

SCREW AIR COMPRESSOR

Energy Conservation | Innovation | Smart



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Tribo Tech Engineering Private Limited

ABOUT US

M/S. Tribo Tech engineering private limited has been established in 2007 with the aim to serve various industries with its impeccable products through our experience acumen and specialty. We are manufacturing and supplying high quality compressed air solutions, industrial Screw air compressor, Refrigerated air dryer, chillers, air receiver tank and vacuum pump and various project utility work.

The core emphasis of the company is on growth and customer satisfaction which is achieved by constant and consistent efforts towards quality improvements and product development. We have shown tremendous growth potential as a result of maintaining international standards and delivering high quality product at low cost.

TriboTech has excellent mechanical engineering designers, an experienced staff team and a professional management team. The production concept focuses on energy-saving and is committed to perfecting and improving the technological process in order to get the core technology of super frequency energy-saving, achieving the characteristics of mute, durability, power saving and safety.

The company has 8 series of products with multiple models. Including fixed speed air compressor, PM VSD air compressor, PM VSD two-stage air compressor, Reciprocating Air compressor Refrigerated Air Dryer, Air receiver Tank, Chillers, and the matching spare parts. TriboTech adheres to the business philosophy of cooperation and mutual benefit to provide a one-stop service for every customers..

PRODUCTION CAPACITY

The workshop staffs have been engaged in the production of air compressors for a long time, and have accumulated a lot of on-site technology and management experience. Sales elites with 15 years of air compressor sales experience and a team of after-sales engineers with strong air compressor maintenance expertise.

PRODUCT APPLICATION

The Screw air compressor technology is becoming more and more mature, and has the characteristics of high performance, high efficiency, high reliability, low maintenance cost and intelligent control, can meet the actual gas demand of different users.

The application range of screw air compressor is very wide: heavy & light industry, mining, hydropower, seaport, engineering construction, oil and gas field, railways, transportation, shipbuilding, energy, military industry, spaceflight and other industries.



FIXED SPEED SCREW AIR COMPRESSOR

- ❖ Advanced High Efficiency Air End
- ❖ Flexible Coupling Direct Driven
- ❖ Intelligent Microcomputer Control System
- ❖ Safe Reliable and Efficient Motor
- ❖ Unique Heat Removal & Cooling System



1. Advanced High Efficiency Air End

Adopts industry-leading screw air end, high efficiency and low rotating speed. With the third generation tooth type of rotor, cutting-edge geometric design-stable, reliable, energy saving and long service life.

2. Flexible Coupling Direct Driven

Adopts direct connection structure without any loss, transmission efficiency is 100%, maintenance cost is low, disassembles convenient, greatly save the downtime. Easy maintenance--air end maintenance only need to disassemble the air end, motor maintenance only need to disassemble motor, do not affect each other.

3. Intelligent Microcomputer Control System

Adopts intelligent control system to ensure fully automated intelligent operation, detect exhaust pressure, temperature and other field data, and control the exhaust pressure within the preset pressure range through the intake valve, so as to output stable pressure.

4. Safe,Reliable and Efficient Motor

Adopts unique low-speed motor, protection grade IP55,insulation grade F, suitable for bad working conditions. High balance precision, high speed running smoothly.

5. Unique Heat Removal & Cooling System

Adopts advanced design, harmonica radiator, effectively increase the heat dissipation area, run faster and smoother, and take away the heat of the machine in time. The heat exchange effect of the same area is 30% higher than that of the traditional cooler. Even in the Asia-Pacific region with high temperature and high humidity, the normal operation of the unit can be guaranteed.

Fixed speed screw Air compressor

Cooler

- 1.The Heat Exchanger uses high-quality raw materials and a unique internal channel design which increases the heat exchanger area and can effectively dissipate heat for the air compressor.
- 2.The inner wall of the heat exchanger is treated with corrosion protection to increase the service life of the heat exchanger and increase the heat transfer effect.
- 3.The radiator has passed the strict factory test, and the quality is reliable, which effectively prevents the high temperature of the air compressor and increases the service life of the machine.



Air End

- 1.Adopts the international top level third - generation asymmetric wire twin screw air end adheres to the exquisite manufacturing process, adopts the peaks high efficiency low-pressure ,high efficiency tooth shape and the axial air inlet design.
- 2.Optimized flow channel design, with a large rotor ,low speed and high efficiency increased energy efficiency by 5% -15% compared to the second generation.
- 3.uses Swedish SKF Heavy -duty bearings , double -lip lip shaft seal, durable and reliable. The bearing design life is 80,000-100,000hours and the air end design life is about 200,000 hours.



