



# AIR MANUFACTURERS 空氣壓縮機製造商 COMPRESSOR

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## "MARKET-ORIENTED, EXTREME ENERGY-SAVING"



COMPRESS THE AIR  
EXTEND THE POWER

## PRODUCT SERIES

- 20-30 bar high pressure screw air compressor
- 16-20 kg all-in-one type screw air compressor
- "Little Elf" tank-mounted screw air compressor
- Double stage screw air compressor
- Two-stage screw air compressor
- Baodao series - oil cooled screw air compressor
- Single stage screw air compressor

HANGZHOU AIRFU  
PRECISION MACHINERY CO.,LTD

Compressor display

OUR ENERGY-SAVING MISSION

---TO LOWER THE COMPRESSED AIR COSTS FOR YOUR COMPANY !

# 16-20-30BAR SERIES

## Screw Air Compressor



This medium and high pressure screw air compressor is suitable for

boosting various special gases, and for the PET bottle blowing industry, Laboratories, special industries such as coal mining and petroleum.



TECHNICAL PARAMETERS OF 20-30KG HIGH-PRESSURE SCREW AIR COMPRESSOR

Parameters	Model	AF					
		20LV-20	30LV-20	40LV-20	50LV-20	30LD-30	120LD-30
Flow rate/pressure (m³/Min/Mpa)		0.8/2.0	2.0/2.0	2.3/2.0	3.4/2.0	1.35/3.0	7/3.0
Voltage/Frequency		380V/50Hz / Accept customization					
Power (kw)		15	22	30	37	22	90
Exhaust Temperature (°C)		Ambient Temperature+12C°					
Lubricating Oil (L)		10	15	25	15	60	
Noise dB(A)		≤80 dB					≤90 dB
Drive Mode		Direct Driven					
Motor IP Class		IP 55/F					
Type of Cooling		Air Cooling					
Starting Mode		Variable Frequency Starting					
Dimension	Length(mm)	1080	1180	1280	1340	1080	2300
	Width(mm)	750	850	850	1000	750	1400
	Height(mm)	1020	1210	1210	1300	1020	1750
Weight(kg)		300	400	430	650	310	2700
Outlet Size		R3/4"	R1"	R1"	R1-1/2"	R3/4"	R2"
Motor Speed		3400 r/min	2600 r/min	3600 r/min	3000 r/min	4500 r/min	1200 r/min
Export gas lube carrying capacity		≤3ppm					

This parameter is subject to actual conditions and is subject to change without prior notice.



COMPRESS THE AIR  
EXTEND THE POWER

# All-in-One Screw Air Compressor 16 & 20 bar



20bar All-in-one



16bar All-in-one



Extraordinary you, destined for the "laser" and born!

## Energy-efficient

- Main airend air displacement efficiency:  $\geq 95\%$ ;
- Direct transmission: transmission ratio 1:1;
- The rotor adopts imported brand SKF bearings;
- Operating temperature up to 110°C sustainable operation.

## Environmentally friendly

- Laser industry special efficient air dryer;
- Four-level filter, export oil content is less than 0.01PPM;
- High-quality parts, enlarge selection, better removal effect.

## Compact design

- Unique integrated design saves space;
- Air compressor, air dryer, filter, air tank integrated, no need to install separately, easy to operate, plug and work.

## Consistent

- Laser industry special 16 kg, full air displacement, full pressure;
- Ensure higher cutting efficiency, more stable.



