

STABLE | ENERGY-SAVING | CLEAN | AND EFFICIENT

Oil-free air compressor



Class 0
ISO8573-1



Dream (Shanghai) Compressor Co.,Ltd.

📍 (International Sales & Operation Center) Room 316, 3rd Floor,
Building 1, Lane 288, Rongxing Road, Zhongshan Street,
Songjiang District, Shanghai

(Zhejiang Manufacturing Center) No. 916, Chuangzhi Road, Xindai Town,
Pinghu City, Jiaxing City, Zhejiang Province

☎ 86-13671551445
✉ sales@dmcomp.com

WeChat QR code



Facebook Company Page



www.dreamcompressor.com
www.dmcomp.com

Dream(Shanghai) Compressor Co.,Ltd.

01



DMWV-G series
Dry oil-free permanent magnet
variable frequency
screw air compressor

02



DMW-G series
Dry oil-free power frequency
screw air compressor

03



DMWLV-G series
Low pressure dry oil-free permanent
magnet variable frequency
screw air compressor

04



DMWV-G series
Oil-free water lubrication permanent
magnet variable frequency
screw air compressor

05



DMW-G series
Oil-free water lubricated power frequency
screw air compressor

06



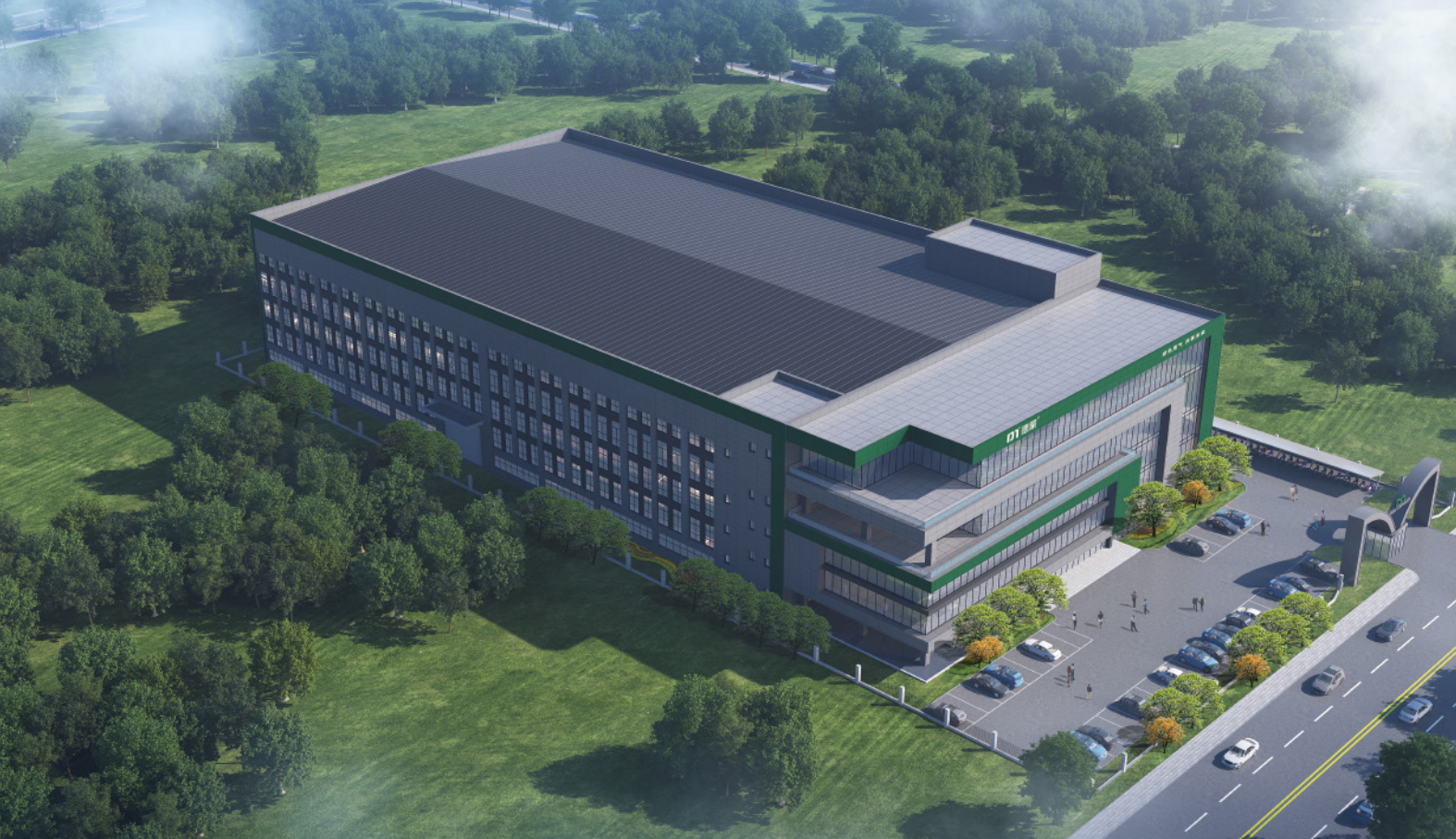
DMW-A series
Oil free vortex air compressor

Catalogue

- 01 About DREAM
- 02 DREAM culture
- 03 Corporate Honors
- 05 DREAM Intelligent Manufacturing
- 07 DMWV-G series Dry oil-free permanent magnet variable frequency screw air compressor
DMW-G series Dry oil-free power frequency screw air compressor
- 11 DMWLV-G series Low pressure dry oil-free permanent magnet variable frequency screw air compressor
- 15 DMWV-G series Oil-free water lubrication permanent magnet variable frequency screw air compressor
DMW-G series Oil-free water lubricated power frequency screw air compressor
- 19 DMW-A series Oil free vortex a
- 23 Energy saving and cost reduction

Demong compressor product parameter table follows:

1. Gas volume flow with the exhaust volume value in the following state (temperature: 32°C, atmospheric pressure: 101.325KPa)
2. The exhaust pressure is the pressure value after the minimum pressure valve
3. Noise value is the value of no echo chamber, test tolerance: 3dB(A)
4. For use under harsh conditions such as high temperature, high humidity, high cold and high dust, please consult the company
5. Dimensions and weight of the whole machine are subject to change without prior notice
6. Please do not use compressed air directly for human inhalation of medical equipment



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.

