TH
4-75kW
Bolaite Screw
Air Compressor

Robust and reliable
air compressors for
smart solution.

Bolaite

Better Life Together

www.bolaiteaircompressor.com

History

Establishment of the Company

Shanghai Bolaite Compressor Co., Ltd. was established

1999

Wholly-owned Acquisition

The company was acquired as a wholly-owned subsidiary by Atlas Copco Group, and was renamed Shanghai Baolete Compressor Co., Ltd.

2006.9

Bolaite

The company was formally renamed Bolaite (Shanghai) Compressor Co., Ltd.

2011.3

Production Center(PC)

Relocated to Wuxi, develop compressed air after-treatment equipment production, registered as Pan-Asia

2016.3

Customer Center(CC)

Rename Bolaite(Shanghai) Trading Co., Ltd, continue to be responsible for product sales and after-sales services

2016.3

About Bolaite

Bolaite is a company specialized in the design, manufacturing and sale of screw air compressors. Through years of effort, Bolaite brand products have been sold all over the country, have entered a large number of application fields and have won wide recognition and praise from the market. Bolaite has acquired the IS090001 authoritative certification of Lloyd's (UK) and has obtained various international certifications in environmental protection, safety and electrical engineering. All which makes Bolaite become one of the leaders in air compressor industry in China.

In March 2016, according to Atlas Copco group development strategy in the Chinese market, the production center of Bolaite was relocated to Wuxi, and after the expansion of the compressed air after-treatment equipment production business, a new production base, Pan Asia Gas Technology (Wuxi) Co., Ltd., was established.

Bolaite customer center was renamed Bolaite (Shanghai) Trading Co., Ltd. and continues to be responsible for the sales and service business of Bolaite in Shanghai.

Bolaite has continuously launched new air compressors and compressed air after-treatment products according to the market demand, and will pay attention to safety and energy-saving requests, so as to become a long-term, stable and responsible partner to its customers and collaborators. Just as Bolaite brand commitment says, “Better Life Together”.

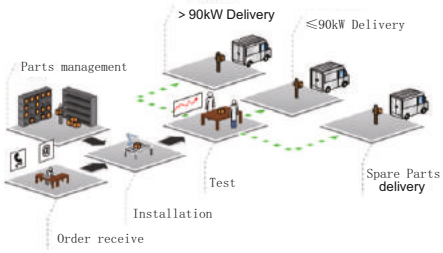
Lean Manufacturing

Advanced compressor R&D management system

- Bolaite product design has introduced the advanced R&D and management system of the group company.
- Each new product needs to go through five stages and more than one thousand processes before it can be serialized.

Advanced standard manufacture management method from group company

- Reasonable process arrangement;
- Quality traceability and responsible person system;
- The process and quality of each process are controlled.



Rigorous factory test procedure

- Each compressor must undergo rigorous testing before leaving the factory and have an independent quality inspection department to monitor the quality.

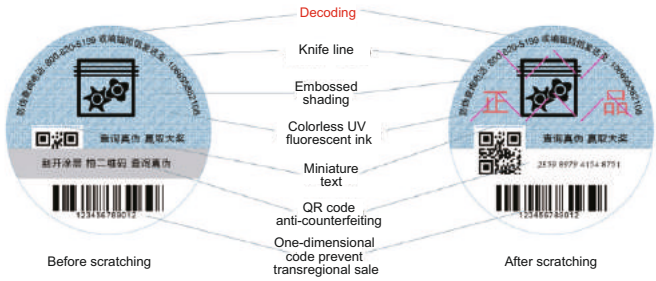
Compressor Maintenance

Bolaite offers a comprehensive range of maintenance services tailored to your equipment, from a single price to a long-term parts supply or a preventive maintenance contract. Through above contracts, you can enjoy value-added original service and protection, as well as price-competitive parts diagnosis and update.
We also provide energy saving solutions such as energy recovery, frequency conversion, energy saving optimization systems, etc., which can greatly reduce your production costs.

