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Tianer 天尔

产品手册

PRODUCT MANUALS

Tianer 天尔

盐城天尔机械有限公司

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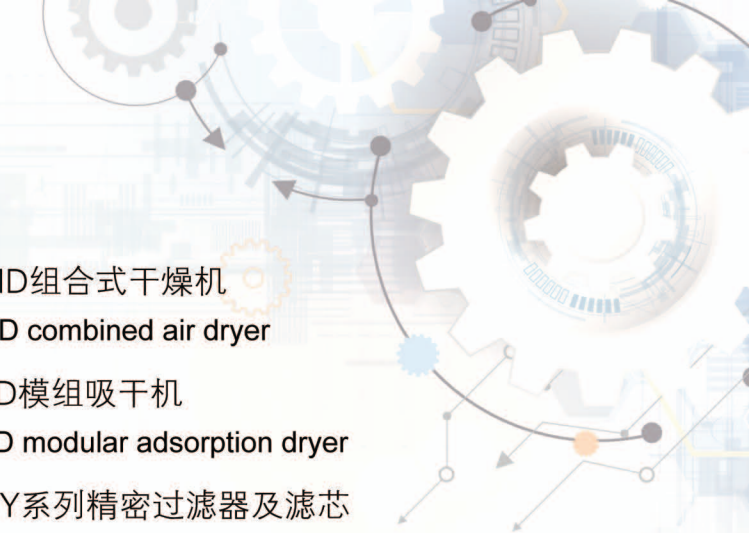
YANCHENG TIANER MACHINERY CO.,LTD.



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- SMD组合式干燥机  
SMD combined air dryer
- SPD模组吸干机  
SPD modular adsorption dryer
- SOY系列精密过滤器及滤芯  
SOY series precision air filter
- TRF系列精密过滤器  
TRF precision filter
- TRF系列法兰精密过滤器  
TRF series flange precision filter
- TRSF不锈钢精密过滤器  
TRSF series stainless steel precision filter
- TRHF碳钢高压精密过滤器  
TRHF series carbon steel high pressure precision filter
- SQS高效旋风气水分离器  
SQS high-efficiency cyclone air-water separator
- 配件类  
Accessories
- 压缩空气相关资料  
Common data of compressed air purification equipment





## COMPANY PROFILE

### 公司简介

盐城天尔机械有限公司成立于2004年，位于麋鹿之乡江苏省盐城市大丰区城南经济开发区，现有员工60余名，其中专业技术人员和研发人员20余名。是一家专注于空压机及压缩空气后处理设备的研发、生产和销售的企业。目前公司生产冷干机、吸干机、组合机以及精密过滤器、高效除油器、无油静音空压机等系列配套产品数百个型号，覆盖各行业用户对压缩空气的需求。

天尔机械始终坚持走“高效、稳定、环保、节能”的绿色发展道路，近年来研发出不锈钢环保板换系列干燥机、智能型冷干机控制器、变频冷干机控制器、铝合金三合一板换冷干机，变频冷干机等高效节能产品，并成功走上市场，远销北美，澳大利亚，俄罗斯，印度，西班牙，新加坡，韩国，越南、菲律宾等国家和地区。

公司长期为多家上市企业、军工企业、世界知名跨国企业提供完善的配套服务，得到客户的一致认可，并荣获“盐城市科技创新奖”、“工程技术研究中心”、“高新技术企业”等称号。

2018年底，公司通过了国家高新技术企业的认定，获得高新技术企业证书，并通过GB/T19001-2016/ISO9001:2015质量体系认证。

天尔人将秉承“天高地厚、尔诚我信，关爱有加、至优至明”的核心价值观理念，与您携手双赢，共创辉煌。

Yancheng Tianer Machinery Co., Ltd. was established in 2004. It is located in Chengnan Economic Development Zone, Dafeng District, Yancheng City, Jiangsu Province. It has more than 60 employees, including more than 20 professional technicians and R&D personnel. It is an enterprise focusing on the research and development, production and sales of air compressors and compressed air after-treatment equipment. At present, the company produces hundreds of models of supporting products such as refrigerated air dryers, adsorption air dryers, combined machines, precision filters, high-efficiency degreasers, and oil-free silent air compressors, covering the needs of users in various industries for compressed air.

Tianer Machinery has always adhered to the green development path of "high efficiency, stability, environmental protection, and energy saving". In recent years, we have developed high-efficiency and energy-saving products such as stainless steel environmental protection plate replacement series dryers, intelligent air dryer controllers, inverter refrigeration dryer controller, aluminum alloy three-in-one plate replacement air dryers, and frequency conversion air dryers which have successfully entered the market and are exported to North America, Australia, Russia, India, Spain, Singapore, South Korea, Vietnam, the Philippines and other countries and regions.

The company has provided comprehensive supporting services for many listed companies, military enterprises, and world-renowned multinational companies for a long time, and has been unanimously recognized by customers, and has won the "Yancheng Science and Technology Innovation Award", "Engineering Technology Research Center", "High-tech Enterprise" and so on title.

At the end of 2018, the company passed the national high-tech enterprise certification, obtained the high-tech enterprise certificate, and passed the GB/T19001-2016/ISO9001:2015 quality system certification.

The people in Tianer will adhere to the core value concept of "Credibility and integrity, high as heaven, deep as earth, care and love, excellent and bright", and Work with you for a win-win situation and create brilliance together.

# 我们的十年历程

HISTORY  
OUR DECADE  
企业发展历程 >>>  
DEVELOPMENT HISTORY

## 2004年

2004年公司成立，主打成品活塞式空压机

The company was established in 2004, focusing on finished piston air compressors.



## 2014年

2014年企业转型，将主打产品由活塞式空压机转为冷冻式干燥机以及其他后处理产品

In 2014, the enterprise transformed, and the main products were changed from piston air compressors to refrigerated air dryers and other post-processing products



## 2016年

2016年引进行业专家和先进技术，立项并投入研发环保板换冷干机

In 2016, industry experts and advanced technology were introduced, and the project was established and invested in the research and development of environmental protection board for air dryer.



## 2017年

2017年新型环保板换不锈钢冷干机和铝合金环保板换冷干机先后成功走上市场，同步研发并使用智能型冷干机控制器

In 2017, the new environmental protection plate replacement stainless steel air dryer and aluminum alloy environmental protection board replacement air dryer have successfully entered the market, and the intelligent air dryer controller has been developed and used simultaneously.



## 2018年

2018年公司通过了国家高新技术企业的认定，获得高新技术企业证书，并通过GB/T19001-2016/ISO9001:2015质量体系认证，同年正式成立外贸部门，并成功打开国际市场

In 2018, the company passed the national high-tech enterprise certification, obtained the high-tech enterprise certificate, and passed the GB/T19001-2016/ISO9001:2015 quality system certification. In the same year, the foreign trade department was officially established and successfully opened the international market

## 2019年

2019年立项并投入研发变频冷干机控制器以及变频冷干机

In 2019, the project was established and invested in the research and development of frequency conversion air dryer controller and frequency conversion air dryer.

## 2020年

2020年激光切割机专用冷干机成功取得一定的市场份额

In 2020, the special air dryer for laser cutting machine will successfully obtain a certain market share.

## 2021年

2021年占地6000余平米年产50000台冷干机的现代化智能生产工厂投入使用

In 2021, a modern intelligent production plant covering an area of more than 6,000 square meters with an annual output of 50,000 air dryers will be put into use.

2021年参与起草《激光切割机用压缩空气冷冻式干燥器》团体标准。于2022年9月发布并实施，标准编号：T/JSJXXH 010-2022。

In 2021, participated in the drafting of the group standard "Compressed Air Dryer for Laser Cutting Machine". Published and implemented in September 2022, standard number: T/JSJXXH 010-2022.

## 2022年

2022年变频板换冷干机控制器以及变频冷干机主要部件通过连续两年的高强度连续运行测试

In 2022, the frequency conversion board will replace the controller of the refrigerated air dryer and the main components of the frequency conversion refrigeration dryer will pass the high-intensity continuous operation test for two consecutive years.

## 2023年

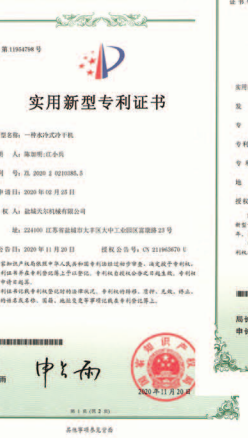
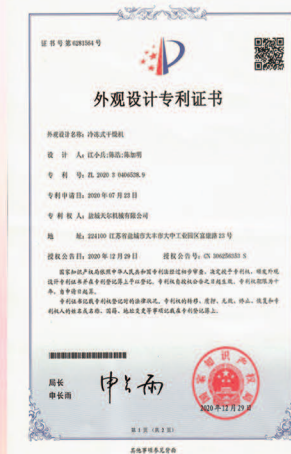
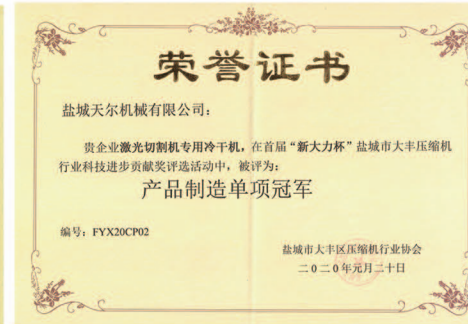
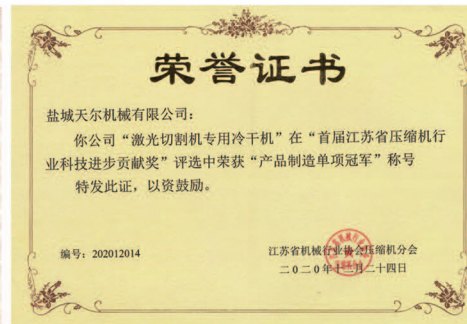
2023年变频冷干机正式投入量产

In 2023, the frequency conversion refrigerated air dryer will be officially put into mass production.

# COMPANY

## INTRODUCTION

### 公司荣誉



## TR系列

### 环保板换冷干机 (TR01~TR12)

**节能:** 铝合金三合一换热器设计, 加大的预冷回温器设计, 将制冷量的工艺损耗将至最低, 提高了冷量的回收利用, 同时提高压缩空气的出气温度, 有效减少成品气含水量。

**高效:** 一体式的换热器内部加入了导流鳍片, 使压缩空气在内部均匀换热, 内置气水分离装置加设不锈钢滤网, 水分分离更彻底。

**智能:** 多路温度和压力监控, 实时显示露点温度, 自动记录累计运行时间, 具备自我诊断功能, 显示相应的告警代码, 自动对设备进行保护。

**环保:** 响应国际蒙特利尔协议, 该系列机型全部采用R134a和R410a环保冷媒, 对大气层的破坏程度为零, 适应国际市场需求。

**稳定:** 标配恒压式膨胀阀, 对制冷量自动调节, 适应各种复杂工况, 具备温度压力双重防冻保护。节能的同时, 延长设备使用寿命。

**可选配物联网组件, 通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**

TR系列冷冻式干燥机 TR series refrigerated Air dryer	型号 Model	TR-01	TR-02	TR-03	TR-06	TR-08	TR-10	TR-12
最大处理量 Max. air volume	m <sup>3</sup> /min	1.2	2.4	3.6	6.5	8.5	10.5	13
电源 Power supply		220V/50Hz						
输入功率 Input power	KW	0.35	0.53	0.765	1.279	1.619	1.969	2.5
空气管路连接 Air pipe connection		RC3/4"		RC1"	RC1-1/2"	RC2"		
蒸发器型式 Evaporator type		铝合金板式Aluminum alloy plate						
冷却方式 Cooling type		风冷、管翅式Air-cooled, tube-fin type						
制冷剂型号 Refrigerant type		R134a			R410A			
<b>智能控制与保护 Intelligent control and protection</b>								
显示界面 Display interface		LED露点温度显示, LED告警代码显示, 运行状态指示 LED dew point temperature display, LED alarm code display, running status indication						
防冻保护 Anti-freezing protection		恒压式膨胀阀Constant pressure expansion valve						
温度控制 Temperature control		冷凝温度/露点温度自动控制Condensing temperature/dew point temperature automatic control						
高压保护 High voltage protection		温度传感器Temperature Sensor	温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection					
低压保护 Low voltage protection		温度传感器&感压式智能防护Temperature Sensor & Pressure Sensitive Intelligent Protection						
远程联接 Remote control		-						
整机重量 Total Weight	KG	30	39	55	72	88	100	104
整机尺寸 Dimension	L*W*H	480*380*665	520*410*725	640*520*850	700*540*950	770*590*990	770*590*990	800*610*1030



## TR

### Series Refrigerated air Dryer (TR01~TR12)

**Energy saving:** The aluminum alloy three-in-one heat exchanger design, the enlarged pre-cooling and regenerator design, minimize the process loss of cooling capacity, improve the recycling of cooling capacity, and increase the outlet temperature of compressed air at the same time, effectively reducing product gas moisture content.