## TECHNICAL PARAMETERS OF 16-20 KG INTEGRATED COMBINATION MACHINE

Parameters	Model	AF					
		10LZ	15LZ	20LZ	30LZ	20LZ-20	30LZ-20
Flow Rate(m <sup>3</sup> /Min)		0.5	0.7	1.2	2.0	0.8	2.0
Discharge Pressure (Mpa)		1.6			2.0		
Power(kw)		7.5	11	15	22	15	22
Lubricating Oil (L)		6	10		15	10	15
Weight (kg)		380	500	480	660	540	720
Outlet Size (inch)		G3/4		G1			
Tank Capacity (L)		250	410		580	410	580
Length*Width*Height (mm)		1650*650*1380	1810*750*1600		2250*850*1870	1870*770*1730	2250*850*1870
Air dryer	Pressure dew point	2°--10°					
	MAX ambient temp.	≤40°C					
	Allowable flow rate	1.5m <sup>3</sup> /min			2.6m <sup>3</sup> /min		
	Power supply	380V/50Hz / Accept customization					
	Cooling	Air cooling					
ATS Precision filter (Four-stage)	Power(kw)	0.41		0.52		0.41	
	P Class*1	Dust removal accuracy: 3um					
	M Class*1	Oil removal accuracy: 0.1ppm; Dust removal accuracy: 1um					
	S Class*1	Oil removal accuracy: 0.05ppm; Dust removal accuracy: 0.1um					
H Class*1	Oil removal accuracy: 0.01ppm; Dust removal accuracy: 0.01um						

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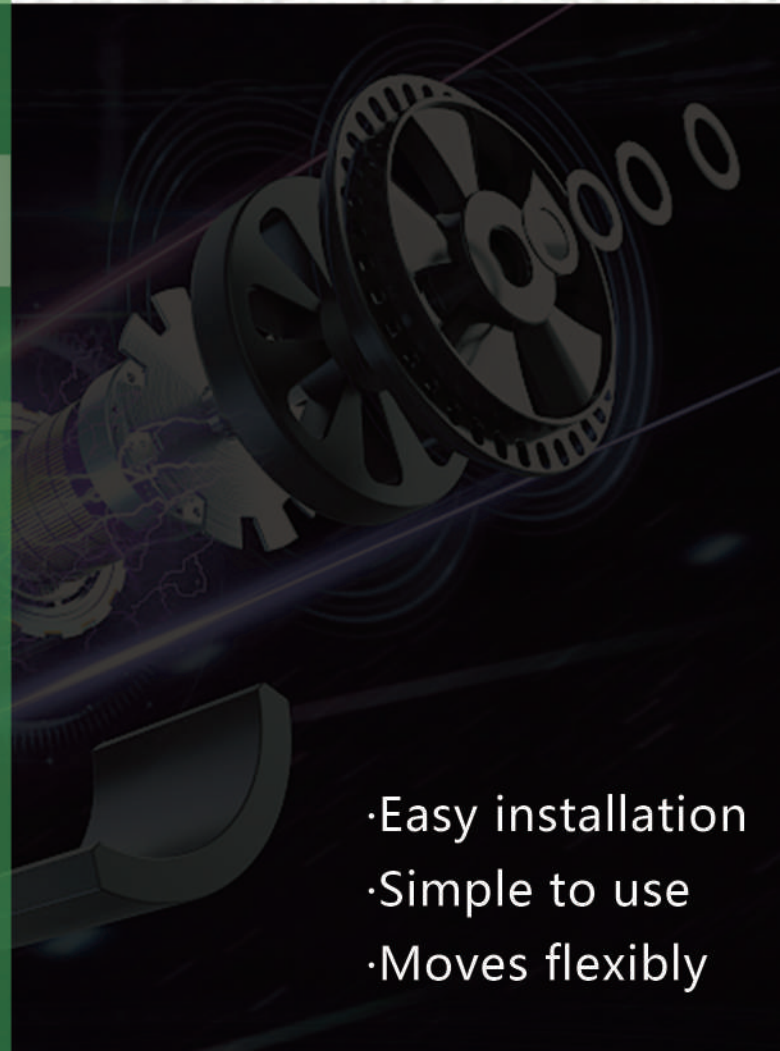
# ELF SERIES

## Tank-mounted type

### HOT SELLING

**High-quality materials**  
**With air tank, air is more stable**

Stabilized air pressure, cooled and filtered.  
A screw compressor to solve the trouble of air storage. The air pressure is controlled within the appropriate range, and the impurities such as water and oil in the compressed air are initially precipitated, so that the quality of the compressed air is higher.