Original spare parts and anti-counterfeiting

All Bolaite original spare parts have undergone laboratory tests and on-site endurance tests to demonstrate that they meet specific technical requirements under all conditions. Only the use of original Bolaite spare parts can guarantee the stability and reliability of the operation of the air compressor. Once interrupted, it will seriously threaten the normal operation of the air compressor, which will affect the user's production schedule, production quality and operational efficiency.

Bolaite original spare parts identification method
Tel: 800-820-5199 Text message:106695882108



Excellent Energy Efficiency, Stable Performance

Time proven Atlas Copco element

- Atlas Copco airend with improved bearings and seal arrangement resulting in minimized energy costs.
- Fit for environments with ambient temperature up to 46° C.
- Robust and silent.

High efficient cooling system

- Enlarged cooling system ensures normal operation in high ambient temperature area.
- Over-sized cooling fan to ensure enough blowing wind.
- Cooling fan can be automatically operated as per the oil temperature.
- Easy access for maintenance.

Patented modular design

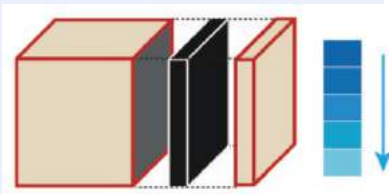
- The power <37KW model features a patented and innovative modular design that integrates high-efficiency rotors, valve components, main lines and oil and gas separation systems with no leakage, low pressure loss and easier maintenance. The groundbreaking patented technology creates the extremely high operating efficiency and reliability of the unit.

Intelligent controller

- LCD display in English and Chinese, the interface is friendly and intuitive, and the unit parameters can be adjusted quickly and conveniently.
- Powerful all-round protection: minimizes short-circuit, blockage, phase loss, overload, etc.

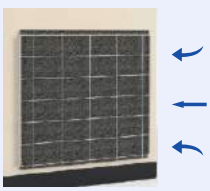
Professional noise reducing design

- One pack enclosure design.
- Fitted with sound-absoring cotton for lowest noise design.



Preventive filter protection cover

- Unique preventive filter cover design, keep the whole machine clean, extend maintenance cycle, easy to disassemble and clean, and can be reused.



TH/TH PM series 4-75 technical parameters

Model	Discharge Pressure Bar	FAD m³/min	Motor kW	Dimensions mm	Weight kg	Outlet Inch
TH–4	8	0.53	4	685x680x790 TM 1366 × 675 × 1348	140 TM 192	G1/2" TM G1/4"
	10	0.47				
TH–5.5	8	0.63	5.5	685x680x790 TM 1686 × 675 × 1348	150 TM 225	G1/2" TM G1/4"
	10	0.55				
TH–7.5	7	1.10	7.5	885 × 795 × 970	235	G3/4"
	8	1.10				
	10	0.80				
TH–11	7	1.65	11	885 × 795 × 970	255	G3/4"
	8	1.60				
	10	1.25				
TH–15	7	2.1	15	885 × 795 × 970	270	G3/4"
	8	2.1				
	10	1.7				
TH–18.5	7	3.0	18.5	1025 × 930 × 1280	410	G1"
	8	3.0				
	10	2.5				
TH–22	7	3.5	22	1025 × 930 × 1280	420	G1"
	8	3.4				
	10	2.9				
TH–30	7	5.0	30	1280 × 1035 × 1380	580	G1 1/2"
	8	4.8				
	10	3.8				
TH–37	7	5.8	37	1280 × 1035 × 1380	600	G1 1/2"
	8	5.7				
	10	5.0				
TH–45	7	7.1	45	1320 × 970 × 1380	650	G1 1/2"
	8	6.8				
	10	6.0				
TH–55	7	9.4	55	1575 × 1160 × 1720	880	Rp2"
	8	8.9				
	10	7.5				
TH–75	7	13.0	75	1575 × 1160 × 1720	1110	Rp2"
	8	11.6				
	10	10.5				

