



Screw Air Compressor
螺杆式空气压缩机



生产基地

江苏奥玛透平科技有限公司致力于为客户提供专业高端离心式压缩机、单级高速离心风机和整体空气压缩系统解决方案，是一家国家高新技术企业。

奥玛透平通过自身 20 多年的积累，从 OEM 配套商成功转型为离心式压缩机及风机制造企业，公司自主研发的全系离心式压缩机、单级高速离心风机等系列产品广泛应用于空气分离、食品发酵、纺织化纤、电子半导体等行业，已通过中国质量认证中心 ISO9001:2008 质量管理体系认证、TUV 无油认证、CQC 认证、CE 认证，获得 20 多项国家发明专利和新型实用技术专利。

公司的售后服务团队不仅为奥玛透平的产品保驾护航，还为同行业其它品牌的离心式压缩机提供一站式的维修保养服务，奥玛透平专业的售后服务质量得到了大量客户的好评和认可。

产品在国内外市场表现优异，已经远销到北美、欧洲、东南亚、中东、印度、台湾等国家和地区；并在加拿大埃德蒙顿设立了北美研发和服务中心，开展全球技术同步研发，并为北美市场提供服务；在波兰建立了组装工厂，服务于欧盟市场和俄语地区国家。努力打造 一个遍布全球的销售服务网络，把我们的产品更方便地提供给全世界的工业用户使用。



生产车间



外国客户参观



开机现场

精诚协作，精益求精， 追求完美品质

为确保每一台产品的品质，我们从零部件到车间生产、质量检验，要求每一位员工都兢兢业业，努力做到最好，每一个生产环节都精益求精，力求完美。

在服务市场的进程中，我们建立了以服务市场为中心的完整的公司服务架构以及遍布全国各主要城市的办事机构，各部门上通下达、即时响应客户需求，急客户之所急，在第一时间为客户排忧解难！



生产车间一角



前台接待



办公一角



售后服务



Screw Air Compressor

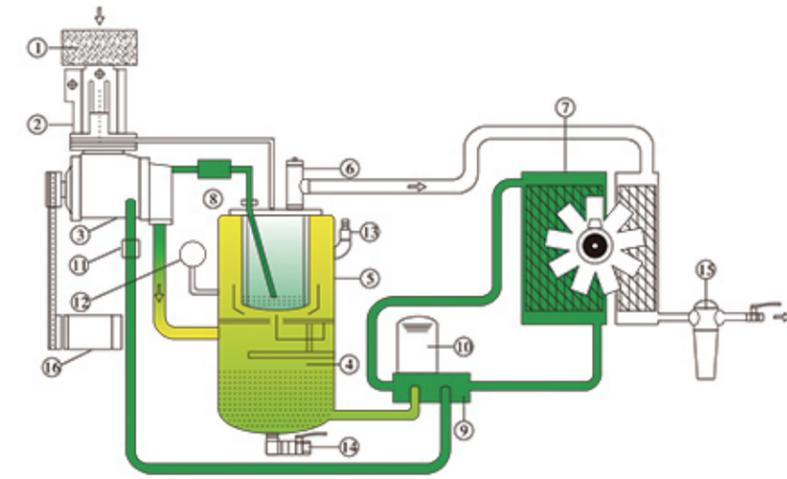


进口机头，整机零部件绝大部分采用国际著名品牌产品

Imports nose of the machine parts used most of the international famous brands products

Screw Air Compressor 双螺杆式空气压缩机

原理图 Schematics



- | | |
|---|---|
| 1、空气滤清器 Air Filter | 9、机油温控阀 oil Temperature Control Valve |
| 2、进气减荷阀 Air-in Easing Valve | 10、机油滤清器 oil Filter |
| 3、螺杆主机 Principal Screw Machine | 11、单向截流阀 One-way Shut-off Valve |
| 4、油气分离器 oil Air Separator | 12、压力表 Pressure Gage |
| 5、油气分离滤芯 oil Air Separating Filter Core | 13、安全阀 Safety Valve |
| 6、最小压力阀 Minimum Pressure Valve | 14、排油阀 Vent Valve |
| 7、铝合金翅片式散热器 Radiator with Aluminum Alloy Fans | 15、压缩空气气水分离器 Compressed Air Dry Separator |
| 8、回油单向阀 Return Check Valve | 16、电机 Motor |

原装进口智能控制器

Imports original intelligent controller

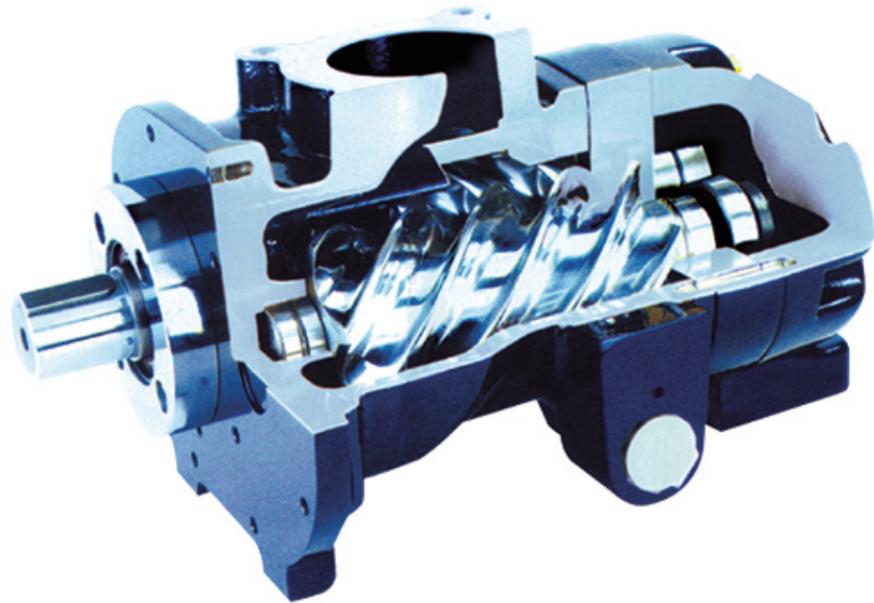


可靠的电器元件均选用享誉全球的电器产品，可让您在使用压缩机的过程中无后顾之忧。

Reliable electrical devices are used world-renowned electrical products, allows you to use compressors in the process of no worries for the future.

双螺杆式空压机主机介绍

Twin-screw air compressor introduced mainframe



喷漆

所有的螺杆式压缩机都具有现代化的环保型保护漆，其表面加工使其在使用多年以后能够有效避免铸件腐蚀。

外壳

现代化的数字控制加工中心根据连续测试的技术规范，并利用现代化机械技术进行恒性监控，应用于所有的加工作业中，为本公司压缩机的质量承诺提供了良好的保障。

轴密封装置

配有金属框架的双圈氟橡胶环能够承受一定的压力，形成可润滑的轴密封装置。轴上的衬套系运用我公司的独家技术进行特殊加工，具有完善的密封性能和超长的寿命。

转子

每台螺杆式压缩机的核心在于压缩机主机，由最新的CNC机器操作的多级全自动化螺杆制造工艺以及所使用的高级进口材料保证了其公差最小，可靠性更强。精磨加工与计算机操作的多步转子控制相结合，100%确保了转子轮廓的精确度。

轴承

为了保证轴承的转速和负载量，螺杆式压缩机选用世界名牌产品的优质轴承，寿命长，精度高。

Spray

All are screw-type compressor with a modern environmental-protection paint. Its surface machining so many years after the use of castings can effectively avoid corrosion.

Shell

The modern word processing centers under the control of the technical specifications for testing. The most advanced machinery and the use of modern technology and constant monitoring. It applied to all processing operations. For us on the Company's compressor quality certification of the commitments made by providing good protection.