**Efficient:** The integrated heat exchanger is equipped with deflector fins to make the compressed air uniform inside heat exchange, built-in air-water separation device and stainless steel filter, water separation is more thorough.

**Intelligent:** Multi-channel temperature and pressure monitoring, real-time display of dew point temperature, automatic recording of accumulated running time, It has self-diagnosis function, displays corresponding alarm codes, and automatically protects the equipment.

**Environmental protection:** In response to the International Montreal Agreement, all models of this series adopt R134a and R410a for environmental protection. The refrigerant has zero damage to the atmosphere and meets the needs of the international market.

**Stability:** Standard constant pressure expansion valve, automatic adjustment of cooling capacity, adapt to various complex working conditions, with double antifreeze protection of temperature and pressure. While saving energy, prolong the service life of equipment.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### TR系列冷干机额定工况

环境温度: 0~42°C

压缩空气入口温度: 15~65°C

压缩空气压力: 0.7MPa, 最高1.6MPa (更高压力可定制)

压力降: ≤0.02MPa (0.7MPa进气压力下)

压力露点: 2°C~10°C

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基, 无明显尘埃与飞絮之场所

### Rated working condition of TR series air dryer:

Ambient temperature: 0~42°C

Compressed air inlet temperature: 15~65°C

Compressed air pressure: 0.7MPa, up to 1.6MPa (higher pressure can be customized)

Pressure drop: 0.02MPa ((under 0.7MPa inlet pressure)

Pressure dew point: 2°C~10°C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard foundation, no obvious dust and flying catkins

## TR系列 环保板换冷干机 (TR15以上)

**节能:** 铝合金三合一换热器设计, 加大的预冷回温器设计, 将制冷量的工艺损耗将至最低, 提高了冷量的回收利用, 同时提高压缩空气的出气温度, 有效减少成品气含水量。

**高效:** 一体式的换热器内部加入了导流鳍片, 使压缩空气在内部均匀换热, 内置气水分离装置加设不锈钢滤网, 水分分离更彻底。

**智能:** 多路温度和压力监控, 实时显示露点温度, 自动记录累计运行时间, 增设压缩机保护, 显示压缩机实时电流, 具备自我诊断功能, 显示相应的告警代码, 自动对设备进行保护。

**环保:** 响应国际蒙特利尔协议, 该系列机型全部采用R407C环保冷媒, 对大气层的破坏程度为零, 适应国际市场需求。

**稳定:** 标配恒压式膨胀阀, 标配智能温度控制, 实验室测试在进气温度达到65℃, 环境温度达到42℃的情况下, 依然稳定运行, 同时具备温度压力双重防冻保护。节能的同时, 延长设备使用寿命。

**可选配物联网组件, 通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**

TR系列冷冻式干燥机 TR series refrigerated Air dryer	型号 Model	TR-15	TR-20	TR-25	TR-30	TR-40	TR-50	TR-60	TR-80	TR100	TR120	TR150	TR200 ↑
最大处理量 Max. air volume	m³/min	17	23	27	33	42	55	65	85	110	130	165	
电源 Power supply		380V/50Hz											
输入功率 Input power	KW	4.25	5.55	6.58	7.2	10.55	12.86	13.1	16.02	21.72	26.3	32.28	
空气管路连接 Air pipe connection		RC2"	RC2-1/2"	DN80		DN100		DN125		DN150			
蒸发器型式 Evaporator type		铝合金板式Aluminum alloy plate											
冷却方式 Cooling type		风冷、管翅式Air-cooled, tube-fin type											
制冷剂型号 Refrigerant type		R407C											
智能控制与保护 Intelligent control and protection		资料备索 Information available on request											
显示界面 Display interface		真彩触摸屏, 运行状态, 露点温度显示 True color touch screen, running status, dew point temperature display											
防冻保护 Anti-freezing protection		温度自动控制/防冻电磁阀 Automatic temperature control/antifreeze solenoid valve											
温度控制 Temperature control		冷凝温度/露点温度自动控制 Condensing temperature/dew point temperature automatic control											
高压保护 High voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection											
低压保护 Low voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection											
远程联接 Remote control		配置远程连接干接点、RS485拓展接口 (需订单备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)											
整机重量 Total Weight	KG	180	236	270	335	439	580	720	920	1150	1380	1725	
整机尺寸 Dimension	L*W*H	1000*850*1100	1100*900*1160	1215*950*1230	1425*1000*1480	1575*1100*1640	1630*1150*1760	1980*1450*1743	2055*1450*1743	2460*1800*1960	2100*2220*2110	2300*2420*2110	



## TR Series Refrigerated air Dryer (above TR15)

**Energy saving:** The aluminum alloy three-in-one heat exchanger design, the enlarged pre-cooling and regenerator design, minimize the process loss of cooling capacity, improve the recycling of cooling capacity, and increase the outlet temperature of compressed air at the same time, effectively reducing product gas moisture content.

**Efficient:** The integrated heat exchanger is equipped with deflector fins to make the compressed air uniform inside heat exchange, built-in air-water separation device and stainless steel filter, water separation is more thorough.

**Intelligent:** Multi-channel temperature and pressure monitoring, real-time display of dew point temperature, automatic recording of accumulated running time, Add compressor protection, display the real-time current of the compressor, have self-diagnosis function, display the corresponding alarm code automatically protects the equipment.

**Environmental protection:** In response to the International Montreal Protocol, all models of this series adopt R407C environmental protection The refrigerant has zero damage to the atmosphere and meets the needs of the international market.

**Stability:** Standard configuration of constant pressure expansion valve, standard configuration of intelligent temperature control, laboratory test when the inlet temperature reaches 65 C and the ambient temperature reaches 42 C, it still operates stably, and it also has dual antifreeze protection of temperature and pressure. While saving energy, prolong the service life of equipment.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### TR系列冷干机额定工况

环境温度: 0~42℃

压缩空气入口温度: 15~65℃

压缩空气压力: 0.7MPa, 最高1.6MPa (更高压力可定制)

压力降: ≤0.025MPa(0.7MPa进气压力下)

压力露点: 2℃~10℃

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基, 无明显尘埃与飞絮之场所

### Rated working condition of TR series air dryer:

Ambient temperature: 0~42℃

Compressed air inlet temperature: 15~65℃

Compressed air pressure: 0.7MPa, up to 1.6MPa (higher pressure can be customized)

Pressure drop: 0.025MPa ((under 0.7MPa inlet pressure)

Pressure dew point: 2 C~10 C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard foundation, no obvious dust and flying catkins.

## TRW系列 冷冻式干燥机

**节能:** 铝合金三合一换热器设计, 加大的预冷回温器设计, 将制冷量的工艺损耗将至最低, 提高了冷量的回收利用, 同时提高压缩空气的出气温度, 有效减少成品气含水量。

**高效:** 一体式的换热器内部加入了导流鳍片, 使压缩空气在内部均匀换热, 内置气水分离装置加设不锈钢滤网, 水分分离更彻底。

**智能:** 多路温度和压力监控, 实时显示露点温度, 自动记录累计运行时间, 增设压缩机保护, 显示压缩机实时电流, 具备自我诊断功能, 显示相应的告警代码, 自动对设备进行保护。

**环保:** 响应国际蒙特利尔协议, 该系列机型全部采用R407C环保冷媒, 对大气层的破坏程度为零, 适应国际市场需求。

**稳定:** 标配恒压式膨胀阀、热气旁通阀、水量调节阀, 自适应运行工况的变化, 且具备自动防冻调节功能。节能的同时, 延长设备使用寿命。

**可选配物联网组件, 通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**

TRW系列冷冻式干燥机 TRW series refrigerated Air dryer	型号 Model	TR-06W	TR-08W	TR-10W	TR-12W
最大处理量 Max. air volume	m <sup>3</sup> /min	6.5	8.5	10.5	13
电源 Power supply		220V/50Hz			
输入功率 Input power	KW	1.15	1.4	1.75	2.25
空气管路连接 Air pipe connection		RC1-1/2"		RC2"	
冷却水连接 Cooling water connection		RC1/2"		RC3/4"	
蒸发器型式 Evaporator type		铝板换 Aluminum alloy plate			
冷却方式 Cooling type		水冷凝器 Water condenser			
制冷剂型号 Refrigerant type		R410A			
智能控制与保护 Intelligent control and protection					
显示界面 Display interface		LED露点温度显示, LED告警代码显示, 运行状态指示 LED dew point temperature display, LED alarm code display, running status indication			
防冻保护 Anti-freezing protection		恒压式膨胀阀 Constant pressure expansion valve			
温度控制 Temperature control		冷凝温度/露点温度自动控制 Condensing temperature/dew point temperature automatic control			
高压保护 High voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection			
低压保护 Low voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection			
远程联接 Remote control		配置远程连接干接点、RS485拓展接口 (需订单备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)			
整机重量 Total Weight	KG	63	73	85	94
整机尺寸 Dimension	L*W*H	700*540*950	770*590*990	770*590*990	800*610*1030



## TRW series refrigerated air dryer

**Energy saving:** The aluminum alloy three-in-one heat exchanger design, the enlarged pre-cooling and regenerator design, minimize the process loss of cooling capacity, improve the recycling of cooling capacity, and increase the outlet temperature of compressed air at the same time, effectively reducing product gas moisture content.

**Efficient:** The integrated heat exchanger is equipped with deflector fins to make the compressed air uniform inside heat exchange, built-in air-water separation device and stainless steel filter, water separation is more thorough.

**Intelligent:** Multi-channel temperature and pressure monitoring, real-time display of dew point temperature, automatic recording of accumulated running time, Add compressor protection, display the real-time current of the compressor, have self-diagnosis function, display the corresponding alarm code automatically protects the equipment.

**Environmental protection:** In response to the International Montreal Protocol, all models of this series adopt R407C environmental protection. The refrigerant has zero damage to the atmosphere and meets the needs of the international market.

**Stability:** Standard configuration of constant pressure expansion valve, hot gas bypass valve, water volume regulating valve, adaptive to changes in operating conditions, and automatic antifreeze adjustment function. While saving energy, prolong the service life of equipment.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### TRW系列冷干机额定工况

环境温度: 2~45°C

进水温度: 2~35°C

进水压力: 0.2~0.3MPa

压缩空气入口温度: 15~65°C

压缩空气压力: 0.7MPa, 最高1.0MPa (更高压力可定制)

压力降: ≤0.025MPa(0.7MPa进气压力下)

压力露点: 2°C~10°C

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基,

无明显尘埃与飞絮之所

### Rated working condition of TRW series air dryer

Ambient temperature: 2~45°C

Inlet water temperature: 2~35°C

Water inlet pressure: 0.2~0.3MPa

Compressed air inlet temperature: 15~65°C

Compressed air pressure: 0.7MPa, up to 1.0MPa (higher pressure can be customized)

Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)

Pressure dew point: 2 C~10 C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard

foundation, no obvious dust and flying catkins.



