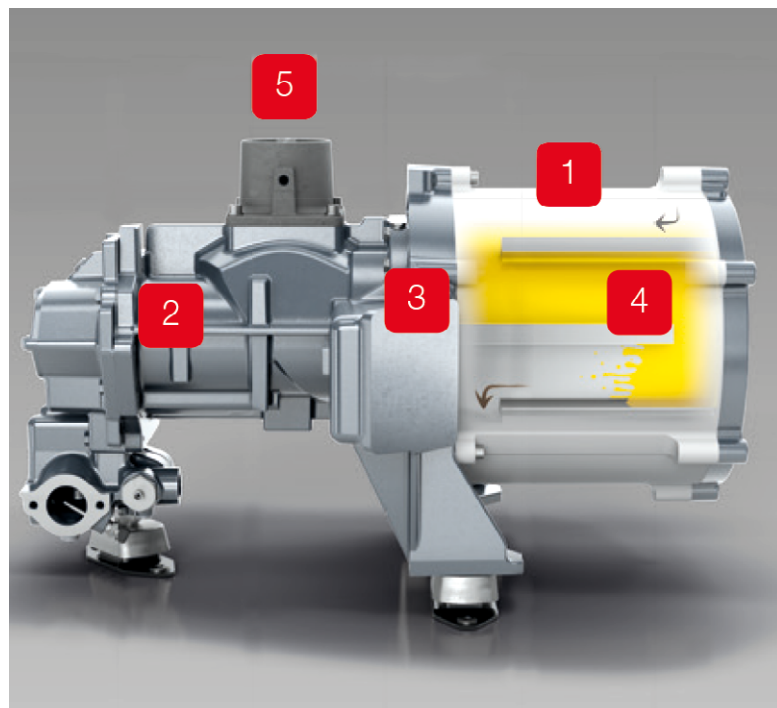
- In-house designed iPM motor with iPM Super Premium Efficiency
- New generation in-house designed screw elements, with improved efficiency
- Integrated direct drive transmission for minimal losses.
- Smart inlet valve optimizes the inlet flow and improves efficiency

#### Increased reliability extends lifetime

- iPM motor rated IP66, premium protection against dust and water ingress
- Globally renowned screw elements, proven in thousands of installations.
- Optimal cooling at all speeds and conditions thanks to oil-cooling principle of the iPM motor.

#### Maintenance-free design minimizes downtime and improves your productivity

- Coupling-free direct drive design, no maintenance needed.
- Smart inlet valve, no maintenance needed.



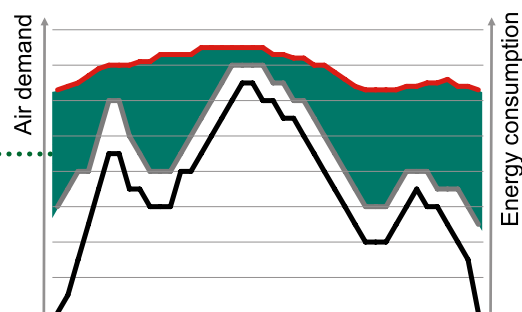
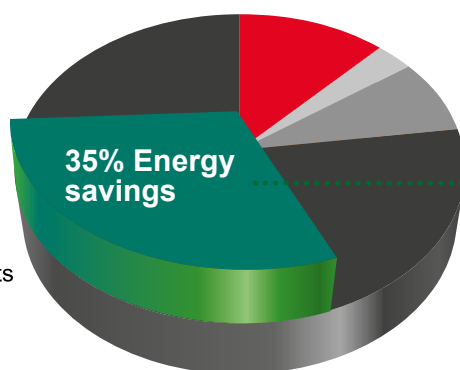
- 1 iPM motor
- 2 In-house designed screw elements
- 3 Direct drive
- 4 Oil-cooling
- 5 Smart inlet value

### 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



## Air quality

- Automatic drain – ensures no air loss during condensate removal.
- Tropical thermostatic valve – for use in humid and hot conditions.
- High-efficiency air intake pre-filtration panel – avoids dust entering the compression element, protecting internal components and extending the compressor lifetime.
- Refrigerant dryer – removes water condensate from the compressed air, minimizing the risk of product spoilage in your application.

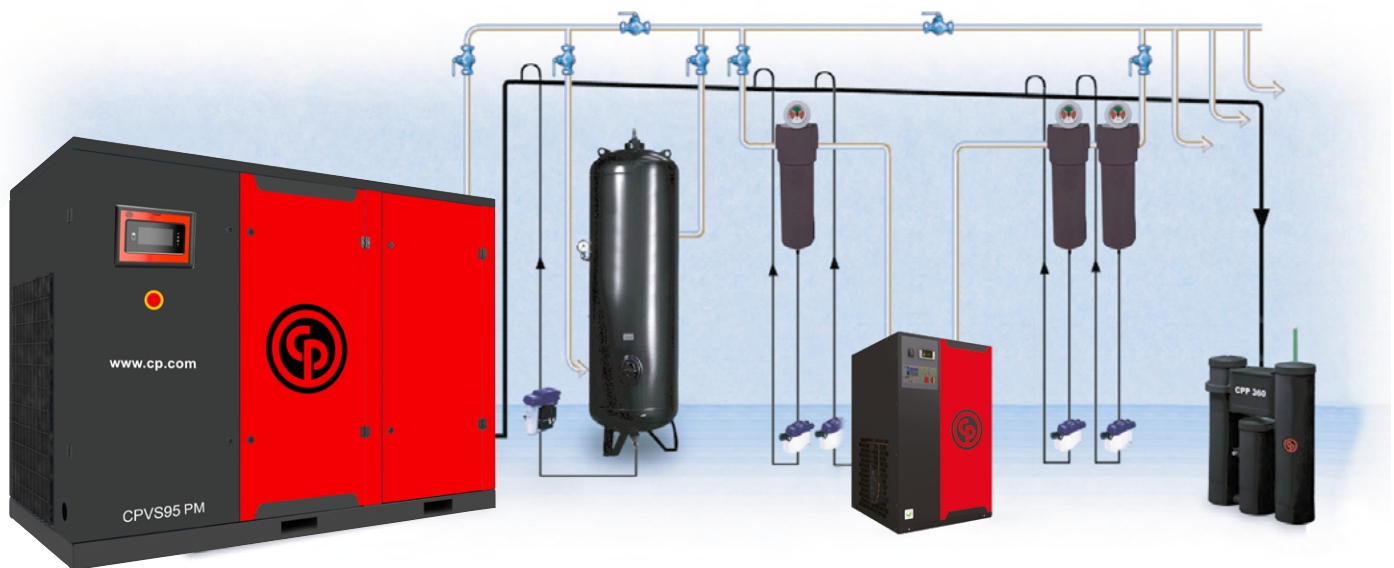
## Energy saving

- ECO6i – integrated multiple compressor control for up to 6 compressors reduces system pressure and energy consumption.

## Safety

- Water shut-off valve outside the canopy – for water-cooled machines.
- Oil pre-heater – guarantees a certain oil temperature in the oil vessel to avoid condensation.

## Compressor Station Layout



## Line Filters

- Purify the compressed air by eliminating oil/dust contaminants resulting in higher final product quality and an increase of your overall productivity.

## Air Receiver

- Buffer storage for compressed air. Helps with condensate separation, pressure stabilization and more efficient operation of the compressor.

## Oil Water Separator

- Captures the oil in compressor condensate so it can be disposed of in a safe and environment-friendly way.

## AIRnet

- Fast to install, reliable piping system, designed for compressed air applications offers lowest total cost of ownership.

