

Screw Compressors

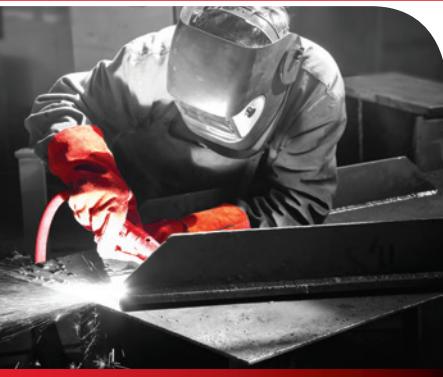
Variable speed - Direct driven
CPVS 60-95 PM



People.
Passion.
Performance.

 Chicago
Pneumatic

People. Passion. Performance.



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**.

- **Broad product portfolio** of robust compressors & tools
- **Decades of experience & innovation**
- **100% committed** distributor partnership

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.**



Innovating where it matters most.

Compressed air drives your processes and with it, the operational efficiency and performance of your company. With this principle in mind, Chicago Pneumatic has designed the CPVS PM, a range of variable speed, oil-injected screw compressors with iPM motor technology to offer your business a compressed air solution that adds value and saves you money at the same time.

A leap in energy efficiency

INVERTER DRIVEN WITH iPM MOTOR TECHNOLOGY

Noise level		Silent: 70-75 dB(A)
FAD		3480 - 11520 l/min
Power		45 - 75 kW 60 - 100 hp
Pressure		8 - 13 bar 125 - 175 psi

User benefits

- Energy savings up to 45%
- Reliable productivity & operational efficiency
- A peace of mind investment
- User-friendly operation & maintenance
- Easy installation



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Why energy efficiency?

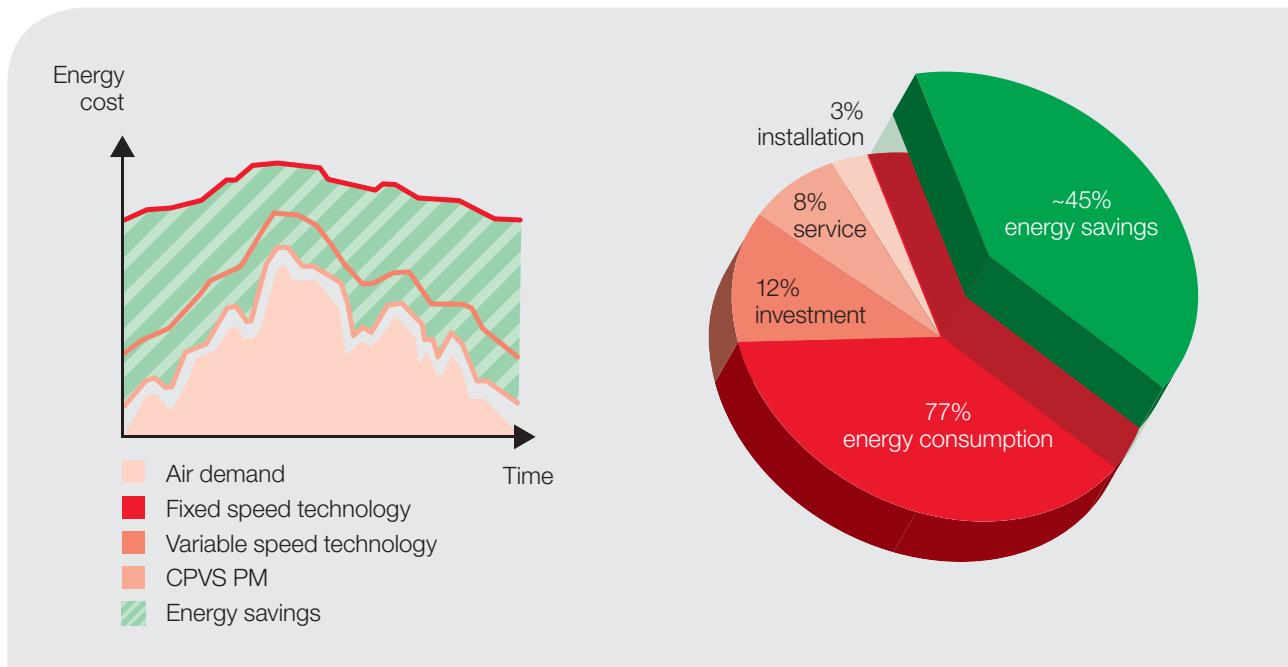
Energy costs represent about 70% of the total operating cost of your compressor over a 5-year period. Therefore reducing the energy consumption of your compressed air installation should be a major focus to ensure the lowest cost of ownership.

Why variable speed compressors?