Shaft sealing device

Equipped with dual wheels metal framework amine fluoride rubber ring to withstand certain pressures. Formation of the shaft seal can be lubricating device. Bush axis of the company's exclusive use my special processing technology. A perfect sealing performance and long life.

Rotor

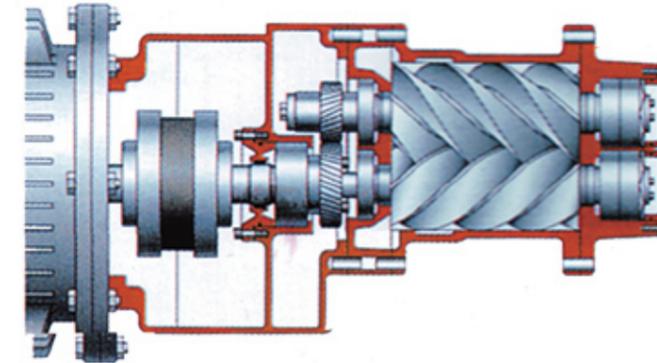
Each screw compressor is the heart of the compressor mainframe. From the latest CNC machine operators of multi-level screw fully automated manufacturing process and materials used by the higher minimum guarantee its tolerance. Reliability stronger. Ground processing and computer control of the multi-step rotor combine. 100% of the rotor to ensure the accuracy of profile.

Bearing

To ensure the speed and load bearing capacity. Using screw compressor bearing capacity of a very high quality bearings. Guaranteed longer bearing life.

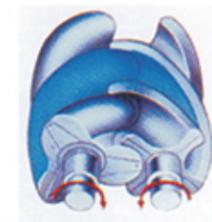
电机与主机工作过程示意图

Flow sketch of the electromotr and the master machine



吸气、压缩、排气过程示意图

Sketch of the process of inhaling compassing, and exhasting



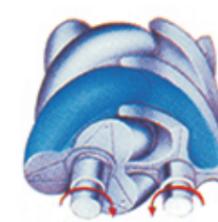
吸气过程

Sketch of the process of inhaling



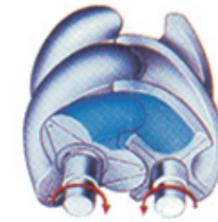
压缩过程 (1)

Sketch of the process of compassing



压缩过程 (2)

Sketch of the process of compassing



排气过程

Sketch of the process of exhasting

双螺杆式空气压缩机特点

Twin-screw air compressor features

压缩机主机寿命长

转子采用不对称型线，用球轴承和滚珠轴承支承并低速运行，所以磨损少，维修保养费用小，主机寿命长！斜齿轮上产生的轴向力抵消了一部分作用力，使得主机轴承负荷减少

电机和主机永久对中

与皮带传动的压缩机不同，SRC系列将法兰结构的电机联轴器箱-齿轮箱/主机结合为一体。这样压缩机在运转时、主机和电机永久对中。SRC压缩机由高效的，全封闭风冷式电机驱动。

Longor sorvice life of the master machine

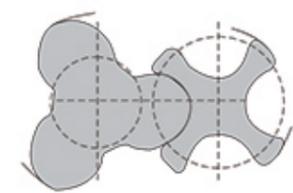
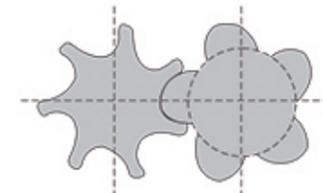
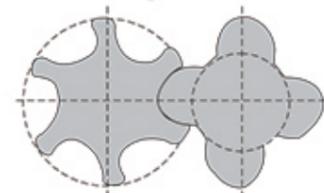
The rotor uses asymmetrical line running at a low speed with thesupport of the ball bearings and roller bearings As a result. the damageand the cost are lowered and the wervice life is extended. Some force is counteracted by the axial force generated by the bevel gear, so the load on the bearings of the master machine is lowered

Permanent alignment of the electromotor end the master machine

Different from the strap compressor,the SRC series compressor can integrate the electromotor with flange, shaft coupling box-gear box. and the master machine into one In such Way the master machine and the electrometer are aligned forever in the transpiration. The SRC series compressorsl equipped with effective and fully sealed air-cooling electrometer

齿形对照图

Contrast of rotor gear



采用第三代非对称齿形 female rotor male rotor

双螺杆式空压机内部构件

Twin-screw air compressor introduced mainframe



原装进口零部件

Twin-screw air compressor introduced mainframe



进口监控器 Imported Monitor

- LCD中英文显示。
 - 对电机具有短路、堵转、缺相、过载、不平衡等全方位保护功能。
 - 对电机具有起停控制、运行控制。
 - 对空压机进行逆转保护。
 - 对多点温度进行检测与控制保护。
 - 自动调节负荷率控制保护。
 - 高度集成、高可靠性、高性价比。
 - 远程/机旁选择控制。
 - 联动/独立选择运行。
 - RS-485通讯功能。
- LCD displayed in English and Chinese
 - Provide reberse protection for the air compressor
 - Possess all-directional protections of short-circuit, Locked rotor, phase failure, overloading and imbalance Of the electric machine.
 - Possess controls of start, open and operation of the Electric machine.
 - Perform inspection and control of multipoint temperature.
 - Automatically adjust the load factor.
 - High-grade integration, high reliability and high Performance ratio.
 - Remote/local selected control.
 - Interlock/independent selected operation.
 - RS-485 communication

原装进口轴承 Imported Bearing



主机采用性能优良的瑞典SKF轴承,更好的提升了主机的使用效率,减少磨损并且有利于增加啮合的平稳性。

Mainframe excellent performance by the Swedish SKF bearings, the better the use of mainframe upgrade the efficiency and reduce wear and is conducive to increasing the smooth meshing of.

进气阀 Suction Valve



进气阀安装在压缩机进口以控制压缩机进气量。正常运行时,由控制信号控制进气阀开启或关闭以满足用气要求,可无级或二点气量控制。停车或突然停止供气时,安装在进气阀内的一个单向阀保持关闭以防止空气回流。多种阀门方案可用于固定式或移动式压缩机。

Enter spirit valve install at the compressor import with control compressor row tolerance. Normal circulate, from control signal control enter spirit valve to open or close with satisfy use spirit request, can have no class or 2:00 tolerance control. Parking or stop short to provide spirit, install is enter spirit a one-way valve in the valve to keep close in order to prevent air reflux. Variety valve door the project can used for fix type or move type compressor.

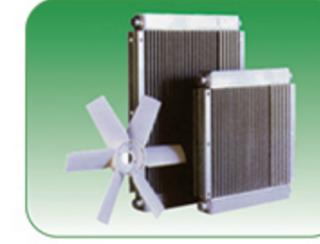
三滤:空滤、油滤、油分 Three-filter: air filter, oil filter and oil separator



我公司采用的三滤都是原装进口的产品。尤其是旋装式油分离器。其采用顶级滤材,提高了可靠性能装拆简便,节省时间。与传统的油分芯相比维修费用更低,更具有低残油率、低油耗等特点。

The three-filter adopted in Our company is Imported with In Original packlng from Especlally, the rotary separator, in which superior filter materials are used, is highly reliable, easy to be installed and dismantled and time-saving, compared with the tradional oil splitco nductor, the maintenance fee of it is lower; besides, it also has features of lower residual oil rate and lower oil consumption.