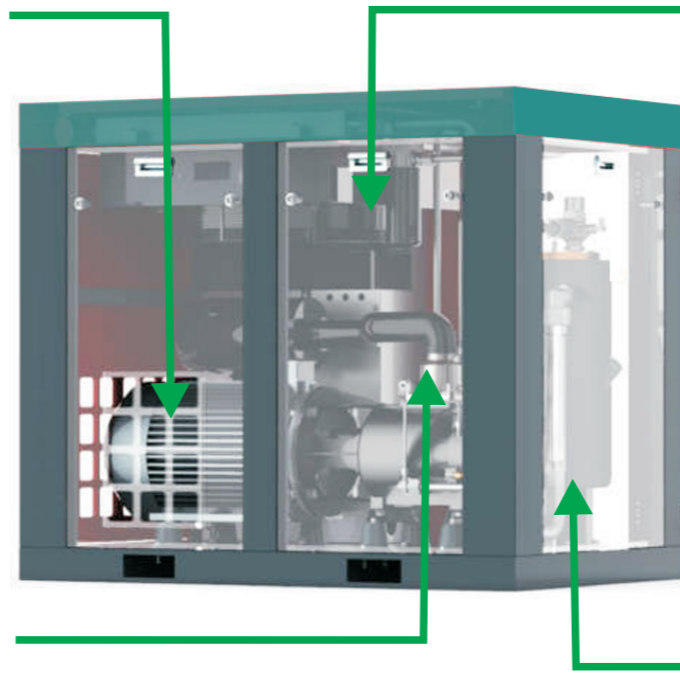
Motor

- 1.The motor uses high -performance motors of well -known brand .Permanent magnet synchronous motors (PM motors) use high performance NdFeB permanent magnets which will not lose magnetism under 200 degree and its service life reaches as long as 15 years.
- 2.the stator coil uses the frequency converter special halo proof enamelled wire, the insulation is outstanding and the service life is longer.
- 3.the motor has the function of temperature protection. it also has a wide range of motor speed regulation. High precision and wide range of volume regulation. The reliability is significantly improved with small size, Low noise and large excess current.
- 4.Protection grade IP55, Insulation grade F, effectively protects the motor and increases the service life of the motor, and the efficiency is 5% - 7% higher than similar products.



Inlet Valve

- 1.Adopts PLC Multilanguage control system, beautiful and intuitive interface, easy to operate function, operators can quickly and easily adjust the compressor.
- 2.14 protection functions such as overload protection, short circuit protection, low temperature protection, high voltage protection, etc. To fully protect the unit.
- 3.the advance micrometer control drive system realizes intelligent control, air volume variable speed control, and automatic adjustment of load start and soft start. Intelligent dynamic control, dynamic display of the working status of each component of the compressor, visual pressure, temperature, current working curve, etc.
- 4.Large memory and equipped with printer interface, it can use computer remote monitoring or multiple linkage control between air compressors.



Controller



- 1.the fan uses a large fa design to effectively enhance the fans heat dissipation effect. The motor adopts special internal design to adapt to harsh working conditions.
- 2.the fan motor adopts special winding and high protection grade design to adapt to harsh working conditions.
- 3.the fan is controlled by the controller to realize the automatic start and stop function, which effectively maintains the normal working temperature of the air compressor lubricant.

Fan



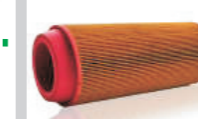
1. Intake valve is the core component to control the air intake of the air compressor.
2. Adopting the world famous brand air intake valve, it can automatically adjust the air volume by 0-100% according To the requirement of the system air quality .it promises small pressure loss, stable action and long life consequently reduced operating costs.

Oil Filter



- 1.Adopts high -density filter material, the surface is treated with nano -electro plating.
- 2.the filter element has uniform pore size, small filter resistance large flux, strong interception ability and long service life.
- 3.High filtration accuracy effectively filters impurities in lubricating oil, prolong the service life of the equipment.

Air Filter



- Adopting a design with high dust holding capacity and low flow resistance, which can filter out fixed particles in the air .The dust removal effect can reach 99.5% , ensuring the normal operation of the components of the system and extending the service life.

Air-oil Separator Core



- The high -quality air oil separation element and gas -liquid filter element are equipped three-stage air-oil separation to keep the oil content below 3 ppm to ensure the output of high-quality compressed air.



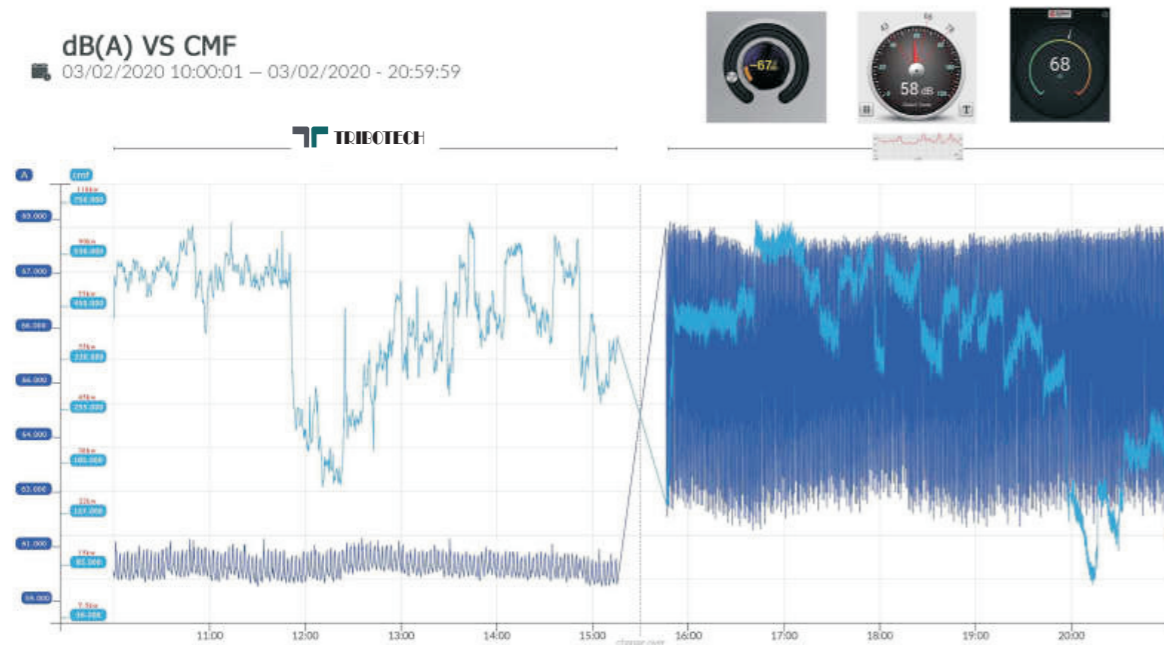
Fixed Speed Screw Air Compressor specification 7.5 kw - 45 kw