As a majority of customers have a variable demand for compressed air, variable speed compressors are proven to be superior to fixed speed compressors when it comes to reducing the energy costs. By matching the air supply to the air demand, unload losses are avoided, and energy costs reduced on average by 30%.

Why invest in CPVS PM?

In the CPVS PM range we have combined our Imperium variable speed technology with our new and highly efficient drive train with iPM motor technology and evolved the energy efficiency of variable speed compressors to a new level, resulting in energy savings of up to 45%.



How much energy could you save in your existing compressor installation?

Contact us for an energy audit. We will measure the air demand and energy consumption of your existing installation and generate a detailed report at the end. Based on your specific situation we can simulate and show how much your energy costs would reduce with a CPVS PM. If you would decide to invest in a CPVS PM, you can expect a typical payback of 1-2 years.

Inverter driven with iPM motor technology

CPVS PM Series 45 - 75 kW / 60 - 100 HP



Excel at operational efficiency and performance

Continuous investment in product development has resulted in our most innovative and energy efficient compressor to date. A groundbreaking drive train coupled with our Imperium inverter has pushed energy efficiency to the next level, bringing energy savings of up to 45%. Designed with the customer in mind, the CPVS PM range delivers premium performance at a minimal energy cost.

With the CPVS PM, 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.



iPM Motor

In-house designed interior permanent magnet motor with IE4 efficiency. Oil-cooled for optimal cooling at all speeds.



Imperium inverter

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



Separate coolers

Separate oil and air cooler for high-quality cooling and long lifetime of the coolers.



Radial fan

Highly efficient and low noise radial fan as standard.



ES4000T Controller

Easy-to-use, graphical touchscreen display with integrated connectivity (IICONS) to optimize and save energy.



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Pioneering components make for a revolutionary range

- | | | | |
|---------------------|---------------|-------------------------|-------------------|
| 1. Filtration panel | 4. Air filter | 7. Inverter | 10. Radial fan |
| 2. Controller | 5. Air cooler | 8. Integrated dryer | 11. Screw element |
| 3. Oil filter | 6. Oil cooler | 9. Oil-separator vessel | 12. iPM Motor |

Technical Table

Type	HP	kW	Bar	l/min (min)	l/min (max)	dB(A)	kg	L x W x H (mm)
Base mounted 400/3/50 + Inverter*								
CPVS 60 PM	60	45	4-13	1800	9120	69	860	1761 x 1060 x 1630
CPVS 75 PM	75	55	4-13	1740	11040	71	880	1761 x 1060 x 1630
CPVS 95 PM	100	75	4-13	1680	13200	71	900	1761 x 1060 x 1630

* Units with integrated dryer available. For specifications, please consult your local sales representative.
All units are also available in 60Hz, please contact your local sales representative for more information.

Upgrade CPVS PM with built-in options

Air quality

- Internal water separator - reduces up to 90% of the condensate in the compressed air.
- Automatic drain - ensures no air loss during condensate removal (only in combination with internal water separator).
- 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.
- Integrated refrigerant dryer - removes water condensate from the compressed air, minimizing the risk of product spoilage in your application.

