



SCROLL AIR COMPRESSOR OIL-FREE

Flow rate: 200- 2460 L/min





WOS 2.2-5.5 Silent & Compact

The WOS 2.2-5.5 is a complete package uniting the scroll element, drive motor, cooler in a silent enclosure. It is also available as a full feature unit with refrigerated air dryer. Three air receiver mounting options are available: with an extended canopy that includes a 40L stainless steel air receiver or mounted on an outer horizontal 110L or 200L air receiver.

WOS 7.5-22 Block Control

WOS 7.5-22 multi-scroll units bring in the benefits and flexibility of a modular system utilizing 2 to 6 compressor modules integrated into one canopy. The block control system continuously monitors the status of each element and starts and stops the compression elements, ensuring the compressed air output matches the air demand.

Oil-free

ISO 8573-1 CLASS 0

1

Air filter

Protects the compressor components by removing the dirty particles. Guarantees longer lifetime of compressor element

2

Scroll element

Air-cooled scroll compressor element offering proven durability and reliability in operation.

3

Block controller

High definition touching display
Monitoring features include warning indications, maintenance scheduling and compressor conditions.

4

Electrical motor

IP54, insulation class F, IE2, IE3
Can continuously work in harsh environments.

5

Electrical control cabinet

Excellent electrical parts with silver touch point, longer life
Standard protection for phase sequence and low voltage

6

Silent design canopy

A sound insulated canopy makes low noise levels as low as possible, allowing to install the unit closer to the point of use.



OIL-FREE MODULAR & FLEXIBLE

3

Block controller

High definition touching display
Monitoring features include warning indications, maintenance scheduling and compressor conditions.

4

Electrical motor

IP54, insulation class F, IE2, IE3
Can continuously work in harsh environments.

5

Electrical control cabinet

Excellent electrical parts with silver touch point, longer life
Standard protection for phase sequence and low voltage

6

Silent design canopy

A sound insulated canopy makes low noise levels as low as possible, allowing to install the unit closer to the point of use.

7

Safety valve

Maintenance system pressure, ensuring compressor to run in safe and efficient status

8

After cooler

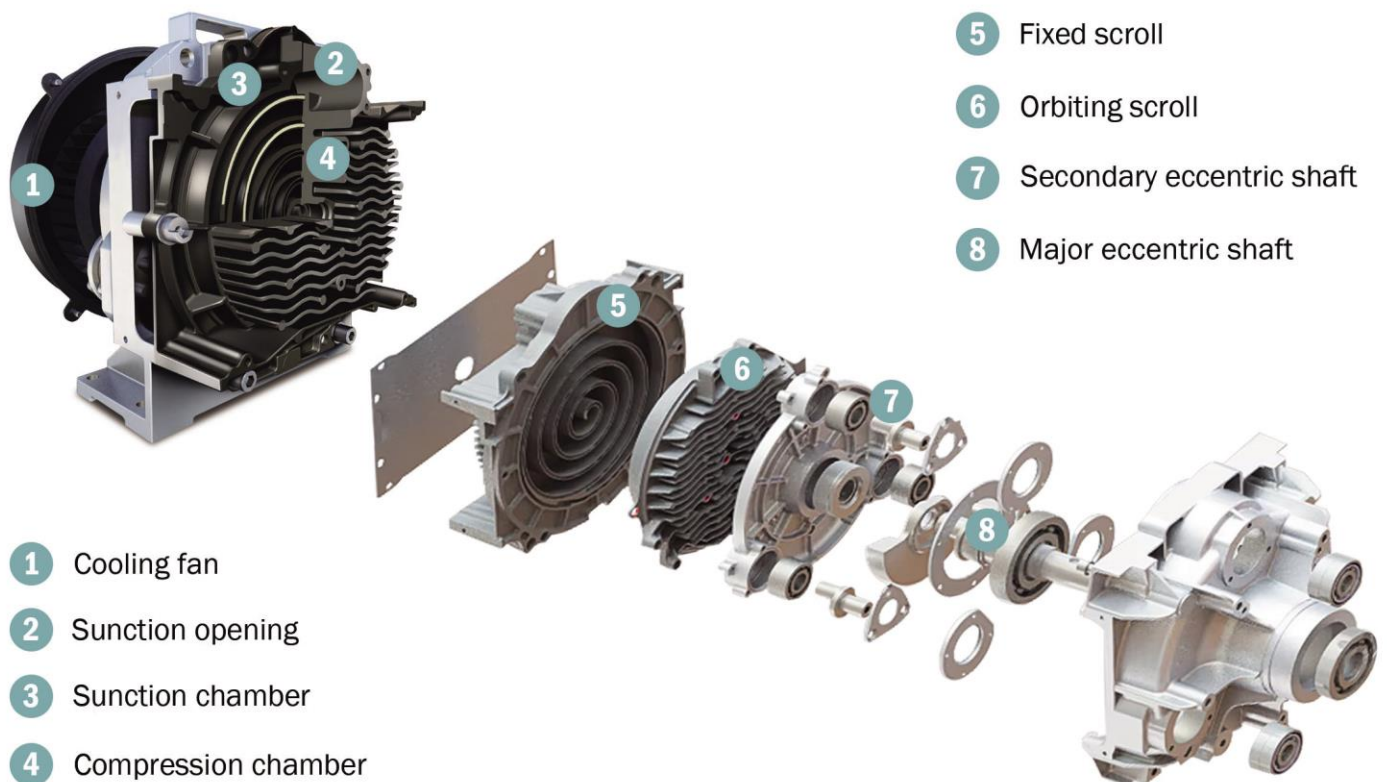
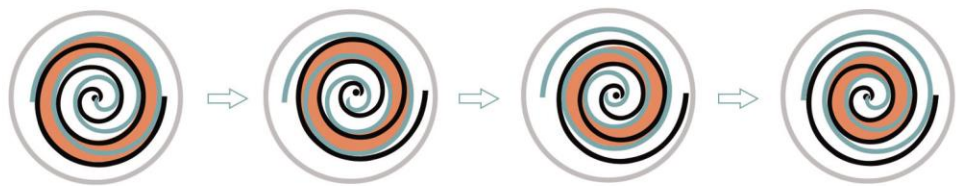
Low outlet temperature
Large surface to ensure low operating temperature