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



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,Eu-rope,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.



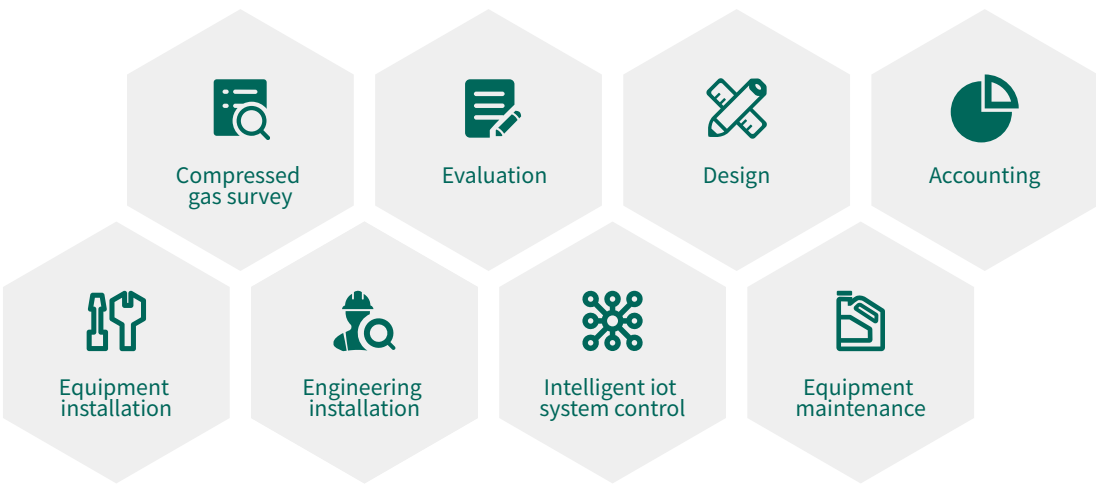
Dream Intelligent Manufacturing
Six core competencies



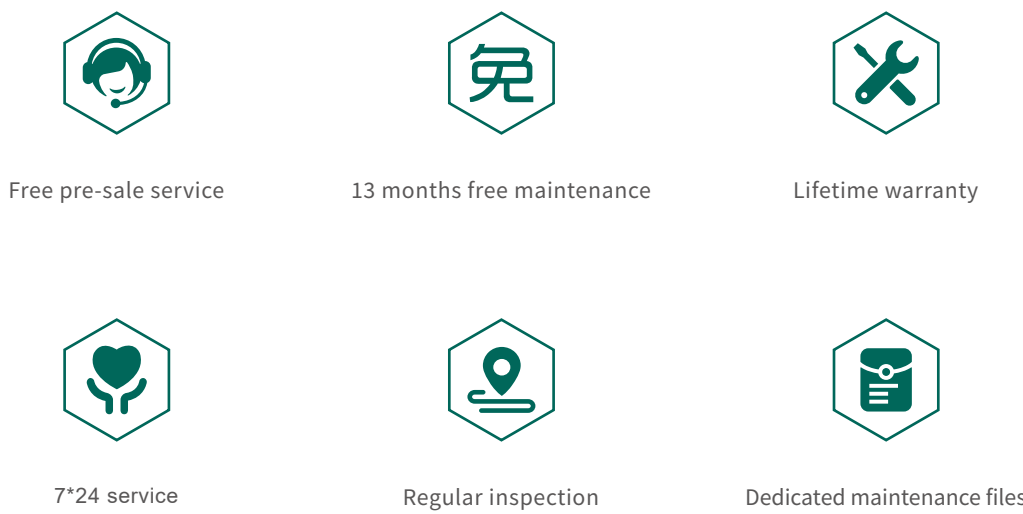
Full process cycle and service

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



DMW-G series
Dry oil-free permanent magnet
variable frequency

Product characteristics



Imported oil-free main engine

- 1. The air compression chamber is completely separated from the oil chamber, and the two are not in contact.
- 2. The two-stage rotor is made of stainless steel, which is more reliable.
- 3. The inner wall of the rotor and compression chamber of the main engine is coated with the industry's first-class super coating (UITRACOAT). It can effectively prevent the softening and falling off of general coatings such as Teflon. It has excellent anti-corrosion and reduces the role of mesh clearance. The gas volume doesn't decrease significantly during the whole life cycle.
- 4. The shell compartment of the main engine is cooled by filtered lubricating oil. Efficient cooling, avoiding water cooling caused by scale.



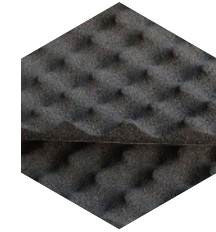
Permanent magnet frequency conversion electronic control system

Large color LCD touch screen, with good man-machine interface; Customized vector inverter, perfect match with the motor; Special program, fully monitor the parameters of the machine, automatically control the state of the machine, without special care; Independent air duct design, suitable for various working conditions.



Independent air intake system

Independent air intake to ensure that the intake air temperature is equal to the ambient temperature. The selection of large margin air filter, better filtering effect, lower intake pressure loss, energy saving and high efficiency. More convenient maintenance and replacement.



Noise reduction sheet metal design

Multiple noise reduction design, according to the noise calculation, the internal paste special flame retardant silencer cotton, reduce the noise of the unit, provide a quieter environment.