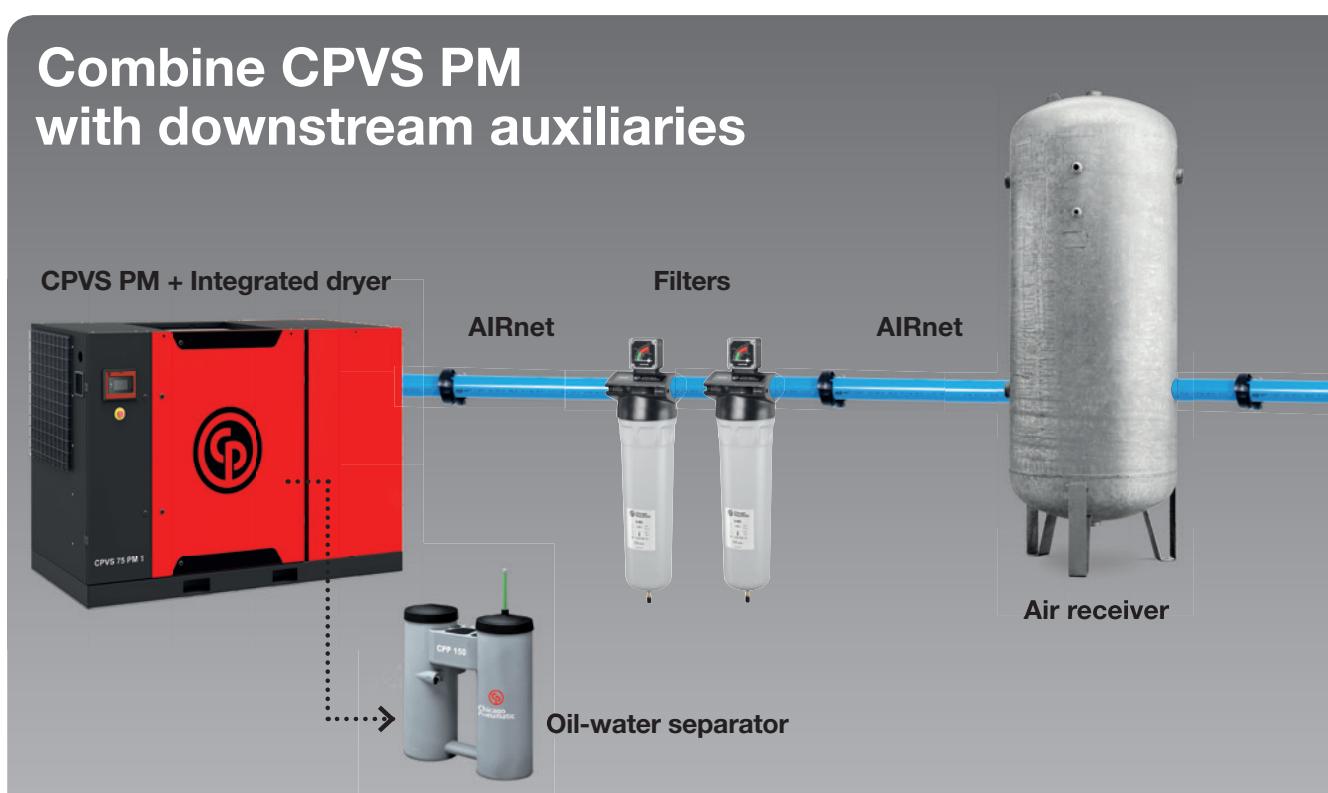
Energy saving

- Integrated energy recovery - recovers up to 75% of the heat energy formed during the compression process, which can be used to heat up water for boilers, showers etc.
- 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.

Combine CPVS PM with downstream auxiliaries



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.



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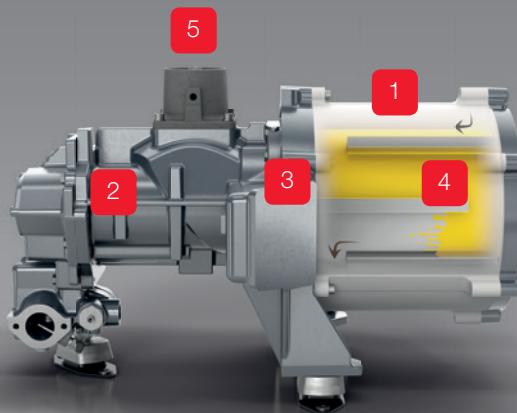
Revolutionary drive train technology

Improved energy efficiency saves you money

- In-house designed iPM motor (1) with IE4 Super Premium Efficiency
- New generation in-house designed screw elements (2), with improved efficiency
- Integrated direct drive transmission (3) for minimal losses.
- Smart inlet valve (5) optimizes the inlet flow and improves efficiency

Increased reliability extends lifetime

- iPM motor (1) rated IP66, premium protection against dust and water ingress
- Globally renowned screw elements (2), proven in thousands of installations.
- Optimal cooling at all speeds and conditions thanks to oil-cooling principle (4) of the iPM motor (1).



Maintenance-free design minimizes downtime and improves your productivity

- No (re)grease(ing) of the motor (1) bearing needed.
- Coupling-free direct drive design (3), no maintenance needed.
- Smart inlet valve (5), no maintenance needed.

SCOPE XT

How do you get the most out of your compressor in the most cost-effective way? The simple answer is: SCOPE XT, the service plan that makes your life easy, keeps your compressor running energy-efficiently and avoids breakdowns. If you have just purchased a new machine, SCOPE XT provides an extending warranty up to 5 years. You do not have to worry about unexpected repair costs: it is all part of the plan!



Save energy

Original parts are replaced on time, ensuring optimal efficiency and reducing energy costs, for the whole period between service visits.



One order

Instead of ordering and paying for every individual spare part and service, one orders all you need.



Control budget

SCOPE XT offers full transparency, as the costs are fixed for the duration of the agreement.



Flexibility on top

You can decide how long you want the agreement to run and you can cancel with a notice of termination.

"SCOPE customers have on average 2 weeks of extra operation per year due to increased machine availability!"

Chicago Pneumatic: full offer, global presence



Piston compressors



Screw compressors



Industrial & vehicle service tools



Portable compressors & generators



Construction equipment



ORIGINAL PART

Care. Trust. Efficiency.

Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

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