## TRW系列 冷冻式干燥机

**节能:** 铝合金三合一换热器设计, 加大的预冷回温器设计, 将制冷量的工艺损耗将至最低, 提高了冷量的回收利用, 同时提高压缩空气的出气温度, 有效减少成品气含水量。

**高效:** 一体式的换热器内部加入了导流鳍片, 使压缩空气在内部均匀换热, 内置气水分离装置加设不锈钢滤网, 水分分离更彻底。

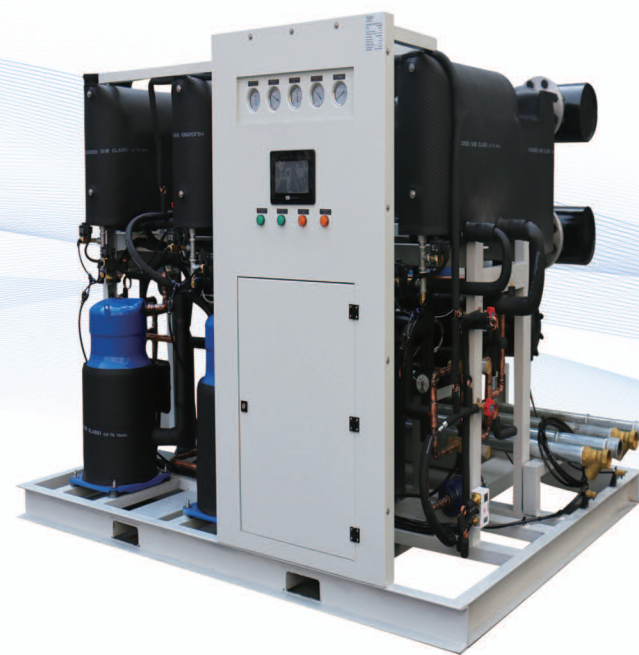
**智能:** 多路温度和压力监控, 实时显示露点温度, 自动记录累计运行时间, 增设压缩机保护, 显示压缩机实时电流, 具备自我诊断功能, 显示相应的告警代码, 自动对设备进行保护。

**环保:** 响应国际蒙特利尔协议, 该系列机型全部采用R407C环保冷媒, 对大气层的破坏程度为零, 适应国际市场需求。

**稳定:** 标配恒压式膨胀阀、热气旁通阀、水量调节阀, 自适应运行工况的变化, 且具备自动防冻调节功能。节能的同时, 延长设备使用寿命。

**可选配物联网组件, 通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**

TRW系列冷冻式干燥机 TRW series refrigerated Air dryer	型号 Model	TR-15W	TR-20W	TR-25W	TR-30W	TR-40W	TR-50W	TR-60W	TR-80W	TR100W	TR120W	TR150W	TR200W	TR250W	TR300W	TR350W 1
最大处理量 Max. air volume	m <sup>3</sup> /min	17	23	27	33	42	55	65	85	110	130	160	220	275	330	
电源 Power supply		380V/50Hz														
输入功率 Input power	KW	3.8	4.95	5.8	6.3	9.35	11.3	11.3	13.62	18.6	22.7	27.6	37.2	45.4	55.2	
空气管路连接 Air pipe connection		RC2"	RC2-1/2"	DN80		DN100		DN125		DN150		DN200		DN250	DN300	
冷却水连接 Cooling water connection		RC1"		RC1-1/2"			RC2"			RC2.5"		RC2.5"*2		RC2.5"*2		
蒸发器型式 Evaporator type		铝钎焊Aluminum alloy plate														
冷却方式 Cooling type		水冷却器Water condenser														
制冷剂型号 Refrigerant type		R407C														
智能控制与保护 Intelligent control and protection		资料备索 Information available on request														
显示界面 Display interface		真彩触摸屏, 运行状态, 露点温度显示 True color touch screen, running status, dew point temperature display														
防冻保护 Anti-freezing protection		温度自动控制防冻电磁阀 Automatic temperature control/antifreeze solenoid valve														
温度控制 Temperature control		冷凝温度/露点温度自动控制 Condensing temperature/dew point temperature automatic control														
高压保护 High voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection														
低压保护 Low voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection														
远程联接 Remote control		配置远程连接干接口、RS485拓展接口 (需订单备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)														
整机重量 Total Weight	KG	180	210	350	420	550	680	780	920	1150	1380	1725	2200	2600	3000	
整机尺寸 Dimension	L*W*H	1000*850*1100	1100*900*1100	1215*950*1230	1425*1000*1480	1575*1100*1640	1750*1200*1743	2000*1350*1520	2155*1400*1743	2455*1520*1960	2100*2120*2010	2800*2120*2010	3000*2200*2010	3070*1500*2395	3130*2340*2080	



## TRW series refrigerated air dryer

**Energy saving:** The aluminum alloy three-in-one heat exchanger design, the enlarged pre-cooling and regenerator design, minimize the process loss of cooling capacity, improve the recycling of cooling capacity, and increase the outlet temperature of compressed air at the same time, effectively reducing product gas moisture content.

**Efficient:** The integrated heat exchanger is equipped with deflector fins to make the compressed air uniform inside heat exchange, built-in air-water separation device and stainless steel filter, water separation is more thorough.

**Intelligent:** Multi-channel temperature and pressure monitoring, real-time display of dew point temperature, automatic recording of accumulated running time, Add compressor protection, display the real-time current of the compressor, have self-diagnosis function, display the corresponding alarm code automatically protects the equipment.

**Environmental protection:** In response to the International Montreal Protocol, all models of this series adopt R407C environmental protection. The refrigerant has zero damage to the atmosphere and meets the needs of the international market.

**Stability:** Standard configuration of constant pressure expansion valve, hot gas bypass valve, water volume regulating valve, adaptive to changes in operating conditions, and automatic antifreeze adjustment function. While saving energy, prolong the service life of equipment.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### TRW系列冷干机额定工况

环境温度: 2~45°C

进水温度: 2~35°C

进水压力: 0.2~0.3MPa

压缩空气入口温度: 15~65°C

压缩空气压力: 0.7MPa, 最高1.0MPa (更高压力可定制)

压力降: ≤0.025MPa(0.7MPa进气压力下)

压力露点: 2°C~10°C

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基,

无明显尘埃与飞絮之所

### Rated working condition of TRW series air dryer

Ambient temperature: 2~45°C

Inlet water temperature: 2~35°C

Water inlet pressure: 0.2~0.3MPa

Compressed air inlet temperature: 15~65°C

Compressed air pressure: 0.7MPa, up to 1.0MPa (higher pressure can be customized)

Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)

Pressure dew point: 2°C~10°C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard

foundation, no obvious dust and flying catkins.

## TRV 变频冷干机 ( TRV01~TRV12 )

**节能:** 直流变频技术的应用, 使冷干机实现真正意义上的自动条件能力, 最低运行功率仅仅只有工频冷干机的20%左右, 一年省下来的电费即可接近或者收回干燥机成本。

**高效:** 三合一铝板换的加持, 结合直流变频技术, 使冷干机的性能突飞猛进, 对于露点的控制游刃有余。

**智能:** 根据工况的变化, 自动调节压缩机频率, 且能自动判断运行状态, 具备完善的自我诊断功能, 友好的人机界面显示, 运行状态一目了然。

**环保:** 响应国际蒙特利尔协议, 该系列机型全部采用R134a和R410A环保制冷剂, 对大气层的破坏程度为零, 适应国际市场需求。

**稳定:** 变频技术的自动调节功能, 使冷干机的使用环境温度范围更大, 在高温的极端工况下, 全速输出, 使露点温度迅速稳定在额定值, 而在冬季极端的低温空况下, 调节频率输出, 避免冷干机出现冰堵现象, 且确保露点稳定。

**可选配物联网组件, 通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**

TR系列冷冻式干燥机 TRV series refrigerated Air dryer	型号 Model	TRV-01	TRV-02	TRV-03	TRV-06	TRV-08	TRV-10	TRV-12
最大处理量 Max. air volume	m <sup>3</sup> /min	1.2	2.4	3.6	6.5	8.5	10.5	13
电源 Power supply		220V/50Hz						
输入功率 Input power	KW	0.28	0.34	0.37	0.99	1.5	1.6	1.97
空气管路连接 Air pipe connection		RC3/4"		RC1"	RC1-1/2"	RC2"		
蒸发器型式 Evaporator type		铝合金板式Aluminum alloy plate						
冷却方式 Cooling type		风冷、管翅式Air-cooled, tube-fin type						
制冷剂型号 Refrigerant type		R134a			R410A			
智能控制与保护 Intelligent control and protection		LED运行状态显示、露点温度显示LED running status display, dew point temperature display						
显示界面 Display interface		恒压式膨胀阀Constant pressure expansion valve						
防冻保护 Anti-freezing protection		温度控制 Condensing temperature/dew point temperature automatic control						
温度控制 Temperature control		温度传感器Temperature Sensor			温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection			
高压保护 High voltage protection		温度传感器Temperature Sensor			温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection			
低压保护 Low voltage protection		配置远程连接干接点、RS485拓展接口 (需订单备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)						
远程联接 Remote control		配置远程连接干接点、RS485拓展接口 (需订单备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)						
整机重量 Total Weight	KG	33	40	53	69	86	91	103
整机尺寸 Dimension	L*W*H	510*380*665	550*410*725	630*490*850	730*540*950	800*590*990	800*590*990	830*610*1030



## TRV Series frequency conversion refrigeration dryer ( TRV01~TRV12 )

**Energy saving:** The application of DC frequency conversion technology enables the air dryer to realize the true automatic condition capability, the minimum operating power is only about 20% of the power frequency air dryer, and the electricity bill saved in one year can be close to or recover the cost of the air dryer.

**Efficient:** The blessing of three-in-one aluminum plate replacement, combined with DC frequency conversion technology, makes the performance of the air dryer improve by leaps and bounds, and it is easy to control the dew point.

**Intelligent:** According to the change of working conditions, the frequency of the compressor can be automatically adjusted, and the operating status can be automatically judged. It has a complete self-diagnosis function, a friendly man-machine interface display, and the operating status is clear at a glance.

**Environmental protection:** In response to the International Montreal Protocol, this series of models all use R134a and R410A environmentally friendly refrigerants, which have zero damage to the atmosphere and meet the needs of the international market.

**Stability:** The automatic adjustment function of frequency conversion technology makes the operating environment temperature range of the cold dryer wider. Under the extreme high temperature condition, the full-speed output makes the dew point temperature quickly stabilize at the rated value, and in the extreme low temperature air condition in winter, adjust the frequency output to avoid ice blockage in the cold dryer and ensure a stable dew point.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### TRV系列冷干机额定工况

环境温度: -10~45℃

压缩空气入口温度: 15~65℃

压缩空气压力: 0.7MPa, 最高1.6MPa (更高压力可定制)

压力降: ≤0.02MPa (0.7MPa进气压力下)

压力露点: 2℃~8℃

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基, 无明显尘埃与飞絮之场所

### Rated working condition of TRV series air dryer:

Ambient temperature: -10~45℃

Compressed air inlet temperature: 15~65℃

Compressed air pressure: 0.7MPa, up to 1.6MPa (higher pressure can be customized)

Pressure drop: 0.02MPa ((under 0.7MPa inlet pressure)

Pressure dew point: 2℃~8℃

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard foundation, no obvious dust and flying catkins.

