

Oil-free Air Compressor

Installed motor power
3.7-355 kW/ 5-475 hp



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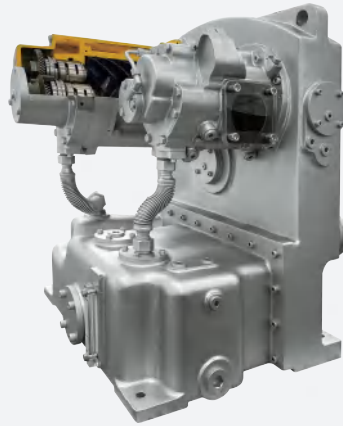
Dry Oil-free Screw Air Compressor



Dry Oil-free screw air compressor

01 Dry Two-stage Air End

- Original and Best brand of air end, the first stage of the Air End casing adopts air cooling method, the second stage casing compartment adopts filtered lubricating oil cooling, avoiding the generation of scale and reliable operation.
- The secondary rotor is specially coated for corrosion resistance. The rotor and the inner wall of the compression chamber are coated with a sturdy coating to prevent corrosion and coating peeling off and to extend the service life of the main unit.



Separation of air and oil chambers.

Wear-free sealing system with stainless steel spring-loaded metal ring on the air side and copper labyrinth seal on the lubricant side, using both without contact.

02 Motors

Asynchronous motor

- Brand bearings, IP54 protection level, F class insulation level, suitable for large dust, high temperature and other harsh working conditions.
- IE3 high energy motor, use less electricity, save cost.
- Motor large margin design, large starting torque, to meet a variety of working conditions.



Permanent magnet synchronous motor

- Adoption of 180°C high temperature resistant permanent magnet material effectively ensures the effective operation of the permanent magnet unit.
- Protection class IP54 fully enclosed structure.
- IE4 energy efficiency reaches the latest international class I energy efficiency.



04 Intelligent Electronic Control System

- Intelligent control system with good human-machine communication inter face.
- Comprehensive detection of the operating status of the unit by multi-channel pressure sensors and multi-channel temperature sensors, intelligent program control of machine operation.



05 Silent Centrifugal Fans

- Adopting centrifugal fan, new design of separated radial cooling fan, high air pressure, low noise, with special cooler, better effect.
- Adopting frequency conversion fan control, the oil temperature is constant and unchanged, prolonging the service life of lubricating oil.
- Due to high wind pressure, coolers and filters are not easily blocked.



06 Couplings

- Torsionally flexible couplings with fail-safe function can effectively reduce vibration and shock generated during operation.
- The elastomer is subjected to pressure only and can withstand greater loads, and the elastomer's drum-shaped teeth avoid stress concentrations.



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Technical Parameter

Model	Motor Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (L*W*H) mm	Weight (kg)	Outlet Pipe Diameter
BAEO-37	37	0.75	6.3	2150*1370*1910	2080	DN50
		0.85	5.5			
		1.00	4.2			
BAEO-45	45	0.75	7.98	2150*1370*1910	2170	DN50
		0.85	7.20			
		1.00	6.21			
BAEO-55	55	0.75	9.85	2150*1370*1910	2200	DN50
		0.85	8.97			
		1.00	7.88			
BAEO-75	75	0.75	12.85	2150*1370*1910	2290	DN50
		0.85	12.11			
		1.00	11.05			
BAEO-90	90	0.75	16.01	2150*1370*1910	2330	DN65
		0.85	14.59			
		1.00	12.86			
BAEO-110	110	0.75	20.00	2700*1590*2360	3080	DN65
		0.85	18.98			
		1.00	17.33			
BAEO-132	132	0.75	24.1	2700*1590*2360	3170	DN65
		0.85	23.09			
		1.00	22.09			
BAEO-160	160	0.75	28.4	3050*2000*2200	3600	DN65
		0.85	26.2			
		1.00	24.1			
BAEO-185	185	0.75	34.8	3050*2000*2200	4000	DN65
		0.85	29.3			
		1.00	28.4			
BAEO-200W	200	0.75	37.4	3050*1932*2060	4400	DN100
		0.85	35.30			
		1.00	31.20			
BAEO-220W	220	0.75	42.5	3050*1932*2060	4400	DN100
		0.85	38.3			
		1.00	33.5			
BAEO-250W	250	0.75	46.08	3050*1932*2060	4580	DN100
		0.85	43.04			
		1.00	38.30			
BAEO-280W	280	0.75	49.60	3050*1932*2060	4580	DN100
		0.85	46.65			
		1.00	42.64			
BAEO-315W	315	0.75	53.40	3350*2130*2200	6350	DN125
		0.85	51.23			
		1.00	48.50			
BAEO-355W	355	0.75	65.3	3350*2130*2200	6750	DN125
		0.85	59.4			
		1.00	55.2			

