

**CPM 10-20 &
CPM 10-20 VS
oil-injected screw
compressors**



People. Passion. Performance.



CPM 10-20 FIX SPEED

Compressed air powers countless industries, making the choice of compressor a critical decision for your business

Our **CPM 10-20 range** offers a robust, belt-driven, oil-injected screw compressor designed for reliability and long-term performance. This first-class solution can be easily configured with an air receiver, refrigerant dryer, and pre-filter—providing a compact, all-in-one system tailored to your needs. Baked by Chicago Pneumatic's ongoing investment in innovation and quality, the **CPM 10-20 series** has earned its legendary reputation over the years. It's a trusted choice that delivers peace of mind and consistent results.

Bring fresh air into your operations and experience the simplicity, performance, and reliability that only CPM 10-20 can offer.

A complete solution

Compact, all-in-one design

- Base-mounted unit fits in less than 1 m²
- Available with air receiver
- Optional integrated dryer and pre-filter

Ready for transport

- Fully protected for safe and easy handling
- No special foundation required

Quiet and low vibration

- Operates with minimal noise and vibration
- Ideal for installation close to the point of use

Legendary reliability

Engineered for endurance

- Built with premium components
- New-generation rotary screw element supports 100 % duty cycle
- Designed for demanding environments

Optimized cooling

- Oversized ventilation system ensures low internal temperatures
- Reliable operation in ambient temperatures up to 46 °C (115 °F)



Easy maintenance & accessibility

User-friendly design

- All service points accessible from the front
- Oil-level sight glass visible without removing panels
- Quick checks and diagnostics via intuitive controller
- Maintenance and cleaning can be done by a single person

Cost efficiency

Low total cost of ownership

- Durable, reliable design minimizes downtime
- Long service intervals reduce maintenance needs
- Energy-efficient IE3 motors and advanced screw elements
- High-performance lubrication and cooling systems

High-quality air delivery

Integrated air treatment package

- Units mounted on an air receiver can be equipped with a complete air treatment system, including a **refrigerant dryer** and **pre-filter**

Clean, dry air for demanding applications

- This package ensures the delivery of **dry and ultra-clean compressed air**, making it ideal for even the most sensitive and demanding industrial processes

Components



- 1 Controller
- 2 Emergency stop
- 3 PDP controller
- 4 Dryer switch
- 5 Oil cooler
- 6 Oil separator vessel
- 7 Oil filter and oil separator
- 8 Oil level sight glass
- 9 Electric motor
- 10 Belt drive system
- 11 Compressor element
- 12 Refrigerant dryer
- 13 Safety valve

Optional and standard features

Description	Factory	Sales
OIL 8000 H	✓	✗
FOOD GRADE OIL 10	✓	✗
270 L AIR RECEIVER	✓	✗
500 L AIR RECEIVER	✓	✗
270 L AIR RECEIVER + REFRIGERANT DRYER	✓	✗
500 L AIR RECEIVER + REFRIGERANT DRYER	✓	✗
270 L AIR RECEIVER + REFRIGERANT DRYER + PRE FILTER	✓	✗
500 L AIR RECEIVER + REFRIGERANT DRYER + PRE FILTER	✓	✗
TIMER DRAIN ON AIR RECEIVER	✓	✗
STIRRUPS FOR TRANSPORT	✓	✗
WOODEN CRATE	✓	✗

✓ = available ✗ = not available

TECHNICAL SPECIFICATIONS

CPM 10-20

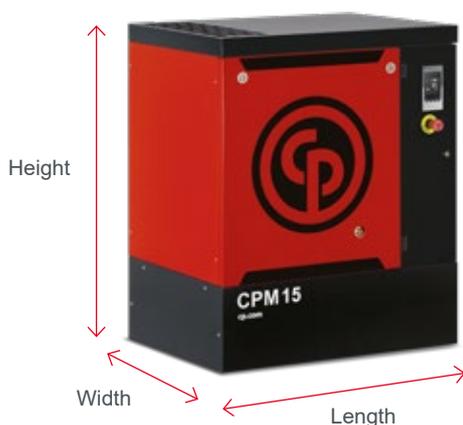
Model	Max. working pressure	Free Air Delivery @ reference conditions*			Motor power		Noise level **	Weight			
								Base Mounted	Tank Mounted 270 L	Tank Mounted Dryer 270 L	Tank Mounted Dryer and Filter 270 L
bar	m³/h	l/s	cfm	kW	hp	db(A)					
CPM 10	8	68,4	19	40,3							
	10	59,8	16,6	35,2	7,5	10	65	170	217	250	255
	13	46,8	13	27,5							
CPM 15	8	97,2	27	57,2	11	15	69	185	232	265	270
	10	85	23,6	50							
	13	69,1	19,2	40,7							
CPM 20	8	111,6	31	65,7							
	10	100,8	28	59,3	15	20	71	200	247	280	285
	13	79,9	22,2	47							