DMWV-G series
Dry oil-free permanent magnet
variable frequency
screw air compressor

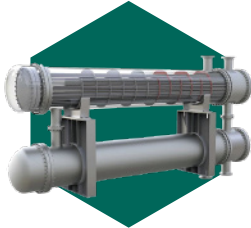


DMW-G series
Dry oil-free power frequency
screw air compressor



Silent centrifugal fan

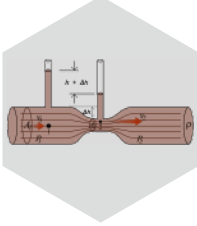
Dream dry screw air compressor adopts the latest centrifugal fan, cooling air volume is large, low noise, wind pressure is stable and uniform, so that the cooling area of the cooler is fully utilized, and greatly reduces the noise of the air compressor 6-8dB(A) to return a quiet environment for customers.



High efficiency water cooler

The water cooler adopts a new type of threaded finned tube shell heat exchanger, compressed air in the tube, cooling water in the shell side, the tube nest is a new plum blossom type copper tube, compared with the conventional water-cooled heat exchanger, the advantages are as follows:

- 1. Compressed air pipeline, pressure capacity is improved;
- 2. Cooling water shell process, cooling water through multiple groups of baffling parts, the degree of turbulence is increased, the probability of dirt formation on the attached pipe wall is reduced, prolong the equipment cleaning cycle, reduce the maintenance cost of users;
- 3. The gas goes through the tube and the fins extend axially in the tube, the use is safe and reliable, and the fins are not easy to fall off;
- 4. The installation of the heat exchanger is simple, the same as that of the conventional shell and tube heat exchanger;
- 5. Stainless steel plate is used on the side of the pipe to prevent corrosion and rust of the cooler due to high temperature and high pressure, affecting the life of the compressor host and air quality;
- 6. Tube nest can be disassembled independently, convenient maintenance;
- 7. Compressed air pipeline, water shell process, reduce the noise generated by compressed air.



Noise-cancelling venturi

The primary and secondary hosts of the air compressor all use the newly developed Venturi tube silencer, as well as the impedance integrated silencer, which can greatly eliminate the noise emitted by the compressor pipeline.



Reliable intake system

Efficient intake valve, more stable and reliable operation, avoiding the regular replacement of pneumatic components, reducing unnecessary downtime and maintenance costs.

DMWV-G series	working pressure		capacity		power		noise	Air outlet pipe diameter	net weight kg		dimensions(mm)					
	bar	psig	(m³/min)	cfm	kW	hp	dB		Air-cooled	water-cooled	length	width	height	length	width	height
											Air-cooled			water-cooled		
DMWV-37G	8	116	3.6-5.6	127-198	37	50	69±3	G1 1/2"	1800	1950	2000	1300	1820	2200	1500	1720
DMWV-45G	7	102	4.5-7.8	159-275	45	60	69±3	G1 1/2"	1800	1850	2000	1300	1820	2200	1500	1720
	8	116	4.0-6.8	141-240												
	10	145	3.7-6.4	132-226												
DMWV-55G	7	102	5.7-9.8	202-346	55	75	69±3	G1 1/2"	1900	1950	2000	1300	1820	2200	1500	1720
	8	116	5.2-9.0	182-318												
	10	145	4.4-7.8	157-275												
DMWV-75G	7	102	7.6-13.0	268-459	75	100	70±3	DN50	2000	2050	2200	1400	2000	2200	1500	1720
	8	116	7.2-12.2	253-431												
	10	145	6.6-11.2	234-396												
DMWV-90G	7	102	9.6-16.0	332-565	90	120	71±3	DN50	2100	2150	2200	1400	2000	2200	1500	1720
	8	116	8.1-13.8	286-487												
	10	145	7.6-13.1	269-463												
DMWV-110G	7	102	12.1-20.6	429-727	110	150	71±3	DN65	3100	3150	3000	1990	2180	2800	1900	1990
	8	116	11.6-19.5	408-689												
	10	145	11.1-18.8	391-664												
DMWV-132G	7	102	14.7-24.8	518-876	132	175	73±3	DN65	3200	3250	3000	1990	2180	2800	1900	1990
	8	116	13.6-23.0	480-812												
	10	145	11.5-19.5	406-689												
DMWV-160G	7	102	16.9-28.5	596-1006	160	215	73±3	DN65	3300	3400	3000	1990	2180	2800	1900	1990
	8	116	15.6-26.3	550-929												
	10	145	14.1-23.8	497-840												
DMWV-185G	7	102	19.5-32.8	687-1158	185	250	74±3	DN65	3400	3500	3000	1990	2180	2800	1900	1990
	8	116	17.1-28.9	605-1021												
	10	145	16.3-27.5	575-971												
DMWV-200G	7	102	21.8-36.8	768-1300	200	270	74±3	DN100	5570	5000	4500	2000	2150	3100	2200	2103
	8	116	20.4-34.6	721-1222												
	10	145	18.1-30.6	640-1081												
DMW-220G	7	102	24.9-41.5	879-1466	220	300	74±3	DN100	5600	5100	4500	2000	2150	3100	2200	2103
	8	116	22.4-37.3	790-1317												
	10	145	19.8-33	699-1165												
DMWV-250G	7	102	27.3-46.0	964-1624	250	350	74±3	DN100	5800	5200	4500	2000	2150	3100	2200	2103
	8	116	25.3-42.8	893-1511												
	10	145	22.7-38.2	803-1348												
DMWV-280G	7	102	31.6-48.6	1116-1716	280	375	76±3	DN100	5900	5300	4500	2000	2150	3100	2200	2103
	8	116	30.9-47.5	1090-1677												
	10	145	29.3-45	1033-1589												
DMWV-315G	7	102	34.1-52.5	1205-1854	315	422	77±3	DN100	6000	5400	4500	2000	2150	3100	2200	2103
	8	116	32.9-50.6	1161-1787												
	10	145	31.5-48.5	1113-1713												