- Easy installation
- Simple to use
- Moves flexibly



TECHNICAL PARAMETERS OF THE "LITTLE ELF" TANK-MOUNTED SCREW AIR COMPRESSOR

Model	Flow rate/pressure (m³/Min/Mpa)		Voltage Frequency	Power(kw)	Temp. (°C)	Lube Oil (L)	Noise dB(A)	Drive mode	Motor speed	
AF 10LA	1.1/0.8	0.5/1.6	380V/50Hz	7.5	Ambient temp.+12C°	6	≤76 dB	Direct driven	3600 r/min	2500 r/min
	Motor IP class		Cooling	Starting	Dimension(mm) L*W*H	Weight(kg)	Outlet size	Capacity (L)	Export gas lube carrying capacity	
	IP 23/F		Air cooling	VSD	800*600*1470	220	R1/2"	130	≤3ppm	

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# Double-Stage Screw Air Compressor



**MORE EFFICIENT,  
MORE ENERGY SAVING,**  
Super energy-saving motor: fully enclosed permanent magnet motor, with high overload capacity, high efficiency, high power factor;  
Super energy efficiency two-stage compression screw host, low speed, low noise, high displacement.

- 1.The two-stage compression reduces the compression of each stage, reduces internal leakage.
- 2.The exhaust volume of two-stage compressor is increased by nearly 15%.
- 3.The rotor adopts the latest design of the rotor UV patent profile, after more than 20 processes of finishing, to ensure the accuracy, reliability and effectiveness of the rotor profile;
- 4.The two-stage compressor is more energy-saving, saving up to 35% compared with the ordinary FSD air compressor, and can save 200,000 RMB of electricity every year by 8,000 hours/unit/year;

**TWO-STAGE COMPRESSION : CHEMICAL, MILITARY,  
ELECTRIC POWER, METALLURGY  
CHEMICAL AND MILITARY ENTERPRISES**

For the transportation of chemical raw materials, the filling of harmful liquids, the packaging of explosives, the automatic control device of torpedoes, ship automation equipment, oil drilling and production equipment has been widely used;

**METALLURGICAL INDUSTRY**

Such as metal smelting, sintering, cold rolling, hot rolling, wire packaging, continuous casting and rolling production lines, etc.;



## PARAMETERS OF VERTICAL TWO-STAGE SCREW AIR COMPRESSOR

Parameters	Model AF											
	75LD	100LD	120LD	150LD	175LD	220LD	250LD	270LD	300LD	350LD	430LD	
Pressure (Mpa)	0.8											
Flow Rate (m <sup>3</sup> /min)	12	16	19.5	24	28	34	40.5	43	47	52.5	61	
Power (KW)	55	75	90	110	132	160	185	200	220	250	315	
Voltage/Frequency	380V/50Hz/ Accept Customization											
Ambient Temp. (°C)	-5~45											
Cooling	Air cooling											
Exhaust Air Temp. (°C)	≤Ambient Temp. +15°C											
Lubricating Oil (L)	60			90			150			180		
Noise dB(A)	≤85						≤95					
Drive Mode	Direct Driven											
Starting Mode	Variable Frequency Starting											
Weight (Kg)	1600	1750	3400	3500		4000	5100		5300	7000		
Outlet Size	R 2			DN65			DN80			DN125		
Dimension	Length (mm)		1900		2600		3600		3680		4000	
	Width (mm)		1300		1650		2100		2180		2100	
	Height (mm)		1650		1990		2090		2100			

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## PARAMETERS OF HORIZONTAL TWO-STAGE SCREW AIR COMPRESSOR

Parameters	Model	Flow rate (m <sup>3</sup> /min)	Pressure (Mpa)	Power (KW)	Voltage Frequency	Ambient Temp. (°C)	Cooling	Exhaust Temp. (°C)	Lube Oil (L)	Noise dB(A)	Drive Mode	Starting Mode	Weight (Kg)	Outlet Size	Dimension		
															Length (mm)	Width (mm)	Height (mm)
AF	30LSD	4	0.8	22	380V/50Hz	-5~45	Air Cooling	≤Ambient Temp. +15°C	15	≤80	Direct Driven	Variable Frequency Starting	430	G1	1180	580	1210
	50LSD	6.5		37					25				650	G1-1/2	1340	1000	1300
	75LSD	11.5		55					30	1300			G2	1630	1150	1400	
	100LSD	15		75					1400	1800				1200	1600		
	120LSD	18		90					60	1700			G2/1/2	2000	1350	1790	

