

OII-free Screw Air Compressor Water-lubricated Tech

CMN TECHNOLOGY CO., LTD



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Address: No. 3555, East Section of Kaifa Avenue, Taizhou Bay New Area, Taizhou City, Zhejiang Province, China Tel: 400-119-7888 or 0576-83598818

Email: cmn@cmnair.com

Website: www.cmncompressor.com





Founder of Water-Lubricated Air Compressor

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₽artners





TITEMENTER PRISE CHAPTER

Innovate Oil-free Technology Lead the Revolution of Oil-free Air Compressor



Mr. B Zimmern

Mr. B Zimmern from France proposed the single-screw compression conception and applied for a patent.

1962

Developed the first single-screw air compressor in the world.

Companies such as Japan's Mitsui Industries, Daikin Air Conditioning, and the United States' Jackville have adopted single screw structure for use in the fields of air

compression and

refrigeration.

CMN enters China,

production base in China to expand brand

influence in Asia.

establishes a

2005

Launched the world's first water-lubricated oil-free screw air compressor, breaking the monopoly of the traditional dry oil free air compressor.

Developed the world's first 40bar pure oil-free screw compressor to assist the healthy and standardized Developed the world's first 40 bar micro-oil screw air compressor, development of bottle blowing, container manufacturing and other industries. gradually replace traditional piston machines.

2016

The Korean Marketing Center was established and gradually expanded CMN brand influence in the Korean cosmetics and bottled water industry.

2024

China's 50,000-square-meter new production base will be completed and put into operation.



ENTERPRISE INTRODUCTION

Since 1960, CMN has been leading the field of single screw compressors and always prioritizes product stability and performance. In 2005, CMN successfully developed the world's first water lubricated oil-free screw air compressor using a stainless steel air end, providing the industry with a truly pure oil-free compressed air solution. In 2010, CMN led the trend by launching the world's first water lubricated oil-free screw air compressor with permanent magnet variable frequency motor. Compared to traditional fixed frequency compressors, our innovative technology can achieve over 30% energy savings. This not only improves efficiency, but also effectively reduces operating costs. In 2016, CMN once again led the way by launching the world's first pure oil-free screw medium pressure air compressor capable of supplying up to 40 bar compressed air. This breakthrough innovation provides a truly oil-free solution for the bottle blowing industry, ensuring the purity of the product.

With our continuously optimized products, CMN has established mature marketing systems in over 50 countries such as South Korea, the United States, and Thailand, earning a global reputation. Our achievements stem from our pursuit of product stability and are more rooted in our philosophy of deeply understanding customer needs. We always prioritize customer needs, focus on customers, and continuously innovate and optimize our products. Whenever and wherever you have a need for compressed air, our professional team will tailor the most suitable and perfect solution for you.











Why choose Oil free compressor



100% oil-free compressed air

We firmly believe that in the future, more factories will use oil-free compressed air.

The entire models of CMN water lubricated series have owned Germany TUV oil-free certification, with Oil content Class 0 according to ISO 8573-1 (2010).

ISO 8573-1 (2010):

Grade	A: Solid part solid particl	icles - maximur es per cubic me	В:	C: oil(mg/m³)	
Grade	0.1-0.5μm	0.1-0.5μm 0.5-1.0μm 1.0-5.0μm			
0	Defined by	the customer or	manufacturer,	more stringent	than Class1
1	100	1	0	-70	0.01
2	100000	1000	10	-40	0.10
3	-	10000	500	-20	1.00
4	-	-	1000	3	5
5	-	-	20000	7	-

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No oil pollution:

Oil-free air compressors do not require the use of lubricating oil, which eliminates the risk of oil pollution. This is particularly important for certain applications, such as food processing, pharmaceutical production, chip manufacturing and other applications that require high purity compressed air.



Oil-free air compressors require less maintenance than oil-lubricated compressors. Since oil-free compressors do not have lubricating oil, there is no need for replacement of related parts such as oil filter, oil gas separation element, and compressor oil, reducing maintenance costs and labor cost.



In some industrial applications, dry and clean compressed air is required. Since oil-free air compressors do not use lubricating oil, they can avoid the problem of oil and gas mixing and ensure the supply of dry, clean compressed air.

Improve product quality:

In some applications, such as painting, bottle blowing, etc., which require high-quality compressed air, oil contamination will have a negative impact on the product quality. Choosing an oil-free air compressor can ensure the purity of the air and improve the product quality.