Model	TT-5.5DD	TT-11DD	TT-15DD	TT-18.5DD	TT-22DD	TT-30DD	TT-37DD	TT-45DD
Motor Power (KW)	7.5	11	15	18.5	22	30	37	45
Horse Power	10	15	20	25	30	45	50	60
Displacement/ Working Pressure (M3/Min/Bar)	1.2/7	1.6/7	2.5/7	32./7	3.8/7	5.3/7	6.8/7	7.4/7
	1.1/8	1.5/8	2.3/8	3.0/8	3.6/8	5.0/8	6.2/8	7.0/8
	0.9/10	1.3/10	2.1/10	2.7/10	3.2/10	4.5/10	5.6/10	6.2/10
	0.8/12	1.1/12	1.9/12	1.9/12	2.7/12	4.0/12	5.0/12	5.6/12
Air Outlet Diameter	Dn20	Dn25	DN25	DN25	DN25	DN40	DN40	DN40
Lubricating Oil(L)	10	16	16	18	18	30	30	30
Noise Level DB(A)	60±2	62±2	62±2	64±2	64±2	66±2	66±2	66±2
Driven Method	DD	DD	DD	DD	DD	DD	DD	DD
Start Method	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ
Weight (KG)	250	400	400	550	550	700	750	800
External	L950	L1150	L1150	L1350	L1350	L1500	L1500	L1500
Dimensions (MM)	W670	W820	W820	W920	W920	W1020	W1020	W1020
	H1030	H1130	H130	H1230	H1230	H1310	H1310	H1310

Fixed Speed Screw Air Compressor Specification 55KW – 132KW

Model	TT-55DD	TT-75DD	TT-90DD	TT-110DD	TT-132DD
Motor Power (KW)	55	75	90	110	132
Horse Power	75	100	125	150	175
Displacement/ Working Pressure (M3/Min/Bar)	D10.0/7	13.4/7	16.2/7	21.0/7	24.5/7
	9.2/8	12.6/8	15.0/8	19.8/8	23.2/8
	8.5/10	11.2/10	13.8/10	17.4/10	20.5/10
	7.6/12	10.0/12	12.3/12	14.8/12	17.4/12
Air Outlet Diameter	DN50	DN50	DN50	DN65	DN65
Lubricating Oil(L)	65	65	72	72	90
Noise Level DB(A)	68±2	68±2	70±2	70±2	70±2
Driven Method	DD	DD	DD	DD	DD
Start Method	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ
Weight (KG)	1750	1850	1950	1950	2500
External	L1900	L1900	L2450	L2450	L2450
Dimensions (MM)	W1260	W1260	W1660	W1660	W1660
	H1600	H1600	H1700	H1700	H1700

dB(A) VS CMF
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PM VSD SCREW AIR COMPRESSOR

- ❖ Antelligent Control System
- ❖ The latest Generation High Efficiency Permanent Motor
- ❖ Small start-up Impact
- ❖ Wide working Range To save Energy
- ❖ The Generation Super Stable Inverter
- ❖ Low Noise.



4. Wide working Frequency Range to save Energy

Frequency Conversion range from 5% to 100% when the user's gas fluctuation is large, the more obvious Energy saving effect and the lower the Low-frequency running noise, applicable to any place.

5. Small Start-up Impact

Use frequency conversion permanent magnet motor, start smooth and soft. When the motor starts, The current does not exceed the rated current, which does not affect the power grid and the mechanical wear of the main engine, greatly reduces the failure and prolongs the service life of the Main screw machine.

6. Low Noise

The Inverter is a soft device, the start-up impact very small, Noise will be very low when start-up. At the same time, PM VSD Compressor running is less than the fixed speed compressor during stable Operation, mechanical noise decreases very much.

1. Intelligent Control system

Direct Display of discharge temperature and pressure, operating frequency, current, power, operating, real time monitoring of discharge temperature and pressure, current, frequency fluctuations.

2. The Latest Generation High Efficiency Permanent Motor

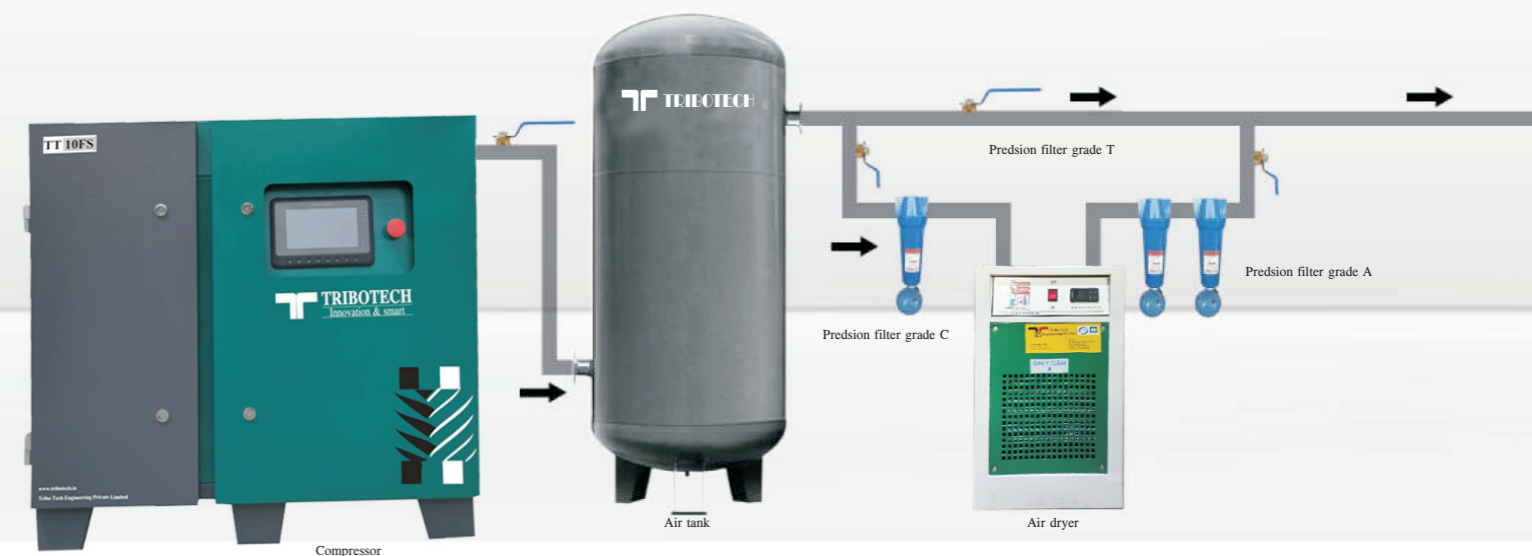
Insulation grade F, Protective grade IP55, Suitable for the bad working conditions. No gearbox design, motor and main rotor through the coupling directly connected, high transmission efficiency. Wide range of speed regulation, high precision, wide range of air flow regulation. The efficiency of the Permanent magnet motor is higher 3% -5% than regular motor, efficiency is constant, when the speed Drops, still remain the high efficiency.

