

LIUTECHCOMPRESSOR

LU G SERIES SCREW COMPRESSOR LU37—132G HIGH EFFICIENCY GEAR SYSTEM

EXCELLENCE IN PERFORMANCE, EXCELLENCE IN QUALITY





+86-373-5419586

- A wholly owned subsidiary of atlas copco group
- Air system solutions provider and one-stop shop
- Leader in energy efficiency optimization
- Field application expert
- Industry leading reengineering center
- Mir compressor system service industry new standard
- Innovation in sales and service tools
- Nationwide service sales network







LIUTECH Machinery Equipment Co., Ltd. - Customer Center

Production company address:industrial park b-22-1, yanghe industrial new district, lutech of Address of customer center; 2402, 24th floor; building no.5 (huahong business center), lane 388, daduhe road, putuo district, Shanghai

P.C: 453000 Tel: +86-373-5419586 FAX: +86-373-5419586 Email: info@lydafilter.com





We take care of your compressed air





LIUTECH Machinery Equipment Co. .Ltd --- Customer center was established in 2017, a wholly-owned company of atlas copco group of Sweden, provide "LIUTECH "energy efficiency leading air system solutions in the Chinese market contains a full range of oil injection screw compressor, water jet screw compressor, oil-free scroll compressor, freeze commitment of "we pay attention to your dryer, adsorption dryer, gas storage tank, pipe strainer, jie energy pipe Daohe thermal energy and providing customized comprehensive air recovery device and various service products help customers to improve equipment integrity rate.

LIUTECH brand adopts European cuttingedge technology, product design according to China's unique market demand, more adapt to local conditions: In the meantime. the one-stop service that covers the whole country makes you look after carefree. LIUTECH is committed to inheriting the brand compressed air" and continuously developing solutions for our customers.





Production company



The customer center is located in Shanghai

"Excellent Performance, Excellent Quality" is LIUTECH's quality policy, pursue this quality policy, LIUTECH ensures that all products maintain high quality. In China, we have established five major air centers in East, South, West, North and Northeast China, and offices in more than 30 large and medium-sized cities throughout the country. Sales and service personnel have undergone strict professional training. We always pay attention to your compressed air to ensure your safe and efficient production.

LU45-132G high-efficiency gear series screw compressor, relying on advanced European original technology of the group company is designed to enhance the cooling system and dust removal system for various complex environmental projects in China. In addition to the inherent features of reliable operation, energy saving and mute, more suitable for various complex climates and relatively harsh environment engineering.



EXCELLENT OVERALL PERFORMANCE



ENERGY SAVING

Design, production and management belong to Atlas Copco Group, which provides key components globally. LU45-132G has been supranational secondary energy efficiency standard.

ENVIRONMENTAL PROTECTION

Accurate analysis of air flow inside the machine and rational use of silencer. In the assembly process, the assembly of each component is controlled to ensure low noise during operation. Even if the machine is placed near the workplace or office, it will not cause discomfort to the human body.

Extend the service life of the whole machine

The development of LIUTECH products must have as little impact on the environment as possible, so we abandon the use of materials that have impact on the environment, such as materials containing cadmium and asbestos, and absolutely do not use Freon substances that can destroy the ozone layer.

With Atlas Copco original high efficiency screw air end, can save more than 5% energy than similar products in the market.

Intelligent electronic controller automatically control loading/unloading operation. When the rated pressure of the machine is reached, the compressor is unloaded and loaded automatically when the system pressure is lower than the set value. According to actual gas consumption, the optimal automatic shutdown time can be selected intelligently after unloading, and the optimal restart scheme can be determined to save energy. At the same time:

Protection motor



Convenient maintenance

Reasonable layout, humanized design, mature model. No matter routine maintenance or malfunction maintenance, can be easily controlled.



MULTIPLE IMPROVEMENT MEASURES

- Optimized and improved internal pipeline design. more reasonable layout, smaller pressure difference, lower energy consumption.
- High efficiency and energy saving atlas vacuum inlet valve, maintain lower unloading pressure
- (0.9bar), avoid high energy consumption of no-load
- Fan start-stop control automatically adjusts according to oil temperature to reduce energy consumption.







LU G SERIES SCREW COMPRESSOR

Reasonable and coordinated layout, least moving parts, humanized component design, mature models, extremely high quality



- Screw main engine is the heart part of screw compressor, its performance directly affects the service life and cost of the whole machine.
- The world's first brand Atlas Copco original host, advanced SAP screw profile, SKF heavy-duty bearing, minimize the impact and vibration of the machine, effectively prolong the life of the moving parts.
- Motion parts have excellent material quality and high processing accuracy. The whole machine has low
- vibration and noise.

