

High Pressure Oil Free air COMPRESSOR



Commercial proposal reference

Qty	Scope of supply
1	Air compressor: 12 m ³ /min 40 bar oil free PET compressed air installation Power:132KW Stationary oil free reciprocating air piston compressor mounted on a baseframe water cooled, complete with electrical motor, after-cooler
1	40 bar air receiver : 500 L horizontal - hot galvanised, Included with compressor
1	standard capacity PLC control and star/delta starter cabinet 380/50 Hz with microprocessor.
1	Sub Total for standard compressor package includes : technical documentation, mounting accessories, oil for 1st filling and water cooling system
1	25AD closed cooling water systems for the compressor
1	Container packing
1	Transport costs FOB shanghai

Specification

Compress gas	Air
Model	HLW-12/40
Structure type	L model water cooling piston type,3 stage, 3 cylinder
Capacity:	12m ³ /min
Input pressure	Atmospheric pressure
Output pressure	4.0 Mpa
Input temperature	≤40 °C
Output temperature	≤60 °C (after cooling)
Oil temperature	≤60 °C
Piston stroke	115 mm
Speed	580 r/min
Dia of 1 st cylinder	1-515/35 , double action
Dia of 2 nd cylinder	1-350/35, single action



Dia of 3 rd cylinder	1-230/35, single action
Motor power	≤132 KW
Cooling method	Water cooling
Lube method	Crankshaft,connect rod,,cylinder,presure,packing micro oil lubrication
Motor	132 kW、sf1.15、740r/min、380V、B3、IP23
Connect mothod	Direct resilient pin
Noise	≤85 dB(A)
Start method	Soft start
Mounting	No foundation
Size	4050/1750/2380mm
Weight	6000KGS

Main parts supplier:



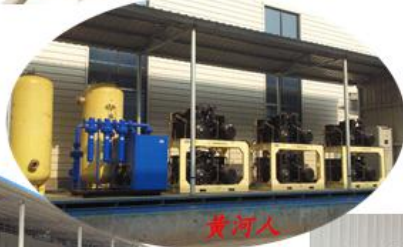
Name	Brand	Country
Piston ring	CPI	France
Valve	Hoerbiger	Sweden
Bearing	TWB	America
Solenoid valve	Burkert	Germany

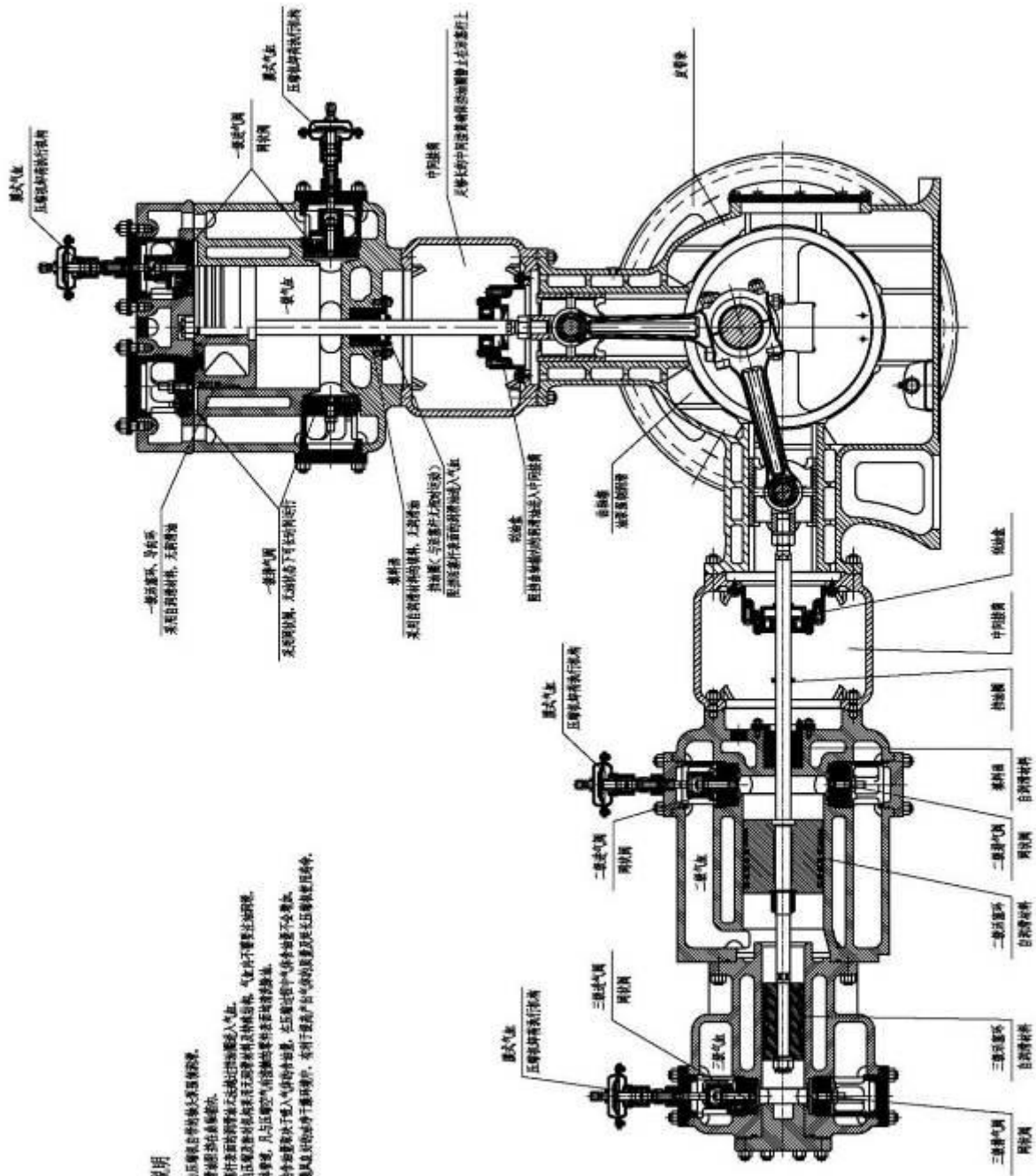
Sensor	Danfoss	Denmark
Thermostatic valve	Danfoss	Denmark
PLC	Siemens	Germany