Note: BAEO: dry type without oil, W: indicates water-cooled type, no suffix indicates air-cooled type.

The Company Has The Right To Change The Design For The Continuous Improvement Of The Products, and The Parameters Will Be Changed Without Prior Notice.

Technical Parameter

Model	Motor Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (L*W*H) mm	Weight (kg)	Outlet Pipe Diameter
BAEO-37V	37	0.75	4.41-6.3	2150*1370*1910	2080	DN50
		0.85	3.85-5.5			
		1.00	2.94-4.2			
BAEO-45V	45	0.75	4.71-7.71	2150*1370*1910	2170	DN50
		0.85	4.62-7.31			
		1.00	3.85-6.32			
BAEO-55V	55	0.75	5.55-9.92	2150*1370*1910	2200	DN50
		0.85	5.05-8.94			
		1.00	4.60-7.88			
BAEO-75V	75	0.75	7.52-12.87	2150*1370*1910	2290	DN50
		0.85	7.23-12.51			
		1.00	6.47-11.22			
BAEO-90V	90	0.75	9.37-16.05	2150*1370*1910	2330	DN65
		0.85	8.66-14.52			
		1.00	7.58-12.92			
BAEO-110V	110	0.75	11.63-19.94	2700*1590*2360	3080	DN65
		0.85	11.36-19.12			
		1.00	11.65-17.31			
BAEO-132V	132	0.75	13.56-24.1	2700*1590*2360	3170	DN65
		0.85	13.54-22.76			
		1.00	11.55-19.83			
BAEO-160V	160	0.75	15.42-28.4	2700*1590*2360	3210	DN65
		0.85	15.03-26.2			
		1.00	13.83-23.66			
BAEO-185V	185	0.75	17.93-32.8	3050*2000*2200	4300	DN65
		0.85	17.53-28.55			
		1.00	15.53-26.85			
BAEO-200WV	200	0.75	21.03-36.4	3050*1932*2060	4400	DN100
		0.85	20.53-33.44			
		1.00	17.93-29.82			
BAEO-220WV	220	0.75	24.9-42	3050*1932*2060	4400	DN100
		0.85	22.4-37.5			
		1.00	19.8-33.2			
BAEO-250WV	250	0.75	28.05-46.2	3050*1932*2060	4580	DN100
		0.85	25.55-43.63			
		1.00	22.57-38.32			
BAEO-280WV	280	0.75	32.2-48.8	3050*1932*2060	4580	DN100
		0.85	30.45-47.5			
		1.00	29.05-45			
BAEO-315WV	315	0.75	35.07-52.5	3350*2130*2200	6350	DN125
		0.85	33.25-50.6			
		1.00	31.15-48.5			
BAEO-355WV	355	0.75	42.91-65.2	3350*2130*2200	6750	DN125
		0.85	40.95-59.3			
		1.00	38.64-55.2			

Note: BAEO: dry type without oil, V: air-cooled and inverter, WV: water-cooled and inverter.