Reduce post-processing burden:

The use of oil-free air compressors reduces the burden of post-processing equipment. More importantly, an oil-injection air compressor with any oil-removal post treatment equipment can not supply true oil-free compressed air.

Pharmaceutical O O O O O O O O O



Food and Beverage

ENTERPRISE KEY ADVANTAGES

► Single Screw Compression Technology

The compression air end is composed of one main screw and two star wheels, with a total of 11 compression chambers. The air end rotates once to achieve 11 times of compression with high efficiency. Also, single-screw compression structure is widely recognized to have a more ideal stress-bearing condition. The screw can withstand higher pressure with a longer life.







Specialized

We always focus on product production and research and development, continuously optimizing and integrating the entire production process and industrial chain



Lean production

Always focusing on continuously optimizing manufacturing processes and achieving excellent quality with a rigorous attitude, providing customers with high-quality professional product services and solutions



Elite team

Focusing on improving the strategic layout of talent echelons and cultivating talent echelons, we will explore a new mode of cooperation that integrates production, education, and research, forming a new situation where disciplines, majors, and industries mutually promote and develop together

1.Innovative oil-free technology, lifetime oil-free compressed air

CMN uses a stainless steel air end and water as the lubricating medium to achieve hydrodynamic lubrication under a designed clearance. Since the rotating speed of air end is only around 3,000 rpm, lubricating oil is not required to be added to the bearings, and there is no risk of oil contamination. The machine is designed to have a service life of over 25 years, and the CM series can guarantee a lifetime of clean, oil-free compressed air. This advantage comes from the fact that the machine uses pure water as the lubricating medium.

2. Ultra-low exhaust temperature, ultra-low air end operating temperature

Due to the way that CM lubricating water is directly injected into the air end for lubrication and cooling, the temperature of the air end does not exceed 45°C when the unit is running, and there is no risk of burns or fire;

At the same time, the low exhaust temperature makes the compressed air have a lower moisture content, reducing the burden on post-processing equipment and improving processing efficiency.

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ENTERPRISE KEY ADVANTAGES



Reliability:

The rotating speed of air end is lower than traditional oil free air compressor, which reduces the load on the bearings. So no lubricating oil is required for the bearings. The operating temperature of the whole machine is low and the life of each component is prolonged.



Energy-saving:

Isothermal compression, low energy loss, no need for heat recovery, energy-saving more than 10% than traditional oil free air compressor.



Low noise and vibration:

Based on the transmission method of direct connection between the air end and the motor, the design without speed-increasing gears, combined with CMN patented air intake structure and the sound insulation sponge of unique material, CM can provide screw air compressors with minimum noise level of 58 decibels.



Simple maintenance:

Since the whole machine does not use lubricating oil, it avoids the need for maintenance of oil and related parts. CM maintenance only requires replacing the air filter element and water filter element. With the humanized frame design, maintenance is very convenient.



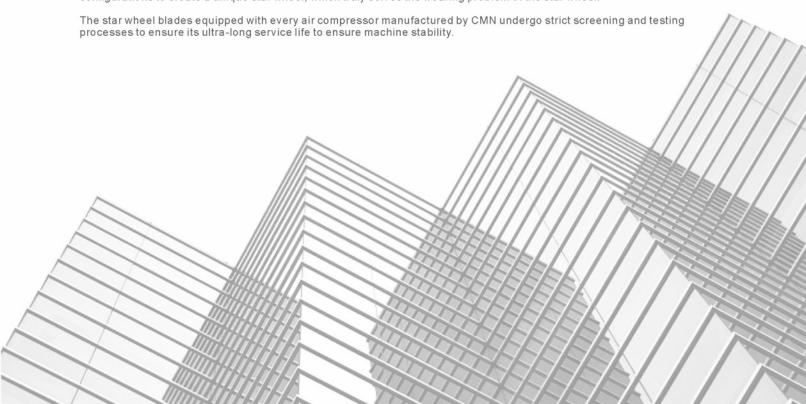
Features

	CMN water-lubrication oil-free	Traditional oil-free
Oil	The whole machine does not have any lubricating oil.	Only the compression chamber is oil-free, relies on sealing.
Speed	3000 rpm	6000-25000rpm
Compression chamber temperature	15°C higher than ambient temperature	200°C
Compression air end	1	2
Number of gears	0	5-7
Number of bearings	7	Greater than 15
Number of seals	Patented no shaft sealing design	Greater than 15

Star wheel material description:

In a single-screw air compressor, the star wheel is an important component which used to form a seal between the screw and the housing to complete the compression process of compressed air. Due to the contact and friction between the star wheel plate and the screw, wear may occur during operation.