 With the best screw linear speed and compression ratio, can save more than 5% energy than similar

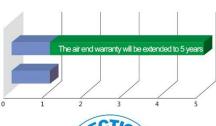




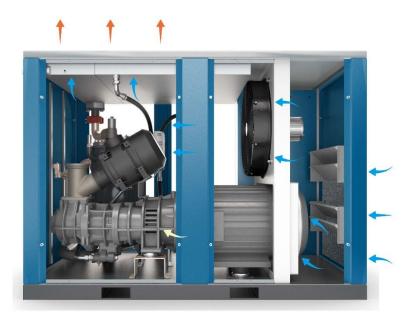


FIVE-YEAR QUALITY ASSURANCE SCHEME FOR LIUTECH SCREW COMPRESSOR

Purchase LIUTECH compressor, as long as through the LIUTECH Wechat official network for simple registration, can extend the quality warranty of screw compressor from one year to three or five years (for details, please consult LIUTECH factory or LIUTECH authorized agent)









GEAR TRANSMISSION

- No fragile parts
- The flarge connection of gearbox with motor and air end ensures the permanent alignment of transmission system, and transmission efficiency is higher.
 After a long period of operation, the efficiency of the transmission system will not be reduced.
- Thanks to the smaller radial force and shock absorber under the gearbox, the service life of compressor is longer.





OIL CIRCUIT SYSTEM

Original imported oil filter ensures the stable operation of compressor



MOTOR & INTAKE VALVE

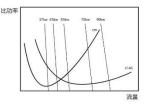
Energy-efficient atlas copco vacuum inlet valve (patent)

- Maintain lower discharge pressure (0.9bar)
- Avoid the high energy consumption of no-load operation



IE2 HIGH EFFICIENCY MOTOR

- Full series standard with IE2 domestic well-known brand efficient motor 0
- IE3 super efficient motor selection, saving more energy



Original imported high efficiency oil separator, exhaust oil content is only 2-3ppm





TECHNICAL PARAMETERS OF AIR COOLED TYPE

Model	Outlet pressure MPa	Volume Flow m³/min	Motor power kW	Noise Level dB(A)	Net Weight kg	Outlet Size	Dimensions LxWxH mm
LU37-7G	0.7	6.20		68	660	G1 1/2	1430X950X1410
LU37-8G	0.8	6.05	37				
LU37-10G	1.0	5.20					
LU45-7G	0.7	8.47		69	870	G1 1/2	1720X980X1600
LU45-8G	0.8	8.03					
LU45-10G	1.0	7.46	45				
LU45-13G	1.3	6.45					
LU55-7G	0.7	10.56		72	1220	G2	1950X1060X1600
LU55-8G	0.8	10.06					
LU55-10G	1.0	9.17	55				
LU55-13G	1.3	7.88					
LU75-7G	0.7	13.68		73	1285	G2	1950X1060X1600
LU75-8G	0.8	13.09	7222				
LU75-10G	1.0	11.85	75				
LU75-13G	1.3	10.32					
LU90-7G	0.7	17.16		73	1570	G2	2260X1060X1600
LU90-8G	0.8	17.08					
LU90-10G	1.0	15.28	90				
LU90-13G	1.3	12.52					
LU110-7G	0.7	21.20		74	1870	G2	2260X1230X1600
LU110-8G	0.8	20.00					
LU110-10G	1.0	17.10	110				
LU110-13G	1.3	14.30					
LU132-7G	0.7	25.00		75	1920	G2	2260X1230X1600
LU132-8G	0.8	24.30					
LU132-10G	1.0	21.00	132				
LU132-13G	1.3	17.00					

Options: Standard IE2 high-efficiency motor, IE3 ultra-high-efficiency motor optional

- Notes: 1. Power supply: 380V/3/50Hz
 - 2, Start-up mode: Star triangle step-down and start-up 3. Acceptable customization of special power supply

- 5. Acceptable special customized models
- 4. Technical parameters are subject to change without prior notice.

INTELLIGENT CONTROL SYSTEM

CS5000 controller specially designed for screw compressor is an upgraded LCD panel intelligent controller. The interface between Chinese and English is selected and large character display is displayed. Compared with previous controllers, CS5000 intelligent controller has more advantages in reliability and energy saving. It is more conducive to ensuring the normal operation of the whole machine and realizing unattended operation.

Multiple signal output

Flexible control mode

Local control Switch state output

Remote control Analog signal output

Up to 6 machines linkage control RS485 Interface of MODBUS RTU Protocol

Computer upper control (optional)

According to user's working condition

The load rate can be adjusted automatically and the control accuracy can reach 0.01 Mpa to ensure the pressure balance of the system.

Real-time monitoring of air end temperature, providing high temperature alarm and shutdown protection

Query the causes of site and historical faults, and troubleshoot faults more quickly

Display the state parameters to better maintain and maintain the machine

LINKAGE CONTROL

It can centrally control 2-6 compressors, reduce system pressure, energy consumption, the leakage of compressed air and maintain the stability of the pressure of the whole pipeline network.