Main customer in china:



Customer local :





说明

1. 压缩机由电动机驱动，经联轴器与压缩机轴连接，由电动机带动。
2. 压缩机轴由电动机带动，经联轴器与压缩机轴连接，由电动机带动。
3. 压缩机轴由电动机带动，经联轴器与压缩机轴连接，由电动机带动。
4. 气体在一级压缩后，经一级排气阀排出，进入二级压缩室。
5. 气体在二级压缩后，经二级排气阀排出，进入三级压缩室。
6. 气体在三级压缩后，经三级排气阀排出，进入油分离器。
7. 油分离器安装在三级排气阀出口处，用于分离压缩空气中的油分。

Introduction and advantage:

✧ Lowest speed oil-free high pressure air compressor

The oil-free high pressure air compressor core parts Polytertrafluoroethylene (PTFE) piston rings has been proven reliable in PET industry with 24 hours continuous operations. PET ALL company experienced technical team, design engineering focus on low speed, low piston load with specific operating temperature to optimism piston rings life span and other moving components



- Long piston stroke:10-30% more as compare with similar industry
- Small piston load: long stroke and small piston diameter, reduce pistons load
- Low temperature, 3rd stage discharge temperature between 90-130°C , greatly extend the life span of the discharge valves, packing seal, piston rings and other wearing parts
- Increase the number of piston rings: each level and more with 1-3 rings, reduced compression lost of each stage, increase air delivery
- Low vibration: Precise well balance machined components to achieved dynamic balance and reduces vibration
- Isobaric ratio: Precise compression design, with equal pressure ratio at eac individual stage to improve volumetric efficiency, reduce energy consumption significantly
- Compression stage: Three stage design, with double-acting cylinder on first stage and single-acting cylinders on second and third stage
- Each stage has a high efficiency chiller, the compression cycle nearly isothermal compression, reducing the power loss

Perfect system configuration

The machine adopts “L” shaped design, long stroke,simple structure, host components mounted on a rack, to overcome the “V” and “W” types of stoke is shorter and more complex structure shortcomings. Minimal moving parts, the second and third stage is small, and the horizontal plancement, the maximum extension of the life of the piston ring.



- All compressor components are in one on the base, including the gas line, water and emptying the interface, on special foundation, low installation cost, simple, easy maintenance, and fast
- Cabinet: The machine adopts PLC control, one, two, three temperature and pressure are sensors, hydraulic waterway also has sensors, signal centralized control by the PLC, and automatic fault alarm, limit downtime, enabling multi-joint control unit automatically
- Security: In addition to the pressure sensor outside each level has a safety valve, three more high pressure at the pressure sensor, high pressure alarm pressure switch and three measure of protection of the safety valve
- Oil cooler and automatic pump, heating oil reserve in the body of the interface can be configured (optional) according to customer demand
- Water cooling system with a booster pump to ensure that the required cooling water unit



Payment terms: 30% at order, 70% against Irrevocable and Confirmed Letter of Credit payable at sight 30% at order, 70% at notification of availability

Delivery time ex works: 12 weeks (from date of receipt of down payment, excluding holidays. AND 8 weeks from date of receipt of the letter of credi)

The 12 months' warranty starts upon commissioning of the machine but terminates at the latest 18 months after notification of availability, whichever comes first.

Any parts considered as defective will be replaced free of charge.

The normal wearing parts are not under warranty.

Transport, unloading and positioning of the goods on prepared location. Lifting hoist above compressor for heavy parts, mandatory for maintenance*. Connections between cooling system and compressor. 40 bar connections after the dryer. Electrical power supply and connections to the compressor control cabinet. Ventilation of compressor room, pipe work to sewer, drain.