Through years of accumulated experience, CMN has used aviation-grade materials combined with confidential configurations to create a unique star wheel, which truly solves the wearing problem of the star wheel.





COMPONENT DISPLAY

5 Stainless steel air end

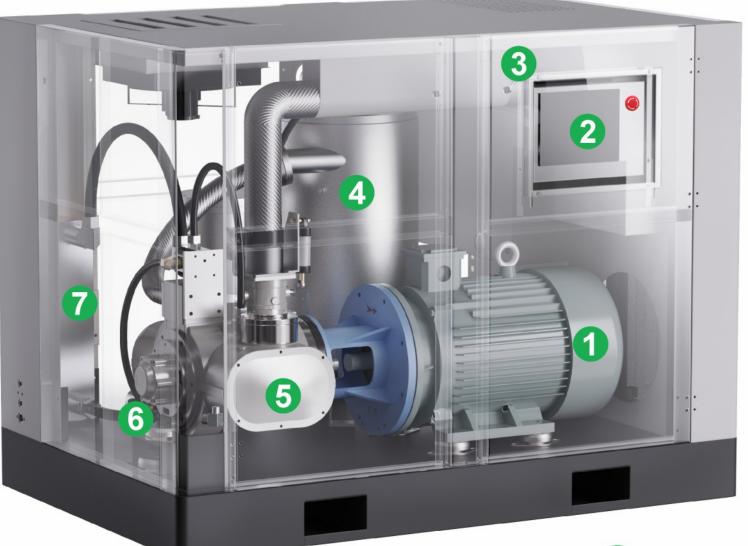
A fully stainless steel made oil-free air end independently developed and manufactured by CMN with patent number: ZL 201110000872.4. The air end has ultrahigh volumetric efficiency, and a patented no shaft sealing design, with a designed service life of more than 25 years.

6 Lubricating water filtration system

The shell is made of stainless steel and equip with CMN original filter element. With high-precision glass fiber cotton multilayer design, the filtration accuracy reaches 0.1 um. Filtered lubricating water can extend the service life of the air end.

7 Water cooler

Using a high-performance plate heat exchanger with a multi-process cooling structure design, the cooling area is increased several times and the unit cooling effect is better, ensuring that the air compressor outlet temperature does not exceed 55°C.



1 Permanent magnet motor

CMN customized high-quality motor, using rare earth permanent magnet materials, protection grade IP54, insulation grade F, built-in SKF bearings, the efficiency is 3%-5% higher than standard motor, and it can guarantee 7*24 hours of non-stop operation.

2 Logic programming computer control system

Adopts advanced control, fault monitoring and early warning functions, friendly human-machine interface which can display all operating information of the entire unit. Using French Schneider Electric control system, the microcomputer controls the drive motor and adjusts the pressure within a narrow pressure band to maximize the efficiency and reliability of the equipment.

High-efficiency air intake valve

The self-patented high-efficiency air intake valve adopts a patented integrated lowest point air intake mode, which can effectively improve compression efficiency, reduce noise during suction, and extend the service life of the air filter. The unique openable modular box structure improves maintenance convenience.

4 Water and air separation barrel

Made entirely of stainless steel, no internal chips fall off. The special internal streamline design allows the air flow rate to instantly reach 10m/s. The design ensures the complete separation of moisture inside. The moisture settles to the bottom of the water and air barrel, and the compressed air is discharged from the exhaust port through the minimum pressure valve.

LOW ENERGY CONSUMPTION

Ultra-low energy consumption from CMN core advantages



One-stage compression, ultra-high volumetric efficiency

Based on the ultra-high volumetric efficiency of the single-screw air end, coupled with the lubrication, sealing, and cooling effects of pure water, unlike traditional oil-free technology that relies on two-stage compression, CM series only requires one-stage compression to provide a pressure of up to 12.5bar compressed air. Since no additional compression stage is required, it can compress air to the target operating pressure with greater efficiency, resulting in lower energy consumption.

At the same time, CM adopts a transmission method in which the motor and the air end are directly connected to reduce losses in the energy transmission process, maximize efficiency, and reduce maintenance content which is a more economical and environmentally friendly choice in terms of saving energy and reducing operating costs.