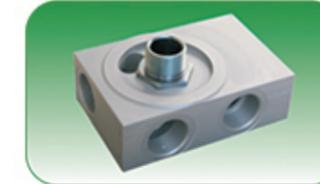
后部冷却器 Rear Cooler



采用低温差设计,增加有效换热面积,更适于高温、高湿的工作环境,以避免高温停机。

Low temperature difference design is used to increase the exchange area, so shutdown is avoided in the high-temperature and high-humidity work Environment

温控阀 Temperature control valve



温控阀由一个温控阀芯控制,当达到并保持一个最低油温时,油将旁通油冷却器,这样在低温启动时可以保护压缩机。压缩机启动和达到正常工作温度时,保证温控阀的正常运行。VMC可提供多种温控阀温度设定。

Temperature control valve from the Xin control of a Wen Kong4 Fa2, be attain and keep a lowest oil temperature, oil side oil water cooler, so at low temperature start can protection compressor. Compressor start with attain normal work temperature, assurance Wen Kong4 Fa2 of normal circulate is count for much. The VMC can provide a variety Wen Kong4 Fa2 temperature enactment.

集成阀 Integratad Valve



集成阀系统采用了专利离心技术。目的是提高机械式预分离效果。根据现行的标准规范,集成阀是由油气分离桶和法兰盘组成。该法兰盘上有油分座、油滤座、温控阀、安全阀、最小压力阀、回油窥视镜和油分压降检测孔组成。具有重量轻、占用空间少、接管少、无漏点。这是集成阀的最大优点。

The patented centrifugation techonlogy is adopter in the integration system of oil air separation with the purpose of improving mechanic separating effect. According to the current standard specifications, the pile-up valve is made up of an oil are separating barrel and a flange which is composed of oil separating seat oil filter seat, temperature, control valve, safety valve, lowest pressure valve, oil return sightglass and sensing hole of oil separating and pressure drop, it hastl advantages of light weight, little occupying space, few connecting pipes and no missing dots. This is the biggest advantage of the pile-up valve.

压缩空气净化系统简明配置图

Twin-screw air compressor introduced mainframe



注：以上配置仅供参考，具体配置可按实际情况作相应调整。

双螺杆式空压机规格表

Twin-screw air compressor introduced mainframe

机器型号 Model	SRC-7.5SA	SRC-10SA	SRC-15SA	SRC-20SA	SRC-25SA	SRC-30SA	SRC-40SA	SRC-50SA	SRC-60SA	SRC-75SA	SRC-90SA	SRC-100SA/SW	SRC-120SA/SW	SRC-150SA/SW	SRC-175SA/SW	SRC-200SA/SW	SRC-250SA/SW	SRC-270SA/SW	SRC-300SA/SW	SRC-330SA/SW	SRC-380SA/SW	SRC-420SA/SW	SRC-470SA/SW	SRC-600SA/SW	SRC-750SA/SW
冷却方式 Type of cooling	风冷 Air cooling												风冷/水冷 Air cooling/Water cooling						水冷 Water cooling						
进气状态 State of air inlet	≤环境温度 进气压力 1.013bar (A)																								
最大工作压力 Exhaust pressure	0.85/7	1.1/7	1.7/7	2.4/7	3.1/7	3.8/7	5.2/7	6.4/7	8.0/7	10.5/7	11.7/7	13.6/7	16.0/7	20.8/7	24.0/7	27.7/7	32.5/7	34.0/7	36.6/7	43.0/7	50.0/7	60.0/7	70.0/7	82.0/7	102/7
排气量 F.A.D m³/min/bar	0.6/1.0	0.8/10	1.4/10	2.1/10	2.7/10	3.2/10	4.3/10	5.5/10	7.0/10	8.7/10	9.5/10	11.6/10	14.0/10	17.5/10	20.0/10	22.5/10	26.0/10	28.0/10	31.0/10	37.0/10	40.0/10	46.0/10	53.0/10	62.0/10	80.0/10
功率 (KW) Power	5.5	7.5	11	15	18.5	22	30	37	45	55	65	75	90	110	132	160	180	200	220	250	280	315	355	450	560
转速 (r/min) Speed	2980												1480												
电压 (V) 频率 (Hz) Voltage/hertz	380V 50Hz												380V、6000V、10000V/50Hz												
启动方式 Start way	直接启动												Y-Δ启动						Y型直接启动(6-10KV)						
噪音dB (A) Noise	70												72 ± 5dB						82 ± 2dB						
排气含油量 Content of oil	1-3ppm																								
出口空气温度 Air outlet temp	环境温度+8°C Ambient Temp+8°C																								
冷却风量 (m³/min) Volume of cooling air	80	80	80	100	145	145	255	255	255	268	268	400	400	600	630	850	850	850	875	900	1400	1800	1800	1800	1800
冷却水量 (m³/h) Volume of cooling Water								2.5	3	3.5	4	5	6	8	9	10	12	13	14	16	20	22	26	33	41
接管口径 (inch) Scape-pipe	1/2"	1/2"	1/2"	1"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"	2"	DN80	DN80	DN80	DN80	DN100	DN100	DN100	DN100	DN125	DN150	DN150	DN150	DN150
整机重量 (kg) Weight	230	410	475	560	580	640	900	980	1050	1250	1530	1850	2100	2580	2700	3200	3700	4000	4260	3800	5000	5200	5600	6200	7000
外形尺寸 (mm) Dimensions	长	850	800	1100	1350	1350	1350	1550	1550	1900	1900	1900	2640	2640	2640	2640	3150	3150	3150	3360	3360	3360	4500	4500	4500
	宽	735	650	750	850	850	850	850	950	950	1240	1240	1240	1540	1540	1500	1500	1830	1830	1830	2000	2000	2000	2310	2310
	高	990	850	1150	1150	1150	1150	1150	1450	1450	1700	1700	1700	1880	1880	1880	1880	1900	1900	1900	2000	2000	2000	2450	2450



**自主研发，拥有核心技术，
整机零部件绝大部分采用国际著名品牌产品**

*Independent research and development with core technologies,
Unit Parts majority of products using well-known international brands*

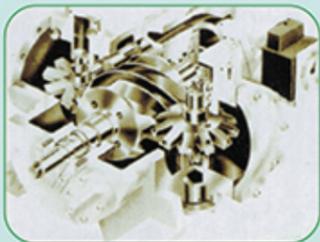
Screw Air Compressor 单螺杆式空气压缩机



上海施耐德日盛机械集团有限公司总工程师邱光林先生自1975年开始研制单螺杆压缩机，迄今近30年，并在80年代中期填补了单螺杆压缩机生产这一空白。
第一代单螺杆转子于1976年9月29日下午3时完，专利号：87.2 155 18.8。

QIU Guang Lin, Shanghai Schneider malpractice machinery Holdings Limited chief engineer. Since 1975 started to develop single screw Compressor, so far nearly 30, and in the mid-1980s to fill a single screw compressor production this blank.

