# Oil-injected Screw Compressor – 60Hz

Fixed speed CPM60-180 & CPD60 G-CPE120
Variable speed CPMV60-180 PM & CPVS60-120 PM

People. Passion. Performance.

Chicago Pneumatic

**CPM60-180/45-132kW**
**CPD60 G-CPE120/45-90kW series**

# FIXED SPEED COMPRESSOR

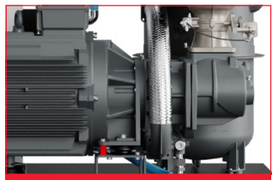
For Chicago Pneumatic, it isn't just about products.
We value our end users' and distributors' performance, and do our ultimate best to make it easy to work with us while providing reliable products with a passion.

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.

## Separate coolers

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



## Chicago Pneumatic in-house design element

Guarantee the quality of compressed air and efficient operation

## High efficiency air filter

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

## Larger oil filtration

Larger oil filtration ability by up-and-down positioning oil filters, new clip type design effect to fast maintenance

## Technical data

| Model | Working Pressure | | Motor Power | | Capacity FAD* | | Noise Level | Dimensions | Weight | Connection |
|---|---|---|---|---|---|---|---|---|---|---|
| | mpa | psig | kW | hp | l/s | cfm | dB(A) | L x W x H(mm) | kg | Size |
| CPM60 | 0.7 | 100 | 45 | 60 | 128 | 271 | 72 | 1723x980x1600 | 866 | G1 1/2" |
| | 0.8 | 115 | | | 128 | 271 | | | | |
| | 1 | 145 | | | 117 | 249 | | | | |
| | 1.25 | 180 | | | 98 | 208 | | | | |
| CPM75 | 0.7 | 100 | 55 | 75 | 172 | 364 | 76 | 1656x1089x1840 | 1100 | G2" |
| | 0.8 | 115 | | | 161 | 340 | | | | |
| | 1 | 145 | | | 143 | 303 | | | | |
| CPM100 | 0.7 | 100 | 75 | 100 | 227 | 481 | 75 | 1756x1089x1840 | 1285 | G2" |
| | 0.8 | 115 | | | 214 | 454 | | | | |
| | 1 | 145 | | | 194 | 412 | | | | |
| CPM120 | 0.7 | 100 | 90 | 120 | 279 | 590 | 76 | 1756x1089x1840 | 1400 | G2" |
| | 0.8 | 115 | | | 265 | 561 | | | | |
| | 1 | 145 | | | 236 | 501 | | | | |
| CPM150 | 0.7 | 100 | 110 | 150 | 345 | 731 | 81 | 2061x1326x2000 | 1725 | DN80 |
| | 0.8 | 115 | | | 328 | 695 | | | | |
| | 1 | 145 | | | 293 | 620 | | | | |
| | 1.25 | 180 | | | 262 | 554 | | | | |
| CPM180 | 0.7 | 100 | 132 | 180 | 407 | 862 | 81 | 2061x1326x2000 | 2015 | DN80 |
| | 0.8 | 115 | | | 382 | 809 | | | | |
| | 1 | 145 | | | 343 | 726 | | | | |
| | 1.25 | 180 | | | 306 | 649 | | | | |