ISOTHERMAL COMPRESSION

Isothermal compression has the following advantages:

High efficiency:

Isothermal compression means that during the compression process, the air and cooling water exchange heat to keep the temperature constant during the compression process. Compared with non-isothermal compression, isothermal compression can effectively reduce heat loss and improve energy efficiency. Water-lubricated air compressors use cooling water to isothermally treat compressed air, making the compression process more efficient.

▶ The compression effect is more stable:

Isothermal compression can effectively reduce the compression temperature and reduce the volume change of the gas during the compression process. This helps improve compressor stability and reliability, reduces mechanical wear and risk of failure, and extends equipment life.

Protect process quality:

The isothermal compression of the water-lubricated air compressor can avoid the analysis of moisture and oil caused by overheating of the gas, thereby maintaining the purity of the compressed air. For industries with higher air quality requirements, such as food processing, pharmaceuticals, etc., water-lubricated air compressors can provide more reliable oil-free and pollution-free compressed air.





IOT Monitoring System

The CM series comes standard with an IoT monitoring system that supports remote monitoring, start stop, and other functions, and can provide timely feedback on various alarm information.

LOW ENERGY CONSUMPTION

Variable Frequency

More than 80% of a compressor's life cycle cost is accounted for by the energy it consumes. In addition, the production of compressed air can account for more than 40% of a factory's total electricity bill, and when the air compressor is unloaded, the power consumption is as high as 40% of its installed power.

CM/PV is suitable for working conditions with a large range of gas volume fluctuations. It can automatically adjust the speed and frequency of the air compressor according to the gas demand to provide the required gas production.

CMN variable frequency technology enables the CM gas production volume to be adjusted within the range of 40%-100%. It will automatically adjust the motor frequency according to the user's gas demand to achieve constant pressure gas supply, and control pressure fluctuations within the range of 0.1Mpa.

CMN customized special variable frequency drive and controller, combined with a permanent magnet motor with an efficiency of up to 97%, we integrate and design all components of the air compressor to ensure that the unit can supply compressed air with the lowest specific power at any time, always ensuring the lowest energy consumption.

Advantages of using variable frequency models:

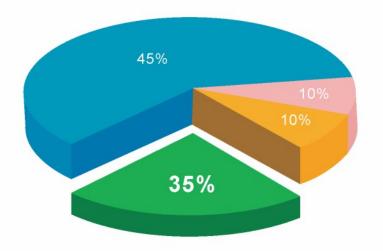
- 1. Reduce the impact of loading and unloading on the intake valve and exhaust valve
- 2. Reduce the impact of loading and unloading on the internal bearings of the air end
- 3. Reduce the impact of pressure fluctuations on various pressure-bearing components inside the machine

Description of CMN first-class energy-efficiency air compressor station

For users with special requirements, we provide the design of a first-level energy efficiency station. We use Artificial Intelligence algorithms to back-test the actual air consumption of the factory, and then control the operation plan of the air compressor units based on the data to optimize energy efficiency.

The CMN Energy Efficiency Station is based on a digital joint control system for air compressor stations with software and hardware linkage. It uses edge servers, IoT cloud boxes, and cloud AI computing platforms to monitor the operating status and operating parameters of each equipment in the station. It also monitors the main pipe pressure in real time to realize functions such as automatic control of adding and subtracting machines, equipment rotation, and failover to standby machines to ensure stable pressure gas supply. While keeping the station unattended, the energy consumption of the station can be reduced to a minimum.

The full cost of ownership of the air compressor for ten years



Regular model:

- 80% Power consumption
- 10% Purchase cost
- 10% Maintenance

If using a variable frequency model:

- 45% Power consumption
- 10% Purchase cost
- 10% Maintenance
- 35% Electricity savings



Automatically switch to standby machine to ensure stable air supply Automatic adding and subtracting machine to reduce manual operation Automatically rotate equipment to extend equipment life

Comprehensive monitoring, digital station building Optimize the three-end system of production, transportation and use to create a first-class energy efficiency station



Operation and naintenance

Analyze data to achieve accurate maintenance Customized fault alarms to identify risks in a timely manner