## TRV系列 变频冷干机 (TRV15以上)

**节能:** 柔性变频技术的应用, 使冷干机具备频率调节功能, 最低运行功率仅仅只有工频冷干机的30%左右, 一年省下来的电费即可接近或者收回干燥机成本。

**高效:** 三合一铝板换的加持, 结合柔性变频技术, 使冷干机的性能突飞猛进, 对于露点的控制游刃有余。

**智能:** 根据工况的变化, 自动调节压缩机频率, 且能自动判断运行状态, 具备完善的自我诊断功能, 真彩触摸屏人机界面显示, 运行状态一目了然。

**环保:** 响应国际蒙特利尔协议, 该系列机型全部采用R407C环保制冷剂, 对大气层的破坏程度为零, 适应国际市场需求。

**稳定:** 变频技术的自动调节功能, 使冷干机的使用环境温度范围更大, 在高温的极端工况下, 全速输出, 使露点温度迅速稳定在额定值, 而在冬季极端的低温空况下, 调节频率输出, 避免冷干机出现冰堵现象, 且确保露点稳定。

TRV系列冷冻式干燥机 TRV series refrigerated Air dryer	型号 Model	TRV-15	TRV-20	TRV-25	TRV-30	TRV-40	TRV-50	TRV-60	TRV-80	TRV100	TRV120	TRV150	TRV200 †
最大处理量 Max. air volume	m³/min	17	23	27	33	42	55	65	85	110	130	165	
电源 Power supply		380V/50Hz											
输入功率 Input power	KW	3.8	4	4.9	5.8	6.3	9.7	11.3	13.6	18.6	22.7	27.6	
空气管路连接 Air pipe connection		RC2"	RC2-1/2"	DN80		DN100		DN125		DN150			
蒸发器型式 Evaporator type		铝合金板式 Aluminum alloy plate											
冷却方式 Cooling type		风冷、管翅式 Air-cooled, tube-fin type											
制冷剂型号 Refrigerant type		R407C											
智能控制与保护 Intelligent control and protection		真彩触摸屏, 运行状态, 露点温度显示 True color touch screen, running status, dew point temperature display											
防冻保护 Anti-freezing protection		温度自动控制/防冻电磁阀 Automatic temperature control/antifreeze solenoid valve											
温度控制 Temperature control		冷凝温度/露点温度自动控制 Condensing temperature/dew point temperature automatic control											
高压保护 High voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection											
低压保护 Low voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection											
远程联接 Remote control		配置远程连接干接点, RS485拓展接口 (需订备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)											
整机重量 Total Weight	KG	217	242	275	340	442	582	768	915	1120	1350	1680	
整机尺寸 Dimension	L*W*H	1250*850*1100	1350*900*1160	1400*950*1230	1625*1000*1480	1450*1100*1640	1630*1150*1760	1980*1650*1743	2280*1800*1743	2460*1800*1960	2100*2420*2110	2300*2420*2110	

资料备索  
Information  
available  
on request



## TRV Series frequency conversion refrigeration dryer (above TR15)

**Energy saving:** The application of flexible frequency conversion technology enables the dryer to have the function of frequency adjustment, the minimum operating power is only about 30% of the power frequency dryer, and the electricity bill saved in one year can be close to or recover the cost of the dryer.

**Efficient:** The blessing of the three-in-one aluminum plate replacement, combined with the flexible frequency conversion technology, makes the performance of the air dryer improve by leaps and bounds, and it is easy to control the dew point.

**Intelligent:** According to the change of working conditions, the frequency of the compressor can be automatically adjusted, and the operating status can be automatically judged. It has a complete self-diagnosis function, and the real-color touch screen man-machine interface displays the operating status at a glance.

**Environmental protection:** In response to the International Montreal Protocol, all models of this series use R407C environmentally friendly refrigerant, which has zero damage to the atmosphere and meets the needs of the international market.

**Stability:** The automatic adjustment function of frequency conversion technology makes the operating environment temperature range of the air dryer widely. Under the extreme high temperature condition, the full-speed output makes the dew point temperature quickly stabilize at the rated value, and in the extreme low temperature air condition in winter, adjust the frequency output to avoid ice blockage in the air dryer and ensure a stable dew point.

### TRV系列冷干机额定工况

环境温度: -10~45°C

压缩空气入口温度: 38°C, 最高65°C

压缩空气压力: 0.7MPa, 最高1.6MPa (更高压力可定制)

压力降: ≤0.025MPa(0.7MPa进气压力下)

压力露点: 2°C~8°C

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基, 无明显尘埃与飞絮之场所

### Rated working condition of TRV series air dryer:

Ambient temperature: -10~45°C

Compressed air inlet temperature: 38~65°C

Compressed air pressure: 0.7MPa, up to 1.6MPa (higher pressure can be customized)

Pressure drop: 0.025MPa ((under 0.7MPa inlet pressure)

Pressure dew point: 2°C~8°C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard foundation, no obvious dust and flying catkins.

## TRQ系列 冷冻式干燥机

环保板换冷干机与过滤器整合，撬装一体式设计，简约时尚的外观，只需要连接上空压机即可使用，无需繁琐的配管，冷冻式干燥机采用铝合金三合一板式换热器，环保制冷剂，微电脑自动控制，可直观显示冷冻式干燥机露点温度，且具备自我诊断和保护功能，使用便捷。

特别定制的高效过滤器滤芯，进口过滤材质，并加大滤芯有效过滤面积，确保了卓越的除油除尘效果和使用周期。

高性能的整机设计，为激光切割机等高要求的使用场合提供无油无水无尘的纯净压缩空气。

TRQ系列冷冻式干燥机 TRQ series refrigerated Air dryer	型号 Model	TRQ-01	TRQ-02	TRQ-03	TRQ-06	TRQ-08	TRQ-10	TRQ-12	TRQ15 †
最大处理量 Max. air volume	m³/min	1.6	2.4	3.6	6.5	8.5	10.5	13	
电源 Power supply		220V/50Hz							
输入功率 Input power	KW	0.35	0.53	0.765	1.279	1.619	1.969	2.5	
空气管路连接 Air pipe connection		RC3/4"		RC1"	RC1-1/2"	RC2"			
蒸发器型式 Evaporator type		铝合金板式Aluminum alloy plate							
配套过滤器型号 Matching air filter model		TRF-01	TRF-02	TRF-03	TRF-06	TRF-08	TRF-10	TRF-12	
过滤器级别 air filter level		C/T/A/X含自动排水器 C/T/A/X with auto drain							
冷却方式 Cooling type		风冷、管翅式Air-cooled, tube-fin type							
制冷剂型号 Refrigerant type		R134a			R410A				
露点 Dew point		2~10℃							
智能控制与保护 Intelligent control and protection		资料备案 Information available on request							
显示界面 Display interface		LED露点温度显示, LED告警代码显示, 运行状态指示 LED dew point temperature display, LED alarm code display, operating status indication							
防冻保护 Anti-freezing protection		恒压式膨胀阀 恒压式膨胀阀Constant pressure expansion valve							
温度控制 Temperature control		冷凝温度/露点温度自动控制Condensing temperature/dew point temperature automatic control							
高压保护 High voltage protection		温度传感器Temperature Sensor		温度传感器&感压式智能防护Temperature Sensor & Pressure Sensitive Intelligent Protection					
低压保护 Low voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection					
远程联接 Remote control		选配DCS远程联控干接口、RS485拓展接口Optional DCS remote joint control dry contact, RS485 expansion interface							
整机重量 Total Weight	KG	82	90	98	110	122	138	154	
整机尺寸 Dimension	L*W*H	800*460*850	900*560*885	950*610*885	1150*660*1005	1200*660*1200	1200*660*1200	1200*660*1200	



## TRQ Series Refrigerated air Dryer

The environmental refrigerated air dryer combined with air filters, skid-mounted integrated design, simple and stylish appearance, only needs to be connected to the air compressor to use, without cumbersome piping, the refrigerated dryer adopts aluminum alloy three-in-one plate heat exchange devices, environmentally friendly refrigerants, microelectronics.

Specially customized high-efficiency filter elements, imported filter materials, and enlarged filter elements. The effective filter area ensures excellent oil and dust removal effect and service life.

The high-performance machine design provides oil-free, water-free and dust-free clean water for high-demand applications such as laser cutting machines. compressed air.

### TRQ系列冷干机额定工况

环境温度: 0~42℃

压缩空气入口温度: 15~65℃

压缩空气压力: 0.7MPa, 最高1.6MPa ( 更高压力可定制 )

压力降: ≤0.028MPa(0.7MPa进气压力下)

压力露点: 2℃~10℃

装机环境: 无日晒, 无雨水, 通风良好, 装置于水平硬质地基, 无明显尘埃与飞絮之场所

### Rated working condition of TRQ series air dryer:

Ambient temperature: 0~42℃

Compressed air inlet temperature: 15~65℃

Compressed air pressure: 0.7MPa, up to 1.6MPa (higher pressure can be customized)

Pressure drop: 0.028MPa (under 0.7MPa inlet pressure)

Pressure dew point: 2 C~10 C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard foundation, no obvious dust and flying catkins.

## EXTR系列 防爆冷冻式干燥机

防爆冷干机采用铝合金三合一或者不锈钢三合一板式换热器设计，防爆的同时，兼顾了防腐性能。

整机按照Ex d IIC T4 Gb防爆标准，全密封防爆电气箱设计，所有电气连接均采用防爆软管。

实时显示露点温度，自动记录累计运行时间，并具备自我诊断功能，自动对设备进行保护。

环保：响应国际蒙特利尔协议，该系列机型全部采用环保型制冷剂，对大气层的破坏程度为零，适应国际市场需求。

标配恒压式膨胀阀，自动调节制冷量，可分别适应高温环境工况和低温环境节能，稳定运行。



EXTR系列冷冻式干燥机 EXTR series explosion-proof refrigerated air Dryer	型号 Model	EXTR-01	EXTR-02	EXTR-03	EXTR-06	EXTR-08	EXTR-10	EXTR-12	EXTR-15	EXTR-20	EXTR-25	EXTR-30	EXTR-40	EXTR-50	EXTR-60	EXTR-80	EXTR-100	
最大处理量 Max. air volume	m <sup>3</sup> /min	1.2	2.4	3.6	6.5	8.5	10.5	13	17	23	27	33	42	55	65	85		
电源 Power supply		220V/50Hz						380V/50Hz										
输入功率 Input power	KW	0.4	0.57	0.86	1.52	1.77	2.12	2.62	4.35	5.7	6.55	7.4	10.85	12.8	14.3	16.62		
空气管路连接 Air pipe connection		RC3/4"		RC1"	RC1-1/2"	RC2"			RC2"	RC2-1/2"	DN80		DN100		DN125			
蒸发器型式 Evaporator type		铝合金板式 Aluminum alloy plate																
冷却方式 Cooling type		风冷、管翅式 风冷、管翅式 Air-cooled, tube-fin type																
制冷剂型号 Refrigerant type		R134a		R410A						R407C								
智能控制与保护 Intelligent control and protection		-																
显示界面 Display interface		LED露点温度显示, LED告警代码显示, 运行状态指示 LED dew point temperature display, LED alarm code display, operating status indication								LED露点温度显示, LED告警代码显示, LED压缩机电流显示, 运行状态指示 LED dew point temperature display, LED alarm code display, LED compressor current display, operating status indication								
防冻保护 Anti-freezing protection		恒压式膨胀阀 Constant pressure expansion valve								温度自动控制/防冻电磁阀 Automatic temperature control/antifreeze solenoid valve								
温度控制 Temperature control		冷凝温度/露点温度自动控制 Condensing temperature/dew point temperature automatic control																
高压保护 High voltage protection		温度传感器 Temperature Sensor	温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection															
低压保护 Low voltage protection		温度传感器&感压式智能防护 Temperature Sensor & Pressure Sensitive Intelligent Protection																
远程联接 Remote control		-								配置远程连接干接点、RS485拓展接口 (需订备注) Configure remote connection dry contact, RS485 expansion interface (remarks required for order)								
整机重量 Total Weight	KG	51	63	75	94	110	125	131	270	310	520	630	825	1020	1170	1380		
整机尺寸 Dimension	L*W*H	1080*660*750	1080*660*750	1210*660*750	1300*760*915	1460*960*1000	1460*960*1000	1600*1100*1000	1700*1100*1100	1800*1100*1160	1815*1150*1230	2025*1425*1480	2175*1575*1640	2230*1630*1760	2580*1950*1743	2655*2000*1743		

资料备索  
Information  
available on  
request

## EXTR series explosion-proof Refrigerated air Dryer

The explosion-proof air dryer adopts the design of aluminum alloy three-in-one or stainless steel three-in-one plate heat exchanger, which takes into account the anti-corrosion performance while being explosion-proof.