Dimensions

	Dimensions (mm)		
	Length	Width	Height
Base Mounted	855	655	1062
Tank Mounted 270 L	1540	655	1550
Tank Mounted 500 L	1875	655	1680

* Unit performance measured according to ISO 1217, Annex C, latest edition

** Noise level measured according to ISO 2151:2004 using ISO 9614/2



CPM 10-20 VS (PM)

Comparing a fixed speed compressor to a VSD model makes sense — but when it comes to belt-driven units, the investment gap has always made the switch hard to justify. Until now.

Our new **CPM 10-20 VS** range breaks that barrier: it delivers all the benefits of Variable Speed Drive technology — including energy savings, reduced wear and tear, and improved efficiency — at an investment level that finally speaks to fixed speed users. It's a smarter, quieter, and more efficient solution that fits the needs and budgets of small and medium businesses. With sizes from **7.5 to 15 kW**, the **CPM 10-20 VS** is your smart next step into the Future of compressed air. CPM 10-20 VS consists of PM motor technology with direct drive and in-house design airend brings energy efficiency for every investment opportunity. From small workshops to big factories which need small power-sized compressors CPM 10-20 VS will bring energy efficiency without a big initial investment cost. The jointless oil-cooled motor ensures optimal performance and durability, even in demanding conditions. By using oil to dissipate heat directly from the motor, it maintains lower operating temperatures, improves energy efficiency, and extends component lifetime. The result? Reliable operation and consistent performance over time.



Did you know that energy accounts for over 70 % of the total cost of owning and operating a compressor?

That's why the CPM 10-20 VS with Permanent Magnet (PM) technology is designed—to help you cut those costs significantly. Unlike traditional compressors that run at a constant speed (always 100 % on), the CPM VS intelligently adjusts its motor speed to match the actual air demand. Since most production environments experience fluctuating air needs, this smart adaptation leads to **energy savings of up to 45 %**. What does that mean for you? **You can recover the additional investment in a CPM 10-20 VS—compared to a fixed-speed compressor—in as little as one year.**

Smart, efficient, and cost-effective—now that's an easy decision.

Benefits of CPM 10-20 VS

- Up to 45 % energy saving PM technology within-house designed airend
- IE4 motor efficiency
- Oil-cooled, IP54 motor ensures reliability in dusty and humid conditions
- Reliable operation, even in ambient temperatures up to 46 °C
- Pressure range between 4 and 10 bar
- Small footprint
- Low noise
- ES 4000 Connect controller

PREMIUM COMPRESSION TECHNOLOGY

Oil-cooled IE4 efficiency and Class H Interior Permanent Magnet (IPM) motor:

maintenance free; includes innovative oil-cooling technology for optimal performance in up to 46 °C.

IP54 electrical cubicle:

ideal for harsh environment it can withstand up to 60 °C with the highest standards in EMC performance.



In-house designed compression element:

gives you best-in-class free air delivery and specific energy requirement.

Drive train:

all-new conical coupling design for fast maintenance on the drive train.

Oversized coolers and oil vessel:

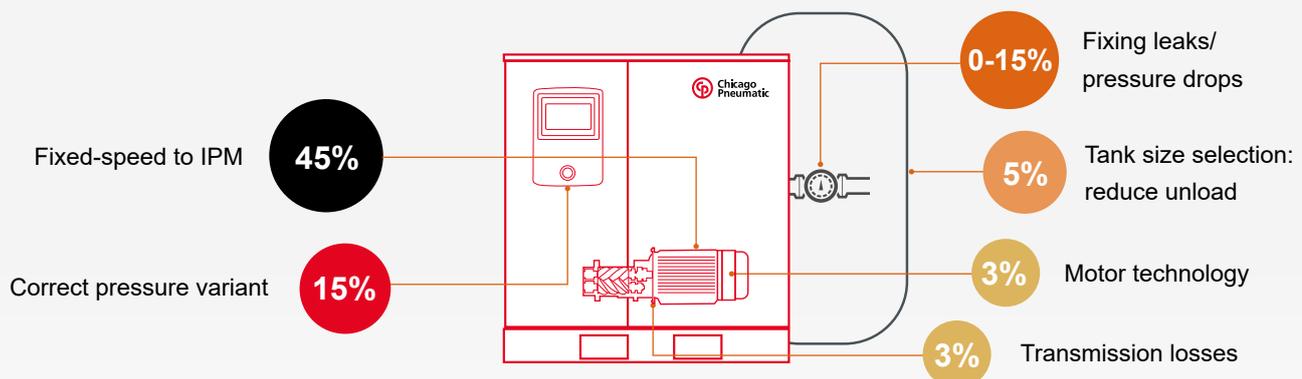
for improved performance.

A range options

- 8000 HOURS OIL
- AFTERCOOLER
- FOOD GRADE OIL
- DC CHOKE (ONLY SALES OPTION)
- TIMER DRAIN ON TANK
- WOODEN BOX & CRATE SHIPPING OPTIONS
- STIRRUP FORKLIFT TRANSPORT

Maximize your energy savings

Energy is by far the biggest cost of owning and operating a compressor. Luckily, there are many options to minimize the energy consumption of your air system. Technologies such as energy recovery can have a huge impact on your bottom line and your environmental footprint, with energy savings of up to 75 %. A holistic view of your compressed air system is key. It starts with the selection of efficient technologies when buying your compressor. But it doesn't end there. Monitoring and analyzing your air system as you use it will often reveal optimization opportunities. Your Chicago Pneumatic representative can help you find those savings.



A versatile range



FIXED SPEED

Base compressor design for years

Compact, all-in-one design

Reliable

Easy to service

Low investment cost



PM

All belt compressors benefits

Up to 45 % energy saving due PM motor technology

Direct drive – one shaft arrangement does not need adjustment in any condition

IP54, Class H motor ensures robustness

Smart Control with ES 4000 Connect

The Smart Control with ES 4000 Connect controller takes compressor management to the next level—making your system easier to operate, more reliable, and more energy-efficient. With automatic over-the-air software updates, your compressor continues to improve over time.

User-friendly interface

Intuitive display for quick and easy operation.

Remote monitoring & control

Full connectivity for real-time access and management from anywhere.

Advanced energy savings (only for fixed speed)

Integrated DSS (Dynamic System Saver) technology optimizes energy use.

Proactive alerts

Real-time warnings and shutdown alarms to prevent downtime.

Maintenance insights

Service status, history, and notifications at your fingertips.

Leakage detection

Helps identify and reduce costly air leaks.

Flexible pressure settings

Easily adjust pressure bands via the ICONS app.

Automatic software updates

Stay up to date with the latest features and improvements—no manual intervention needed.



TECHNICAL SPECIFICATIONS

CPM 10-20 VS

Model	Min. working pressure	Reference working pressure	Motor power		Min. FAD*		Free Air Delivery @ reference conditions*				Noise level **	Cooling air flow	Weight (kg)		
							Max. FAD*						Base Mounted	Tank Mounted Dryer	
					7 bar	7 bar	9.5 bar	7 bar	9.5 bar	–				270 L	500 L
bar	bar	kW	hp	m³/h	l/s	m³/h	l/s	m³/h	l/s	db(A)	m³/s	–	270 L	500 L	
CPM 10 VS	4	10	7,5	10	21,2	5,2	73,4	20,4	63,4	17,6	64	0,61	193	332	362
CPM 15 VS	4	10	11	15	18,4	5,1	109,4	30,4	88,2	24,5	65	0,61	193	332	362
CPM 20 VS	4	10	15	20	19,4	5,4	120,6	33,5	111,6	31	66	0,61	202	339	371

Dimensions

	Dimensions (mm)		
	Length	Width	Height
Base Mounted	1000	655	1062
Tank Mounted Dryer 270 L	1540	655	1550
Tank Mounted Dryer 500 L	1875	655	1680

* Unit performance measured according to ISO 1217, Annex C, latest edition

** Noise level measured according to ISO 2151:2004 using ISO 9614/2





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.

A stylized world map composed of red, curved lines of varying lengths, creating a sense of motion and global reach.

People. Passion. Performance.

For more information, please contact your CP partner:

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