TH 7.5-75 PM

Model	Discharge Pressure Bar	FAD m³/min	Motor kW	Dimensions mm	Weight kg	Outlet Inch
TH–7.5 PM	8	0.25–0.95	7.5	800 × 650 × 930	158	G3/4"
TH–11 PM	8	0.45–1.6	11	850 × 700 × 990	297	G3/4"
TH–15 PM	8	0.6–2.0	15	850 × 700 × 990	300	G3/4"
TH–22 PM	8	1.05–3.6	22	1000 × 860 × 1080	340	G1"
	10	1.05–3.0				
TH–30 PM	8	1.4–5.1	30	1150 × 1020 × 1260	518	G1 1/2"
	10	1.4–4.4				
TH–37 PM	8	1.7–6.4	37	1150 × 1020 × 1260	550	G1 1/2"
	10	1.7–5.5				
TH–45 PM	8	2.1–7.3	45	1150 × 1020 × 1260	615	G1 1/2"
	10	2.1–6.5				
TH–55 PM	8	2.7–10.0	55	1600 × 1200 × 1460	1100	G2"
	10	2.7–8.4				
TH–75 PM	8	3.6–13.0	75	1700 × 1430 × 1460	1350	G2"
	10	3.6–11.5				

Refrigerated Dryer

High quality pure air

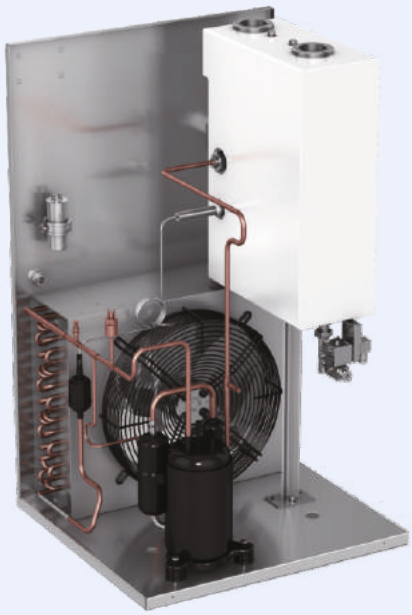
- High-efficiency three-in-one plate-fin heat exchanger: inlet and outlet temperature difference as low as 5 C
- High efficiency water separator: water removal efficiency of 99%
- Outlet compressed air relative humidity as low as 20%

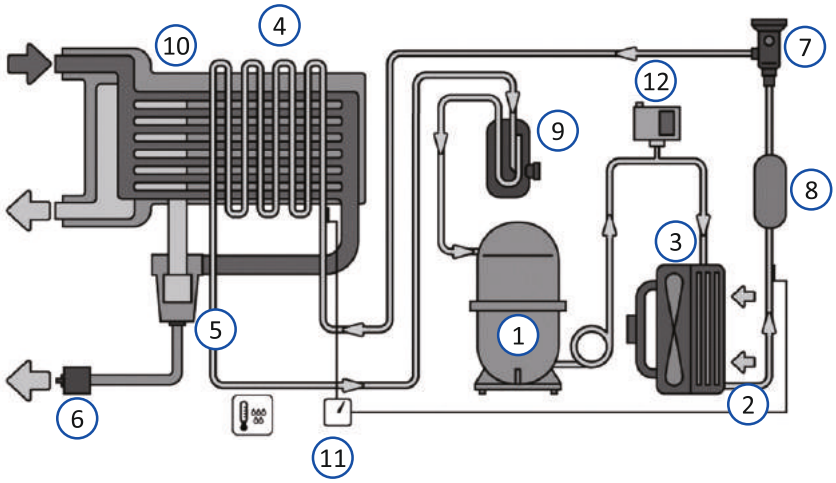
More energy saving

- 50% lower energy consumption than cold-dryers with shell-and-tube heat exchangers
- Efficient R410A environmentally friendly refrigerant agent

More reliable

- Industrial-grade brand refrigeration compressor
- New smart display with dew point display and fault alarm in one
- Optimized piping design with only 4 individual welds for less risk of leakage
- Each machine is tested for leak detection of compressed air, helium and refrigerant before leaving the factory.