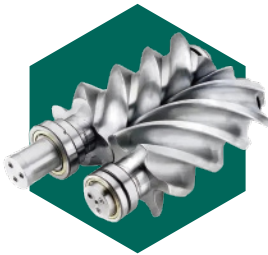
DMW-G series	working pressure		capacity		power		noise	Air outlet pipe diameter	net weight kg		dimensions(mm)					
	bar	psig	(m³/min)	cfm	kW	hp	dB		Air-cooled	water-cooled	length	width	height	length	width	height
											Air-cooled			water-cooled		
DMW-37G	8	116	5.6	197.7	37	50	69±3	G1 1/2"	1900	1950	2000	1300	1820	2200	1500	1720
	7	102	7.8	275.5	45	60	69±3	G1 1/2"	1900	1950	2000	1300	1820	2200	1500	1720
DMW-45G	8	116	6.8	240.1												
	10	145	6.4	226.2	55	75	69±3	G1 1/2"	2000	2050	2000	1300	1820	2200	1500	1720
DMW-55G	7	102	9.8	346.1												
	8	116	9.0	317.8	75	100	70±3	DN50	2150	2200	2200	1400	2000	2200	1500	1720
DMW-75G	10	145	7.8	275.5												
	7	102	13.0	459.1	90	120	71±3	DN50	2250	2300	2200	1400	2000	2200	1500	1720
DMW-90G	8	116	12.2	430.8												
	10	145	11.2	395.5	110	150	71±3	DN65	3360	3400	3000	1990	2180	2800	1900	1990
DMW-110G	7	102	16.0	565.0												
	8	116	13.8	487.3	132	175	73±3	DN65	3500	3550	3000	1990	2180	2800	1900	1990
DMW-132G	10	145	13.1	462.6												
	7	102	20.6	727.5	160	215	73±3	DN65	3750	3850	3000	1990	2180	2800	1900	1990
DMW-160G	8	116	19.5	688.6												
	10	145	18.8	663.9	185	250	74±3	DN65	3860	3960	3000	1990	2180	2800	1900	1990
DMW-185G	7	102	28.5	1006.5												
	8	116	26.3	928.8	200	270	74±3	DN100	5730	5230	4500	2000	2150	3100	2200	2103
DMW-200G	10	145	23.8	840.5												
	7	102	32.8	1158.3	220	300	74±3	DN100	6000	5500	4500	2000	2150	3100	2200	2103
DMW-220G	8	116	28.9	1020.6												
	10	145	27.5	971.2	250	350	74±3	DN100	6400	6000	4500	2000	2150	3100	2200	2103
DMW-250G	7	102	36.8	1299.6												
	8	116	34.6	1221.9	280	375	76±3	DN100	6500	6100	4500	2000	2150	3100	2200	2103
DMW-280G	10	145	30.6	1080.6												
	7	102	41.5	1465.6	315	422	77±3	DN100	6600	6200	4500	2000	2150	3100	2200	2103
DMW-315G	8	116	37.3	1317.2												
	10	145	33.0	1165.4	355	476	78±3	DN150	/	6250	/	/	/	5000	2400	2400
DMW-355G	7	102	46.0	1624.5												
	8	116	42.8	1511.5	400	536	78±3	DN150	/	6300	/	/	/	5000	2400	2400
DMW-400G	10	145	38.2	1347.7												
	7	102	48.6	1716.3	450	600	79±3	DN150	/	6800	/	/	/	5000	2400	2400
DMW-450G	8	116	47.5	1677.4												
	10	145	45.0	1589.2	500	670	79±3	DN150	/	7200	/	/	/	5000	2400	2400
DMW-500G	7	102	52.5	1854.0												
	8	116	50.6	1786.9	560	760	79±3	DN150	/	7200	/	/	/	5000	2400	2400
DMW-560G	10	145	48.5	1712.8												
	7	102	65.0	2295.5	7	102	78.5	2772.2	/	6800	/	/	/	5000	2400	2400
DMW-355G	8	116	59.0	2083.6												
	10	145	52.2	1843.4	450	600	79±3	DN150	/	6800	/	/	/	5000	2400	2400
DMW-400G	7	102	75.4	2662.7												
	8	116	67.0	2366.1	500	670	79±3	DN150	/	7200	/	/	/	5000	2400	2400
DMW-450G	10	145	58.9	2080.0												
	7	102	78.5	2772.2	560	760	79±3	DN150	/	7200	/	/	/	5000	2400	2400
DMW-500G	8	116	77.3	2729.8												
	10	145	66.5	2348.4	560	760	79±3	DN150	/	7200	/	/	/	5000	2400	2400
DMW-560G	7	102	86.2	3044.1												
	8	116	85.3	3012.3	560	760	79±3	DN150	/	7200	/	/	/	5000	2400	2400
DMW-560G	10	145	78.0	2754.5												
	10	145	85.0	3001.7	560	760	79±3	DN150	/	7200	/	/	/	5000	2400	2400

DREAM

Low pressure dry oil-free permanent magnet Frequency screw air compressor

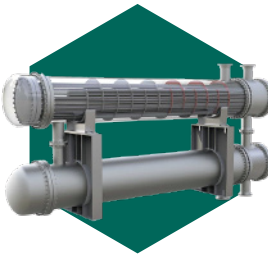
Product characteristics

DMWLV-G series
Low pressure dry oil-free permanent magnet variable frequency screw air compressor



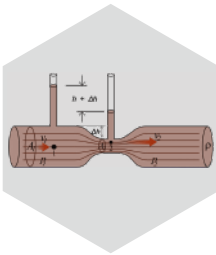
Imported low-pressure special oil-free main engine

- 1. The air compression chamber is completely separated from the oil chamber. The air side adopts the non-wear sealing system of stainless steel spring-loaded metal ring, and the lubricating oil side adopts the non-wear sealing system with copper labyrinth seal.
- 2. The inner wall of the rotor and compression chamber of the main engine is coated with the industry's first-class super coating (UITRACOAT). It can effectively prevent the softening and falling off of general coatings such as Teflon. It has excellent anti-corrosion and reduces the role of mesh clearance. The gas volume did not decrease significantly during the whole life cycle.
- 3. The shell compartment of the main engine is cooled by filtered lubricating oil. Efficient cooling, avoiding water cooling caused by scale, thus improving the reliability of operation.