TECHNICAL PARAMETERS OF WATER COOLED TYPE

MODEL	OUTLET PRESSURE MPa	VOLUME FLOW m³/min	MOTOR POWER kW	Noise Level dB(A)	Weigнт kg	Exit Size	Dimensions LxWxH mm
LU55W-7G	0.7	10.56		72	1250	G1 1/2	1819X1060X1598
LU55W-8G	0.8	10.06	55				
LU55W-10G	1.0	9.17	33				
LU55W-13G	1.3	7.88					
LU75W-7G	0.7	13.68		73	1300	G1 1/2	1819X1060X1598
LU75W-8G	0.8	13.09	75				
LU75W-10G	1.0	11.85	,,,				
LU75W-13G	1.3	10.32					
LU90W-7G	0.7	17.16		73	1620	G1 1/2	1819X1060X1598
LU90W-8G	0.8	17.08	90				
LU90W-10G	1.0	15.28	30				
LU90W-13G	1.3	12.52					
LU110W-7G	0.7	21.20		74	2400	DN65 PN16bar	2312X1200X1600
LU110W-8G	0.8	20.00	110				
LU110W-10G	1.0	17.10	110				
LU110W-13G	1.3	14.30					
LU132W-7G	0.7	25.00			2550	DN65 PN16bar	2312X1200X1600
LU132W-8G	0.8	24.30	132	75			
LU132W-10G	1.0	21.00		,5			
LU132W-13G	1.3	17.00					



IVR ADVANCED FREQUENCY CONVERSION TECHNOLOGY

Since the screw compressor can achieve the purpose of changing the air flow volume by adjusting the screw speed, we use the Schneider converter to introduce the LU GP IVR series variable frequency screw compressor. The series can control the rotation speed of the compressor motor according to the change of the actual gas consumption of the user. The actual power increases or decreases with the increase or decrease of the gas consumption, and the energy can be more effectively utilized for the compression of the air. The LU GP IVR series of frequency conversion technology not only saves up to 30% of energy, but also provides more accurate pressure control, making it the best energy saving solution in modern factories.





AIR-COOLED FREQUENCY CONVERSION MACHINE TECHNICAL PARAMETERS

Air cooled model	Airr outlet pressure MPa		e Flow min Max	Motor Power kW	Noise leve dB(A)	Weight kg	Exit size	Dimensions L x W x H (mm)
LU90-7G IVR	0.7	3.43	17.16					
LU90-8G IVR	0.8	3.42	17.08		73	1650	G2	2260X1060X1600
LU90-10G IVR	1.0	3.06	15.28	90				
LU90-13G IVR	1.3	2.50	12.52					
LU110-7G IVR	0.7	6.36	21.20	110	74	1970	G2	2260X1230X1600
LU110-8G IVR	0.8	6.00	20.00					
LU110-10G IVR	1.0	5.13	17.10					
LU110-13G IVR	1.3	4.29	14.30					
LU132-7G IVR	0.7	7.50	25.00	132	75	2020	G2	2260X1230X1600
LU132-8G IVR	0.8	7.29	24.30					
LU132-10G IVR	1.0	6.30	21.00					
LU132-13G IVR	1.3	5.10	17.00					
LU90W-7G IVR	0.7	3.40	17.16		71	2150	G2	2312X1200X1600
LU90W-8G IVR	0.8	3.45	17.00	90				
LU90W-10G IVR	1.0	3.00	15.26	. 90				
LU90W-13G IVR	1.3	2.50	12.53					
LU110W-7G IVR	0.7	6.36	21.20	110	74	2490	DN65 PN16bar	2312X1200X1600
LU110W-8G IVR	0.8	6.00	20.00					
LU110W-10G IVR	1.0	5.13	17.10					
LU110W-13G IVR	1.3	4.29	14.30					
LU132W-7G IVR	0.7	7.50	25.00		75	2640	DN65 PN16bar	2312X1200X1600
LU132W-8G IVR	0.8	7.29	24.30	132				
LU132W-10G IVR	1.0	6.30	21.00	152				
LU132W-13G IVR	1.3	5.10	17.00					

Notes: 1, Power supply: 380V/3/50Hz

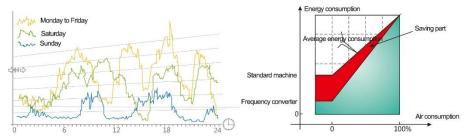
 Start-up mode: Star triangle step-down and start-up 3. Acceptable customization of special power supply

4. Accepte customized models

ENERGY SAVING

Conventional compressors (standard machines) usually use an ON/OFF or proportional adjustment system to adjust the amount of air by adjusting the amount of opening in the compressor inlet. The adjustment mode can also better meet the requirements of the actual gas consumption, but during the entire adjustment process, the rotation speed of the compressor is maintained at the rated rotation speed, and the friction work and the coolant mixing work consumed by the machine are not reduced, so the gas consumption is used. Failing, but the actual power consumption is very limited. The frequency conversion adjustment can make the actual power consumption of the inverter compressor decrease to the same proportion, and the energy is effectively utilized for the compression of the air.