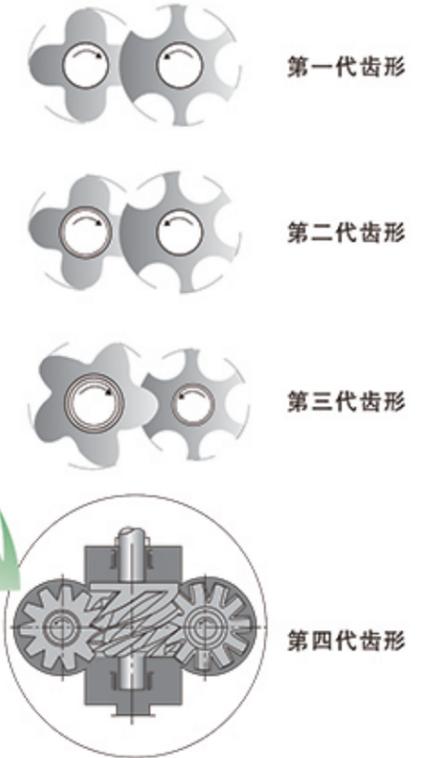
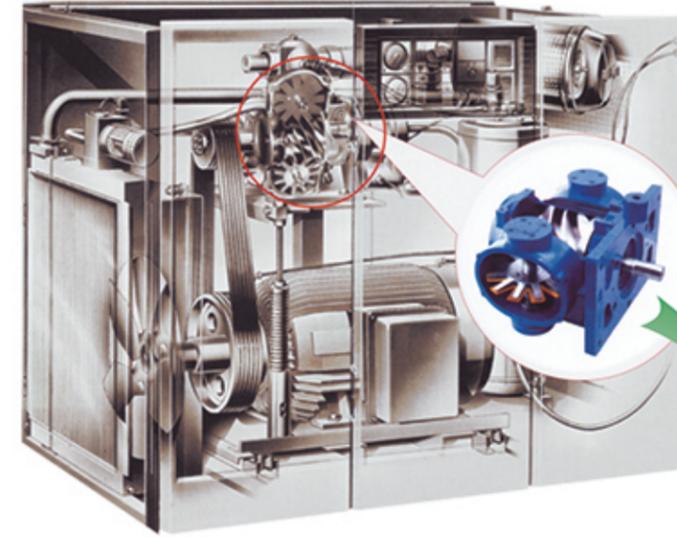
The first generation of single screw rotor in at 15 o'clock on September 29, 1976 End Patent No.: 87.2 155 18.8.



第一代单螺杆式压缩机
The generation list Luo pole compressor

Screw Air Compressor

齿形介绍 Chi form introduction



性能介绍 Function introduction

技术SR转子

每对SR转子使用目前世界上最先进CNC数控机床加工而成，该转子集精密、节能、耐磨损等优越性于一身。高精度的装配，提高了空压机整体的可靠性，运行稳定。

效率

施耐德日盛空压机专用SR转子能为您在能耗上节约可观的费用。由于采用单螺杆运转，将机器的摩擦表面减少到最小的限度，减少了额外的功耗。因使用卸荷器，实行伺服式自动气量调节，节能效果显著，在空载运行时，功耗减少60%以上。

服务

遍布世界各地的分销网络拥有一批训练有素的销售和服务工程师，他们能帮助您解答各种关于压缩空气动力系统的疑问。施耐德日盛亦能协助您进行管网系统设计规划及空压机、干燥机和过滤器等全套系统的配套。匹配您所需的压缩、储存、净化空气动力系统设备。

高效率性

螺杆压缩机能效高，原因是压缩的速度相当快和密封线改变它的容积，使它从高压到低压侧的气体泄露会更少。

Technical SR rotor

Each of the current SR rotor using the world's most advanced form of CNC machining precision so that the rotor sets, energy saving, wear-resistant advantages of both. High-precision assembly, improving the overall reliability of the air compressor, stable operation.

Efficiency

The highest cost of air compressor is its energy-consuming the energy cost may more than the cost of by long it, Schneider compressor will save more energy. since we adopt the single screw, which can reduce the surface vibration of the machine to a minimum, and reduce additional power, by using load release system. realizing serve automatic adjustment to air, we now save the power greatly. In case of running without load power consumption reduced 60%.

Service

Distribution net throughout the world with teams of skilled sales and client service engineers. They can help you and answer the questions about air compressor, Schneider can also assist you on system arrangement, including air compressor, dryer and filter etc.

High efficiency

Single screw compressor is more superior than double screw in theory and practice because both high speed compressing and capacity changed by sealant line make the machine release less air from the high compression side to the low compression side.

性能介绍

Function introduction

低震动

螺杆压缩结构属旋转型的压缩机，它不同于离心式或往复式的压缩运动方式。而它压缩排气的压力震动是非常小的，因为螺杆旋转时，回转压缩一周就发生6次。如压缩操作过程中放上一枚硬币也不会因震动跌落。

维修周期长

空气压缩过程无横向及径向推压负荷，螺杆轴承受力平衡，大大降低了轴承的磨损大大提高了其耐用寿命。

高可靠性

因为没有吸气阀和排气阀，所以它不同往复压缩机，从它的结构和此类压缩机所拥有的坚固程度来看，它的压缩结构是相当简单的。压缩机所有的支撑点是滚动(卷)型的，半密封的设计，淘汰了密封的设计，并且它保证了气体泄露时自由运转。

受力平衡

螺杆不受任何径向或轴向气体重力的作用，两个星轮啮合，使螺杆受力完全均衡，而无需特别的安装基础。

换油简单

所有的SRC系列空压机都具有标准的换油系统，该系统由油压阀、排油阀和排油软管组成，只需打开螺丝口即可换油。

单机容量大

螺杆每转一周，每一个螺槽均工作两次，通常有6个螺槽由两个星轮将各螺槽分隔成上下两个空间各自实现吸气压缩和排气过程。

Low vibration

Single screw structure belongs to revolving compressor and it is not the way of centrifugal compression or back and forth compression. The vibration is very low when compressor is working, even a coin on the top of machine will never fall down. This is because of six back compressions in each cycle.

Long maintenance period

The air compressing process has no axile and radial pressure, which can avoid the disadvantage of wear and tear like double screw air compressor axletree seal. It needn't often maintain. Reduce the durability is much higher than any other air compressor.

High reliability

single screw is different from back and forth compressor. Because there is no valves for absorption and ventilation and the structure of this kind of machine is simple. The support point of the compressor belongs to the rolling model. The half-sealed design is more superior than the full sealed one and ensures smooth working when air is leaking out.

Balance of support pressure

Air pressure from radial direction or axis direction has not any effect on screw, for two smooth gear wheels can make screw support pressure balanced. So machines have diploid effect. A gear wheel has eleven joggles, which means eleven pistons. The machine can work smoothly under high operation without any other base.

Oil change easily

Air compressor have standard oil changing system. The system is composed by oil pressure valve, oil release valve and oil release pipe. All these make oil change quick, complete, clean and time effective.

Great capacity

Two gear wheels separate the space of six screw troughs and finish compression and ventilation in two spaces when screw revolves one cycle. The effect of single screw is equal to one six-cylinders compressor and vent compression is Diploid.

