

OIL-FREE SCROLL AIR COMPRESSOR

Reliable Performance & Clean and Oil-Free & Low Vibration & Low Noise



Less Main Motor Component & Simple Structure High Reliability & Long Service Life

Pursue better product performance and user experience.



Cleanness

Conform to the global highest standard of oil free air compressing, use air and be clean and safe.



Reliability

Less accessories, no wearing parts, long service life and less maintenance.



Energy saving

Paralleling several machines and Automotive controlling specific main machine according to the actual use. No pollution.



Silence

Low noise and vibration; It can be used for precise machines.

Company Profile



Shenzhen V&T Technologies Co., Ltd. is a listed company (the stock code: 300484). Located in Guangming district, Shenzhen, we have engaged in AC drive, EV motor controller, elevator controller and servo driver for about 20 years. Oil-Free Scroll Air Compressor is our new product specialized in industries with the standard of 0-class oil free certification.

We are a high-tech company specializing in the R&D, production, sale and service of oil-free scroll air compressor. We adhere to the philosophy of "pioneering, innovation,

integrity, and pragmatism" to further standardize the management of the enterprise in accordance with the modern enterprise system, and regard "creating value for customers, employees, enterprise and the society" as the management concept.

We insist on the continuous improvement of our core technology, participate in the competition of international mainstream brands, and provide advanced new energy products and system solutions. Thus, we are devoted to satisfy the personalized design needs of mid and high-level customers quickly and effectively.

Product Introduction

V&T oil-free scroll air compressor is featured with stable performance, cleanness, no oil, low vibration and low noise. There is no need to add any oil medium in the working process, and the compressed air conforms to the highest class zero oil-free standard of ISO-8573-1. In addition, it works continuously without any additional work with advantages of few accessories, simple structure, high reliability, and long service life. When meeting customer demand for high-quality compressed air, we are constantly striving for higher product performance and better customer service.



Technical Principle



Fig.1



Fig.2



Fig.3



Fig.4

As the rotating orbiter rotates in the sequence shown in Figure 1-2-3-4, the volume of crescent-shaped compression chamber slowly diminishes, and the air inside the chamber is gradually compressed. Then, the compressed air is discharged from the center of the static disk.

Advantages



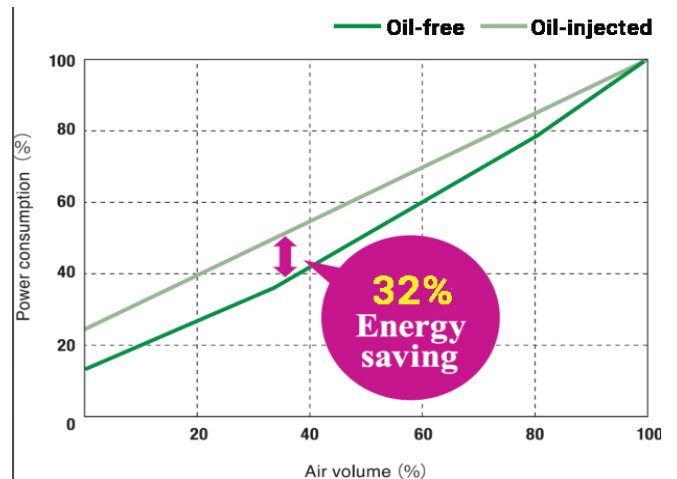
Energy Efficiency: Saves 30-40% compared to traditional equipment. Additionally, with no oil seals or air seals, it has lower manufacturing precision requirements and relatively lower production costs.

Oil-Free and Zero Emissions: Certified by Class 0 standard, ensuring an oil-free environment that completely avoids oil leakage and contamination in compressed gas, eliminating the need for regular cleaning and environmentally friendly disposal of waste oil, achieving zero emissions.

Higher Efficiency with Lower Cost :Continuous scroll compression ensures no wasted effort, high efficiency, low energy consumption, and low maintenance costs, further enhancing operational efficiency and reducing energy use.

Longer Safety Life with Simple Structure: With a simple structure and fewer components, the static and dynamic scrolls do not touch, making the unit more reliable and free from the risk of oil emulsification, thus providing higher safety and stability.

Lower Vibration and Lower Noise: The torque variation during operation is minimal as the static and dynamic scroll plates do not come into contact, resulting in low vibration and noise levels.



CLASS	Concentration total oil (aerosol, liquid, vapor) mg/m ³
0	As specified by equipment user or supplier and more stringent than class 1
1	≤ 0.01
2	≤ 0.1
3	≤ 1
4	≤ 5