3. The Latest Generation Super stable Inverter

Constant pressure air supply, air supply pressure is accurately controlled within 0.01Mpa. Constant Temperature air supply, general constant temperature set at 85 deg celcius, make the best oil lubrication effect and avoid high temperature to stop. No empty load, reduce consumption by 45% Eliminate excess pressure. For each 0.1mpa increase of air compressor pressure, energy consumption Increases by 7% vector air supply, accurate calculation, to ensure that the air compressor production And customer system air demand at all times to maintain the same.



Compresses Air Purification System Flow Chart



PM VSD SCREW AIR COMPRESSOR

Cooler

1. The Heat Exchanger uses high-quality raw materials and a unique internal channel design which increases the heat exchanger area and can effectively dissipate heat for the air compressor.
2. The inner wall of the heat exchanger is treated with corrosion protection to increase the service life of the heat exchanger and increase the heat transfer effect.
3. The radiator has passed the strict factory test, and the quality is reliable, which effectively prevents the high temperature of the air compressor and increases the service life of the machine.



Air End

1. Adopts the international top level third - generation asymmetric wire twin screw air end adheres to the exquisite manufacturing process, adopts the peaks high efficiency low-pressure, high efficiency tooth shape and the axial air inlet design.
2. Optimized flow channel design, with a large rotor, low speed and high efficiency increased energy efficiency by 5% -15% compared to the second generation.
3. uses Swedish SKF Heavy -duty bearings, double -lip lip shaft seal, durable and reliable. The bearing design life is 80,000-100,000hours and the air end design life is about 200,000 hours.



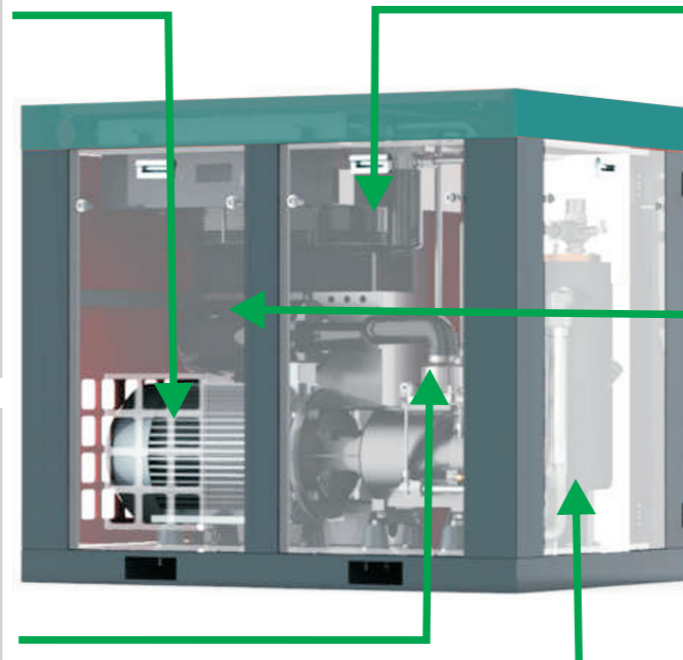
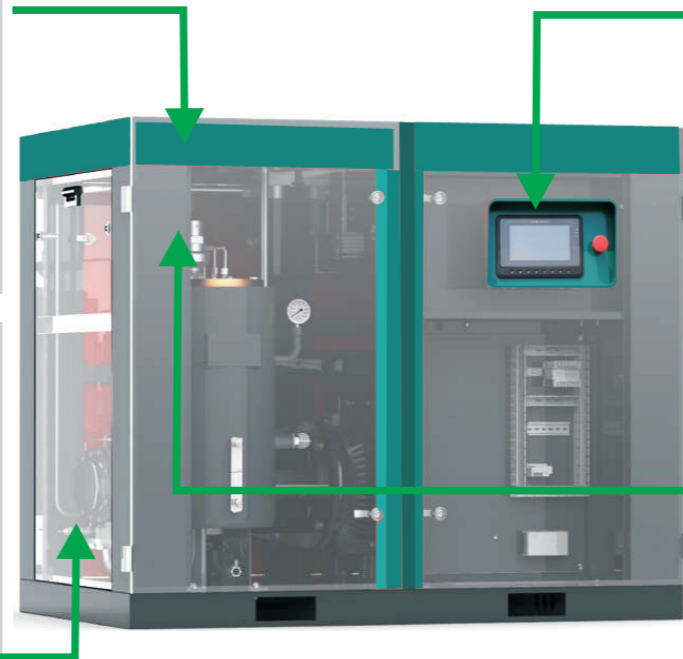
Motor

1. The motor uses high -performance motors of well -known brand. Permanent magnet synchronous motors (PM motors) use high performance NdFeB permanent magnets which will not lose magnetism under 200 degree and its service life reaches as long as 15 years.
2. The stator coil uses the frequency converter special halo proof enamelled wire, the insulation is outstanding and the service life is longer.
3. The motor has the function of temperature protection. it also has a wide range of motor speed regulation. High precision and wide range of volume regulation. The reliability is significantly improved with small size, Low noise and large excess current.
4. Protection grade IP55, Insulation grade F, effectively protects the motor and increases the service life of the motor, and the efficiency is 5%- 7% higher than similar products.