单螺杆式空压机规格表

Single-screw air compressor introduced mainfame

机器型号 Model	SRC10A	SRC15A	SRC20A	SRC25A	SRC30A	SRC40A	SRC50A	SRC60A	SRC75A	SRC100A	SRC120A	SRC150A	SRC180A	SRC215A	SRC270A	SRC300A	SRC340A	SRC470A	SRC30W	SRC50W	SRC60W	SRC75W	SRC100W	SRC120W	SRC150W	SRC180W	SRC200W	SRC250W	SRC300W	SRC340W	SRC370W																																																																																																																				
冷却方式 Type of cooling	风冷 Air cooling																	水冷 Water cooling																																																																																																																																	
排气量/排气压力 Free Air delivery(La,d)/exhaust pressure(m ³ /min.Mpa ²)	1.1/0.7	1.6/0.7	2.4/0.7	3.1/0.7	3.6/0.7	4.9/0.7	6.0/0.7	7.5/0.7	10.5/0.7	13.5/0.7	15.5/0.7	20.5/0.7	24.0/0.7	27.0/0.7	36.5/0.7	40.5/0.7	45.0/0.7	60.0/0.7	3.6/0.7	6.2/0.7	7.5/0.7	10.5/0.7	13.5/0.7	17.5/0.7	20.5/0.7	24.0/0.7	27.0/0.7	36.5/0.7	40.0/0.7	45.0/0.7	60.0/0.7																																																																																																																				
供气温度(℃) Air admission temperature	≤环境温度 + 40℃																																																																																																																																																		
功率(KW/HP) Power	11/15	11/15	15/20	18.5/25	22/30	30/40	37/50	45/60	55/75	75/100	90/120	110/150	132/180	160/215	200/270	220/300	250/340	355/485	22/30	37/50	45/60	55/75	75/100	90/120	110/150	132/180	160/215	200/270	220/270	250/270	355/485																																																																																																																				
转速(r/min) Speed	1480																	2970																																																																																																																																	
启动方式 Starting way	直接启动																	Y-Δ启动																																																																																																																																	
电压(V) Voltage	380/50Hz																	600V~1000V										380/50Hz										600V~1000V																																																																																																													
传动方式 Drive	皮带传动			皮带传动或联轴器传动														联轴器传动										皮带传动或联轴器传动										联轴器传动																																																																																																													
供气含油量(PPM) Air admission oil content	≤3																																																																																																																																																		
接管口径(inch) Scape-pipe	3/4"			1"														1 1/2"										2"										2 1/2"										DN100										DN150																																																																																									
冷却风扇功率(W) Power of cooling fan	370x1			550x1 750x1 1100x1 1500x1														550x2 1100x2 1500x2 1800x2 2200x2 3000x4 3500x4										3500x6																																																																																																																							
外形尺寸(长x宽x高) Overall Size	800x1000x1500			1370x950x1427 自联外置 840x1000x1680 皮带														1570x1284x1416 自联外置 840x1000x1680 皮带										2000x1250x1600										2300x1600x2000										3100x2250x2400										4550x2500x2554										1680x900x1250										1800x1100x1350										2040x1310x1600										2200x1600x1900										2600x1950x1900										2930x2150x2150										3100x2150x2150										4550x2500x2554									
重量(kg) weight	500	540	570	800	820	950	10500	1250	1530	2000	2600	2900	3600	4200	4450	5050	8800	820	1050	1250	1400	1550	2250	2280	2600	2800	3700	4280	4900	8800																																																																																																																					
噪音[dB(A)] Noise	58	60	62	65	68	70	72	73	75	77	78	80	82	84	88	66	70	71	73	75	76	78	80	82	84																																																																																																																										
冷却水量(m ³ /h) Measure of cooling water																		1										1.5										1.8										2.5										3.0										4										5.4										5.8										6.5										8.8										9.6										11										30.5									

SRG高原专用空气压缩机

The air compressor of the plateau appropriation



型号 Model	SRG10A	SRG15A	SRG20A	SRG25A	SRG30A	SRG50A	SRG60A	SRG75A	SRG100A	SRG120A	SRG150A				
排气量/排气压力 Free Air delivery(La,d)/exhaust pressure(m ³ /min.Mpa ²)	1.1/0.7	1.6/0.7	2.4/0.7	3.1/0.7	3.6/0.7	6.2/0.7	7.3/0.7	10.0/0.7	12.0/0.7	15.5/0.7	20.5/0.7				
供气温度(℃) Air admission temperature	≤环境温度 + 15℃														
功率(KW/HP) Power	7.5/10	11/15	15/20	18.5/25	22/30	37/50	45/60	55/75	75/100	90/120	110/150				
转速(r/min) Speed	1480					2970									
启动方式 Starting way	直接启动					Y-Δ启动									
电压(V) Voltage	380														
传动方式 Drive	皮带传动						联轴器传动								
供气含油量(PPM) Air admission oil content	≤3														
接管口径(inch) Scape-pipe	3/4"			1"			1 1/2"			2"		2 1/2"			
冷却风扇功率(W) Power of cooling fan	80x1	120x1	200x1	550x1	750x1	750x1	110x1	550x2	750x2	1100x2	1500x2				
外形尺寸(长x宽x高) Overall Size	800x1000x1500			840x1000x1680			1000x1200x1700			1000x1600x1800		1250x1600x2000		1600x2000x2300	
重量(kg) weight	500	540	570	800	820	980	1050	1250	1530	2600					
噪音[dB(A)] Noise	58~64					66~75			75~78						

移动式螺杆空气压缩机

Move the type Luo pole air compressor



空压机型号	额定排气压力 MPa	公称容积流量 M ³ /min	电动机型号	电动机转速 rpm	电动机功率 kw	比功率 Kw/m ³ /min	噪声声功率级 dB(A)	外形尺寸(mm) 长度×宽度×高度	重量 kg
MLGF40/7.5-250G	7.5	40	YBK2-355S-2	2965	250	6.8	118	4000×1250×2116	4650
MLGF17/7.5-90G	7.5	17	YBK2-280M-4	1485	90	6.4	116	3500×1200×1930	4000
MLGF10/10-75G	10	10	YBK2-280S-4	1485	75	8.1	114	3500×1200×1676	3500

空压机型号	压力容器型号	电压 V	电流 A	服务系统 rpm	电磁启动器型号	电缆线型号
MLGF40/7.5-250G	01J 2006-76	660/1140	255.9/147.7	SF1.15	QJRC-400 矿用压缩机用 隔爆兼本按型 软启动器	主电缆 MYP-0.66/1.14kv 3x70mm ² +1X25mm ² 控制电缆 MYP-0.3/0.5kv 3X1.5mm ²
MLGF17/7.5-90G	01J 2005-24	660/1140	92.4/53.3	SF1.15		
MLGF10/10-75G	01J 2005-24	660/1140	77.3/44.6	SF1.15		