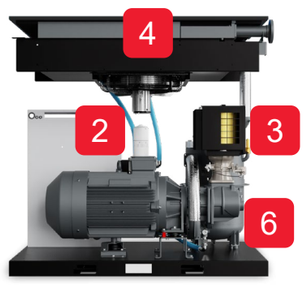
| Model | Working Pressure | | Motor Power | | Capacity FAD* | | Noise Level | Dimensions | Weight | Connection |
|---|---|---|---|---|---|---|---|---|---|---|
| | mpa | psig | kW | hp | l/s | cfm | dB(A) | L x W x H(mm) | kg | Size |
| CPD60 G | 0.7 | 100 | 45 | 60 | 134 | 283 | 70 | 1723x980x1600 | 906 | G1 1/2" |
| | 0.8 | 115 | | | 133 | 282 | | | | |
| | 1 | 145 | | | 115 | 244 | | | | |
| | 1.25 | 180 | | | 98 | 207 | | | | |
| CPE75 | 0.7 | 100 | 55 | 75 | 187 | 396 | 76 | 1656x1089x1840 | 1110 | G2" |
| | 0.8 | 115 | | | 177 | 375 | | | | |
| | 1 | 145 | | | 153 | 325 | | | | |
| | 1.25 | 180 | | | 138 | 292 | | | | |
| CPE100 | 0.7 | 100 | 75 | 100 | 248 | 526 | 75 | 1756x1089x1840 | 1295 | G2" |
| | 0.8 | 115 | | | 235 | 498 | | | | |
| | 1 | 145 | | | 204 | 433 | | | | |
| | 1.25 | 180 | | | 175 | 370 | | | | |
| CPE120 | 0.7 | 100 | 90 | 120 | 282 | 598 | 76 | 1756x1089x1840 | 1300 | G2" |
| | 0.8 | 115 | | | 269 | 570 | | | | |
| | 1 | 145 | | | 240 | 508 | | | | |
| | 1.25 | 180 | | | 207 | 438 | | | | |

**Unit performance measured according to ISO 1217. Annex C. latest edition and ISO 2151.*

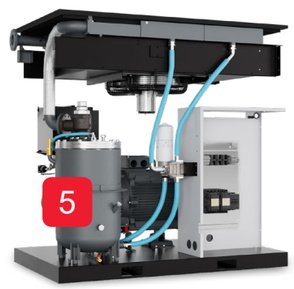
## High performance components made for CPM, CPD & CPE series

Pioneering components make for a revolutionary range

1 Controller
2 Oil filter




3 Air filter
4 Air cooler, Oil cooler




5 Oil-separator vessel
6 Screw element

**CPMV60-180 PM/45-132kW**
**CPVS60-120 PM/45-90kW**

# VARIABLE SPEED COMPRESSOR

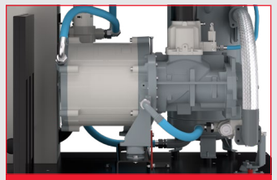
## Excel at operational efficiency and performance

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 PM & CPVS PM range delivers premium performance at a minimal energy cost.

With the products, 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.

### Imperium inverter

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

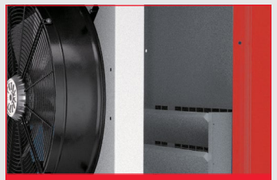


### Oil-cooled PM drive train

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

### ES4000T controller

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



### Integrated fan

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

## Technical data

| Model | Working Pressure | | Motor Power | | Capacity FAD* | | Noise Level | Dimensions | Weight | Connection |
|---|---|---|---|---|---|---|---|---|---|---|
| | mpa | psig | kW | hp | l/s | cfm | dB(A) | L x W x H(mm) | kg | Size |
| **CPMV60 PM** | 0.7-0.85<br>1.00-1.05 | 102-123<br>145-152 | 45 | 60 | 41.5-142<br>43-113 | 88-300<br>91-240 | 72 | 1264x1197x1500 | 530 | G1 1/2" |
| **CPMV75 PM** | 0.70-0.85<br>1.00-1.05 | 100-123<br>145-152 | 55 | 75 | 43-183<br>38-157 | 92-388<br>81-332 | 76 | 1656x1089x1840 | 840 | G2" |
| **CPMV100 PM** | 0.70-0.85<br>1.00-1.05 | 100-123<br>145-152 | 75 | 100 | 52-210<br>47-182 | 109-445<br>99-385 | 80 | 1656x1089x1840 | 865 | G2" |
| **CPMV120 PM** | 0.70-0.85<br>1.00-1.05 | 100-123<br>145-152 | 90 | 120 | 67-288<br>60-240 | 141-611<br>127-509 | 78 | 1756x1089x1840 | 1080 | G2" |
| **CPMV150 PM** | 0.70-0.85<br>1.00-1.30 | 100-123<br>145-189 | 110 | 150 | 87-340<br>102-287 | 184-720<br>215-607 | 81 | 2061x1326x2000 | 1490 | DN80 |
| **CPMV180 PM** | 0.70-0.85<br>1.00-1.30 | 100-123<br>145-189 | 132 | 180 | 98-402<br>102-340 | 208-851<br>215-720 | 81 | 2061x1326x2000 | 1580 | DN80 |