V SERIES OIL-FREE SCROLL AIR COMPRESSOR UNIT

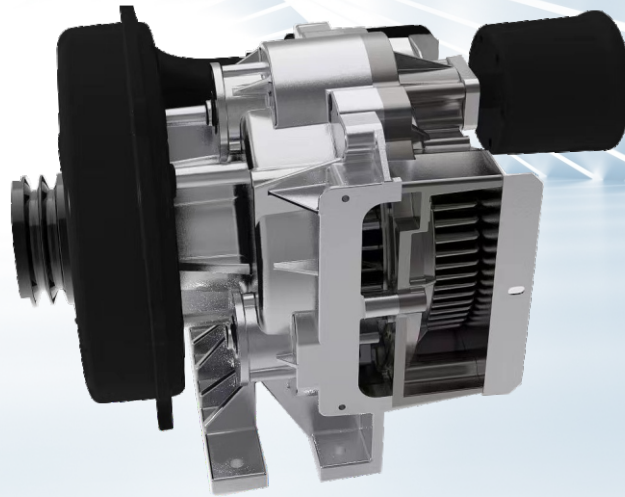


Model	V-15B	V-22B	V-37B	V-75B	V-110B	V-150B	V-185B	V-220B	V-260B	V-300B
Maximum Pressure(Mpa)	0.8/1.0									
Emission Volume(m ³ /min)	0.17/0.12	0.24/0.2	0.4/0.35	0.8/0.7	1.2/1.05	1.6/1.4	2/1.75	2.4/2.1	2.8/2.45	3.2/2.8
Power Supply	3 Phase 380V 50Hz									
Rated Power(kW)	1.5	2.2	3.7	3.7*2	3.7*3	3.7*4	3.7*5	3.7*6	3.7*7	3.7*8
Drive Mode	Belt Drive									
Controller Type	Pressure Switch/Textedit Controller/Touch Screen Controller									
Tank Volum(L)	Additional External Tank									
Noise dB(A)	46 ± 3	49 ± 3	49 ± 3	49 ± 3	55 ± 3	57 ± 3	59 ± 3	61 ± 3	62 ± 3	62 ± 3
Outlet Diameter Inch	R1/2	R1/2	R1/2	R3/4	R1	R1	R1 1/2	R1 1/2	R1 1/2	R1 1/2
Dimension L*W*H(mm)	570*600*805			660*895*945	740*1155*1670			1485*1150*1670		
Weight (kg)	130	130	135	253	430	515	825	915	1005	1100

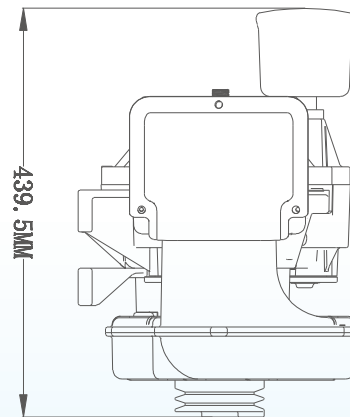
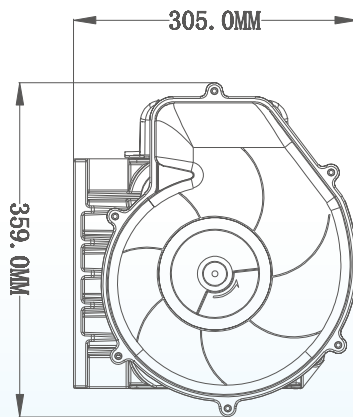
Note :

1. Noise values are measured in a non-echoing chamber at 1.5m from the front, during continuous operation at full load;
2. The ambient temperature of the product is from 0°C to 40 °C, not suitable for applications where condensate freezing occurs;
3. The test environment of the exhaust volume is one standard atmospheric pressure and 25-degree ambient temperature. The exhaust volume will vary slightly due to different environments.

V SERIES OIL-FREE SCROLL AIR COMPRESSOR MODULE



Specification



Model	Rated Power (kW)	Maximum Pressure (MPa)	Emission Volume(L/min)	Noise dB(A)	Dimension L*W*H(mm)	Weight (kg)
V-1.5-8	1.5	8	170	52	358*350*290	15
V-1.5-10	1.5	10	120	52	358*350*290	15
V-2.2-8	2.2	8	240	55	358*350*290	15
V-2.2-10	2.2	10	205	56	358*350*290	15
V-3.7-8	3.7	8	400	58	455*405*293	22
V-3.7-10	3.7	10	350	58	455*405*293	22
V-5.5-8	5.5	8	600	70	422*420*355	25
V-5.5-10	5.5	10	550	70	422*420*355	25

Application

Canning, Beverages, Brewery



Hospitals, Labs, Universities



Pharmaceutical, Biotech



Medical Devices, Plastics



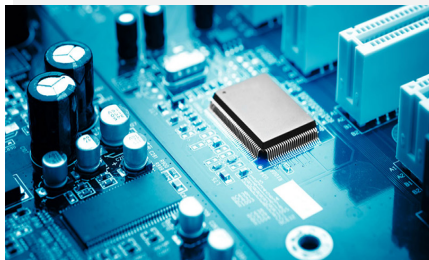
Glass Manufacturing



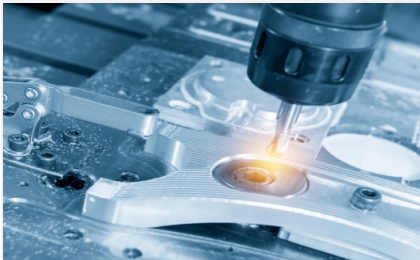
Textiles Industry



Electronics, Semiconductor



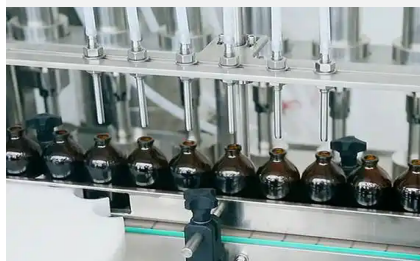
Electronics Assembly



Food Processing



Bottling, Distillery



Printing Industry



Turf Management



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