原装进口零部件

Water cooling type specification



原装进口轴承



施耐德日盛转子



进口监控器



电子阀



容调阀



进气阀



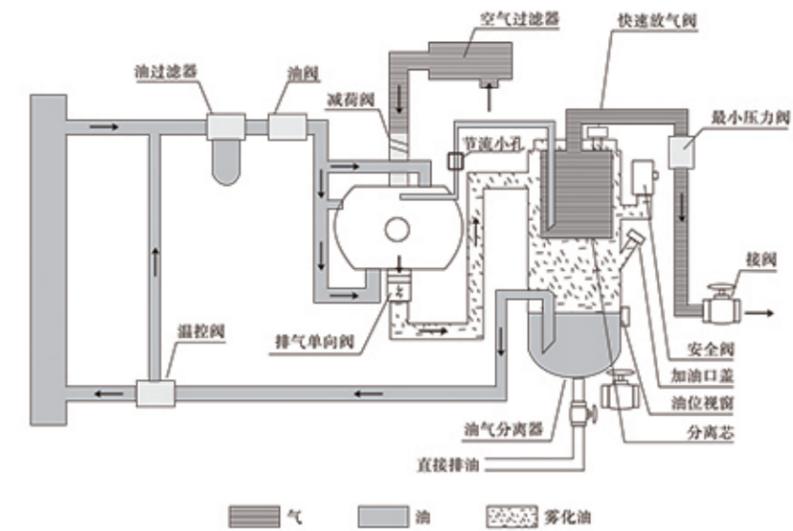
空气滤芯



油过滤器

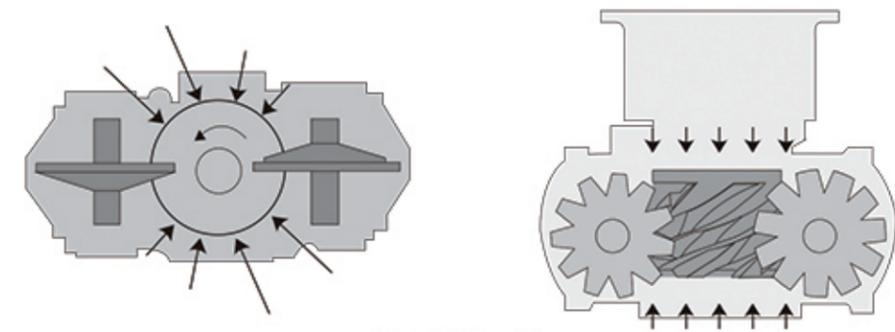
气路油路系统流程图

Single screw air compressor



受力分析图

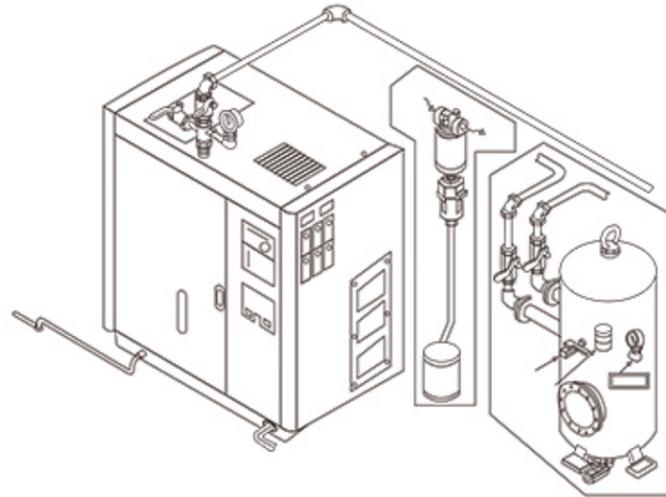
compressor



主机受力趋于平衡

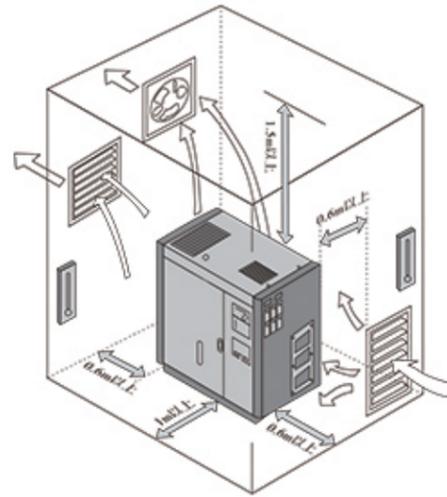
配管示意图

Single screw air compressor



环境设置示意图

Single screw air compressor



Precision Filter 精密过滤器

等级	 Q级 精密过滤器	 P级 精密过滤器	 S级 精密过滤器	 C级 精密过滤器													
适用范围	一般往复式空压机前置过滤	一般螺旋式空压机前置过滤	一般空气压缩机后置过滤	高精度过滤专用													
材质	陶质滤芯	多层玻璃纤维滤芯	多层玻璃纤维滤芯	活性炭滤芯													
过滤杂质	3um	0.5um	0.01um	0.01um													
滤油含量	3PPM	0.5PPM	0.01PPM	0.003PPM													
最高温度	65℃	65℃	65℃	65℃													
一般压差	0.2kg/cm ²	0.17kg/cm ²	0.275kg/cm ²	0.07kg/cm ²													
最大压差	0.5Micron	0.7Micron	0.7Micron	0.7Micron													
功能	将压缩空气内大量的油气滤除到 3PPM 以内及滤除杂质颗粒至 3um	将压缩空气内大量的油气滤除到0.5PPM以内及滤除杂质颗粒至 0.5um	将压缩空气中的微量油气精密滤除至0.01PPM以内同时空气中杂质颗粒至0.01Micron, 达到无油标准的高品质压缩空气。	将一般用于滤除压缩空气中的臭气、非微细的油气及超微颗粒。													
型号 (SAF-)	004	007	015	024	035	060	090	120	150	240	360	450	600	900	1200	1500	1800
口径	3/4"	3/4"	3/4"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	3"	5"	6"	8"	8"	8"	8"	10"
在7kg/cm ² 一般流量 (Nm ³ /min)	0.4	0.7	1.5	2.4	3.5	6	9	12	15.1	24	36	45	60	90	120	150	180
最大压力(kg)	16	16	16	16	16	16	16	16	16	12	12	12	10	10	10	10	10
重量(kg)	1.1	1.1	1.1	2.2	2.2	2.7	4.25	6	6	28.5	137	141	184	213	248	317	465

Q级精过滤器

Q class fine filter

特点:

支撑螺丝;保持滤芯稳定不受震荡;多层玻璃纤维及完全过滤 $\geq 3\mu\text{m}$ 的固态粒子及液体微粒,并具有减低降功能;多孔式外部圆筒过滤后的空气由此迅速流至过滤器出口;内、外滤芯皆防腐蚀。油雾剩余含量3PPm。

应用范围:

气动工具、马达、气缸的前置过滤;更精密过滤器的前置过滤;吸附式干燥机的前、后置过滤;保护自动控制系统。

P级高效精过滤器

P class high efficiency filter fine

特点:

支撑螺丝,保持滤芯稳定不受震荡;内部弹性海绵具有前置过滤功能;超细玻璃纤维特殊设计的密度、直径及表面处理可过滤 0.5um 的固态粒子及液态微粒;外部海绵层吸收并排出油雾;内、外滤芯皆防腐蚀;油雾剩余含量 0.5PPm。

应用范围:

对使用有油式空压机如精密仪器、喷漆、食品和药物包装及电子制造业提供无油的压缩空气;前置或后置过滤。

S级高效超精过滤器

S class efficient ultra-precision filters

特点:

内外滤芯皆防腐蚀;涂膜封闭式海绵套筒进行预过滤和气流分散;多层矩阵复合玻璃纤维特殊设计的密度,可过滤0.01um的固态粒子及液态微粒;油雾剩余含量0.003PPm。

应用范围:

关键应用场合的无油空气供应,气接触产品的场合;空气相关产品、传输、搅拌、电子元件制造、氮替换;前置或后置过滤。

C级活性炭除臭过滤器

C class deodorant activated carbon filters

特点:

内外滤芯皆防腐蚀;极精细活性炭粉稳定层滤除绝大部分油蒸气;特殊设计复合纤维介质粘合微活性炭粉,滤除0.01um的固态粒子及液态微粒;复合纤维层防止活性炭微粒位移,外涂膜封闭式海绵网筒防止纤维游移;在额定运行条件下,设计寿命达2000小时;油雾剩余含量0.003PPm。

应用范围:

食品、饮料、医药、医院及药物工厂;呼吸用空气;潜水保证作业;活性炭过滤,用于工作环境除菌除臭。

SAYM系列高效除油器

SAYM series of highly efficient oil removal

该系列产品是以超细纤维为主体滤材,采用旋流分离,预过滤器和凝聚式精滤三级净化,与有油润滑压缩机配套使用时,可获得低于无油润滑压缩机含油量的气质水平,而且具有相当高的除尘能力及一定的脱湿干燥能力。广泛用于气动仪表、自动控制及食品、医药、化工、轻纺、石油、喷漆、电讯、冶金、橡胶等行业。

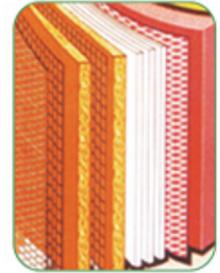
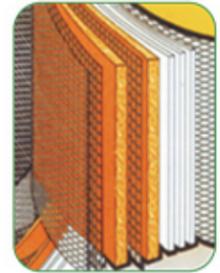
进气压力: 0.6~1.0MPa

进气温度: 0℃~50℃

初始压降: $\leq 0.02\text{MPa}$

出口气体含油量: $\leq 0.1\text{PPM}-0.01\text{PPM}$

空气处理量 (Nm³/min): 1.2~200





Dryers compressor

冷冻式压缩空气干燥机

冷冻式压缩空气干燥机是奥玛透平公司在传统的冷冻式空气干燥机制造技术基础上采用高新技术，研究开发的新型冷冻式压缩空气干燥机，“Omar Turpin”冷冻式压缩空气干燥机严格按ISO9001认证体系标准制造，处理空气符合国际标准组织ISO对压缩空气制定的品质标准(8573.1)。