| Model | Working Pressure | | Motor Power | | Capacity FAD* | | Noise Level | Dimensions | Weight | Connection |
|---|---|---|---|---|---|---|---|---|---|---|
| | mpa | psig | kW | hp | l/s | cfm | dB(A) | L x W x H(mm) | kg | Size |
| **CPVS60 PM** | 0.70-1.30 | 100-190 | 45 | 60 | 33-145 | 69-307 | 71 | 1723x980x1600 | 733 | G1 1/2" |
| **CPVS75 PM** | 0.70-0.85<br>1.00-1.30 | 100-123<br>145-189 | 55 | 75 | 45-188<br>40-162 | 95-399<br>85-343 | 76 | 1656x1089x1840 | 825 | G2" |
| **CPVS95 PM** | 0.70-0.85<br>1.00-1.30 | 100-123<br>145-189 | 75 | 100 | 53-215<br>43-185 | 113-456<br>92-392 | 80 | 1656x1089x1840 | 840 | G2" |
| **CPVS100 PM** | 0.70-0.85<br>1.00-1.30 | 100-123<br>145-189 | 75 | 100 | 58-250<br>48-213 | 124-530<br>102-452 | 77 | 1756x1089x1840 | 1035 | G2" |
| **CPVS120 PM** | 0.70-0.85<br>1.00-1.30 | 100-123<br>145-189 | 90 | 120 | 70-300<br>55-255 | 148-636<br>117-540 | 77 | 1756x1089x1840 | 1065 | G2" |

**Unit performance measured according to ISO 1217. Annex C. latest edition and ISO 2151.*

## 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**

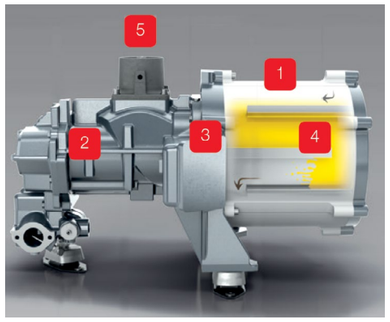
**Without connectivity**

# A TOTAL SOLUTION FOR YOUR QUALITY AIR

## Revolutionary Drive Train Technology

### Improved energy efficiency saves your money

- In-house designed oil-cooled PM motor with 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




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

### Increased reliability extends lifetime

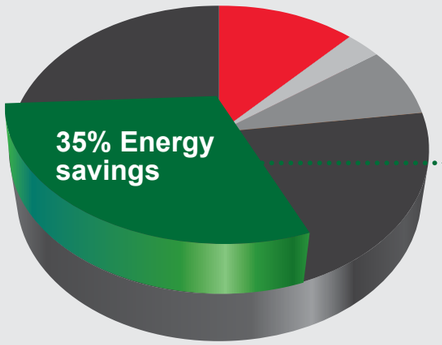
- Oil-cooled PM motor rated IP66, premium protection against dust and water ingress
- Globally renowned screw elements, proven in thousands of installations.
- Optimal cooling at all speeds and conditions thanks to oil-cooling principle of the oil-cooled PM motor.

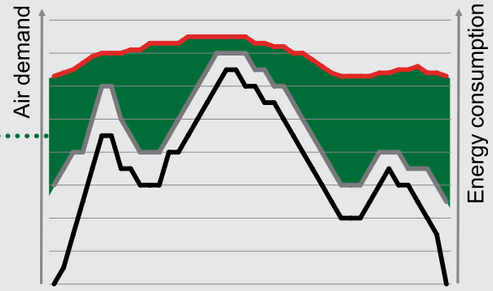
### Maintenance-free design minimizes downtime and improves your productivity

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

## 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.

### Oil Water Separator

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

### Air Receiver

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

### AIRnet

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

Chicago Pneumatic

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.

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