Technical Parameters

Model	Working pressure		FA	Pov	Power		Weight	Outline dimension	
	МРа	Psi	m³/min	cfm	kW	НР	dB(A)	Kg	L*W*H mm
	0.8	116	0.45-1.15	16-41	7.5		58	630	1550×775×1445
CM08PVF	1	145	0.41-1.02	14-36	7.5	10		500	1350×774×1150
	0.8	116	0.62-1.55	22-55		15		650	1550×775×1445
CM11PVF	1	145	0.53-1.32	19-47	11		58	520	1350~774~1150
	1.25	181	0.48-1.02	17-36					1350×774×1150
	0.8	116	0.96-2.40	34-85				900	1900×1000×1635
CM15PVF	1	145	0.85-2.12	30-75	15	20	63	750	1680×1000×1335
	1.25 181 0.64-1.61 23-57				750	1000**1000			
	0.8	116	1.24-3.10	44-109	18.5			970	1900×1000×1635
CM18PVF	1	145	1.05-2.62	37-93		25	65	820	1680×1000×1335
	1.25	181	0.85-2.13	30-75				020	
	0.8	116	1.40-3.50	49-124				1000	1900×1000×1635
CM22PVF	1	145	1.25-3.13	44-111	22	30	65	850	1680×1000×1335
	1.25	181	1.04-2.61	37-92				830	
	0.8	116	2.00-5.00	71-177				1150	1950×1050×1780
CM30PVF	1	145	1.68-4.20	59-148	30	40	66	1080	1900×1050×1430
	1.25	181	1.52-3.18	54-112					1900×1050×1430
	0.8	116	2.44-6.10	86-215				1170	1950×1050×1780
CM37PV <mark>F</mark>	1	145	2.09-5.22	74-184	37	50	67		4000 4050 : :
	1.25	181	1.92-4.81	68-170				820 1000 850 1150 1080	1900×1050×1430

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	Working pressure		FAD		Pov	Power		Weight	Outline dimension
Model	МРа	Psi	m³/min	cfm	kW	НР	dB(A)	Kg	L*W*H mm
	0.8	116	3.12-7.80	110-275				1930	3040×1280×1800
CM45PVF	1	145	2.45-6.13	87-216	45	60	68		
	1.25	181	2.26-5.65	80-200	15556			1430	2200×1350×1530
	0.8	116	3.84-9.60	136-339				2050	3040×1280×1800
CM55PVF	1	145	3.44-8.60	121-304	55	75	70		
	1.25	181	2.97-7.42	105-262		2.00	5000	1550	2200×1350×1530
	0.8	116	5.16-12.90	182-455		1		2450	3040×1280×1800
CM75PVF	1	145	4.57-11.42	161-403	75	100	73	1790	2200×1350×1530
	1.25	181	3.93-9.83	139-347					
	0.8 116 6.52-16.30 230-576			3900	3750x1850x2180				
CM90PVF	1	145	5.81-14.52	205-513	90	125	73	2160	2500×1400×1580
	1.25	181	4.92-12.30	174-434					
	0.8	116	7.76-19.40	274-685		150	78	4000	3750x1850x2180
CM110PVF	1	145	6.76-16.90	239-597	110			2270	2500×1400×1580
	1.25	181	6.04-15.10	213-533					
	0.8	116	8.88-22.21	314-784		180	78	4150	3750x1850x2180
CM132PVF	1	145	8.15-20.38	288-720	132			2350	2500×1400×1580
	1.25	181	7.31-18.29	258-646					
	0.8	116	11.54-28.85	407-1019				5300	4300x2000x2500
CM160PVF	1	145	9.81-24.52	346-866	160	220	78	2700	2400 - 4700 - 2000
	1.25	181	8.87-22.17	313-783				3720	3100×1700×2090
	0.8	116	14.65-36.63	517-1293					
CM200PV	1	145	13.10-32.70	463-1155	200	270	78	3750	3100×1700×2090
	1.25	181	11.09-27.72	392-979					
	0.8	116	17.15-42.88	606-1514					
CM250PV	1	145	15.60-39.00	551-1377	250	340	78	3900	3100×1700×2090
	1.25	181	13.87-34.64	490-1223					
	0.8	116	23.64-59.10	835-2087					
CM320PV	1	145	21.40-53.50	756-1889	320	430	80	4850	3600×2800×2000
	1.25	181	19.30-48.25	681-1704					

^{*}CM-F indicates air-cooled model, the orange data indicates parameters of air cooled model. Model without F indicates water-cooled.