The whole machine complies with Ex d IIC T4 Gb explosion-proof standard, fully sealed explosion-proof electrical box design, and all electrical connections use explosion-proof hoses.

Real-time display of dew point temperature, automatic recording of cumulative running time, and self-diagnosis function to automatically protect the equipment.

Environmental protection: In response to the International Montreal Agreement, all models of this series use environmentally friendly refrigerants, the degree of damage to the atmosphere is zero, and it meets the needs of the international market.

Standard constant pressure expansion valve, automatic adjustment of cooling capacity, can be respectively adapted to high temperature environment and low temperature environment, energy saving, stable operation.

### EXTR系列防爆冷干机额定工况：

防爆等级：Ex d IIC T4 Gb

环境温度：0~42℃

压缩空气入口温度：15~65℃

压缩空气压力：0.7MPa，最高1.6MPa（更高压力可定制）

压力降：≤0.025MPa(0.7MPa进气压力下)

压力露点：2℃~10℃

装机环境：无日晒，无雨水，通风良好，装置于水平硬质地基，无明显尘埃与飞絮之场所

### Rated working conditions of EXTR series explosion-proof air dryer:

Explosion-proof grade: Ex d IIC T4 Gb

Ambient temperature: 0~42℃

Compressed air inlet temperature: 15~65℃

Compressed air pressure: 0.7MPa, up to 1.6MPa (higher pressure can be customized)

Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)

Pressure dew point: 2 C~10 C

Installation environment: no sunlight, no rain, good ventilation, installed on a horizontal hard foundation, no obvious dust and flying catkins

## SXD系列 无热吸附式干燥机

无热再生吸附式干燥机是根据变压吸附原理，应用无热再生方法（无须外部热源）对压缩空气进行吸附干燥的一种除湿净化装置。

无热再生吸附式干燥机（以下简称无热吸干机），是本公司近年来在消化、吸收国外同类产品先进技术基础上，考虑国内用户实际情况，进行精心设计、研制而成的高品质机型。在正常操作条件下，可将空气的露点（压力下）降到-40℃以下，最低可达-70℃。能为少数对空气质量有很高要求的应用领域提供无油无水高品质的压缩空气，尤其适用于北方寒冷地区和其它环境气温低于0℃的用气场合。

无热吸干机采用双塔结构，一塔在一定压力下吸附空气中的水分，另一塔用稍高于大气压的一小部分干燥空气使吸附塔中的干燥剂再生，经过一定时间，两塔切换，保证干燥压缩空气的连续供应。

独特的电脑控制系统，直观显示吸干机运行状态，并具多重报警、保护功能和DCS远程控制接口，确保使用无虞。

执行机构均采用气动角座阀和气动蝶阀，气动控制系统采用深度干燥气源再经过滤，确保动作可靠，免除阀门泄漏现象。

吸附塔的高度与直径经精密计算及实验结果，确实掌握流速及传热传质等重要参数，免除吸附剂过快磨损及隧道效应。

专业的程控设计，气流脉冲及气压波动小，有效减少出口气粉尘和再生气流噪音。

方便实用的循环时间模式和节能经济模式，再生气量、时间程序可调，适应各种实际使用状况和出口露点要求。

支撑基座外形稳固美观，安装、使用、维护方便。

**可选配物联网组件，通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**



## SXD heatless adsorption dryer

The heatless regenerative adsorption dryer is a dehumidification and purification device that uses the heatless regeneration method (no external heat source) to adsorb and dry compressed air based on the principle of pressure swing adsorption.

The heatless regenerative adsorption dryer (hereinafter referred to as the heatless adsorption dryer) is a high-quality product carefully designed and developed by the company on the basis of digesting and absorbing the advanced technology of similar foreign products in recent years and considering the actual situation of domestic users. Under normal operating conditions, the dew point of the air (under pressure) can be reduced to below -40 C, and the lowest can reach -70 C. It can provide oil-free, water-free and high-quality compressed air for a few applications that have high requirements on air quality, especially for the cold northern regions and other gas-consuming occasions where the ambient temperature is below 0 C.

The heatless desiccant dryer adopts a double-tower structure, one tower absorbs moisture in the air under a certain pressure, and the other tower uses a small part of dry air slightly higher than atmospheric pressure to regenerate the desiccant in the adsorption tower. Tower switching ensures continuous supply of dry compressed air. The unique computer control system visually displays the operating status of the dryer, and has multiple alarms, protection functions and DCS remote control interface to ensure safe use.

The actuators all adopt pneumatic angle seat valves and pneumatic butterfly valves, and the pneumatic control system adopts. The deep dry air source is filtered to ensure reliable operation and avoid valve leakage.

The height and diameter of the adsorption tower have been precisely calculated and tested to ensure that the flow rate is accurately grasped. And important parameters such as heat and mass transfer, to avoid excessive wear and tunneling of the adsorbent.

Professional program-controlled design, small airflow pulse and air pressure fluctuation, effectively reducing outlet gas dust and regenerative airflow noise.

Convenient and practical cycle time mode and energy-saving economic mode, adjustable regeneration gas volume and time program, adapt to various actual use conditions and outlet dew point requirements.

The supporting base has a stable and beautiful appearance, and is easy to install, use and maintain.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### SXD无热吸附式干燥机额定工况

压缩空气入口温度：2~45℃  
 压缩空气压力：0.7MPa，最高1.0MPa(更高压力可定制)  
 压力露点：-20℃（可定制-40℃露点）  
 进气含油量：0.08ppm(0.1mg/m<sup>3</sup>)  
 成品气含尘粒径：≤60μm  
 平均再和气流流量：10%~22%额定处理气量  
 吸附剂：活性氧化铝（更高要求可用分子筛）  
 压力降：≤0.025MPa(0.7MPa进气压力下)  
 再生方式：常温再生  
 工作方式：两塔4min或10min自动切换，连续工作  
 控制方式：循环周期4~10min可调  
 安装方式：室内，允许无基础安装

### Rated working condition of SXD heatless adsorption dryer:

Compressed air inlet temperature: 2~45℃  
 Compressed air pressure: 0.7MPa, up to 1.0MPa (higher pressure can be customized)  
 Pressure dew point: -20 C (-40 C dew point can be customized)  
 Intake oil content: 0.08ppm (0.1mg/m<sup>3</sup>)  
 Dust particle size of finished gas: ≤60μm  
 Average recombination gas flow: 10%~22% of rated gas flow  
 Adsorbent: activated alumina (molecular sieves are available for higher requirements)  
 Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)  
 Regeneration method: normal temperature regeneration  
 Working mode: automatic switching between two towers in 4min or 10min, continuous work  
 Control mode: cycle 4~10min adjustable  
 Installation method: indoor, allowing installation without foundation

SXD无热吸附式干燥机 SXD heatless adsorption dryer	型号 Model	SXD01	SXD02	SXD03	SXD06	SXD08	SXD10	SXD12	SXD15	SXD20	SXD25	SXD30	SXD40	SXD50	SXD60	SXD80	SXD100	SXD120	SXD150	SXD200 †	
最大处理量 Max. air volume	m <sup>3</sup> /min	1.2	2.4	3.8	6.5	8.5	11.5	13.5	17	23	27	34	45	55	65	85	110	130	155		
电源 Power supply		220V/50Hz																			
输入功率 Input power	KW	0.2																			
空气管路连接 Air pipe connection		RC1"			RC1-1/2"		RC2"			DN65		DN80		DN100		DN125		DN150		DN200	
整机重量 Total Weight	KG	105	135	187	238	282	466	520	670	798	980	1287	1624	1624	2650	3520	4320	4750	5260		
整机尺寸 Dimension	L*W*H	670*360*1305	670*400*1765	850*400*1385	1000*600*1700	1100*600*2050	1200*600*2030	1240*600*2280	1300*720*2480	1400*720*2520	1500*800*2450	1700*770*2420	1950*860*2600	2010*860*2670	2160*1040*2705	2420*1100*2860	2500*1650*2800	2650*1650*2800	2800*1700*2900		

资料备索  
Information  
available  
on request

## SRD系列 微热吸附式干燥机

微热再生吸附式干燥机是根据变压吸附原理，应用微热再生方法对压缩空气进行吸附干燥的一种除湿净化装置。

微热再生吸附式干燥机（以下简称微热吸干机），兼具加热再生和无热再生的优点，对再生气采用微加热的方式，从而减少再生耗气量，并且由于再生更彻底，延长了塔体切换周期。在正常操作条件下，可将空气的露点（压力下）降到-40℃以下，最低可达-70℃。能为少数对空气质量有很高要求的应用领域提供无油无水高品质的压缩空气，尤其适用于北方寒冷地区和其它环境气温低于0℃的用气场合。

微热吸干机采用双塔结构，一塔在一定压力下吸附空气中的水分，另一塔用稍高于大气压的一小部分干燥空气使吸附塔中的干燥剂再生，经过一定时间，两塔切换，保证干燥压缩空气的连续供应。

在拥有无热再生吸附式干燥机全部优点的基础上，采用品质优良的不锈钢翅片式U型加热管，加热均匀，换热系数高，能保证长期无故障运行。

**可选配物联网组件，通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**



SRD微热吸附式干燥机 SRD micro heat adsorption dryer	型号 Model	SRD01	SRD02	SRD03	SRD06	SRD08	SRD10	SRD12	SRD15	SRD20	SRD25	SRD30	SRD40	SRD50	SRD60	SRD80	SRD100	SRD120	SRD150	SRD200 †			
最大处理量 Max. air volume	m³/min	1.2	2.4	3.8	6.5	8.5	11.5	13.5	17	23	27	34	45	55	65	85	110	130	155				
电源 Power supply		220V/50Hz						380V/50HZ															
输入功率 Input power	KW	1.2	1.2	1.2	2.2	2.2	3.2	3.2	4.7	6.2	7.7	9.2	12.2	15.2	18	24	30	36	45				
空气管路连接 Air pipe connection		RC1"			RC1-1/2"		RC2"			DN65			DN80			DN100			DN125		DN150		DN200
整机重量 Total Weight	KG	135	170	240	285	255	526	605	712	848	1150	1328	1674	2100	2707	3573	4639	5100	5586				
整机尺寸 Dimension	L*W*H	670*450 *1305	670*530 *1765	850*510 *1450	1000*700* 1700	1100*760* 2050	1150*850* 2173	1240*780* 2283	1200*860* 2480	1400*880* 2510	1500*940* 2450	1700*985* 2410	1960*1130* 2600	2010*1130* 2670	2160*1470* 2705	2420*1400* 2860	2500*1650* 2800	2650*1650* 2800	2800*1800* 2900				

资料备忘  
Information  
available on  
request

## SRD micro heat adsorption dryer

Micro-heat regeneration adsorption dryer is a dehumidification and purification device that uses micro-heat regeneration method to adsorb and dry compressed air according to the principle of pressure swing adsorption.

Micro-heat regeneration adsorption dryer (hereinafter referred to as micro-heat adsorption dryer), has the advantages of both heating regeneration and heatless regeneration, adopts a slight heating method for the regeneration gas, thereby reducing the regeneration gas consumption, and because the regeneration is more thorough, it can prolong The tower body switching cycle is increased. Under normal operating conditions, the dew point of the air (under pressure) can be reduced to below -40 C, and the lowest can reach -70 C. It can provide oil-free, water-free and high-quality compressed air for a few applications that have high requirements on air quality, especially for the cold northern regions and other gas-consuming occasions where the ambient temperature is below 0 C.

Micro-heat desiccant dryer adopts double-tower structure, one tower absorbs moisture in the air under a certain pressure, and the other tower uses a small part of dry air slightly higher than atmospheric pressure to regenerate the desiccant in the adsorption tower. Tower switching ensures continuous supply of dry compressed air.