Inlet Valve

1. Adopts PLC Multilanguage control system, beautiful and intuitive interface, easy to operate function, operators can quickly and easily adjust the compressor.
2. 14 protection functions such as overload protection, short circuit protection, low temperature protection, high voltage protection, etc. To fully protect the unit.
3. The advance micrometer control drive system realizes intelligent control, air volume variable speed control, and automatic adjustment of load start and soft start. Intelligent dynamic control, dynamic display of the working status of each component of the compressor, visual pressure, temperature, current working curve, etc.
4. Large memory and equipped with printer interface, it can use computer remote monitoring or multiple linkage control between air compressors.



Controller



1. The fan uses a large fan design to effectively enhance the fan's heat dissipation effect. The motor adopts special internal design to adapt to harsh working conditions.
2. The fan motor adopts special winding and high protection grade design to adapt to harsh working conditions.
3. The fan is controlled by the controller to realize the automatic start and stop function, which effectively maintains the normal working temperature of the air compressor lubricant.

Fan



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2. Adopting the world famous brand air intake valve, it can automatically adjust the air volume by 0-100% according to the requirement of the system air quality. It promises small pressure loss, stable action and long life consequently reduced operating costs.

Oil Filter



1. Adopts high -density filter material, the surface is treated with nano -electro plating.
2. The filter element has uniform pore size, small filter resistance large flux, strong interception ability and long service life.
3. High filtration accuracy effectively filters impurities in lubricating oil, prolong the service life of the equipment.

Air Filter



- Adopting a design with high dust holding capacity and low flow resistance, which can filter out fixed particles in the air. The dust removal effect can reach 99.5%, ensuring the normal operation of the components of the system and extending the service life.

Air-oil Separator Core



- The high -quality air oil separation element and gas -liquid filter element are equipped three-stage air-oil separation to keep the oil content below 3 ppm to ensure the output of high-quality compressed air.

1. In Take Valve

1. Intake valve is the core component to control the air intake of the air compressor.

2. Inverter

1. The standard is equipped with high frequency reactor, effectively reducing the frequency Converter and the external magnetic field dry reactance.

2. Reliably reduces peak current when it is started .realizes stable starting.

3. with high –performance current vector technology, it can easily drive induction motors.

4. High performance ,high quality and high power density design, as well as significant improvements in usability, maintainability, environmental protection, installation space, and design standards, can further optimize the user experience.

5. Independent air duct design, resistance to all kinds of severe environmental pollution.

6. Rapidly track the change of pressure and control pressure fluctuation within +/- 0.01Mpa, Optimal power is used to accurately provide necessary air.

PM VSD Screw Air Compressor Specification 55KW – 250KW

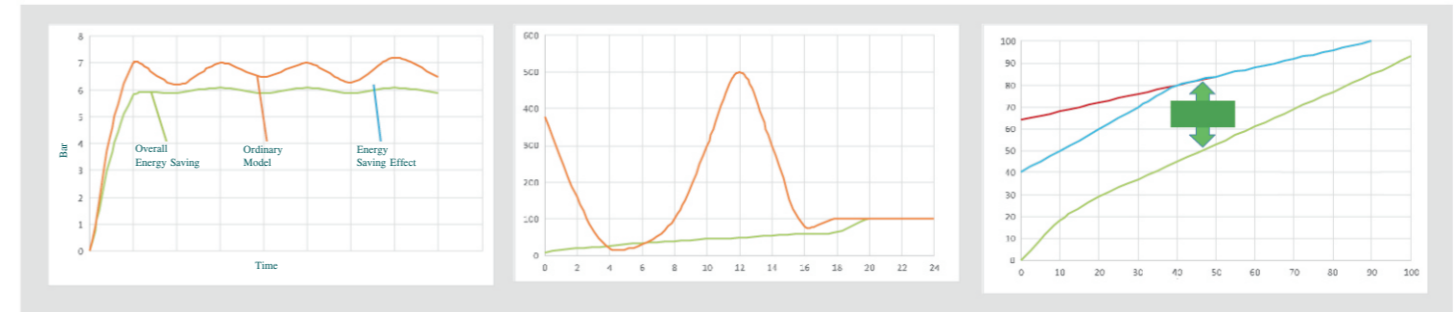
Model	TT-55V	TT-75V	TT-90V	TT-110V	TT-132V	TT-160 V	TT-185 V	TT-220 V	TT-250 V
Motor Power (KW)	55	75	90	110	132	160	185	220	50
Horse Power	75	100	125	150	175	220	250	300	35
Displacement/ Working Pressure (M3/Min/Bar)	10.0/7	13.4/7	16.2/7	21.0/7	24.5/7	28.7/7	32.0/7	36.7/7	42.0/7
	9.2/8	12.6/8	15.0/8	19.8/8	23.2/8	27.6/8	30.5/8	34.5/8	40.5/8
	8.5/10	11.2/10	13.8/10	17.4/10	20.5/10	24.6/10	27.5/10	30.2/10	38.1/10
	7.6/12	10.0/12	12.3/12	14.8/12	17.4/12	21.5/12	24.8/12	27.8/12	34.6/12
Air Outlet Diameter	DN50	DN50	DN50	DN65	DN65	DN65	DN80	DN80	DN80
Lubricating Oil(L)	65	65	72	72	90	85	120	210	220
Noise Level DB(A)	68±2	68±2	70±2	70±2	70±2	75±2	76±2	76±2	76±2
Driven Method	PM	PM	PM	PM	PM	PM	PM	PM	PM
Start Method	VSD	VSD	VSD	VSD	VSD	VSD	VSD	VSD	VSD
Weight (KG)	1750	1850	1950	1950	2500	3450	3450	3850	4250
External	L1900	L1900	L2450	L2450	L2450	L2700	L2800	L2800	L32500
Dimensions (MM)	W1260	W1260	W1660	W1660	W1660	H1950	H1950	H1950	H2300
	H1600	H1600	H1700	H1700	H1700				