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Technical Parameters

Model	Working	Working pressure		FAD		Power		Weight	Outline dimension	
	МРа	Psi	m³/min	cfm	kW	НР	dB(A)	Kg	L*W*H mm	
CNACODE	0.8	116	1.15	41	7.5	40	50	630	1550×775×1445	
CM08BF	1	145	1.02	36	7.5	10	58	500	1350×774×1150	
	0.8	116	1.55	55				650	1550×775×1445	
CM11BF	1	145	1.32	47	11	15	58	520	1350×774×1150	
	1.25	181	1.02	36				520	1350×//4×1150	
	0.8	116	2.40	85				900	1900×1000×163	
CM15BF	1	145	2.12	75	15	20	63	750	1680×1000×1335	
	1.25	181	1.61	57					1000*1000*133	
	0.8	116	3.10	109					970	1900×1000×163
CM18BF	1	145	2.62	93	18.5	25	65	820	1680×1000×1335	
	1.25	181	2.13	75						
	0.8	116	3.50	124				1000	1900×1000×163	
CM22BF	1	145	3.13	111	22	30	65	850	1680×1000×133	
	1.25	181	2.61	92					1000*1000*1333	
	0.8	116	5.00	177				1150	1950×1050×178	
CM30BF	1	145	4.20	148	30	40	66	1080	1900×1050×143	
	1.25	181	3.18	112				1000	1900 1000 140	
	0.8	116	6.10	215				1170	1950×1050×178	
CM37BF	1	145	5.22	184	37	50	67	4400	40004050440	
	1.25	181	4.81	170				1100	1900×1050×1430	

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	Working pressure		FAD		Ро	Power		Weight	Outline dimension
Model	МРа	Psi	m³/min	cfm	kW	НР	dB(A)	Kg	L*W*H mm
	0.8	116	7.80	275				1930	3040×1280×1800
CM45BF	1	145	6.13	216	45	60	68	1.120	0000,4250,4520
	1.25	181	5.65	200				1430	2200×1350×1530
	0.8	116	9.60	339				2050	3040×1280×1800
CM55BF	1	145	8.60	304	55	75	70	4550	0000.4050.4500
	1.25	181	7.42	262				1550	2200×1350×1530
	0.8	116	12.90	455				2450	3040×1280×1800
CM75BF	1	145	11.42	403	75	100	73		2200×1350×1530
	1.25	181	9.83	347				1790	
	0.8	116	16.30	576			73	3870	3750x1850x2180
CM90BF	1	145	14.52	513	90	125 73			2500.4400.4500
	1.25	181	12.30	434	1			2160	2500×1400×1580
	0.8	116	19.40	685	110	150	78	3950	3750x1850x2180
CM110BF	1	145	16.90	597				2270	2500×1400×1580
	1.25	181	15.10	533					
	0.8	116	22.21	784		180	78	4050	3750x1850x2180
CM132BF	1	145	20.38	720	132				2500×1400×1580
	1.25	181	18.29	646				2350	
	0.8	116	28.85	1019				5150	4300x2000x2500
CM160BF	1	145	24.52	866	160	220	78		3100×1700×2090
	1.25	181	22.17	783				3720	
	0.8	116	36.63	1293					
CM200B	1	145	32.70	1155	200	270	78	3750	3100×1700×2090
	1.25	181	27.72	979					
	0.8	116	42.88	1514					
CM250B	1	145	39.00	1377	250	340	78	3900	3100×1700×2090
	1.25	181	34.64	1223					
	0.8	116	59.10	2087					
CM320B	1	145	53.50	1889	320	430	80	4850	3600×2800×2000
	1.25	181	48.25	1704					

^{*}CM-F indicates air-cooled model, the orange data indicates parameters of air cooled models. Models without F indicate water-cooled models.

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MA CMN

CMG technology maximizes your production efficiency while ensuring stability

When you are looking for high quality, high stability and high efficiency 20-40Bar compressed air solutions, the CMG series will be your best choice.



Professional certification

ISO 8573-1

Oll content: Class 0

Particles: Class 0

Moisture: Class 0

ISO 9001

ISO 14001

Single Screw Compression Technology

Thanks to the more ideal single-screw compression structure proposed by B.Zimmern, we are able to provide more perfect medium-pressure compressed air solutions for bottle blowing, container manufacturing and other industries.

