

STABLE | ENERGY-SAVING | CLEAN | AND EFFICIENT



DMWLV-G Series Low Pressure Dry Oil-free Permanent Magnetic Variable Speed Screw Air Compressor



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Dream(Shanghai) Compressor Co.,Ltd.



Catalogue /

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ABOUT DREAM

 **45000** m²
factory area

 **100+** 项
Invention patents and honors

 **20+**
Regional branches/subsidiaries

Dream (Shanghai) Compressor Co., Ltd. which established in Shanghai in 2011. It is a company specialized in designing, manufacturing and marketing of air compressors, is A high-tech enterprise that sells and provides system solutions.

It has won honors such as Shanghai Brand Cultivation Demonstration Enterprise, special new enterprise, energy-saving equipment contribution enterprise, high-tech achievement transformation project, etc. The products are widely used in new energy, chemical industry & chemistry, Electronics, textiles, brewing mill, laser cutting, medicine & food and other fields.

Based on concepts of stable, energy-saving, clean, efficiency, simple operation & maintenance, DREAM insists on developing based on market demand and innovation. The company invests 10%-15% of its profits every year into R&D and the upgrading & optimization of products. Innovation is main driver for DREAM grow up. As manufacturer supplier of Air compressor system solutions, Our service cover client requirement analysis, site investigation, technical solution design, and project cost analysis, non-standard solution customization, solution demonstration and promotion. we provide exclusive compressed gas solutions based on project needs.

After development for 14+ years, Dream has always adhered to the enterprise spirit of "One heart One Dream, striving for excellence", constantly innovating and pursuing excellence. Dream people continue to explore and innovate to meet customer needs and provide users with better products and service. Based in China, Dream's products has exported to worldwide countries successfully, mainly market as South Asia, South East Asia, Europe, Africa, South America, North America, and CIS countries, footprints all over the world. Its excellent product performance and efficient service concept continue to create value for users.

Dream will be always your trust partner. We believe that you will experience our high-quality products and professional services, by working with us. Welcome to pursue dream and create better future with DREAM together!

DREAM CULTURE



Vision

To be a global leader in gas compression intelligent equipment and system solutions service provider



Mission

Make Industry Air More Stable, More Clean, More Efficient



Value

One Heart. One Dream. Professional. Focus. Innovative. Win-win.

DREAM

GREEN ENERGY SHARED DREAM

Enterprise honor

- High-tech enterprise
- Specialized in special new enterprises
- Energy-saving technology and equipment contributing enterprises
- Shanghai brand cultivation model enterprise
- CE Certificates
- EMC Certificates
- TUV Rheinland Class 0 Oil Free Certificates
- Germany TUV product safety certification
- GCCA product quality and safety certification
- ISO 9001,14001,45001



20+
City subsidiary

34 Provincial sales
service network

Adhering to the business philosophy of "market-oriented, customer-centric, technical support and service guarantee", Dream is committed to providing customers with high quality products and industry-leading services. With Shanghai as the center and 20 service outlets nationwide as the auxiliary, Dream covers 34 provinces and autonomous regions of China's sales and service network, dedicated to provide customers with better service.

Global service

Dream is committed to providing quality products and services on a global scale, and has conducted overseas operations in many countries and regions, including Southeast Asia, Europe, and the Americas, and has established strong partnerships in overseas markets. Our overseas agents have rich experience in cross-cultural communication and international vision, and are able to better understand and meet the needs of local customers and markets. In the future, we will continue to strengthen the development of overseas business, expand more overseas markets, and let China intelligent manufacturing shine on the international stage.



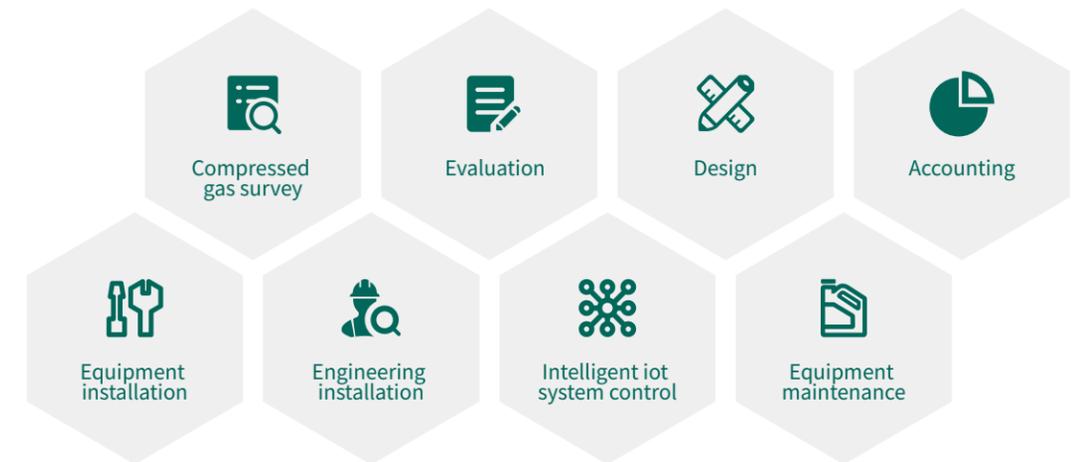
Dream Intelligent Manufacturing Six core competencies