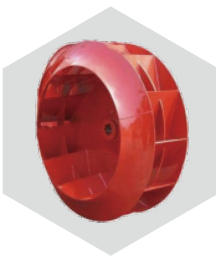
High efficiency water cooler

- Dream dry screw air compressor water cooler adopts a new type of threaded finned tube shell heat exchanger, compressed air tube, cooling water shell side, tube nest for the new plum flower type copper tube, compared with the conventional water heat exchanger, the advantages are as follows:
- 1. Compressed air pipeline, relative to the outer fin tube pressure capacity;
 - 2. Cooling water shell process, compared with the process selection in the tube, cooling water through multiple groups of baffling parts, the degree of turbulence is increased, the probability of dirt formation on the attached pipe wall is reduced, the equipment cleaning cycle is extended, and the maintenance cost of users is reduced;
 - 3. The gas runs through the tube and the fins extend axially in the tube. Relative to the outer wings, the pressure drop generated by the unit windward area is lower than that of the outer wings, the use is safe and reliable, and the fins are not easy to fall off.
 - 4. The installation of the heat exchanger is simple, the same as that of the conventional shell and tube heat exchanger;
 - 5. Stainless steel plate is used on the side of the pipe to prevent corrosion and rust of the cooler due to high temperature and high pressure, affecting the life of the compressor host and air quality;
 - 6. Tube nest can be disassembled independently, convenient maintenance;
 - 7. Compressed air pipeline, water shell process, reduce the noise generated by compressed air.



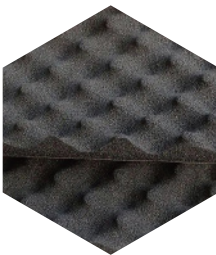
Noise-cancelling venturi

In addition to the newly developed Venturi tube silencer, there are impedance integrated silencers, which can greatly eliminate the noise emitted by the compressor pipeline.



Silent centrifugal fan

Dream dry screw air compressor adopts the latest centrifugal fan, cooling air volume is large, low noise, wind pressure is stable and uniform, so that the cooling area of the cooler is fully utilized, and greatly reduce the noise of the air compressor 6-8dB(A), and also a quiet environment for customers.



Noise reduction sheet metal design

Multiple noise reduction design, according to the noise calculation, the internal paste special flame retardant silencer cotton, reduce the noise of the unit, provide a quieter environment.

GREEN ENERGY SHARED DREAM



Independent air intake system

Independent air intake to ensure that the intake air temperature is equal to the ambient temperature. The selection of large margin air filter, better filtering effect, lower intake pressure loss, energy saving and high efficiency. More convenient maintenance and replacement.



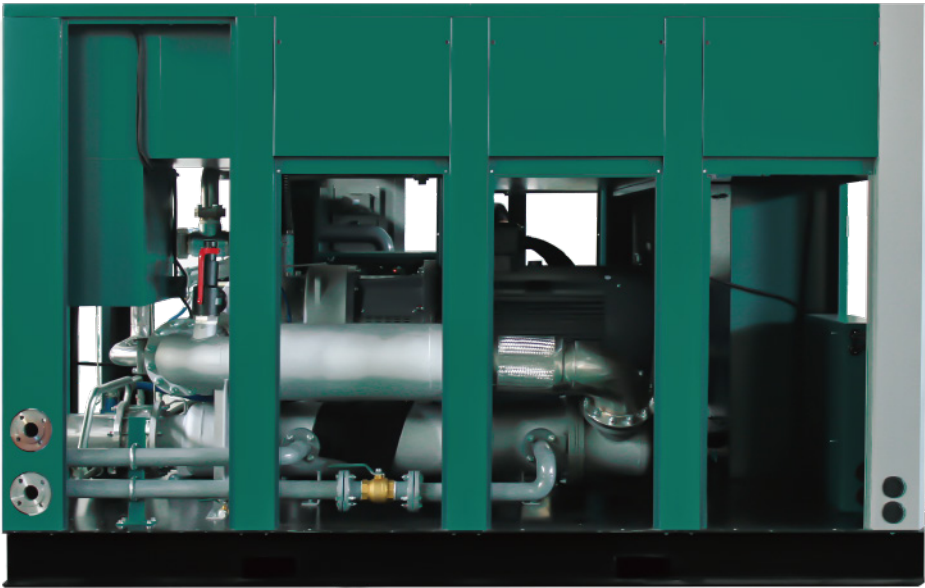
Permanent magnet frequency conversion electronic control system

Large color LCD touch screen, with good man-machine interface; Customized vector inverter, perfect match with the motor; Special program, fully monitor the parameters of the machine, automatically control the state of the machine, without special care; Independent air duct design, suitable for various working conditions.



Reliable intake valve

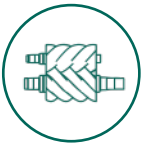
Efficient air intake valve, more stable and reliable operation, avoiding the regular replacement of pneumatic components, reducing unnecessary downtime and maintenance costs.



DMWLV-G series

Low-pressure dry oil-free permanent magnet frequency conversionScrew 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 Certification
Oil Free



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 cooling

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												

Oil-free water lubrication permanent magnet variable frequency screw air compressor

Product characteristics



Advanced water lubricated screw main engine

- 1. Made of stainless steel material, the head is free of rust and corrosion danger;
- 2. The use of water as a compression seal, cooling medium, air through water rinsing cleaner, can be pure oil-free;
- 3. The single-screw air machine has no clearance volume in theory, and has excellent dynamic lubrication performance and high working efficiency at rated speed; 4. The axial and radial forces of the single screw are balanced, and the star wheel rotates freely with the screw under water film lubrication, so the host components run smoothly under low load, ensuring low noise and durability.