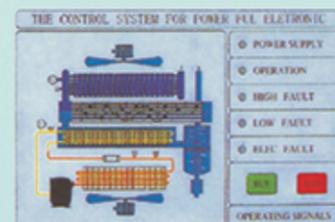
实践证明干燥空气是所有工业生产所必需的。空气在其自然状态下含有油、灰尘和水气。当空气被压缩时，此物质会产生潜在危害。通常人们用高效的过滤器除去油或灰尘等杂质，但滤不掉气态的水，它会与压缩空气混合在一起流向压缩空气系统的下游。从而会导致系统腐蚀，管道、控制装置及机械内形成渣质沉积，产品污染。最终造成设备维修的巨大花费，增加生产成本，直接影响企业经济效益。

根据空气冷冻干燥原理，利用制冷设备将压缩空气冷却到一定的露点温度后析出相应所含的水份，并通过分离器进行气液分离，再由自动排水器将水排出，从而使压缩空气获得干燥。

Freeze-compressed air dryer is Omar Turpin malpractice companies in the traditional refrigerated air dryer manufacturing technology based on the use of high technology, research and development of new frozen-compressed air dryer, "Omar Turpin" freeze-compressed air dryer in strict accordance with the ISO9001 certification system superscript pushed manufacture, handling air with the International Standards Organization ISO quality standards developed by compressed air (8573.1).

Practice has proved that all the dry air is necessary for industrial production. Air in its natural state contains oil, dust and water vapor. When air is compressed, this substance will have potential hazards. Usually people use highly efficient filter to remove impurities, such as dust or oil, but the gas can not filter water, and it will be mixed with compressed air flows downstream compressed air system. Thus system will lead to corrosion, plumbing, and mechanical control devices within the formation of slag deposition, product contamination. Ultimately equipment maintenance caused the enormous cost and increase the cost of production, a direct impact on the economic efficiency of enterprises.

Thousands of dry air chilled principle, refrigeration equipment will be used to a certain compressed air cooling after the dew point temperature of the water contained in the corresponding precipitation, and a gas-liquid separator through separation, and then from automatic drainage of water discharged, so that compressed air access to dry.



智能监控系统面板：配备多方位系统保护，高度灵敏检查干燥机各主要性能。全功能严格管理运行，保障功能稳定性。

Intelligent Monitoring System panel: equipped with multi-directional system protection, highly sensitive surveillance of the Main dryer performance. Full-featured rigorous management operation, the support functions stability.

SSD风冷式冷冻干燥机规格

SSD air-cooled specifications for freeze-drying machine

机型 Models	SSD-7.5AA	SSD-10AA	SSD-15AA	SSD-20AA	SSD-30AA	SSD-50AA	SSD-75AA	SSD-100AA	SSD-150AA	SSD-200AA	
处理风量 processing wind volume	1.0	1.5	2.0	2.5	3.8	6.5	9.2	13.5	20	25	
使用条件极限 the maximum conditions for use	A、入口温度80℃			B、周围温度40℃			C、空气压力10Kg/cm ³ (超压力接受特殊订制)				
压力露点 pressure dew-point	1.7~5℃ (其大气压露点相当-25℃)										
冷媒 refrigerant	R12			R22							
冷媒压缩机马达 compressor	1/4 HP	1/3 HP	1/2 HP	3/4 HP	1 HP	1 1/2 HP	2HP	3 HP	4 HP	5 HP	
电源 power supply	AC1 φ 220V 50/60Hz							AC3 φ 380V 50/60Hz			
空气出入管径 air tubing entry & exit diameters	3/4"	1"	1 1/4"	1 1/2"	1 1/2"	2"	2 1/2"	3"	3"	4"	
外形尺寸 over size	高度 H	665	830	920	920	920	1000	1188	1178	1280	1365
	宽度 W	380	450	450	500	550	645	700	800	650	680
	深度 D	600	720	850	850	940	1080	1210	1430	1500	1620
净重 Kg	51	68	68	90	120	123	198	238	340	400	

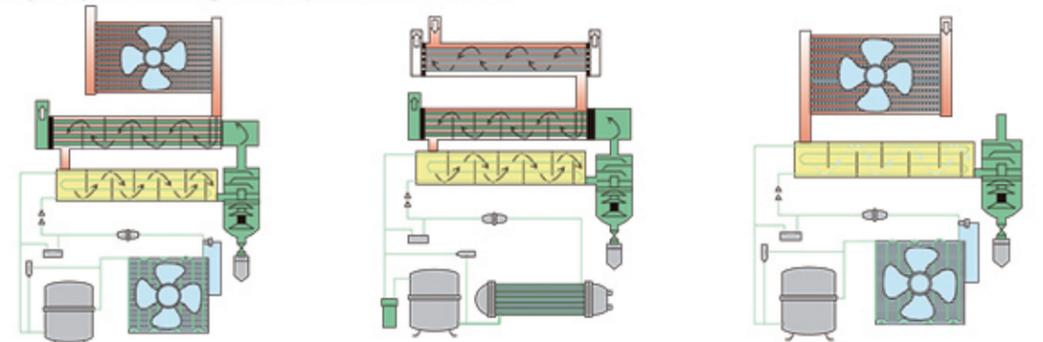
SSD水冷式冷冻干燥机规格

SSD water-cooled specifications for freeze-drying machine

机型 Models	SSD-300	SSD-400	SSD-500	SSD-600	SSD-700	SSD-1000	SSD-1500	SSD-2000	SSD-2500	SSD-3000	
处理风量 processing wind volume	35	45	55	65	75	100	150	200	260	340	
使用条件极限 the maximum conditions for use	A、入口温度80℃			B、周围温度40℃			C、空气压力10Kg/cm ³ (超压力接受特殊订制)				
压力露点 pressure dew-point	1.7~5℃ (其大气压露点相当-25℃)										
冷媒 refrigerant	R22										
冷媒压缩机马达 compressor	7 1/2 HP	8 HP	10HP	12 1/2HP	15HP	20HP	30HP	40HP	44HP	50HP	
电源 power supply	AC3 φ 380V 50/60Hz										
空气出入管径 Air tubing entry & exit diameters	4"	5"	5"	6"	6"	8"	8"	10"	12"	16"	
冷却水管径 Water cooling pipe diameters	1 1/2"			2"			2 1/2"		4"		
冷却水量 Water cooling volume L/min	112	150	180	225	300	375	525	750	900	1050	
冷却器 T/R Wcondenser	9	12	15	17	22	27	37	52	64	74	
冷却水塔 T/R Wcondenser Tower	10	15	20	20	25	30	50	60	70	80	
外形尺寸 over size	高度 H	1300	1400	1400	1550	1600	1800	2000	2300	2600	2800
	宽度 W	950	1100	1100	1250	1250	1300	1600	1800	2300	2500
	深度 D	1550	1800	1800	2000	2000	2000	2300	2400	2700	2900
净重 Kg	480	750	750	950	1200	1500	1800	2100	2600	3200	

冷冻式干燥机系统流程配置原理图

Freeze dryer system configuration process schematic



选型容易 (水冷、风冷) 俱全、适合各种品牌

- 空压机的流量、压力; The flow of air compressors, pressure;
- 高效率的热交换器和蒸发器; A highly efficient heat exchanger and evaporator;
- 智能监控, 保护系统; Intelligent monitoring, protection systems;
- 露点温度稳定适合各种使用条件; Dew point temperature stability for the various conditions of use;
- 压缩机制冷零部件采用世界名牌产品; World refrigeration compressor parts used brand-name products;
- 工作压力可供选择接受特殊订制。 Work pressure to choose to accept special order.