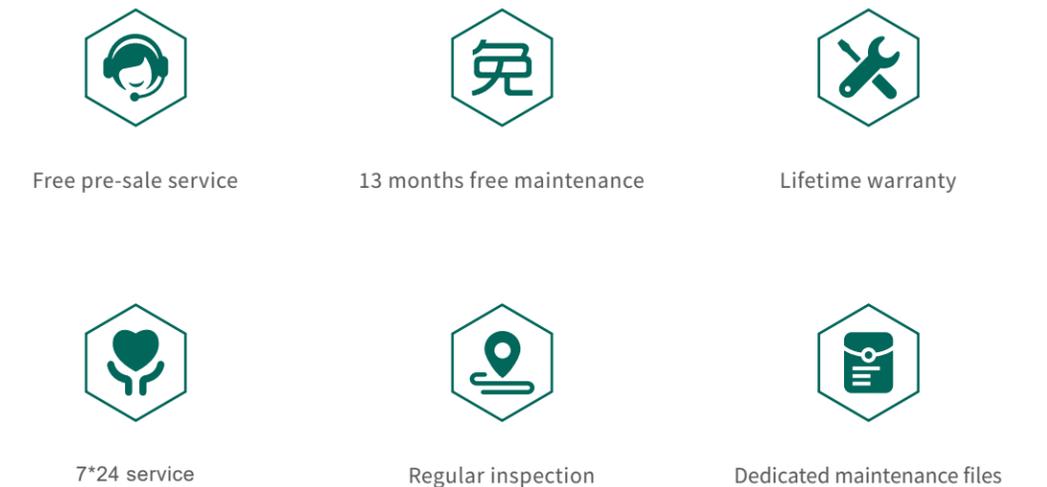
| Full process cycle and service

We provide the whole process cycle service for customers to build gas stations or upgrade, covering compressed gas system research, evaluation, design, edge calculation, equipment installation, engineering installation, intelligent iot system control, equipment maintenance and so on.

| Service process



| Performance pledge

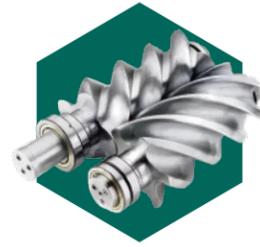


DREAM

Low Pressure Dry Oil-free Permanent Magnetic Variable Speed Screw Air Compressor

Product Features

DMWLV-G Series Low Pressure Dry Oil-free Permanent Magnetic Variable Speed Screw Air Compressor

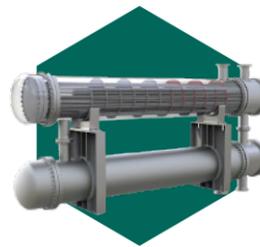


Imported Low-pressure Dedicated Oil-free Air End

1. The air compression chamber and oil chamber are completely separated. The air side adopts a stainless steel spring-loaded metal ring wear-resistant sealing system, and the lubricating oil side adopts a copper labyrinth seal wear-resistant sealing system, with no contact between the two;

2. The rotor and compression chamber walls of the air end are coated with industry-leading super coating (UITRACOAT). It can effectively prevent softening, peeling and other phenomena that are prone to occur when using general coatings such as Teflon. Has excellent anti-corrosion and gap reducing properties. Throughout the entire lifecycle, there is no significant decrease in air flow rate;

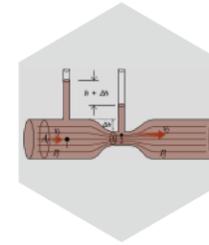
3. The casing compartment of the air end is cooled by filtered lubricating oil. Efficient cooling avoids the formation of scale due to water cooling, thereby improving the reliability of operation.