PM VSD Screw Air Compressor Specification 7.5 kw - 45 kw

Model	TT-7.5V	TT-11V	TT-15V	TT-18.5V	TT-22V	TT-30V	TT-37V	TT-45V
Motor Power (KW)	7.5	11	15	18.5	22	30	37	45
Horse Power	10	15	20	25	30	45	50	60
Displacement/ Working Pressure (M3/Min/Bar)	1.2/7	1.6/7	2.5/7	3.2/7	3.8/7	5.3/7	6.8/7	7.4/7
	1.1/8	1.5/8	2.3/8	3.0/8	3.6/8	5.0/8	6.2/8	7.0/8
	0.9/10	1.3/10	2.1/10	2.7/10	3.2/10	4.5/10	5.6/10	6.2/10
	0.8/12	1.1/12	1.9/12	1.9/12	2.7/12	4.0/12	5.0/12	5.6/12
Air Outlet Diameter	DN20	DN25	DN25	DN25	DN25	DN40	DN40	DN40
Lubricating Oil(L)	10	16	16	18	18	30	30	30
Noise Level DB(A)	60±2	62±2	62±2	64±2	64±2	66±2	66±2	66±2
Driven Method	PM	PM	PM	PM	PM	PM	PM	PM
Start Method	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ
Weight (KG)	250	400	400	550	550	700	750	800
External	L950	L1150	L1150	L1350	L1350	L1500	L1500	L1500
Dimensions (MM)	W670	W820	W820	W920	W920	W1020	W1020	W1020
	H1030	H1130	H130	H1230	H1230	H1310	H1310	H1310

Overall energy saving

Compared with power fixed speed air compressor, variable speed air compressor has practical significance in energy saving

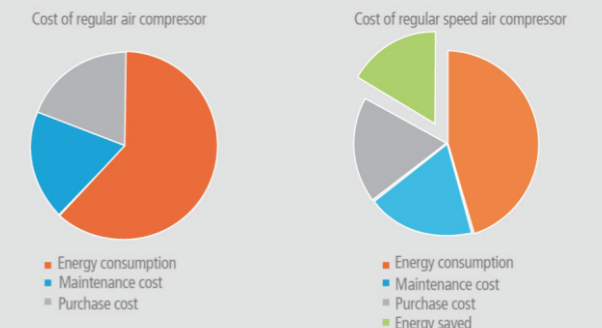


The pressure control of Variable speed air compressor is precise. It can quickly respond to pressure changes, adjust the speed, of the permanent magnet motor, control the pressure fluctuation range within +/-0.1bar, stabilize the pressure of the pipe network, provide the necessary air volume with the most reasonable power, and reduces excess energy loss.

The variable speed air compressor adopts the method of frequency conversion start up, eliminating variable frequency start, The peak current of star-delta startup is eliminating the peak current of start-delta start up and starting smoothly. Reduce the startup power, reduce the impact on the power grid and equipment, and can reduce the equipment operation noise.

Variable speed control is more excellent than ordinary throttle control. The adjustment range of the flow rate is larger, and with the high-efficiency permanent magnet motor, the energy saving effect is more significant at a low percentage flow rate.

Most of the cost in the life cycle of the air compressor is generated by the electricity it consumes. The power consumption of the compressor is closely related to the on-site air planning, The variable speed air compressor can not only ensure smooth production, but also save considerable electricity cost and achieve a win-win situation for the enterprise.



Reciprocating Air Compressor

Reciprocating Air compressor come in three types

- ❖ Single stage Air compressor
- ❖ Two stage Air compressor
- ❖ Multi stage Air compressor(High Pressure Air compressor)

Single Stage Air compressor

Our Single stage air compressor is ideal for most professional compressor user. Each air compressor features durable cast iron construction 100% continues duty cycle for the toughest application and Extend pump life for years of trouble free service.

Features : Industrial Quality Design
Durable cast iron construction
135 psi maximum operating pressure

Mainly Used : Industrial Quality Design
Durable cast iron construction
135 psi maximum operating pressure



Model	Free Air Delivery (cfm)	Working Pressure (kg/cm ²)	Motor Power (hp)	Compressor Speed (rpm)	No of Cylinder	Air Receiver Tank (Litre)
TT02SS	5.0	8	2	720	2	160
TT03SS	9.0	8	3	550	2	160
TT05SS	16.5	8	5	925	2	220
TT06SS	25.0	8	7.5	690	2	275
TT10SS	33.0	8	10	920	2	300
TT15SS	49.1	8	15	925	3	500

Two stage Air compressor

Consist of two or more cylinders the atmospheric air enters into LP cylinder through inlet filter & valves and passes to HP cylinder through inter cooler for final pressure. the highly efficient intercooler tube provides maximum heat dissipation between stage. These compressors are useful in textile, plastic industries, paper industries, spray painting, blowering, cleaning, tyre inflating,

Pneumatics, ceramics, automobiles, foundries, pharmaceuticals, CNC, VMC & Plasma cutting, sand blasting, Blow moulding, service station etc.



Model	Free Air Delivery (cfm)	Working Pressure (kg/cm ²)	Motor Power hp	Compressor Speed (rpm)	No of Cylinder	Air Receiver Tank (Litre)
TT03TS	8.9	12	3	925	2	160
TT05TS	14.0	12	5	750	2	250
TT06TS	24	12	7.5	960	2	275
TT10TS	35	12	10	750	2	300
TT15TS	54	12	15	960	3	500

High Pressure Air compressor

Machine having three stage processes to compress the air as the application require more pressure to give better output. These machines are having three to four cylinders with larger size of pistons it can generate maximum pressure up to 1000 psig (70 kg/cm²).