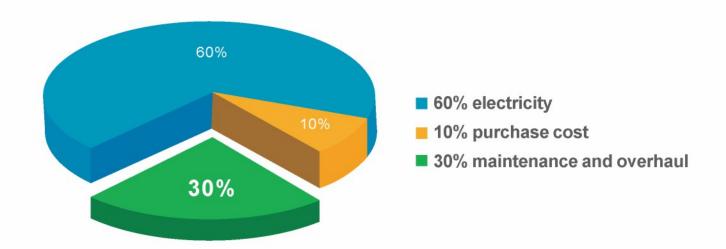
When the air end is running, the axial and radial forces acting on the main screw are relatively small, so it can supply compressed air with a maximum pressure of 40bar.

High efficiency: Since the screw compressor does not have air valves and a large number of friction parts, it loses less energy, improves the efficiency of air compression and saves energy.

Provide higher pressure: The structural characteristics of the single screw compressor allow it to provide higher pressure compressed air. During the compression process, the meshing of the screw gradually compresses the air, increasing the density of the air. At the same time, the axial force and radial force on the screw are very small, thereby achieving higher air outlet pressure.

Low maintenance costs: Compared to some other types of compressors, single screw compressors have low maintenance costs.

THE FULL COST OF MEDIUM PRESSURE AIR COMPRESSOR OWNERSHIP



CMG adopts advanced design to minimize your expenses in two directions:

Energy expenditure



1.Temperature loss

The operating temperature of the air end does not exceed 45 degrees Celsius, Isothermal compression is realized to minimize the energy loss.



2.Electricity loss

Adopts high efficiency permanent magnet motor, efficiency reaches 97%.



3. Transmission loss

The air end and motor are directly connected, without belts, speed-increasing gears and other transmission components, to reduce energy loss during transmission.



Maintenance expenditure

WHOLE MACHINE

IS DESIGNED WITH NO WEARING PARTS.

How do we achieve it: The structure of the screw compressor is simpler and more precise. Through the new generation of water lubrication technology, we control the operating temperature of the CMG machine at about 45 degrees. Under this condition, the life of each component is extended. Also, common wearing parts such as coupling, star wheel, and minimum pressure valves are designed and customized using special materials.







Daily Maintenance Parts exchange in 1000-2000hours):



1.Air tiiter 2.Water filter





2

IN ADDITION TO MINIMIZING YOUR VISIBLE EXPENSES, CM/G ALSO REDUCES YOUR INVISIBLE EXPENSES:



Minimal noise and vibration, Reduced installation costs:

The compression of screw air compressors relies on high-precision machining and assembly processes and has a tight structure. The completely different compression structure from traditional PET piston machines gives the CM/G series great advantages in terms of noise and vibration. Comparing models with the same gas production volume, CM/G noise is 20% to 50% smaller.

- When designing the station building, our air compressors can be placed close to the office, eliminating the need to build an additional air compressor room.
- Reduce the installation costs of compressed air pipelines and valves.
- Reduce pressure drop and pipe loss, and improve air compressor efficiency.

Noise dB (A)



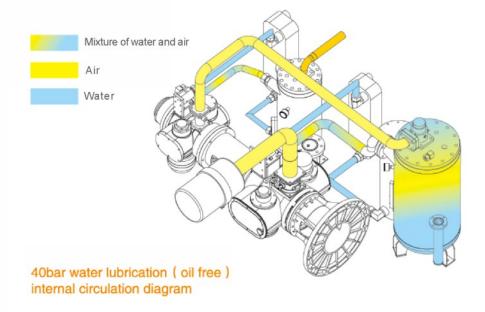
Easy to operate and reduce enterprise staffing costs:



control system (DCS) through the 485 communication interface for unified management.

- Machine can be quickly started and stopped with one click, and display various operating parameters such as air supply pressure, power, frequency, etc. in real time.
- The advanced CMN controller automatically adjusts the air end speed according to the air consumption, always supplying compressed air with optimal efficiency.
- The maintenance of the unit is simple which only requires replacing the air filter, water filter and adding grease to the motor.
 - The manufacturer's professional after-sales team remotely monitors the operation of the unit in real time, provides early warning of problems and quickly provides solutions.





Absolutely oil-free compressed air improves bottle quality

The CM/G machine does not use any lubricating oil, and the oil content in the air supply is 0 ppm. It is a true oil-free PET air compressor.

- 1. Ensure bottle quality and gloss, and reduce scrap rate
- 2. Eliminate the risk of product oil contamination and protect corporate reputation

Worry-free safety, prevent enterprise production accidents

Water is directly injected into the air end for cooling. The water plays a role in lubrication, sealing, and cooling. The temperature of the air end is only about 45 degrees Celsius when machine is running.