Efficient Water Cooler

The water cooler of the DREAM dry screw air compressor adopts a new type of threaded finned tube shell heat exchanger. Compressed air flows through the tube, cooling water flows through the shell side, and the tube nest is a new type of plum blossom shaped copper tube. Compared with conventional water-cooled heat exchangers, the advantages are as follows:

1. Compressed air travels through the tube, which increases the pressure bearing capacity relative to the outer finned tube;
2. The cooling water flows through the shell side, which is relatively different from the process inside the pipe. After passing through multiple sets of baffle components, the turbulence level of the cooling water is increased, the probability of dirt formation on the pipe wall is reduced, the equipment cleaning cycle is extended, and the maintenance cost for users is reduced;
3. When the air passes through the tube and the fins extend axially inside the tube, the pressure drop per unit windward area generated by the transverse sweep of the outer fins is relatively low compared to the outer fins. It is safe and reliable to use, and the fins are not easily detached;
4. The installation of the heat exchanger is simple and the same as that of conventional shell and tube heat exchangers;
5. Stainless steel sheet metal is used on the pipe side to prevent corrosion and rust of the cooler caused by high temperature and pressure, which may affect the service life and air quality of the compressor air end;
6. The tube nest can be independently disassembled, making it convenient for users to maintain and upkeep;
7. Compressed air flows through the pipe side and water flows through the shell side to reduce the noise generated by compressed air.



Noise Reducing Venturi Tube

All the main units of the air compressor are equipped with the latest developed Venturi tube muffler, as well as an impedance integrated muffler, which can greatly eliminate the noise emitted by the compressor pipeline.



Silent Centrifugal Fan

The DREAM dry screw air compressor adopts the latest centrifugal fan, which has a large cooling air volume, low noise, stable and uniform air pressure, fully utilizes the cooling area of the cooler, and significantly reduces the noise of the air compressor by 6-8 dB (A), providing customers with a quiet environment.



Noise Reduction Sheet Metal Design

Multiple noise reduction design, calculated based on noise theory, with dedicated flame-retardant sound-absorbing cotton pasted inside to reduce unit noise and provide a quieter usage environment.



Independent Air Intake System

Independent air intake ensures that the intake temperature is equal to the ambient temperature. Choosing a large surplus air filter results in better filtration efficiency, lower intake pressure loss, and energy efficiency. Maintenance and replacement are more convenient.



Permanent Magnet Variable Speed Control System

Large size color LCD touch screen with excellent human-machine communication interface; Customized vector frequency inverter, perfectly matched with the motor; A dedicated program that fully monitors various parameters of the machine, automatically controls the machine status without the need for dedicated supervision, and has an independent air duct design that is suitable for various working conditions.



Reliable Intake Valve

The high-efficiency intake valve works more stably and reliably, avoiding regular replacement of pneumatic components and reducing unnecessary downtime and maintenance costs.



DMWLV-G series

Low-pressure dry oil-free permanent magnet frequency conversion Screw air compressor

Germany imported low-voltage host, German Rheinland grade 0 oil-free certification, all stainless steel design, ultra-low pressure loss pipeline muffler design, no gas consumption oil mist separation, IE5 efficiency permanent magnet motor, frequency conversion design, constant pressure operation.