We have range of 3hp to 40hp different models to serve any pneumatic operation where it requires more pressure.

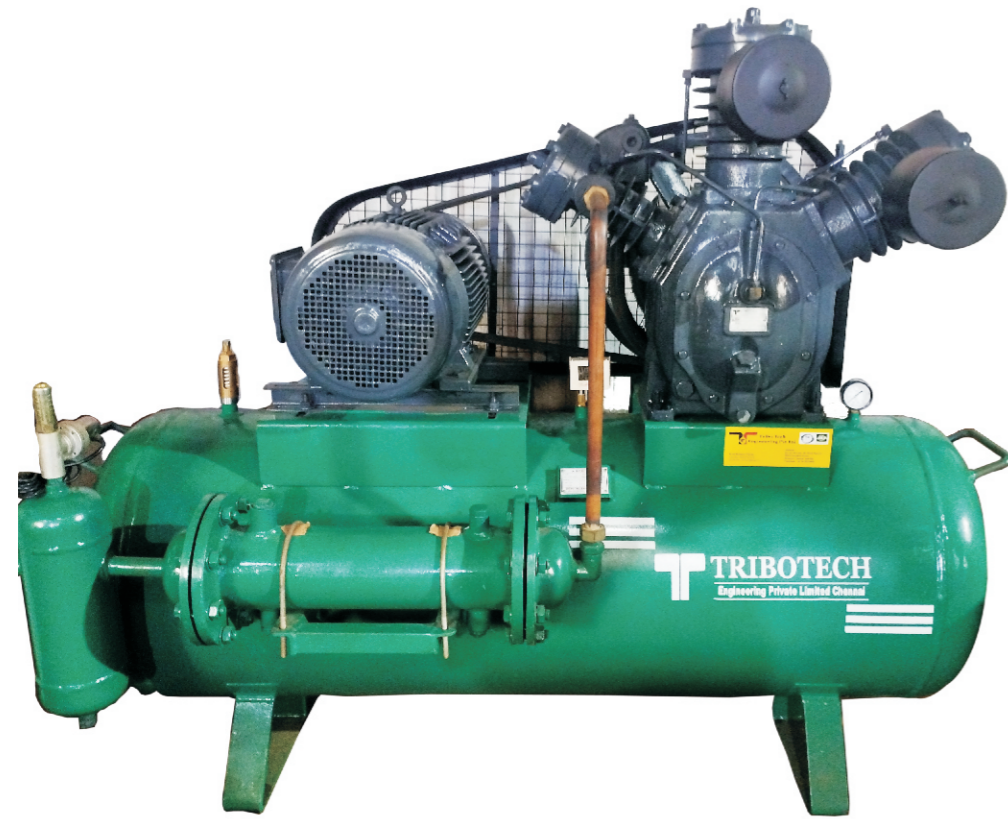
Mainly Used : Pet and Bottling Plants.

Marine Industries.

Beverage Industries.

Plastic Process Plants

Testing Application Product.



Model	Free Air Delivery (cfm)	Working Pressure (kg/cm ²)	Motor Power hp	Compressor Speed rpm	No of Cylinder	Air Receiver Tank (Litre)
TT03HP	4.8	35	3	660	2	200
TT05HP	4.31	70	5	800	2	220
TT10HP	18	35	10	800	2	300
TT15HP	31.41	35	15	750	3	500
TT20HP	37.7	35	20	900	3	500
TT20HPE	54	25	20	1060	3	500
TT20HP	54	25	20	800	3	500
TT25HP	74	25	25	900	3	750

Air Receiver Tank

An Air Receiver tank is an integral and important part of any compressed air system. The receiver tank will help remove water from the system by allowing the air a chance to cool. The receiver tank minimiser pulsation in the system caused by a reciprocating compressor or a cyclic process downstream. We provide a wide spectrum of air receiver in India. Storage tank can be used for wide variety of application which requires gases or compressed air to be stand for a period of time. Manufacturer these tanks to a wide Range of pressure capacities. These are vertical and Horizontal suitable for low and High pressure with various material of construction and different codes.

- Features :** Design Range 0.2 cu.m to 50 cu.m.
 Working pressure 1kg /cm² to 70 kg/cm².
 Design as per standard of ASME sec viii 1/IS2825.
 Material of construction –commercial and boiler quality.
 Horizontal and vertical orientation.
 High pressure storage of Air/Gas

Oil Free Air compressor

The outstanding performance and quality of Weather International's straight Piston Oil-Less air compressors, available in multiple configurations ranging from 0.75 to 10 Hp, make them the ideal choice of compressors when quiet, dependable and clean oil-free air is a must. To meet the always changing application requirements our straight piston compressor packages are available with after cooler, filters, and silencing cabinets resulting in an easy installation and start up

Oil-less compressor, or oil-free air compressor, is an air compressor that does not use oil for lubricating. This type of compressor operates at a lower RPM, which makes them quieter and more efficient.



Model	Free Air Delivery (cfm)	Working Pressure (kg/cm ²)	Motor Power hp	Compressor Speed (rpm)
TT03OF	5.6	10	3	160
TT05OF	11.25	10	5	220
TT06OF	15.75	10	7.5	250
TT10OF	24.0	10	10	500
TT15OF	33.75	10	15	500

Refrigerated Air Dryer

Refrigerated air dryers are general purpose dryers, most economical being less running cost. Tribo Tech Brand refrigerant system is environmentally friendly in nature. Refrigeration dryers remove moisture from compressed air to the desired dew point temperature. The dryer includes two separate circuits like compressed air circuit & Refrigeration circuit.