OIL-FREE SCROLL AIR COMPRESSOR

Air compression is achieved by the interaction of a fixed and orbiting scroll. Air at inlet pressure enters the compression chamber at the exterior side of the scroll element. Once air is drawn in, the orbiting scroll seals off the inlet port. The orbiting scroll rotates with orbit the air is sucked into the space between the orbiting scroll and the stationary scroll, the volume of crescent compression chamber gradually decreases and then the air is discharged from the exhaust port at the center of the stationary scroll after being compressed.

- Orbiting scroll
- Fixed scroll
- Compressed air





CLASS ZERO :100% OIL-FREE

Oil-free air is used in all kinds of industries where air quality is paramount. These applications include food and beverage processing, pharmaceutical, manufacturing, petrochemical processing, waste water treatment and many more. As the manufacturer to be awarded ISO8573-1 class 0 certification means zero risk of oil contamination from our products.

Test to Eliminate any risk

In order to meet the needs of the most demanding customers, Windbell requested renowned institute to test its range of oil-free compressors. Using the most rigorous testing methods available, all possible oil forms were measured across a range of temperatures and pressures. Testing results show no traces of oil at all in the output air stream.

TUV test report No.:50272409 001

ISO standard: 8573-1:2010

8573-2:2018

8573-5:2001

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

ISO 8573-1 (2010) classes (the five main classes and the associated maximum concentration in total oil content).

Block Control System

WOS 7.5-22 multi-scroll units bring in the benefits and flexibility of a modular system utilizing 2 to 6 compressor modules integrated into one canopy. The block control system continuously monitors the status of each element and starts and stops the compression elements, ensuring the compressed air output matches the air demand.



Benefits and Flexibility

- High definition touching display
- Monitoring features include warning indications, maintenance scheduling and compressor conditions
- Protection of motor for phase loss, phase failure, overload, imbalance.
- Protection of compressor for high discharge pressure, high discharge temperature, sensor failure.
- Flexibility of starts or stops of compressor modules to match the air demand.



TECHNICAL DATA

Model No.	Working Pressure		Capacity FAD		Motor Power		Control Mode Tank Capacity(L)	Noise Level dB	Outlet diameter	Weight kg	Dimension(mm)		
	bar	psi	cfm	m ³ /min	hp	kw					L	W	H
WOS2.2	8	116	8.5	0.24	3	2.2	Auto Control	53+/-3	Rc1/2	115	540	500	1095
	10	145	7.0	0.2			40						
WOS3.7	8	116	14.5	0.41	5	3.7	Auto Control	54+/-3	Rc1/2	125	540	500	1095
	10	145	12.0	0.34			40						
WOS7.5	8	116	29	0.82	10	7.5	Auto Control	60+/-3	Rc3/4	350	1200	700	1100
	10	145	24	0.68									
WOS11	8	116	42	1.2	15	11	Auto Control	61+/-3	Rc1	500	1250	740	1280
	10	145	36	1.02									
WOS15	8	116	58	1.64	20	15	Auto Control	62+/-3	Rc1	550	1250	740	1650
	10	145	48	1.36									
WOS18	8	116	72	2.05	25	18	Auto Control	62+/-3	Rc1	650	1250	740	2000
	10	145	60	1.70									
WOS22	8	116	86	2.46	30	22	Auto Control	63+/-3	Rc1-1/2	900	1600	1250	1650
	10	145	72	2.04									



2.2-5.5 kW



7.5-15 kW



18-22 kW