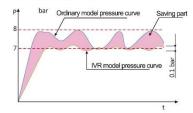
Gas load change chart for a customer



SMOOTH PRESSURE

Automatically track the change of the gas volume of the system, and use the PID (proportional, differential, integral) method to precisely adjust the speed of the compressor to keep the system pressure stable.

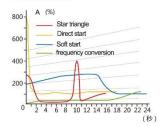
Pressure change diagram

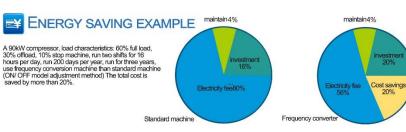


START WITHOUT IMPACT

The variable frequency starting method greatly reduces the impact of the start of the compressor on the power grid and mechanical parts, prolonging the life of the machine.

Start current meter







HOST 3/5 ANNUAL INSURANCE PLAN

How to effectively improve the reliability of air compressor operation to ensure the safety and stability of production?

1 COMMITMENT:

- LIUTECH "Host 3/5 Year Guarantee" program to make your air compressor core components - screw host enjoy a longer quality guarantee!
- <90KW: Host 3 years warranty; ≥90KW: Host 5 years warranty



2 APPOINTMENTS:

- Please replace the original wearing parts and maintenance valves regularly according to the maintenance requirements of the LIUTECH equipment manual and the actual working conditions.
- Practical experience shows that planned preventive maintenance services will reduce the probability of unplanned downtime of air compressors by 50% while reducing maintenance costs by 30%.
- 2. Please install LIUTECH "Bestlink" remote intelligent management system for air compressor
- Can apply for free installation from LIUTECH Service Center (Service Hotline: 40006000032)

BESTLINK IS ...

 With the help of the Internet of Things technology, real-time and centralized acquisition of the air compressor operating status, thereby realizing the diagnosis and management functions of the air compressor data, and truly guarding your equipment around the clock.





Bestlink helps you...

- Timely state control, truly unattended, reducing equipment management costs
- Fault warning and maintenance tips to ensure fast response
- Foresight and planned dispatch to avoid unplanned downtime and reduce maintenance costs
- Provide system optimization and energy saving exclusive plans through energy consumption measurement and analysis

Host redemption / unconditional overhaul

- LIUTECH understands the importance of time, reliability and maintenance costs for you, and continues to introduce innovative solutions for this purpose.
- Based on this upgrade, the screw machine host exchange and unconditional overhaul service products are
 the best embodiment of this spirit; it will be completely different from the competition and bring a new
 experience to the user.



Product advantages	LIUTECH	Third-party repair features
Business Scope	Host exchange: all models of LIUTECH Unconditional overhaul: LIUTECH>90KW model	Do not undertake risky air end maintenance business
Maintenance quality	Replace the full set of original overhaul components, the performance of the mainframe is almost close to the new machine after refurbishment	Replacement bearing, partial replacement, reliability is not guaranteed
Maintenance cycle	The standby host is on standby to minimize downtime and quickly resume production	No backup air end, lack of emergency solution
Warranty commitment	Warranty for 12 months. Repair rate <1%	Warranty 1-6 months. Repair rate >20%

• LIUTECH can also undertake airend overhaul services for mainstream models such as Ingersoll Rand, Sullair, CompAir, and Fusheng.

Heat recovery system

- For oil-injected screw compressors, about 90% of the electrical energy is converted into heat and then lost.
- LIUTECH's external heat recovery system recovers up to 75% of input energy in the form of hot or warm water without any negative impact on compressor performance.
- The recovered heat energy will be widely used in various occasions, and you can also save considerable energy and achieve high investment income.



Customer application











AIRnet Optimized pipeline

AlRnet is a new generation of compressed air pipeline developed by Atlas Copco Group

- Origin: Europe
- Material: Aluminum alloy (the surface is anodized)
- Chinese name:捷能管道

Product advantages

- No corrosion: no corrosion causes leakage
- The inner surface is absolutely smooth: longer pipe life, pressure drop loss is only 1/3 of the traditional pipe
- Easy and quick to install: 2-3 times faster than traditional pipes, 100% multiple recycling

AlRnet can completely replace traditional carbon steel pipes and stainless steel pipes



Product Range

- 7 pipe calibers : 20/25/40/50/63/80/100/150mm
- All matching joints + accessories