On the basis of having all the advantages of the heatless regenerative adsorption dryer, the high-quality stainless steel finned U-shaped heating tube is used, which has uniform heating and high heat transfer coefficient, which can ensure long-term trouble-free operation.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### SRD微热吸附式干燥机额定工况：

压缩空气入口温度：2~45℃  
 压缩空气压力：0.7MPa，最高1.0MPa（更高压力可定制）  
 压力露点：-20℃（可定制-40~-70露点）  
 进气含油量：0.08ppm(0.1mg/m³)  
 成品气含尘粒径：≤60 μ m  
 平均再和气流流量：5%~8%额定处理气量  
 吸附剂：活性氧化铝（更高要求可用分子筛）  
 压力降：≤0.025MPa(0.7MPa进气压力下)  
 再生方式：微热再生  
 工作方式：两塔30min或60min自动切换，连续工作  
 控制方式：30~60min可调  
 安装方式：室内，允许无基础安装

### Rated working conditions of SRD micro heat adsorption dryer:

Compressed air inlet temperature: 2~45℃  
 Compressed air pressure: 0.7MPa, up to 1.0MPa (higher pressure can be customized)  
 Pressure dew point: -20 C (-40~-70 dew point can be customized)  
 Intake oil content: 0.08ppm (0.1mg/m )  
 Dust particle size of finished gas: 60μm  
 Average recombination gas flow: 5%~8% of rated gas volume  
 Adsorbent: activated alumina (molecular sieves are available for higher requirements)  
 Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)  
 Regeneration method: micro heat regeneration  
 Working mode: automatic switching between two towers for 30 minutes or 60 minutes, continuous work  
 Control mode: 30~60min adjustable  
 Installation method: indoor, allowing installation without foundation"

## SGD系列 鼓风再生吸附式干燥机

鼓风再生吸附式干燥机是一种节能型压缩空气吸附式干燥装置，由于它采用环境空气鼓风再生的工艺，因此可以避免消耗传统工艺再生所需的大量产品气。

鼓风再生干燥机的吸附基本原理与传统吸附工艺类似。但其再生方法是鼓风再生的工艺，工艺步序包括加热，吹冷。加热时再生气源来自鼓风机升压后的环境空气，经加热器加热至再生温度作为吸附器床层解析的再生气体。在再生操作时，再生回热气体对吸附床层进行加温解析，并由再生气体携带析出的水蒸气，并带出吸附器。再生吹冷或取自自身干燥空气，经减压后作为再生吹冷气体，或进行空气循环冷却分离作为再生吹冷气体，对床层进行吹冷，以满足下一阶段吸附工作需要，避免空气出口露点由于存在床温而出现不稳定情形。

鼓风再生吸附式干燥机的基本原理与传统吸干机工艺类似。但其再生方法是鼓风再生的工艺，工艺步序包吸附、再生、冷吹、均压四个阶段构成。加热时再生气源来自鼓风机升压后的环境空气，经加热器加热至再生温度作为吸附器床层解析的再生气体。在再生操作时，再生回热气体对吸附床层进行加温解析，并由再生气体携带析出的水蒸气排出。

鼓风再生吸附式干燥机采用特制的高温蝶阀控制气路，确保阀门的有效动作且提高阀门的使用寿命和稳定性，独特的分配型扩散器避免气流的隧流现象，气流均匀分布，充分保护和利用吸附剂。

**可选配物联网组件，通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**



SGD微热吸附式干燥机 SGD blast regenerative adsorption dryer	型号 Model	SGD10	SGD12	SGD15	SGD20	SGD25	SGD30	SGD40	SGD50	SGD60	SGD80	SGD100	SGD120	SGD150	SGD200 ↑
最大处理量 Max. air volume	m <sup>3</sup> /min	11.5	13.5	17	23	27	34	45	55	65	85	110	130	155	
电源 Power supply		380V/50HZ													
鼓风机功率Blower power	KW	1.8	2.2	3	3.3	4.2	5.5	7.2	8.8	10.8	13.8	17.5	24	30	
加热器功率Heater power	KW	7.5	9	12	15	18	24	32.4	42	48	64.8	81	96	130	
空气管路连接 Air pipe connection		DN50			DN65	DN80		DN100			DN125	DN150		DN200	
整机重量 Total Weight	KG	820	950	1150	1320	1650	1980	2650	3350	4080	5350	6200	7100	7950	
整机尺寸 Dimension	L*W*H	1500*1450*1950	1500*1450*2150	1600*1450*2450	1750*1500*2780	1900*1550*2880	2100*1550*2100	2500*2220*2900	2700*2400*3100	2900*2500*3100	3050*2800*3100	3200*2900*3200	3400*3100*3300	3500*3200*3400	

资料备案  
Information  
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## SGD blast regenerative adsorption dryer

"Blast regeneration adsorption dryer is an energy-saving compressed air adsorption drying device. Because it adopts the regeneration process of ambient air blast, it can avoid consuming a large amount of product gas required for regeneration in traditional processes. The basic principle of adsorption of blast regenerative dryer is similar to that of traditional adsorption process. However, its regeneration method is a blast regeneration process, and the process steps include heating and blowing cooling. During heating, the regeneration gas source comes from the ambient air boosted by the blower, which is heated to the regeneration temperature by the heater and used as the regeneration gas for the bed analysis of the adsorber. During the regeneration operation, the regeneration return gas heats and analyzes the adsorption bed layer, and the separated water vapor is carried by the regeneration gas and taken out of the adsorber. Regeneration blow cooling or take from its own dry air, after decompression, it will be used as regeneration blow cooling gas, or air circulation cooling and separation will be used as regeneration blow cooling gas, and the bed layer will be blown cold to meet the needs of the next stage of adsorption work, avoiding air The outlet dew point is unstable due to the bed temperature."

The basic principle of blast regenerative adsorption dryer is similar to that of traditional suction dryer. However, its regeneration method is a blast regeneration process, and the process sequence includes four stages: adsorption, regeneration, cold blowing, and pressure equalization. During heating, the regeneration gas source comes from the ambient air boosted by the blower, which is heated to the regeneration temperature by the heater and used as the regeneration gas for the bed analysis of the adsorber. During the regeneration operation, the regeneration return gas heats and analyzes the adsorption bed layer, and the separated water vapor is carried out by the regeneration gas.

The blower regenerative adsorption dryer adopts a special high-temperature butterfly valve to control the gas path to ensure the effective operation of the valve and improve the service life and stability of the valve. The unique distribution diffuser avoids the tunneling of the air flow, and the air flow is evenly distributed to fully protect the air and using adsorbent.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### SGD鼓风再生吸附式干燥机额定工况：

压缩空气入口温度：2~42℃  
 压缩空气压力：0.7MPa，最高1.0MPa  
 冷却水条件：≤35℃，0.2~0.3MPa工业循环水  
 工况下压力露点：-20℃（可定制最低-40℃露点）  
 进气含油量：0.08ppm(0.1mg/m<sup>3</sup>)  
 成品气含尘粒径：≤60μm  
 平均再和气流流量：0~2%额定处理气量  
 吸附剂：活性氧化铝（更高要求可用分子筛）  
 压力降：≤0.021Mpa（0.7MPa进气压力下）  
 再生方式：有热再生  
 工作方式：两塔4~8可调自动切换，连续工作  
 控制方式：PLC自动控制  
 安装方式：室内，允许无基础安装

### SGD blower regenerative adsorption dryer rated working conditions:

Compressed air inlet temperature: 2~42℃  
 Compressed air pressure: 0.7MPa, up to 1.0MPa  
 Cooling water condition: 35℃, 0.2-0.3MPa industrial circulating water  
 Pressure dew point under working conditions: -20 C (customizable minimum -40 C dew point)  
 Intake oil content: 0.08ppm (0.1mg/m<sup>3</sup>)  
 Dust particle size of finished gas: 60μm  
 Average recombination gas flow: 0~2% of rated gas flow  
 "Adsorbent: activated alumina (molecular sieves are available for higher requirements)  
 Pressure drop: 0.021Mpa (under 0.7MPa inlet pressure)  
 Regeneration method: thermal regeneration  
 Working mode: two towers 4~8 adjustable automatic switching, continuous work  
 Control mode: PLC automatic control  
 Installation method: indoor, allowing installation without foundation



## SMD系列 组合式干燥机

组合式干燥机通常是由冷冻式干燥机和微热再生吸附式干燥机组合而成。压缩空气通过冷冻式干燥机除去大部分的水份，且经过内置的A级过滤器滤除冷凝后的油雾，进入微热吸附式干燥机，组合式干燥机运行更加节能，耗气量更低，也更能有效的达到额定的露点值。

其中冷干机部分采用高效节能的铝合金板换冷干机，使整机体积得到有效控制，且可以杜绝二次污染，保护吸附剂，微热吸干机部分采用吸附床层大容量设计，使压缩空气可以有更充分的时间与吸附剂接触，而进行深度吸附干燥，吸附床层大容量的设计也使得组合式干燥机的压降进一步降低，减少压缩空气损耗。

**可选配物联网组件，通过手机或者其他联网的显示终端实现对干燥机的远程监控功能。**



## SMD Combined air Dryer

The combined dryer is usually a combination of a refrigerated dryer and a micro-heat regenerative adsorption dryer. The compressed air removes most of the water through the refrigerated dryer, and the condensed oil mist is filtered through the built-in A-level filter, and then enters the micro-heat adsorption dryer. The combined dryer is more energy-saving and consumes less air. It is also more effective to achieve the rated dew point value.

Among them, the air dryer part adopts high-efficiency and energy-saving aluminum alloy plate replacement air dryer, so that the volume of the whole machine can be effectively controlled, and it can prevent secondary pollution and protect the adsorbent. The compressed air can have more time to contact with the adsorbent for deep adsorption drying. The design of the large capacity of the adsorption bed also further reduces the pressure drop of the combined dryer and reduces the loss of compressed air.

**The optional Internet of Things component enables remote monitoring of dryers through mobile phones or other networked display terminals.**

### SMD组合式干燥机额定工况：

压缩空气入口温度：15~65℃  
 环境温度：38℃，最高42℃  
 压缩空气压力：0.7MPa，最高1.0MPa（更高压力可定制）  
 工况下压力露点：-20℃~-40℃（可定制-70℃露点）  
 进气含油量：0.08ppm(0.1mg/m)  
 成品气含尘粒径：≤60μm  
 平均再和气流量：3%~5%额定处理气量  
 吸附剂：活性氧化铝（更高要求可用分子筛）  
 压力降：≤0.028Mpa（0.7MPa进气压力下）  
 再生方式：微热再生  
 工作方式：两塔30min或60min自动切换，连续工作  
 控制方式：30~60min可调  
 安装方式：室内，允许无基础安装

### Rated working conditions of SMD combined dryer:

Compressed air inlet temperature: 15~65℃  
 Ambient temperature: 38 C, maximum 42 C  
 Compressed air pressure: 0.7MPa, up to 1.0MPa (higher pressure can be customized)  
 Pressure dew point under working conditions: -20 C~-40 C (-70 C dew point can be customized)  
 Intake oil content: 0.08ppm (0.1mg/m)  
 Dust particle size of finished gas: 60μm  
 Average recombination gas flow: 3%~5% of rated gas volume  
 Adsorbent: activated alumina (molecular sieves are available for higher requirements)  
 Pressure drop: 0.028Mpa (under 0.7MPa inlet pressure)  
 Regeneration method: micro heat regeneration  
 Working mode: automatic switching between two towers for 30 minutes or 60 minutes, continuous work  
 Control mode: 30~60min adjustable  
 Installation method: indoor, allowing installation without foundation.