Dryers compressor

吸附式干燥机



在许多应用实验上，压缩空气中的水份，往往是造成高成本的主要原因，为解决因压缩空气中水份所造成的损失，如停机或系统损坏，维修成本的提升，不良品的产生等，就必须使用净化的压缩空气。而本公司产制的无热型吸附式干燥机能彻底解决压缩空气中水份所造成的困扰；提供您达-40℃的压力中露点，除去压缩空气中的水份，以适应任何场合的需求。

In many applications experiment, the compressed air moisture, the cost is often caused the main reason for compressed air to address the losses caused by moisture, such as downtime or system damage, the upgrade maintenance costs, adverse selection of goods and so, we must use the compressed air purification. While the company's production system without heat adsorption compressed air drying completely solve the problem caused by the water in distress; provide you up to a 40 °C in the pressure dew point, except for compressed air moisture to meet any field station demand.

吸附式干燥机工作原理

Adsorption dryer work principle

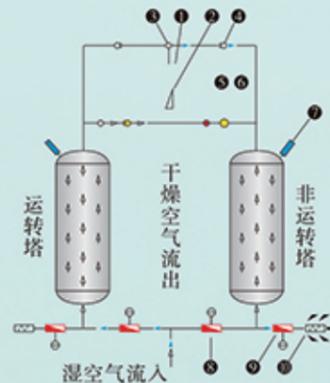
空压机大量的空气，由入口管径流入时，通过空气控制阀：进入两个干燥塔中一个的底端，当空气流到塔顶时，其中的湿气会被氧化铝干燥剂所吸干。如此就能使空压机排出的空气露点温度降低到-40℃；而达到了除湿的效果。整个系统需10分钟。而整个循环系统如下：当一个塔在除湿或运作达5分钟时，同时另一个塔则再生且净化只需4.5分钟，续压只需30秒，这样两塔交互运作如此重复。机器运转时再生风量12%。优越的设计，节省了保养成本。

A large number of air compressor from the inflow of imported diameter, through air control valve: the two entered a drying tower in the bottom, when the air flow to the tower, one of the Humidity will be by suction alumina desiccant stem. So, it will enable the discharge of the air compressor dew point temperature dropped to -40°C, and reached a dehumidification effect. The entire system takes 10 minutes. The entire circulatory system is as follows: When a tower in the desiccant or operation of five minutes, while the other tower is renewable and clean only 4.5 minutes, continued pressure only 30 seconds, so the two towers interactive operation of such duplication. When the machine was operating renewable wind of 12 percent. Superior design, saving maintenance costs.

吸附式干燥机配置原理图

Adsorption dryer configuration schematics

- | | |
|-----------|---|
| ① 连接阀 | Conjunction valve |
| ② 再生风量调节阀 | The rebirth amount of breeze regulate valve |
| ③ 再生风量压力表 | Rebirth breeze quantity manometer |
| ④ 逆止阀 | Negative valve |
| ⑤ 逆止阀 | Negative valve |
| ⑥ 塔压力表 | Tower manometer |
| ⑦ 安全排放阀 | Safety emissions valve |
| ⑧ 电磁阀 | Electromagnetism valve |
| ⑨ 电磁阀 | Electromagnetism valve |
| ⑩ 消音器 | Muffler |



高效率热交换器

High-efficiency heat exchanger

- 采用高强度加厚铜管，并以高含银量焊条以无氧方式焊接；寿命长，热效率高。
- 采用无氧焊接法，系统无杂质，常保持系统清洁。全系列采用机械胀管方式制造铜管与鳍片紧密结合，热传阻抗小，热效率高。
- 盘管经声波洗净，绝无残留油脂。鳍片不易卡灰尘，焊接不发生碳化。
- 采用无氧焊接法确保系统清洁度。
- The adoption Gao strength thicken a copper tube, and with Contain silver quantity many quantity Han with have no the oxygen way weld;The life span is long, hot spread an efficiency Gao.
- The adoption has no oxygen to weld a method, system have no miscellaneous quality, often keep system to sweep.The whole series adoption machine bulge tube way manufacturing copper tube is close knot set with fin slice, hot spread resistance small, hot spread an efficiency Gao.
- The dish tube is wash sound wave clearly by and in no way remain a grease.Fin slice not easy card dust, weld not occurrence carbonization.
- The adoption has no oxygen to weld a method to insure a system cleanness.

吸附式干燥机规格

Specification

型号 Models		5RD	10RD	20RD	30RD	50RD	75RD	100RD	150RD	200RD	250RD	300RD	400RD	500RD	600RD	700RD
处理空气量 Processing empty Tolerance	Nm ³ /min	0.8	1.35	2.6	3.6	6.9	10.7	14.4	21.4	28.4	34.5	42.7	59.5	70.8	79.3	106.2
	SCFM	28	47	91	127	243	377	508	755	1006	1207	1507	2106	2506	2807	3759
适用空压机 Apply empty Press machine		5	10	20	30	50	75	100	150	200	250	300	400	500	600	750
空气出入口管径 air tubing entry & exit diameters		1/2"	3/4"	1"	1"	1 1/2"	1 1/2"	2"	2"	3"	3"	4"	4"	5"	5"	6"
外形尺寸 over size	长度 H	60	94	102	107	112	117	122	122	180	180	204	234	234	244	296
	宽度 W	40	50	60	60	70	70	70	70	80	80	80	90	90	95	100
	高度 D	186	178	191	186	214	214	212	240	225	255	243	228	253	253	268
重量 kg		90	120	190	247	420	429	569	804	1025	1218	1413	2040	2405	2658	3550

最大使用条件：A.入口温度40℃ B.空气压力10kg/cm²；再生风量12%；循环时间 5分钟；再生时间4.5分钟；续压时间0.5分钟；露点温度大气压力 -40℃；电源10φ220V 50Hz/60Hz。

The biggest usage condition:A. Entrance temperature 40 °C.B.The air pressure 10 kg/cm²;Rebirth breeze quantity 12%;Circulation time be 5 minutes;Time of rebirth is 4.5 minutes; Continuous press time for 0.5 minutes;The atmospheric pressure - of the dewdrop temperature 40 °C;The power supply is 10 φ220 V 50 Hz/60 Hz.

Dryers compressor

SAD-600型组合式压缩空气干燥机

处理空气量：79.3 Nm³/min
工作压力：7Kg/cm²(MAX 10kg/cm²)
压缩机马力数：15HP
空气出入口管径：6"
电源：3φ200V / 3φ~380V
冷却水量：225L/rain
外型尺寸：280x140x180(cm)
Processing air quantity:79.3 Nm³/min
Work pressure:7 Kg/cm²(the MAX 10 kg/cm²)
Compressor horsepower number:15HP
The air exit and entrance tube path:6"
Power supply:3 φ200V / 3 φ~380V
Cool off water quantity:225 L/rain
Features size:280x140x180(cm)

Dryers compressor

SAD-1200型组合式压缩空气干燥机

处理空气量：169.7 Nm³/min
工作压力：7Kg/cm²(MAX 10kg/cm²)
压缩机马力数：30HP
空气出入口管径：8"
电源：3φ200V / 3φ~380V
冷却水量：450L/rain
外型尺寸：350x170x225(cm)
Processing air quantity:169.7 Nm³/min
Work pressure:7 Kg/cm²(the MAX 10 kg/cm²)
Compressor horsepower number:30HP
The air exit and entrance tube path:8"
Power supply:3 φ200V / 3 φ~380V
Cool off water quantity:450 L/rain
Features size:350x170x225(cm)