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# BAODAO SERIES

## - Oil Cooled Screw Air Compressor

### ADVANTAGES AND CHARACTERISTICS OF OIL-COOLED SCREW AIR COMPRESSOR

- A new generation of appearance design, stable quality
- Coaxial transmission mode, higher transmission efficiency
- IE4 PMVF motor, customer freely change the speed
- Fully sealed IP65 protected motor
- More suitable for high temperature environment, longer service life



Oil-cooled series with PMVF high efficiency motor, uses rare earth materials to produce iron boron, PMVF motor is a permanent magnet to establish an exciting magnetic field, so as to achieve mechanical and electrical energy efficient conversion device, Compared with electric synchronous motor, permanent magnet variable frequency motor has the characteristics of higher energy efficiency, compact structure, small size and light weight.

### BAODAO SERIES ADOPTS PMVF HIGH EFFICIENCY MOTOR

In the whole cycle life of the air compressor, nearly 80% of the use cost is spent on the use of electricity. In order to greatly reduce your energy costs, VSD technology has been successfully applied in the field of air compressors for many years, NASCENT long-term technical investment in VSD frequency conversion control technology, can provide mature and reliable screw type frequency conversion air compressor, to provide you with professional energy saving solutions!

### FULL FREQUENCY CONTROL TECHNOLOGY VSD: SIGNIFICANTLY REDUCE YOUR ENERGY CONSUMPTION

NASCENT PMVF series VSD frequency conversion control technology closely fits the actual air usage demand, automatic regulation of air compressor with the user's gas pressure frequency adjustment, by adjusting the motor speed, control the air flow generated by screw air compressor, fully automated to meet the actual air demand of users to save energy. It is through this principle that the energy cost of air compressors is greatly saved by up to 50%.

\* CHINA ENERGY EFFICIENCY NETWORK RECORD DATA.

### PERMANENT MAGNET CONVERSION ENERGY SAVINGS UP TO 50% \*

### TECHNICAL PARAMETERS OF OIL COOLED SCREW AIR COMPRESSOR

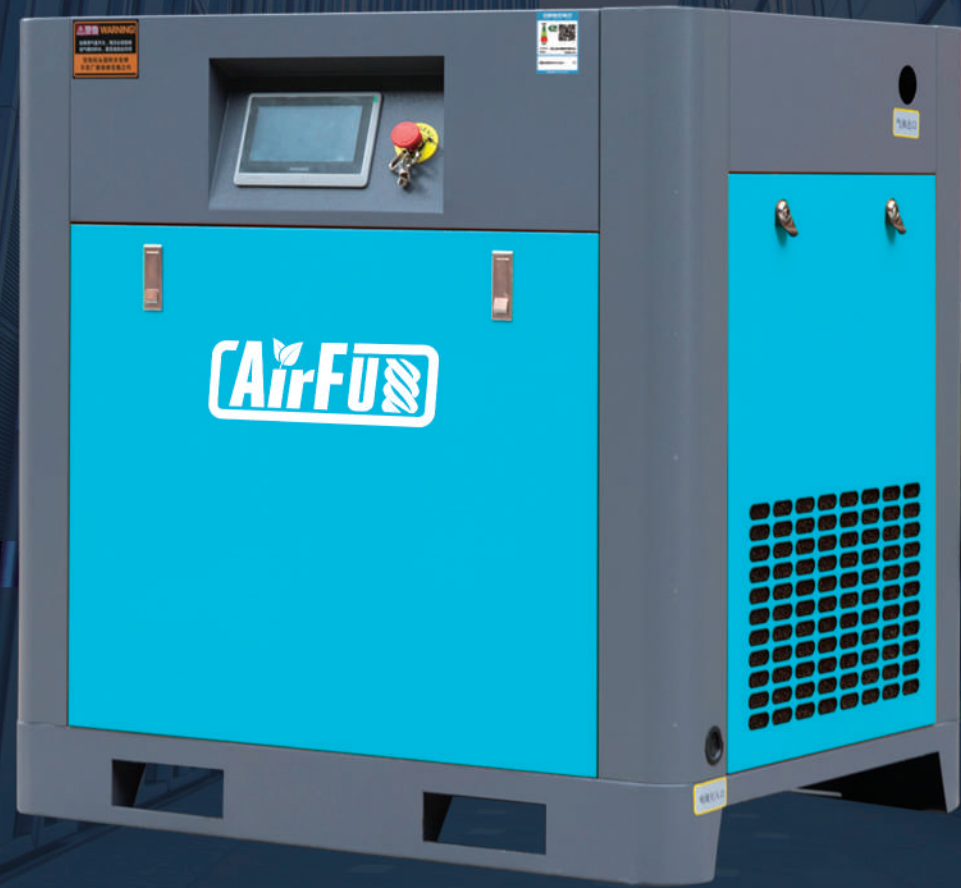
Parameters	Model		
	20LY	30LY	50LY
Flow Rate / Pressure (m <sup>3</sup> /Min/Mpa)	2.3/0.8	3.6/0.8	6.1/0.8
Voltage / Frequency	380V/50Hz / Accept customization		
Power (kw)	15KW	22KW	37KW
Exhaust Temp. (°C)	Ambient Temp. +12C°		
Lubricating Oil (L)	10L	15L	25L
Noise dB(A)	≤76 dB	≤80 dB	
Drive Mode	Direct Driven		
Motor IP Class	IP 65/F		
Cooling Mode	Oil-Cooled		
Starting Mode	Variable Frequency Starting		
Weight (kg)	250	320	480
Outlet Size	R3/4"	R1"	R1 1/2"
Motor Speed	3000 r/min		
Dimension	Length (mm)	960	1000
	Width (mm)	750	850
	Height (mm)	1120	1220