SMD微热吸附式干燥机 SMD Combined air Dryer	型号 Model	SMD01	SMD02	SMD03	SMD06	SMD08	SMD10	SMD12	SMD15	SMD20	SMD25	SMD30	SMD40	SMD50	SMD60	SMD80	SMD100	SMD120	SMD150	SMD200 ↑	
最大处理量 Max. air volume	m <sup>3</sup> /min	1.2	2.4	3.8	6.5	8.5	11.5	13.5	17	23	27	34	45	55	65	85	110	130	155		
电源 Power supply		220V/50Hz						380V/50HZ													
输入功率 Input power	KW	1.55	1.73	1.965	3.479	3.819	5.169	5.7	8.95	11.75	14.28	16.4	22.75	28.06	31.1	40.02	51.72	62.3	77.28		
空气管路连接 Air pipe connection		RC1"			RC1-1/2"		RC2"			DN65		DN80			DN100		DN125		DN150		DN200
整机重量 Total Weight	KG	181.5	229.9	324.5	392.7	377.3	688.6	779.9	981.2	1192.4	1562	1829.3	2324.3	2948	3769.7	4942.3	6367.9	7128	8042.1		
整机尺寸 Dimension	L*W*H	880*670 *1345	930*700 *1765	1030*800* 1500	1230*850* 1445	1360*1150* 2050	1360*1150* 2050	1480*1200* 2050	1600*1800* 2400	1700*1850* 2470	1800*1800* 2540	2100*2000* 2475	2250*2350* 2600	2360*2435* 2710	2500*2650* 2700	2720*2850* 2860	2900*3150* 2800	3350*3400* 3400	3350*3550* 3500		

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## SPD系列 模组式吸干机

模组式吸附干燥机具有外型美观结构合理、吸附材料优秀、控制简单、吸附效果好、压降损失小、安全性高、维护简单等特点。

吸附效果好：模组式吸附干燥机采用科学的流体分配设计，减缓了气体在吸附腔内的流速，增加了气体与分子筛的接触面积与时间，使吸附更为彻底。

压降损失小：增加了进、出气缓冲腔，使气流经由进、出气缓冲腔通过吸附腔形成对流，从而降低了压降占地面积小，重量轻，便于运输和安装，操作更加可视化，智能化，保养维护方便；采用模块结构，每根模筒小于30L，不属于压力容器，无需年检，安全，放心；只需双塔吸干机吸附剂的1/3，即可达到双倍的吸附效果，不会产生隧道效应。

超强吸附：采用复合型分子筛，吸附能力更强，能实现瞬时吸附，瞬时排放；

结构优势：采用铝合金材质，机体不会生锈，便于后期维护及更换零配件；

尺寸大小：单台机器可处理0.5m<sup>3</sup>/min-30m<sup>3</sup>/min的压缩空气，当遇到大流量空压机时，可并接叠加。

SPD模组式吸干机 SPD modular adsorption dryer	型号 Model	SPD-01	SPD-02	SPD-03
最大处理量 Max. air volume	m <sup>3</sup> /min	1.2	2.6	3.5
电源 Power supply		220V/50Hz		
输入功率 Input power	KW	0.2		
空气管路连接 Air pipe connection		RC1"		
整机重量 Total Weight	KG	42	55	72
整机尺寸 Dimension	L*W*H	332x340x805	332x340x1105	332x340x1405



## SPD Modular adsorption dryer

The modular adsorption dryer has the characteristics of beautiful appearance, reasonable structure, excellent adsorption material, simple control, good adsorption effect, small pressure drop loss, high safety and simple maintenance.

Good adsorption effect: the modular adsorption dryer adopts a scientific fluid distribution design, which slows down the flow rate of the gas in the adsorption chamber, increases the contact area and time between the gas and the molecular sieve.

Small pressure drop loss: The inlet and outlet buffer chambers are added, so that the air flow through the inlet and outlet buffer chambers passes through the adsorption chamber to form convection, thereby reducing the pressure drop.

Small footprint, light weight, easy to transport and install; The operation is more visualized, intelligent, and easy to maintain; Adopting a modular structure, each mold cylinder is 30L small, not a dry pressure vessel, no annual inspection, safe and secure; It only needs 1/3 of the adsorbent of the double-tower dryer to achieve double the adsorption effect, and there will be no tunnel effect.

Super adsorption: using compound molecular sieve, the adsorption capacity is stronger, and it can realize instantaneous adsorption and instantaneous discharge;

Structural advantages: aluminum alloy material, the body will not rust, which is convenient for later maintenance and replacement of spare parts;

Size: A single machine can handle compressed air of 0.5m<sup>3</sup>/min-30m<sup>3</sup>/min. When encountering large-flow air compressors, they can be stacked in parallel.

### SPD模组式吸干机额定工况：

压缩空气入口温度：2~45℃

压缩空气压力：0.7MPa，最高1.0MPa (SPD01~SPD03最高1.6MPa)

压力露点：-20℃

进气含油量：0.08ppm (0.1mg/m<sup>3</sup>)

成品气含尘粒径：≤60μm

平均再和气流流量：15%额定处理气量

吸附剂：活性氧化铝+分子筛

压力降：≤0.025MPa (0.7MPa进气压力下)

再生方式：常温再生

工作方式：两塔4min或10min自动切换，连续工作

控制方式：循环周期4~10min可调

安装方式：室内，允许无基础安装

### Rated working condition of SPD Modular adsorption dryer:

Compressed air inlet temperature: 2~45℃

Compressed air pressure: 0.7MPa, up to 1.0MPa (SPD01~SPD03 can reach 1.6MPa)

Pressure dew point: -20 C

Intake oil content: 0.08ppm (0.1mg/m<sup>3</sup>)

Dust particle size of finished gas: 60μm

Average recombination gas flow: 15% of rated gas flow

Adsorbent: activated alumina+molecular sieve

Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)

Regeneration method: normal temperature regeneration

Working mode: automatic switching between two towers in 4min or 10min, continuous work

Control mode: cycle 4~10min adjustable

Installation method: indoor, allowing installation without foundation

## SPD系列 模组式吸干机

模组式吸附干燥机具有外型美观结构合理、吸附材料优秀、控制简单、吸附效果好、压降损失小、安全性高、维护简单等特点。

吸附效果好：模组式吸附干燥机采用科学的流体分配设计，减缓了气体在吸附腔内的流速，增加了气体与分子筛的接触面积与时间，使吸附更为彻底。

压降损失小：增加了进、出气缓冲腔,使气流经由进、出气缓冲腔通过吸附腔形成对流，从而降低了压降占地面积小，重量轻，便于运输和安装，操作更加可视化，智能化，保养维护方便；采用模块结构，每根模筒小于30L，不属于压力容器，无需年检，安全，放心；只需双塔吸干机吸附剂的1/3，即可达到双倍的吸附效果，不会产生隧道效应。

超强吸附：采用复合型分子筛，吸附能力更强，能实现瞬时吸附，瞬时排放；

结构优势：采用铝合金材质，机体不会生锈，便于后期维护及更换零配件；

尺寸大小：单台机器可处理0.5m<sup>3</sup>/min-30m<sup>3</sup>/min的压缩空气，当遇到大流量空压机时，可并接叠加。



SPD模组式吸干机 SPD modular adsorption dryer	型号 Model	SPD-06	SPD-10	SPD-13	SPD-15	SPD-20	SPD-25	SPD-28	SPD-35	SPD-40	SPD-50	SPD-55	SPD-60
最大处理量 Max. air volume	m <sup>3</sup> /min	7	10.5	14	17.5	21	25	28	35	42	50	55	63
电源 Power supply		220V/50Hz											
输入功率 Input power	KW	0.2											
空气管路连接 Air pipe connection		RC1-1/2"	RC2"			RC2-1/2"		DN80		DN100		DN125	
整机重量 Total Weight	KG	155	212	270	325	385	440	500	670	770	880	1000	1160
整机尺寸 Dimension	L*W*H	695x445x1600	857x445x1600	1020x445x1600	1180x445x1600	1343x445x1600	1505x445x1600	1667x445x1600	1990x445x1600	2315x445x1600	2640x445x1600	2970x445x1600	3287x445x1600

## SPD Modular adsorption dryer

The modular adsorption dryer has the characteristics of beautiful appearance, reasonable structure, excellent adsorption material, simple control, good adsorption effect, small pressure drop loss, high safety and simple maintenance.

Good adsorption effect: the modular adsorption dryer adopts a scientific fluid distribution design, which slows down the flow rate of the gas in the adsorption chamber, increases the contact area and time between the gas and the molecular sieve.

Small pressure drop loss: The inlet and outlet buffer chambers are added, so that the air flow through the inlet and outlet buffer chambers passes through the adsorption chamber to form convection, thereby reducing the pressure drop.

Small footprint, light weight, easy to transport and install; The operation is more visualized, intelligent, and easy to maintain; Adopting a modular structure, each mold cylinder is 30L small, not a dry pressure vessel, no annual inspection, safe and secure; It only needs 1/3 of the adsorbent of the double-tower dryer to achieve double the adsorption effect, and there will be no tunnel effect.

Super adsorption: using compound molecular sieve, the adsorption capacity is stronger, and it can realize instantaneous adsorption and instantaneous discharge;

Structural advantages: aluminum alloy material, the body will not rust, which is convenient for later maintenance and replacement of spare parts;

Size: A single machine can handle compressed air of 0.5m<sup>3</sup>/min-30m<sup>3</sup>/min. When encountering large-flow air compressors, they can be stacked in parallel.

### SPD模组式吸干机额定工况：

压缩空气入口温度：2~45℃

压缩空气压力：0.7MPa，最高1.0MPa (SPD01~SPD03最高1.6MPa)

压力露点：-20℃

进气含油量：0.08ppm(0.1mg/m<sup>3</sup>)

成品气含尘粒径：≤60μm

平均再和气流流量：15%额定处理气量

吸附剂：活性氧化铝+分子筛

压力降：≤0.025MPa(0.7MPa进气压力下)

再生方式：常温再生

工作方式：两塔4min或10min自动切换，连续工作

控制方式：循环周期4~10min可调

安装方式：室内，允许无基础安装

### Rated working condition of SPD Modular adsorption dryer:

Compressed air inlet temperature: 2~45℃

Compressed air pressure: 0.7MPa, up to 1.0MPa (SPD01~SPD03 can reach 1.6MPa)

Pressure dew point: -20 C

Intake oil content: 0.08ppm (0.1mg/m<sup>3</sup>)

Dust particle size of finished gas: 60μm

Average recombination gas flow: 15% of rated gas flow

Adsorbent: activated alumina+molecular sieve

Pressure drop: 0.025MPa (under 0.7MPa inlet pressure)

Regeneration method: normal temperature regeneration

Working mode: automatic switching between two towers in 4min or 10min, continuous work

Control mode: cycle 4~10min adjustable

Installation method: indoor, allowing installation without foundation

## SOY系列 精密过滤器及滤芯

精密过滤器通过拦截、惯性、扩散、重力等作用，有效地去除压缩空气中含有的水份、尘粒、油雾等杂质，从而使压缩空气洁净干燥，提升成品气质量。

C级，主管路过滤器，多用于空压机、后部冷却器之后或冷冻式干燥机之前，能滤除大量液体及3um以上的固态颗粒，达到最低残留油分含量仅5ppm。

T级，除尘过滤器，多用于工具、机械、马达、气缸等设备A级过滤器之前或吸附式干燥机之后，能滤除小至1 μ m的液体及固态颗粒，达到最低残留油分0.5ppm。

A级，超高效除油过滤器，多用于干吸附式干燥机上游或冷冻式干燥机下游，能滤除小至0.01um的液体及固态颗粒，达到最低残留油分含量仅0.01ppm，切记一定要在上游加装T级空气管路过滤器以保护之。

H级，活性炭微油雾过滤器，多用于净化食品、药品、呼吸用气体，能滤除小至0.01 μ m的油雾及碳氢化合物，达到最低残留油分含量仅0.003ppm，切记一定要在上游加装A级超高效除油过滤器以保护之。