High efficiency machine

Special motor for air compressor, imported brand bearings, protection grade IP54, insulation grade F, suitable for various working conditions, such as large dust, high temperature and other harsh environment; High energy efficiency motor, higher efficiency, less electricity, long-term use can significantly reduce the use of costs; The motor has large margin design and large starting torque, which can meet the requirements of the whole life under various working conditions.



Advanced and reliable electronic control system

Intelligent control system, with good man-machine interface; Selection of high-quality electrical components, contactors selected imported brands; Special program, with multi-channel pressure sensor and multi-channel temperature sensor, comprehensive detection of unit operation status, automatic control of machine status without special care; Emergency stop function, a press-type emergency stop switch is installed in a prominent position of the unit, which can be stopped immediately in an emergency; Independent air duct design, suitable for various working conditions.

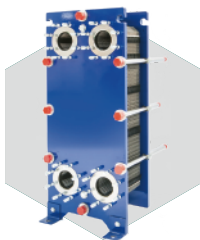


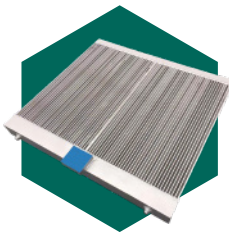
Plate cooler

With a certain corrugated shape of metal sheet stacked, the material corrosion resistant, easy to clean, long service life; Unit volume, large heat exchange area, high heat exchange efficiency, so that the water temperature has been kept within a reasonable range; Compact structure, light weight, small space.

DMWV-G series
Oil-free water-lubricated permanent magnet variable frequency screw air compressor



DMW-G series
Oil-free water lubricated power frequency screw air compressor



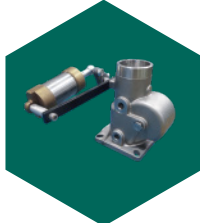
Tubular fin type air cooler

The heat exchange tube is made of copper material, which will not exchange ions with water, corrosion resistance and long service life; With efficient axial fan, sufficient air volume, good cooling effect, the external air duct is not easy to accumulate dust; The cooler is overhead, the hot air is discharged upward, there is no reflux, and the internal working temperature of the machine is stable.



High efficiency water filtration

Water filter is a full flow filter, the shell is made of stainless steel, special filter element, high filtration accuracy, long life, can filter out the east quality in the system to ensure clean lubrication water supply. The water filter is a standard feature of the water circulation system and is used to keep the system clean.



Special intake valve

The valve body is made of corrosion-resistant material, which is suitable for various environments and has high service life. Heavy weight structure, accurate and rapid gas control, low pressure loss; High integration, no wearing parts, simple maintenance, easy adjustment.



High efficiency water and gas separation tank

The excellent cyclone separation structure design is adopted, and the test proves that the water-air separation effect is good. Selection of all stainless steel material, corrosion resistance; Water level three induction alarm, automatic elimination and water supply.



Renewable ion exchange water softener

Automatic control of operation and regeneration process, no manual operation; Using ion exchange resin, reduce the hardness of raw water, achieve the purpose of softening hard water, avoid scaling, protect the system; Exchange resin is renewable and low cost.

DMWV-G series	working pressure		capacity		power		noise	Airoutlet Pipe diameter	net weight	dimensions(mm)		
	bar	psig	(m³/min)	cfm	kW	hp	dB		kg	length	width	height
DMWV-22G	7	102	2.2-3.7	78-131	22	30	61±3	G1"	655	1400	1000	1200
	8	116	2.0-3.4	71-120								
	10	145	1.8-3.0	64-106								
DMWV-30G	7	102	3.1-5.2	109-184	30	40	64±3	G1 1/2"	1150	1920	1170	1320
	8	116	2.8-4.7	99-166								
	10	145	2.5-4.3	88-152								
DMWV-37G	7	102	3.6-6.1	127-215	37	50	64±3	G1 1/2"	1200	1920	1170	1320
	8	116	3.3-5.6	117-198								
	10	145	3.0-5.0	106-177								
DMWV-45G	7	102	4.5-7.5	159-265	45	60	66±3	G2"	1320	1920	1170	1320
	8	116	4.0-6.8	140-240								
	10	145	3.6-6.0	127-212								
DMWV-55G	7	102	6.0-10.0	212-353	55	75	66±3	DN50	1520	1930	1320	1535
	8	116	5.4-9.0	191-318								
	10	145	4.6-7.8	162-275								
DMWV-75G	7	102	7.8-13.0	275-459	75	100	70±3	DN50	1620	1930	1320	1535
	8	116	7.2-12.0	254-424								
	10	145	6.0-10.0	212-353								
DMWV-90G	7	102	9.3-15.5	318-547	90	120	70±3	DN80	1800	1930	1320	1535
	8	116	8.4-14.0	297-494								
	10	145	7.5-12.5	265-441								
DMWV-110G	7	102	12.0-20.0	424-706	110	150	72±3	DN80	3100	2300	1600	1750
	8	116	10.8-18.0	381-636								
	10	145	9.6-16.0	339-565								
DMWV-132G	7	102	15.0-25.0	530-883	132	175	72±3	DN80	3250	2300	1600	1750
	8	116	13.8-23.0	487-812								
	10	145	12.0-20.0	424-706								