German imported host



TUV Rheinland Class CertifiOil 0 Free cates



All stainless steel design



Ultra-low pressure drop Pipe muffler design



Oil mist separation without air consumption



IE5 efficiency permanent magnet motor



Inverter design Constant pressure operation



High efficiency water coolingcooler

DMWLV-G series	working pressure		capacity		power		noise	Airoutlet pipe diameter	net weight kg		dimensions(mm)					
	bar	psig	(m³/min)	cfm	kW	hp			dB	Air-cooled		water-cooled				
							Air-cooled	water-cooled		length	width	height	length	width	height	
DMWLV-45G	2	29	16.3	575	45kW	60	72±3	DN100	2950	2950	2200*1550*2090			2400*1500*1700		
	2.5	36	14.5	512												
	3	44	12.2	431												
DMWLV-55G	2	29	20.1	710	55kW	75	74±3	DN100	3000	3000	2200*1550*2090			2400*1500*1700		
	2.5	36	16.1	568												
	3	44	13.9	491												
DMWLV-75G	2	29	26.3	928	75kW	100	75±3	DN100	3050	3050	2200*1550*2090			2400*1500*1700		
	2.5	36	23.1	815												
	3	44	19.5	688												
DMWLV-90G	2	29	30.4	1073	90kW	120	76±3	DN100	3100	3100	2200*1550*2090			2400*1500*1700		
	2.5	36	27.7	978												
	3	44	24.2	854												
DMWLV-110G	2	29	44.0	1553	110kW	150	76±3	DN150	3700	3700	3100*2000*2103			3100*2000*2103		
	2.5	36	37.0	1306												
	3	44	33.1	1168												
DMWLV-132G	2	29	50.2	1772	132kW	175	76±3	DN150	3800	3800	3100*2000*2103			3100*2000*2103		
	2.5	36	43.5	1536												
	3	44	36.7	1296												
DMWLV-160G	2	29	52.8	1864	160kW	215	77±3	DN150	3900	3900	/			3100*2000*2103		
	2.5	36	49.9	1761												
	3	44	43.1	1521												
DMWLV-185G	2	29	71.5	2524	185kW	250	80±3	DN200	4500	4500	/			3700*2200*2303		
	2.5	36	61.3	2164												
	3	44	55.0	1942												
DMWLV-200G	2	29	75.2	2655	200kW	270	80±3	DN200	4700	4700	/			3700*2200*2303		
	2.5	36	70.9	2503												
	3	44	62.5	2206												
DMWLV-220G	2	29	83.5	2948	220kW	300	81±3	DN200	4900	4900	/			3700*2200*2303		
	2.5	36	76.4	2697												
	3	44	66.0	2330												
DMWLV-250G	2	29	/	/	250kW	350	81±3	DN200	5100	5100	/			3700*2200*2303		
	2.5	36	82.5	2912												
	3	44	75.8	2676												
DMWLV-280G	2	29	/	/	280kW	375	82±3	DN250	5200	5200	/			3700*2200*2303		
	2.5	36	/	/												
	3	44	81.4	2873												
DMWLV-315G	2	29	122.0	4307	315kW	422	84±3	DN250	6900	6900	/			4200*2400*2500		
	2.5	36	110.8	3911												
	3	44	97.5	3442												
DMWLV-355G	2	29	133.0	4695	355kW	476	84±3	DN250	7000	7000	/			4200*2400*2500		
	2.5	36	120.2	4243												
	3	44	109.7	3872												
DMWLV-400G	2	29	-	-	400kW	536	85±3	DN250	7200	7200	/			4200*2400*2500		
	2.5	36	132.0	4660												
	3	44	120.0	4236												

Application scenarios

In hospitals, many medical and related equipment require air compressors to provide compressed air sources, including some healthcare equipment, dental equipment, respiratory equipment, etc. These compressed air come into direct contact with the human body, so the selected air compressor must be oil-free. Food industry: The compressed air produced by oil-free air compressors is mainly used for mechanical power actuators or some basic functional mechanical arms on assembly lines, and a portion is also used for instrument air. Due to direct or indirect contact with food, it is necessary to use oil-free series air compressors.



Product Cases



A certain biotechnology company requires low-pressure cultivation air during the production of yeast culture. The production process of this project has very high requirements for the quality of compressed air, which must be absolutely oil-free and dry as much as possible. Based on the customer's demand for new air consumption and requirements for compressed air, DREAM recommends the DMWLV series dry oil-free units to the customer. DREAM has a wide customer base in the biological fermentation industry and has accumulated a wealth of experience. Therefore, the professional solutions proposed by DREAM have made customers very satisfied and reassured. In the end, the customer chose the DREAM air compressor.

Overall Solution

A certain pharmaceutical company is a listed company, and pharmaceutical manufacturing is one of the important businesses of the group. The existing air compressors in the company's factory have many malfunctions and high energy consumption. The group aims to improve the stability of air compressor operation, reduce energy consumption, and ensure the cleanliness and dryness of compressed air. After considering various factors, the customer ultimately chose the Demun DMWVL series oil-free air compressor and its supporting post-treatment equipment. Compressed air has gone through layers of protection, ensuring that the production air is oil-free, clean, and dry.



Energy Conservation

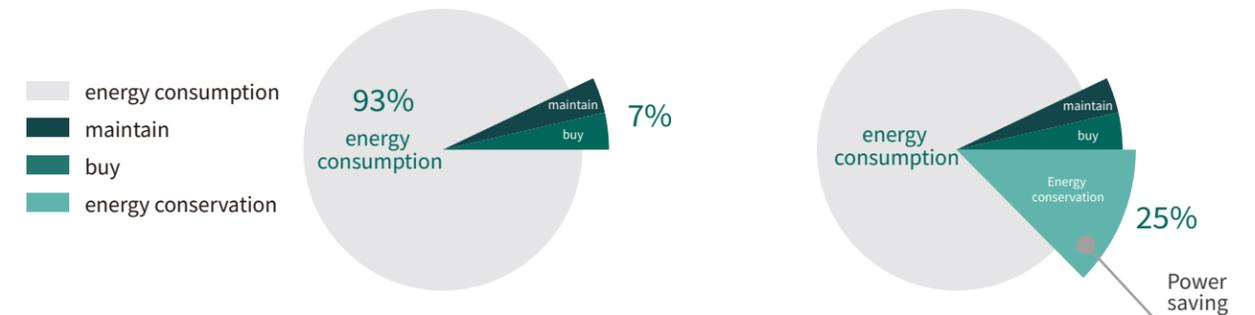
Air compressors are the "electric tigers" in industrial electricity consumption, with an average power consumption of 20%. We have made a series of efforts and research on how to use the same electricity to create more air to help users save energy, and have made important breakthroughs. The permanent magnet variable frequency screw machine developed by the company can save users about 25-35% of electricity while ensuring the original work efficiency.