1 refrigeration compressor	2 air-cooled condenser	3 motor fan
4 evaporator	5 gas-water separator	6 drain valve
7 expansion valve	8 drying filter	9 gas-liquid separator
10 air heat exchanger	11 dew point display	12 protection switch

Technical parameters

Model	Capacity m^3/min	refrigerating agent	Maximum power W	Length mm	Width mm	Height mm	Weight kg	Air inlet/outlet diameter
THD10	1.0	R134a	350	353	430	445	30	G3/4"
THD13	1.3	R134a	400	550	370	704	30	G3/4"
THD21	2.1	R134a	453	550	370	704	34	G3/4"
THD40	4.0	R410A	843	520	500	809	55	G1"
THD66	6.6	R410A	1170	520	500	809	60	G1.5"
THD85	8.5	R410A	1200	550	600	958	68	G1.5"
THD105	10.5	R410A	1312	550	600	958	75	G2"
THD140	14.0	R410A	2143	900	750	1009	110	G2"
THD175	17.5	R410A	2170	900	750	1009	126	G2"

- Ambient temperature: ≤45℃
- Inlet temperature: ≤60℃
- Maximum inlet pressure: 13bar
- Power supply: 230V/1/50Hz

Correction factor

Ambient temperature	℃	30	35	40	45			
		1	0.91	0.81	0.72			
Inlet temperature	℃	30	35	40	45	50	55	60
		1	1	1	0.82	0.69	0.58	0.49
Inlet pressure	bar	6	7	8	10	13		
		0.96	1	1.03	1.08	1.13		

- Design condition: Ambient temperature 30℃,Inlet temperature 40℃
- maximum pressure drop: Below 0.3bar

Dryer selection example

The rated gas volume of the compressor is 10m³/min, the actual amount of air to be compressed under the following conditions

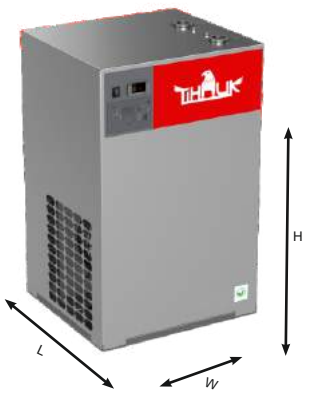
· Ambient temperature: 40℃

· Intake air temperature: 40℃

· Intake pressure: 8bar

· Actual amount of processing air required=10m³/min / 0.81/1/1.03 = 12m³/min

In order to ensure the pressure dew point, it is necessary to select a refrigerated dryer machine with a processing capacity of 12m³/min to meet the actual working



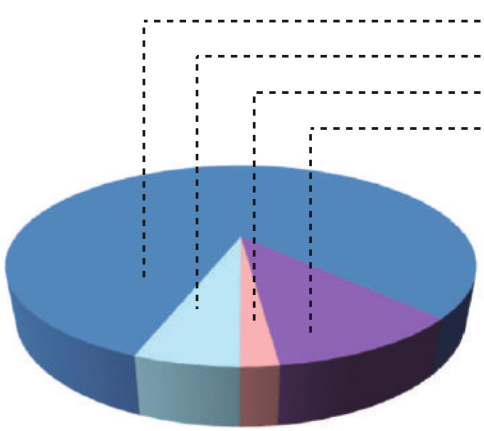
Variable Frequency Drive, Reduce Energy Consumption

Inverter-driven: Energy Saving Control

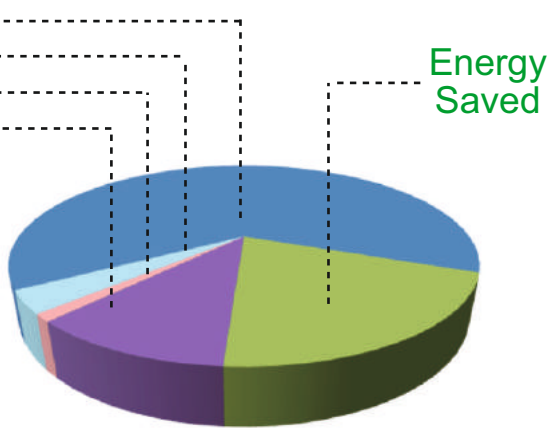
The energy cost of air compressor typically accounts for about 82% of the total cost during the lifecycle, with the power cost possibly over 40% of the total electricity fee of the factory. As proved by a long-term tracking study, the demand of most users for compressed air fluctuates dramatically by 40%-80% at different time.