- 1. Avoid operator burns and eliminate fire hazards.
- 2. Reduce the possibility of losses caused by equipment accidents.

Stable and reliable, safeguarding enterprise production

Small size, simple and compact structure, the moving parts are only screw and star wheel

- 1. We understand that no matter how perfect the production management is, the possibility of machine parts failure cannot be completely eliminated, so fewer parts means that the probability of machine problems is greatly reduced.
- 2. There are no wearing parts, the gas production will drop by no more than 5% within 50,000 hours, and the maintenance and repair cycle is more than five years.
- 3. The unit is designed to have a service life of more than fifteen years and supports 7*24 hours of continuous operation.



Technical Parameter

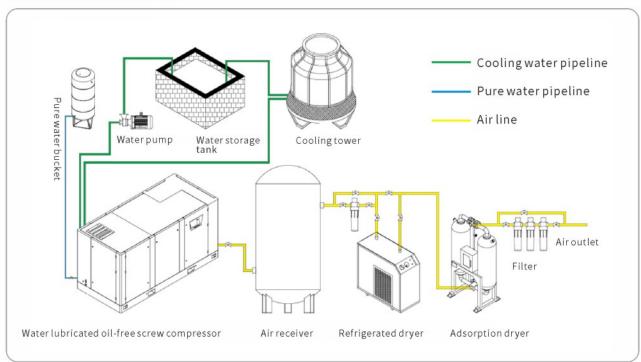
Model	Working pressure FAD		\D	Pov	ver	Noise	Weight	Outline dimension	
Model	МРа	Psi	m³/min	cfm	kW	НР	dB(A)	Kg	L*W*H mm
CM75G	2.0-4.0	290-580	6.3	222	75	100	70	2100	2750×1250×1480
CM75CDV	20.40	200 500	25.62	00.222	37	50		2250	200010001400
CM75GPV	2.0-4.0	290-580	2.5-6.3	88-222	37	50	70	2250	2000×1900×1480
CM90G	2.0-4.0	290-580	8.2	290	90	123	72	2580	3000×1350×1540
CM110GPV	2.0-4.0	290-580	3.3-8.2	117-290	55	75	72	2450	2500×2000×1550
CMITOGPV	2.0-4.0	290-560	3.3-0.2	117-290	55	75			
CM110G	2.0-4.0	290-580	10.2	360	110	150	72	2630	3000×1350×1540
					55	75	75		
CM130GPV	2.0-3.0	290-435	5.4-13.5	191-477	75	100		3000	2500×2000×1550
CMASSOCRY	20.40	200 500	5.4.13.5	101 177	75	100	7.5	3100 25	2500, 2000, 4550
CM150GPV	2.0-4.0	290-580	5.4-13.5	191-477	75	100	75		2500×2000×1550
514555551			- 4 4 - 0	254 620	90	120	7.5		0700 0050 4070
CM200GPV	2.0-4.0	290-580	7.1-17.8	251-629	110	150	75	3850	2760×2250×1670
CM242CDV	20.40	200 500	06.340	220 047	110	150	75	2050	2762 2252 4672
CM242GPV	2.0-4.0	290-580	9.6-24.0	339-847	132	180		3950	2760×2250×1670
CMARCOCOLI	20.46	200 500	126215	445 4440	160	220	0.5		
CM320GPV	2.0-4.0	290-580	12.0-31.5	445-1113	160	220	85	5100	3800x2100x2250

PV:Represents permanent magnet frequency conversion

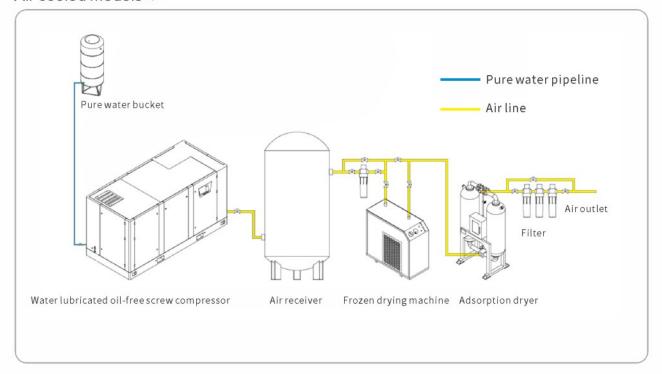


FLOW CHART

Water cooled models



Air cooled models V



STRATEGIC PARTNER



Innovate Oil-free Technology, Lead the Revolution of Oil-free Air Compressor