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Dry Oil-free
screw air compressor

Technical Parameter

Model	Motor Power (kw)	Working Pressure (bar)	Air Delivery (m³/min)	Dimensions (L*W*H) mm	Weight (kg)	Outlet Pipe Diameter
BAEO-37LSPM	37	1.50	13.5	2150*1370*1910	2200	DN65
		2.00	12.6			
		2.50	10.5			
		3.00	9			
		3.50	7.5			
BAEO-45LSPM	45	1.50	16.5	2150*1370*1910	2300	DN65
		2.00	14.8			
		2.50	13			
		3.00	10.5			
		3.50	8.5			
BAEO-55LSPM	55	1.50	20.5	2700*1590*1840	2800	DN100
		2.00	18.5			
		2.50	16			
		3.00	13.5			
		3.50	10.5			
BAEO-75LSPM	75	1.50	26.5	2700*1590*1840	2900	DN100
		2.00	22.8			
		2.50	20.5			
		3.00	19.2			
		3.50	15.5			
BAEO-90LSPM	90	1.50	32.8	2700*1590*1840	3100	DN100
		2.00	29			
		2.50	26			
		3.00	22.5			
		3.50	20.2			
BAEO-110LSPM	110	1.50	43.6	2820*2052*1876	3300	DN125
		2.00	40.5			
		2.50	33.3			
		3.00	30.8			
		3.50	26.8			
BAEO-132LSPM	132	1.50	55	2820*2052*1876	3500	DN125
		2.00	50.5			
		2.50	43.5			
		3.00	40.8			
		3.50	33.8			
BAEO-160LSPM	160	1.50	65.5	2820*2052*1876	3800	DN125
		2.00	60.5			
		2.50	52.5			
		3.00	46.5			
		3.50	40.8			
BAEO-200LSPM	200	1.50	85	2820*2052*1876	4000	DN125
		2.00	72.5			
		2.50	60.5			
		3.00	55			
		3.50	50.5			

Note: BAEO: dry type without oil,
L: Low Pressure,
SPM: Model of Super High Energy Efficiency

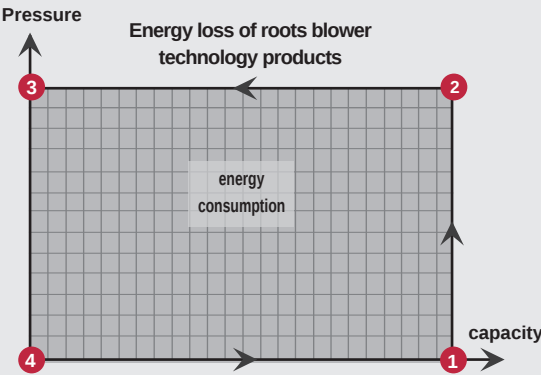
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Oil-free Screw Blower

 **Oil-Free Screw Blowers**
Better than conventional Roots fans
Energy saving 25%~35%
Investment pays for itself in 1-2 years



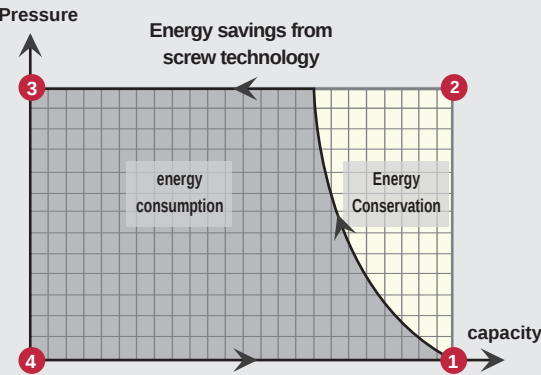
Roots Blower Pressure/Volume Chart



The gray area indicates the compression work, which is proportional to the energy consumed

- 4→1: Intake:
Air enters the compression chamber and the volume remains stable as the Roots fan rotates.
- 1→2: External compression:
The air is compressed externally by the back pressure of the connected pipes.
- 2→3: Exhaust:
Air is expelled from the pipe.

Screw Blower Pressure/Volume Chart



The gray area: indicates the compression work, which is proportional to the energy consumed.
The white areas: indicate the energy savings of a screw blower compared to a conventional Roots blower. These savings are generated by internal compression.

- 4→1: Intake:
Air enters the compression chamber.
- 1→2: internal compression:
Since the rotors are toothed to each other, the air volume will be reduced.
- 2→3: Exhaust:
Air is expelled from the pipe.

Oil-free



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Rotary Air Compressor & Compressed Air System
Manufacturer

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