DMWV-G series	working pressure		capacity		power		noise	Airoutlet pipe diameter	net weight	dimensions(mm)		
	bar	psig	(m³/min)	cfm	kW	hp	dB		kg	length	width	height
DMW-22G	7	102	3.7	131	22	30	61±3	G1"	655	1400	1000	1200
	8	116	3.4	120								
	10	145	3.0	106								
DMW-30G	7	102	5.2	184	30	40	64±3	G1 1/2"	1150	1920	1170	1320
	8	116	4.7	166								
	10	145	4.3	152								
DMW-37G	7	102	6.1	215	37	50	64±3	G1 1/2"	1200	1920	1170	1320
	8	116	5.6	198								
	10	145	5.0	177								
DMW-45G	7	102	7.5	265	45	60	66±3	G1 1/2"	1320	1920	1170	1320
	8	116	6.8	240								
	10	145	6.0	212								
DMW-55G	7	102	10.0	353	55	75	66±3	DN50	1520	1930	1320	1535
	8	116	9.0	318								
	10	145	7.8	275								
DMW-75G	7	102	13.0	459	75	100	70±3	DN50	1620	1930	1320	1535
	8	116	12.0	424								
	10	145	10.0	353								
DMW-90G	7	102	15.5	547	90	120	70±3	DN50	1800	1930	1320	1535
	8	116	14.0	494								
	10	145	12.5	441								
DMW-110G	7	102	20.0	706	110	150	72±3	DN80	3100	2300	1600	1750
	8	116	18.0	636								
	10	145	16.0	565								
DMW-132G	7	102	25.0	883	132	175	72±3	DN80	3250	2300	1600	1750
	8	116	23.0	812								
	10	145	20.0	706								

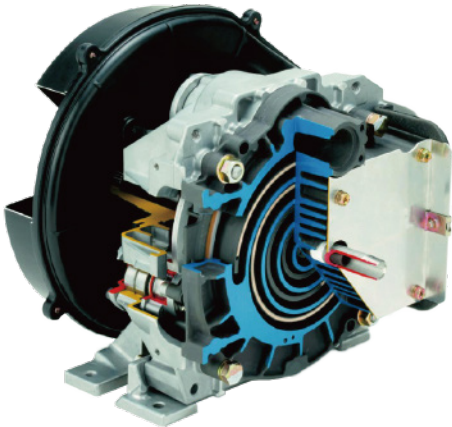
Cooling method：(Air-cooled：DMW-22G~DMW-45G)、(Water：DMW-55G~DMW-132G)

DREAM

Oil free vortex air compressor

Product characteristics

DMW-A series
Oil free vortex air compressor



Reliable performance of the original mainframe

The main engine adopts the design of dynamic and static scroll with three seals, which makes the compression process more stable. Multi-wing cooling fan for efficient cooling of the main engine.

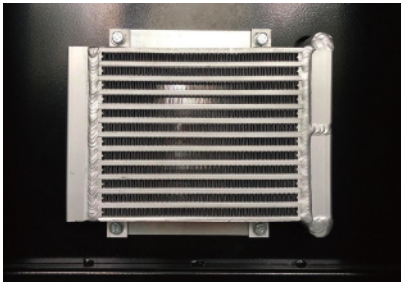
Efficient main motor

The well-known brand main motor is adopted, the energy efficiency grade is IE3, and the design standard fully meets the requirements of the air compressor for torque and load, so that the main motor can reach the highest working efficiency and power factor at full load and partial load. IP55 protection grade TEFC main motor, insulation class F, so that it can adapt to a variety of working environments, to ensure the reliability of the main motor.

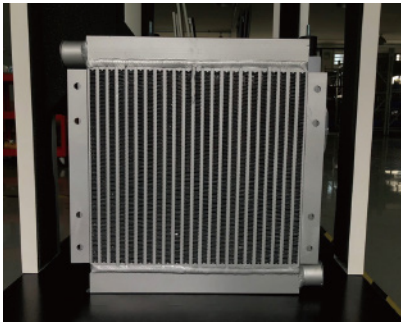


Secondary cooler with high heat transfer efficiency

Two level cooler design, cooling more fully. Each scroll host has a separate cooler (primary cooler), and the whole machine is equipped with a secondary cooler to further reduce the exhaust temperature. The fan of the secondary cooler can automatically start and stop according to the exhaust temperature, saving energy.



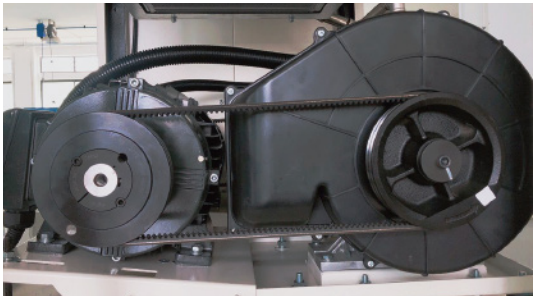
Primary cooler



Secondary cooler

Reliable transmission system

Traditional belt systems with automatic tensioning function maintain efficient operation throughout the running time. The system is easy to maintain, stable and reliable, and can protect the host to the greatest extent during startup.



GREEN ENERGY SHARED DREAM

Intelligent control system

Dream self-developed Smart Control control system can control up to 10 oil-free scroll hosts. When multiple hosts participate in the operation, the control system will make each host maintain the same running time to reduce the user's maintenance costs, the control system will also detect the running time of each host and the unit rotation time. If the "rotation time" is reached, the system automatically switches the running host, shuts down the host with the longest running time, and starts the host with the shortest running time.



Each host is controlled by an independent controller. The failure of a single controller does not affect the running of other hosts and is highly reliable. The controller complies with CE certification and has powerful functions. On the large color screen of the control system, the temperature of each host, the current of each motor, the running time, the exhaust pressure can be displayed, and it has a variety of functions such as reverse phase protection, maintenance reminders, etc., which is easy to use.





Oil-free scroll type
Air compressor

High quality compressed air

The quality of compressed air is the key to the user, oil and oil mist, water, particles are the three major factors affecting the quality of compressed air. ISO8573-1:2010 provides a strict definition of the quality standards of compressed air, especially the oil content standards of compressed air. We understand the importance of compressed air quality to our customers and provide them with Class 0 compliant compressed air with zero risk (zero risk of contamination, zero risk of damaged or unsafe products, zero risk of operational disruption losses) to help you succeed in the competition.