Bolaite's advanced VFC variable Air Compressor can precisely meet users' demand for compressed air. When the air consumption is reduced, the rotary speed is lowered, the displacement is correspondingly less, and the power consumption is proportionally decreased. Through the advanced inverter technology, the unloading time of the compressor, and thus the power consumption is remarkably reduced.

Lifecycle Cost of Conventional Compressors



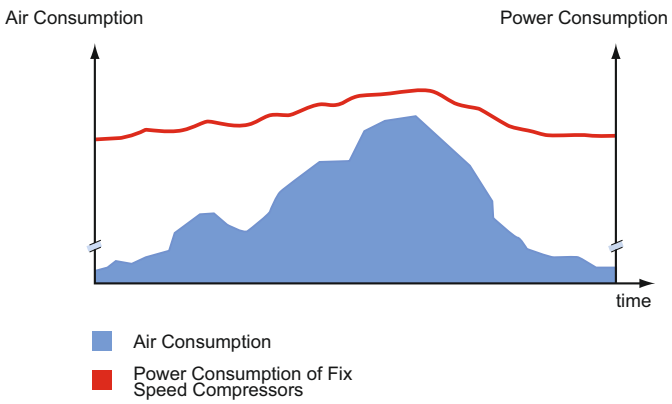
Lifecycle Cost of VFC Inverter Air Compressors



The average power consumption could be reduced by 30% even more

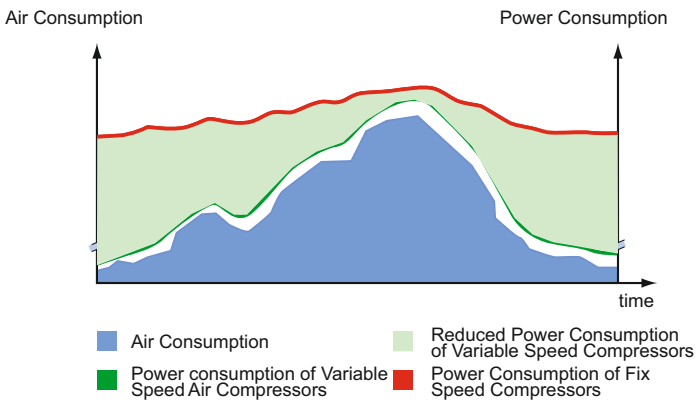
Bolaite variable speed air compressor can automatically adjust rotary speed of the motor by tracking the change of air demand, so the average power consumption is reduced by 30% even more. The extra investment cost for variable speed air Compressor can be recovered in one to two years.

Fix Speed Air Compressor: High Cost to Cope with Fluctuating Air Demand



Conventional air compressors cope with fluctuating air demand by setting a wide range of air pressure, loaded when the air demand is high and unloading when the air demand is low. Therefore, the system pressure, and thus the power consumption is high. Due to the fluctuating air demand, the compressor is in unloading state for relatively a long time, which leads to energy waste.

Variable Speed Air Compressor: Variable Air Flow and Energy-saving Control



The working pressure set for the variable speed air compressor is the pressure required by the customer, and the whole system is running at a lower pressure. As the rotary speed of the motor can be changed to meet the low air demand of the customer, the compressor is seldom unloading, and thus has no unnecessary power consumption.

Bolaite

ORIGINAL PART

Care. Trust. Efficiency.

Care.
Care is the base of our services: we offer professional after-sale personnel and high-quality OEM parts.

Trust.
Trust comes from our credible commitments: our products have ever-improving performance and long lifecycle.

Efficiency.
Regular maintenance ensures the efficient operation of our compressors: service efficiency makes a difference in terms of OEM spare parts and service quality.

Contact Local Bolaite Distributors

Service Hotline:
400-669-8060
www.bolaiteaircompressor.com