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COMPRESS THE AIR  
EXTEND THE POWER

# PM VSD SCREW AIR COMPRESSOR



## EFFICIENT AIR-END - CORE MANUFACTURING

Primary energy efficiency of all single compressor below 75kw  
The optimized rotor profile is more efficient  
Large rotor with low speed ensures low noise of the air-end  
Imported bearings ensure stable and reliable operation of the air-end

## SUPERIOR FREQUENCY CONVERSION TECHNOLOGY

Vector frequency conversion control technology, high speed control precision,  
fast response time to the change of gas volume, greater starting torque  
Inverter integrated with space interior to save space  
Frequency conversion start-up, energy saving up to 40%, reduce the cost of electricity

## HIGH EFFICIENCY ASYNCHRONIZATION MOTOR

The whole machine adopts efficient asynchronous motor, one large motor base, and the vibration is smaller  
IP54 air cooling system  
Greatly reduce motor current, stable control motor temperature rise



## Single stage compression : mechanical, electronics, experiments, precision instruments

### Machine building industry

Such as machining center program control, combined machine tool program control, parts testing, equipment testing, automobile assembly, oxygen and nitrogen equipment supporting, production lines, spraying, inflation and industrial robots;

### Electronic, experimental, precision instrument industry

It plays a great role in the production of some high-precision electronic products, the experimental test process, the control and detection of precision instruments;





COMPRESS THE AIR  
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**PARAMETERS OF PERMANENT PM VSD SCREW AIR COMPRESSOR**