Energy saving and cost reduction

When purchasing an air compressor, the traditional cost (i.e. purchase cost+maintenance cost) only accounts for 7% of the total cost, while energy consumption accounts for 93%. The two-stage compression direct connection/permanent magnet screw air compressor saves 25-30% energy compared to ordinary (power frequency) air compressors.

— taking 75KW as an example



- intelligent control
- Rust proof shell
- Efficient and energy-saving
- Constant current and stable voltage
- Easy to use and worry free
- reduce the noise



DREAM

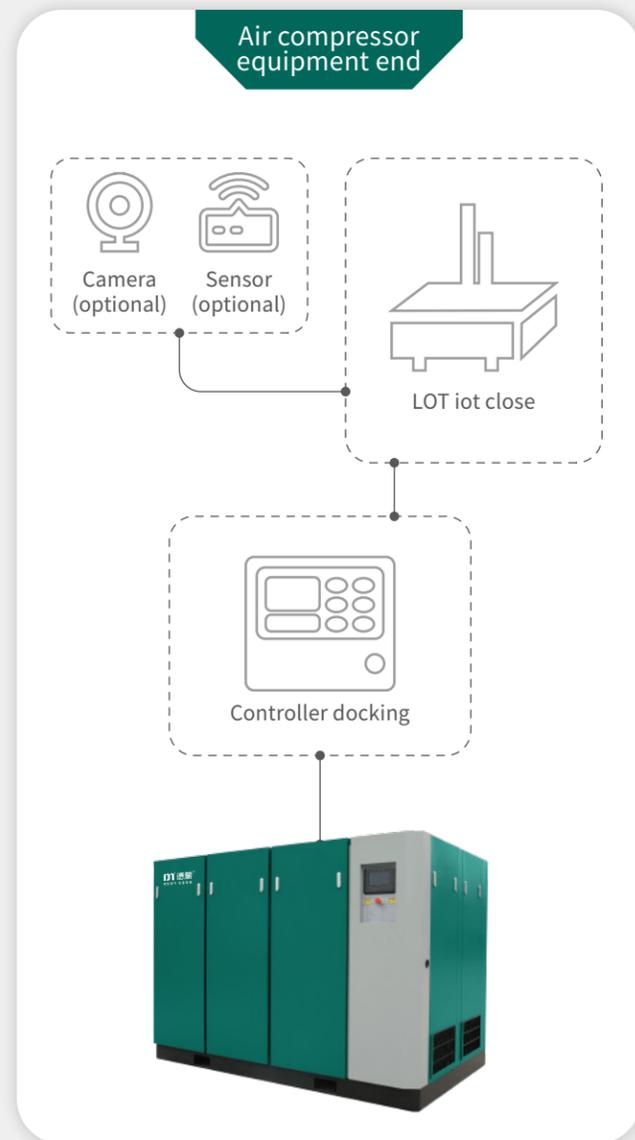
Intelligent control technology

cloud intelligent control three functions and value

- Digital station intelligent control**
 - reduce operation and maintenance costs by 10-30%
 - 3D virtual air compressor station
 - data Min monitoring
 - workshop diagnosis report
 - fault online prezi
 - maintenance cycle reminder

- Intelligent control Intelligent tuning**
 - reduce manual labor time by 50%
 - automatic control of air compressor
 - AI algorithm autonomous tuning
 - dynamic decision-making of equipment priority
 - intelligent control of auxiliary equipment

- Whole station energy saving Whole station energy saving**
 - save the power consumption of 5-30%
 - edge computing technology
 - narrow band constant voltage technology
 - multi-parameter and multi constraint control algorithm
 - big data visualization technology



Digital station house

Station monitoring + control (computer) air compressor, cold dryer, suction dryer, water, fan, waste heat recovery machine, flow meter, electricity meter, etc Intelligent monitoring technology Based on the "Internet of Things"

Intelligent monitoring technology

Based on the "Internet of Things" intelligent control technology, the product has the ability to transport parameters through cloud technology, and our users can achieve it through computers or mobile phone apps.