Working Principle

The saturated compressed air -to-air heat Exchanger (Pre-cooler/preheater). Here the incoming hot air is cooled by the outgoing cold air. Where it is cooled by outgoing air. This is basically an energy saving heat exchange. It reduces the load on the refrigeration system. The pre-cooled incoming air enters in the Air-to-Refrigerant heat exchanger further reducing the air temperature to specify dew point 2 degree Celsius -4 degree Celsius. The air leaving this evaporator is directed to the cyclone separators and water vapour condensate liquid droplets removed automatically by STROM POWER Automatic drain valve. The hot gas by-pass valve maintains load to the refrigeration system.



Model	End Connection	Condenser	Refrigerant
TT-20-RAD-S	½BSP	AIR	R-134A
TT-30-RAD-S	½BSP	AIR	R-134A
TT-40-RAD-S	½BSP	AIR	R-134A
TT-50-RAD-S	½BSP	AIR	R-134A
TT-60-RAD-S	1BSP	AIR	R-134A
TT-80-RAD-S	1BSP	AIR	R-134A
TT-100-RAD-S	1½”BSP	AIR	R-134A
TT-125-RAD-S	1½”BSP	AIR	R-134A
TT-150-RAD-S	1½”BSP	AIR	R-22
TT-200-RAD-S	1½”BSP	AIR	R-22
TT-250-RAD-S	2”BSP	AIR	R-22
TT-300-RAD-S	2”BSP	AIR	R-22
TT-400-RAD-S	2”BSP	AIR	R-22
TT-500-RAD-S	3”BSP	AIR	R-22

Chillers

Water Chillers TriboTech Engineering Pvt Ltd water chillers are designed in wide range from 1 TR to 50TR, there will be a hot water tank in our system from where the water is being pumped through the evaporator, gets cooled to the required temperature and sent to the user department. There will be a temperature indicating controller which controls the temperature of the chilled water. The system working is controlled by the set point of the temperature controller to stabilize the chilled water generated to the required level. Fresh water is used freely for cooling production processes. Today, most processes require cooling water with much closer defined tolerances. Water chillers provide cooling in a controlled closed circuit. This means that the water used for your production processes is reliable, constant, and defined.

Tribo Tech Engineering Pvt Ltd Water chillers will maintain the temperature range from 5° C To 30° C ± 1° C capacity from 450 Kcal/Hr to 150000 Kcal/Hr, 3 LPM to 650 LPM with different flow capacity. Water or other liquid from the chillers is pumped through process or industrial equipment especially for the plastics industry uses process chillers to reduce cycle times in injection moulding and blow moulding by regulating temperatures.

Laser welding chillers the most common way of permanently joining metal parts where heat is applied to permanently fuse pieces of metal together. For some pieces of welding equipment, heat needs to be removed from the welding heat to preserve the integrity of parts of the head. Depending on the heat removal a Tribo Tech Engineering Pvt Ltd portable chillers series is a good choice or since precise control and can provide sufficient cooling. Lots of flow at high heat loads. Small TIG or MIG welders consume 2-3 kilowatts. Precise temperature control is not important.

Plastic Injection Moulding chillers when metals are cut the friction causes heat to build-up in the recirculated cutting oil. By controlling the cutting fluid temperature greater accuracy can be achieved because thermal expansion and contraction of the material is eliminated. Always use a liquid heat exchanger with one path for the cutting oil and the other path for the chillers. TriboTech Engineering Pvt Ltd Chillers are ideal and most suitable for a wide spectrum of applications in industries like, Plastic Injection Moulding and extrusion, Pet Blowing, Film Blowing HDPE, LDPE, Pouch sealing Machines, Lamination Machines, Aluminium Die Casting, Laser Welding, Ultra sonic Welding, Induction Hardening Machine etc., those applications need to be cooled to a precise temperature to reduce the cycle time and product quality, productivity. Tribo Tech Engineering Pvt Ltd chillers are designed new generation styled. Tags: Aluminium Die Casting chillers, Lamination chillers, Laser Cutting & Welding chillers, Pet Blowing chillers, Plastic Injection Moulding chillers



Bore well Compressor

A Bore well air compressor pump works by forcing compressed air into bore through a pipe. The compressed air and water mix together resulting in a mixture that is less dense than the surrounding water and therefore flows upward through the pipe.

TriboTech Compressors made its trade mark in India with manufacturers of borewell air compressor pumps. BAC has been the tier one player in borewell air compressor manufacturers since decades. We have supplied to customers with depths ranging from 50 feet to 1500 feet. Unlike other bore well air compressor manufacturers we have special models for the borewell segment to obtain the maximum possible efficiency. We are one of the leading Borewell Compressor manufacturers in Coimbatore with thousands of installations so far.

TriboTech bore well air compressor pumps are designed in higher aspect with a motive to deliver high efficiency output in the fields of agriculture, domestic and industrial purpose as of customer perspective. We are the only industry to serve borewell compressor upto the depth of 1500 feet. "Quality is our watchword", we serve only the best quality, reliable, high efficiency bore well air compressor to our customers.

Design Advantages

❖ Heavy Duty Crankcase ❖ Aluminium oil level sight glass ❖ Shell moulded cylinders ❖ Forged Steel connecting rod for heavy operation ❖ Larger Fan Cooling area ❖ Continuous operation worthy ❖ Original FAG Bearings ❖ Adjustable motor bed for aligning ❖ Thick valve blades for enhanced life ❖ IPL rings prevents excessive oil carryover ❖ Long life fenner belts



Model	Free Air Delivery (cfm)	Working Pressure (kg/cm ²)	Motor Power hp	Compressor Speed (rpm)	Air Pipe Size (mm)	Lube Capacity (ml)
TT1.0BW	2.53	10	1.0	1420	16	400
TT1.5BW	3.00	10	1.5	930	16	350
TT2.0BW	3.95	10	2.0	1200	16	400
TT05BW	16.50	07	5.0	925	20	530
TT07BW	25.00	07	7.5	690	25	750
TT10BW	33.00	07	10.0	920	25	750