Model Parameters	Pressure (Mpa)	Flow Rate (m <sup>3</sup> /min)	Power (KW)	Voltage Frequency	Ambient Temp. (°C)	Cooling	Exhaust Temp. (°C)	Oil (L)	Noise dB(A)	Drive Mode	Starting Mode	Weight (Kg)	Outlet Size	Dimension				
														L(mm)	W(mm)	H(mm)		
10LV	0.8	11	7.5	380V/50Hz	-5~45	Air cooling	≤Ambient Temp.+15°C	6	≤76	Direct Driven	Variable Frequency Starting	130	R1/2	900	670	900		
	1	1												220	R3/4	1010	750	1020
	1.3	0.8																
1.6	0.5																	
15LV	0.8	18	11															
	1	1.6																
	1.3	1.3																
1.6	0.7																	
20LV	0.8	2.3	15															
	1	2.1																
	1.3	1.7																
1.6	1.2																	
30LV	0.8	3.6	22															
	1	3.2																
	1.3	2.3																
1.6	2.0																	
40LV	0.8	5.0	30															
	1	3.5																
	1.3	3.3																
1.6	2.6																	
50LV	0.8	6.1	37															
	1	4.8																
	1.3	4.5																
1.6	3.1																	
60LV	0.8	7.5	45															
	1	6.2																
	1.3	6.0																
1.6	4.5																	
75LV	0.8	9.25	55															
	1	7.3																
	1.3	7																
1.6	5.4																	
100LV	0.8	12	75															
	1	9.2																
	1.3	8.9																
1.6	6.8																	
120LV	0.8	16	90															
	1	12.5																
	1.3	12																
1.6	8.6																	
150LV	0.8	20	110															
	1	18.5																
	1.3	15.8																
1.6	11.5																	
175LV	0.8	23	132															
	1	21.5																
	1.3	15																
1.6	14																	
220LV	0.8	28	160															
	1	22																
	1.3	21																
1.6	19																	
250LV	0.8	30	185															
	1	27																
	1.3	22																
1.6	21																	
270LV	0.8	32	200															
	1	29																
	1.3	27																
1.6	21																	
300LV	0.8	38	220															
	1	30																
	1.3	29																
1.6	21																	
350LV	0.8	43	250															
	1	39.5																
	1.3	31																
1.6	28																	

This parameter is subject to actual conditions and is subject to change without prior notice.

**PARAMETERS OF FSD SCREW AIR COMPRESSOR**

Model Parameters	Pressure (Mpa)	Flow Rate (m <sup>3</sup> /min)	Power (KW)	Voltage Frequency	Ambient Temp. (°C)	Cooling	Exhaust Temp. (°C)	Oil (L)	Noise dB(A)	Drive Mode	Starting Mode	Weight (Kg)	Outlet Size	Dimension				
														L(mm)	W(mm)	H(mm)		
10LG	0.8	11	7.5	380V/50Hz	-5~45	Air cooling	≤Ambient Temp.+15°C	6	≤76	Direct Driven	Variable Frequency Starting	180	R1/2	900	670	900		
	1	1												310	R3/4	1010	750	1020
	1.3	0.8																
1.6	0.5																	
15LG	0.8	18	11															
	1	1.6																
	1.3	1.3																
1.6	0.7																	
20LG	0.8	2.3	15															
	1	2.1																
	1.3	1.7																
1.6	1.2																	
30LG	0.8	3.6	22															
	1	3.2																
	1.3	2.3																
1.6	2.0																	
40LG	0.8	5.0	30															
	1	3.5																
	1.3	3.3																
1.6	2.6																	
50LG	0.8	6.1	37															
	1	4.8																
	1.3	4.5																
1.6	3.1																	
60LG	0.8	7.5	45															
	1	6.2																
	1.3	6.0																
1.6	4.5																	
75LG	0.8	9.25	55															
	1	7.3																
	1.3	7																
1.6	5.4																	
100LG	0.8	12	75															
	1	9.2																
	1.3	8.9																
1.6	6.8																	
120LG	0.8	16	90															
	1	12.5																
	1.3	12																
1.6	8.6																	
150LG	0.8	20	110															
	1	18.5																
	1.3	15.8																
1.6	11.5																	
175LG	0.8	23	132															
	1	21.5																
	1.3	15																
1.6	14																	
220LG	0.8	28	160															
	1	22																
	1.3	21																
1.6	19																	
250LG	0.8	30	185															
	1	27																
	1.3	22																
1.6	21																	
270LG	0.8	32	200															
	1	29																
	1.3	27																
1.6	21																	
300LG	0.8	38	220															
	1	30																
	1.3	29																
1.6	21																	
350LG	0.8	43	250															
	1	39.5																
	1.3	31																
1.6	28																	

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COMPRESS THE AIR  
EXTEND THE POWER

A good industrial helper can do anything

**OMNIPOTENCE**

Industrial/Automotive/textile/

Pharmaceutical/chemical/Laser cutting

Build China's  
Intelligent  
air compressor  
Brand



Build China's  
Intelligent air compressor  
Brand