Product characteristics

- 100% oil free**

It can be used in any industry and is especially suitable for users who require high oil content in compressed air.
- Quiet operation**

The operation noise of the scroll air compressor is extremely low, and the working environment is healthier.
- Easy to install**

It occupies a small area and can be installed near the gas point, thereby reducing the installation of compressed air pipe network and effectively reducing the installation cost of pipe network.
- Simple maintenance**

No need to replace or add lubricating oil, only need to replace a small amount of consumables regularly, low maintenance costs.
- Zero release**

Only condensate is discharged, no harmful substances are discharged, in line with the Sustainable development Goals.



DMW-A series	Top row Gas pressure	Volume flow (FAD)	cfm	Host machine power	Host machine framework	rated stress	noise Lv.	length	width	height	Airoutlet pipe diameter	net weight	note
	bar	L/min		kW		Mpa	dB(A)	mm	mm	mm		kg	
DMW-02A-8	8	240	8.48	3	2.2*1	0.8	60±2	640	660	890	1/2"	200	
DMW-02A-10	10	210	7.42	3	2.2*1	1	60±2	640	660	890	1/2"	200	
DMW-02SAT-8	8	240	8.48	3	2.2*1	0.8	60±2	660	960	1360	1/2"	280	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-02SAT-10	10	210	7.42	3	2.2*1	1	60±2	660	960	1360	1/2"	280	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-04A-8	8	410	14.48	3.7	3.7*1	0.8	60±2	640	660	890	1/2"	220	
DMW-04A-10	10	360	12.72	3.7	3.7*1	1	60±2	640	660	890	1/2"	220	
DMW-04SAT-8	8	410	14.48	3.7	3.7*1	0.8	60±2	660	960	1360	1/2"	300	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-04SAT-10	10	360	12.72	3.7	3.7*1	1	60±2	660	960	1360	1/2"	300	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-05A-8	8	600	21.19	5.5	5.5*1	0.8	60±2	640	660	890	3/4"	350	
DMW-05SAT-8	8	600	21.19	5.5	5.5*1	0.8	60±2	1490	800	1470	1/2"	410	With a cold dryer/with 200L gas storage tank/with 2 precision filters
DMW-07A-8	8	816	28.82	7.5	3.7*2	0.8	68±2	1060	690	1090	3/4"	300	
DMW-07A-10	10	760	26.85	7.5	3.7*2	1	68±2	1060	690	1090	3/4"	300	
DMW-11A-8	8	1200	42.39	11	5.5*2	0.8	68±2	1060	690	1090	3/4"	340	
DMW-11AI-8	8	1200	42.39	11	3.7*3	0.8	68±2	1060	690	1495	3/4"	430	
DMW-11AI-10	10	1080	38.15	11	3.7*3	1	68±2	1060	690	1495	3/4"	430	
DMW-15A-8	8	1600	56.52	15	3.7*4	0.8	70±2	1060	700	1965	1"	620	
DMW-15A-10	10	1440	50.87	15	3.7*4	1	70±2	1060	700	1965	1"	620	
DMW-16A-8	8	1800	63.58	16.5	5.5*3	0.8	70±2	1060	690	1495	1"	490	
DMW-18A-8	8	2140	75.59	18.5	3.7*5	0.8	70±2	1560	1265	1775	1"	840	
DMW-18A-10	10	1770	62.52	18.5	3.7*5	1	70±2	1560	1265	1775	1"	840	
DMW-22A-8	8	2550	90.07	22	5.5*4	0.8	70±2	1060	700	1965	1"	700	
DMW-22AI-8	8	2550	90.07	22	3.7*6	0.8	70±2	1560	1265	1775	1"	910	
DMW-22A-10	10	2110	74.53	22	3.7*6	1	70±2	1560	1265	1775	1"	910	
DMW-30A-8	8	3400	120.10	30	3.7*8	0.8	75±2	1560	1265	2020	1 1/4"	1140	
DMW-30A-10	10	2810	99.26	30	3.7*8	1	75±2	1560	1265	2020	1 1/4"	1140	
DMW-33A-8	8	3600	127.16	33	5.5*6	0.8	70±2	1560	1265	1775	1 1/4"	1160	

Energy Conservation

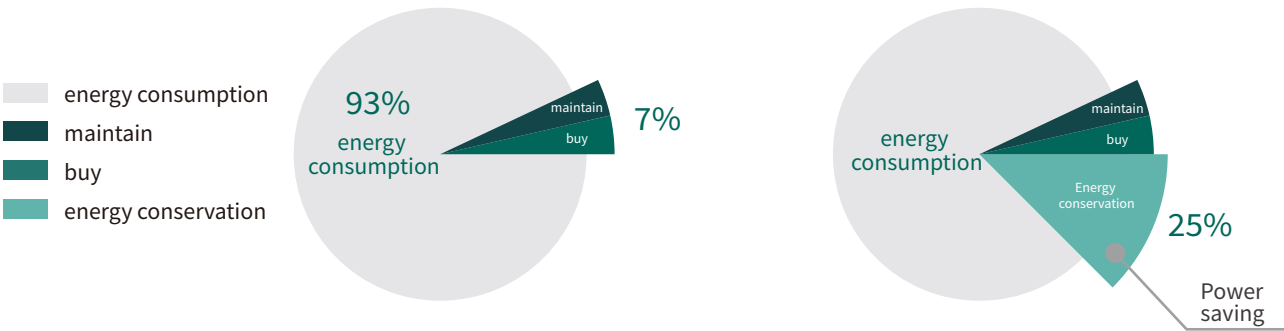
Air compressors are the "electric tigers" in industrial electricity consumption,with an average power consumption of 20%. We have made a series of efforts and research on how to use the same electricity to create more air to help users save energy,and have made important breakthroughs. The permanent 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.

— aking 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