### 技术参数

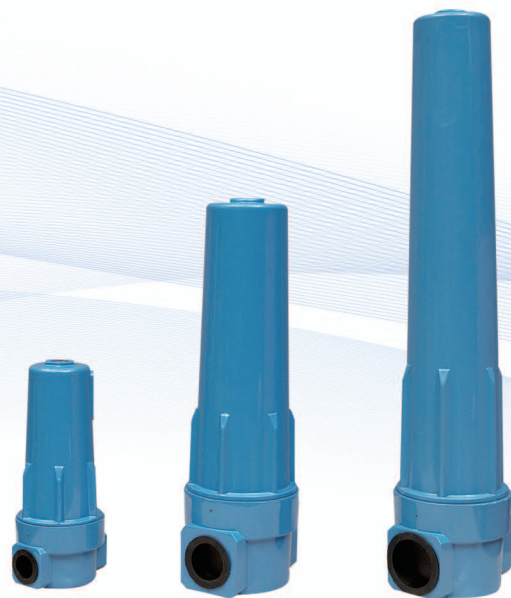
型号 Model	处理量 Nm <sup>3</sup> /min Processing capacity	接口规格 Interface specification	最大工作压力Bar Maximum working pressure
SOY-001	1.2	G1/2"~1"	10
SOY-002	2.4		
SOY-004	3.8	G1"~1-1/2"	
SOY-005	5		
SOY-007	7	G1-1/2"~2"	
SOY-010	11		
SOY-013	13	G2"	
SOY-015	17	G2"	
SOY-020	22	G2"或DN65	
SOY-025	26	DN80	
SOY-030	35	DN80	
SOY-040	45	DN100	
SOY-050	55	DN125	
SOY-060	66		
SOY-080	88		

注:

- 1.最高工作压力:≤1.0Mpa
- 2.使用流体温度:C、T、A级66°C，H级50°C
- 3.初始压降:0.01 MPa
- 4.最大允许压降:0.07 Mpa
- 5.使用寿命:C、T、A达8000小时，H级1000小时
- 6.联接方式:0.5-12系列为锥管内螺纹，13以上系列为法兰

Note:

1. Maximum working pressure: ≤ 1.0Mpa
2. Fluid temperature: Class C, T, A 66°C, Class H 50°C
3. Initial pressure drop: 0.01 MPa
4. Maximum allowable pressure drop: 0.07 Mpa
5. Service life: C, T, A up to 8000 hours, H class 1000 hours
6. Connection method: 0.5-12 series are tapered pipe internal threads, and 13 and above series are flanges



## SOY series precision air filter

The precision filter effectively removes impurities such as moisture, dust particles, and oil mist contained in the compressed air through the functions of interception, inertia, diffusion, and gravity, so as to make the compressed air clean and dry, and improve the quality of the finished gas.

"Class C, main line filter, mostly used after air compressor, after cooler or before freeze dryer, can filter out a large amount of liquid and more than 3um solid particles, the lowest residual oil content is only 5ppm."

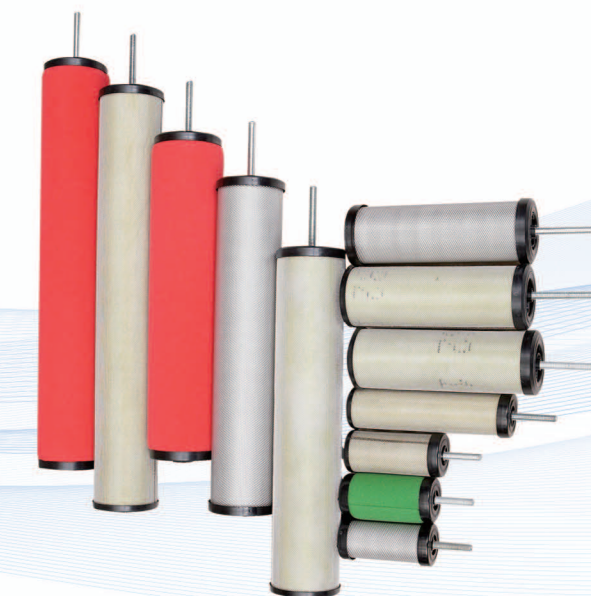
Class T, dust removal filter, mostly used in tools, machinery, motors, cylinders and other equipment and before A-class filters or after adsorption dryers, can filter out liquid and solid particles as small as 1μm, and achieve a minimum residual oil content of 0.5ppm.

Class A, ultra-high-efficiency oil removal filter, mostly used upstream of dry adsorption dryer or downstream of refrigerated dryer, can filter out liquid and solid particles as small as 0.01um, and achieve the lowest residual oil content of only 0.01ppm. Install a T-class air line filter upstream to protect it.

Class H, activated carbon micro-oil mist filter, mostly used to purify food, medicine, and breathing gas, can filter out oil mist and hydrocarbons as small as 0.01μm, and achieve the lowest residual oil content of only 0.003ppm, remember to be in the upstream Install a grade A ultra-high efficiency degreasing filter to protect it.

### 滤芯过滤精度等级

等级 grade	C	T	A	H
作用 effect	预过滤 pre-filter	精过滤 fine filtration	超精过滤 ultra fine filtration	除味活性炭过滤 Activated carbon filter for deodorization
粒径 particle size	≤3 μ m	≤1 μ m	≤0.01 μ m	≤0.01 μ m
残油 residual oil	≤5ppm	≤0.5ppm	≤0.01ppm	≤0.003ppm



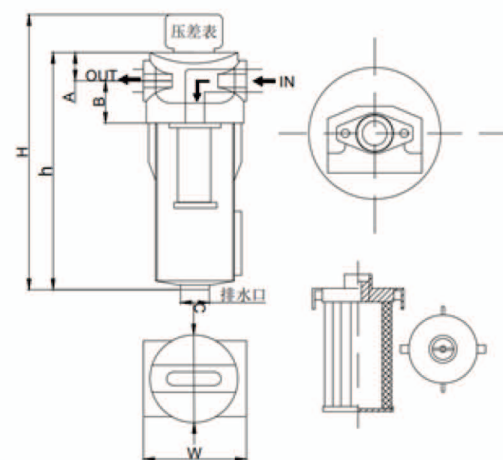
## TRF系列

### 精密过滤器--高效去除压缩空气污染物

TRF系列超精密过滤器为用户提供高质量的压缩空气过滤，专用于激光切割、吹瓶、高级喷涂、食品、电子、石化等行业。通过安装TRF系列超精密过滤器可以使压缩机空气污染物（如：油、水、尘、等）得到有效的去除。

#### 产品选型/Product selection

过滤器型号 Filter model	流量m³/M Flow m³/M	接口Interface c	滤芯型号 Type of filter element	h(高)	W(宽)	A	B
TRF-005*	0.7	1/2"	TRF-005*	165	74	22	42
TRF-01*	1.2	1/2" 3/4" 1"	TRF-010*	240	95	32	51
TRF-02*	2.4	1/2" 3/4" 1"	TRF-020*	280	95	32	51
TRF-04*	3.6	1-1/2"	TRF-030*	302	125	38	65
TRF-06*	6.5	1-1/2"	TRF-050*	421	125	38	65
TRF-08*	8.5	1-1/2"	TRF-070*	421	125	38	65
TRF-10*	11.6	2"	TRF-110*	550	170	46	82
TRF-15*	17	2"	TRF-150*	550	170	46	82
TRF-20*	23	2-1/2"	TRF-200*	640	205	60	100
TRF-25*	27	2-1/2"	TRF-250*	640	205	60	100
TRF-30*	33	3"	TRF-300*	792	205	60	100
TRF-40*	45	4"	TRF-400*	840	208	85	110



## TRF

### Precision Filter -- Efficient Removal Of Pollutants In Compressed Air

TRF series ultra-clean precision filters provide users with high-quality compressed air filtration, which is specially used in laser cutting, bottle blowing, advanced spraying, food, electronics, petrochemical and other industries. By installing TRF series ultra-clean precision filters, compressor air pollutants (such as oil, water, dust, etc.) can be effectively removed.

#### \*代表过滤级别

C级过滤精度: 3 μm, 含油量: 3ppm

T级过滤精度: 1 μm, 含油量: 1ppm

A级过滤精度: 0.01 μm, 含油量: 0.01ppm

X级过滤精度: 0.01 μm, 含油量: 0.003ppm

H级(活性炭)过滤精度: 0.01 μm,  
含油量: 0.001ppm

F级高效除尘: 过滤精度0.1 μm

FF级超高效除尘: 过滤精度0.01 μm

#### \* represents the filter level

Level C filtration accuracy: 3 microns, oil content: 3 ppm

Level T filtration accuracy: 1 micron, oil content: 1 ppm

Level A filtration accuracy: 0.01 micron, oil content: 0.01 ppm

Level X filtration accuracy: 0.01 micron, oil content: 0.003 ppm

Level H (activated carbon) filtration accuracy: 0.01 micron,  
Oil content: 0.001ppm

Level F high efficiency dust removal: filtration accuracy 0.1 micron

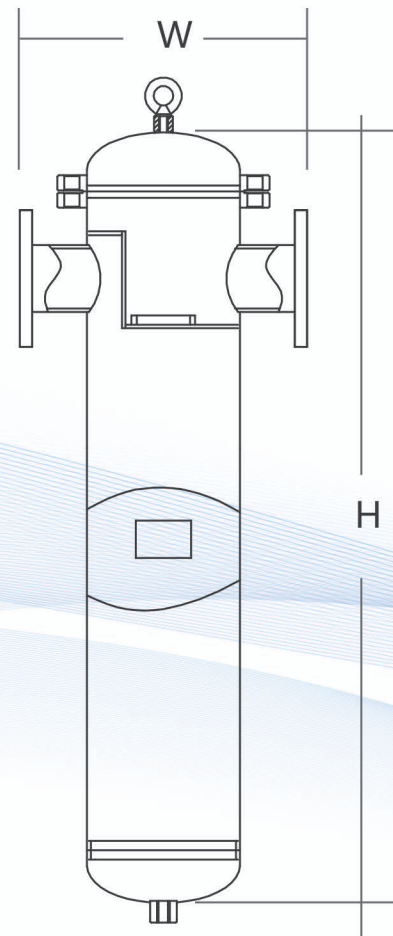
Level FF super efficient dust removal: filtration accuracy 0.01 micron

**TRF系列**  
法兰精密过滤器

法兰精密过滤器具有纳污能力高、耐腐蚀性强、耐温好、流量大、操作方便、使用寿命长、没有纤维脱落等诸多特点。

产品选型/Product selection

过滤器型号 Filter model	流量m³/M Flow m³/M	接口 Interface	滤芯型号 Type of filter element	滤芯数量 Quantity	W(宽)	H(高)	桶径 Barrel diameter
TRF*-20	23	DN65	E*-44	1	353	950	133
TRF*-25	27	DN80	E*-48	1	353	1110	133
TRF*-30	35	DN80	61040*	2	465	1009	245
TRF*-40	45	DN100	61044*	2	465	1159	245
TRF*-50	55	DN100	61044*	3	500	1194	273
TRF*-60	65	DN125	61044*	3	500	1194	273
TRF*-80	85	DN125	61044*	4	565	1290	325
TRF*-100	110	DN150	61044*	5	617	1305	377
TRF*-120	130	DN150	61044*	6	726	1353	426
TRF*-150	160	DN200	61044*	8	780	1419	500
TRF*-200	220	DN200	61048*	9	800	1560	500
TRF*-250	260	DN250	61048*	12	860	1570	560
TRF*-300	320	DN250	61048*	14	950	1730	650



**TRF**  
series Flange precision filter

Flanged precision filter has many characteristics such as high pollution capacity, corrosion resistance, good temperature resistance, large flow, easy to operate, long service life, and no fiber shedding.

产品功能/product Functions

用于滤除压缩空气中的杂质，采用了多层不同的过滤材质，其中包含了硼矽酸盐层、玻璃纤维层，活性炭纤维层，多层不织布层及不锈钢网层。通过多层过滤，达到无油、无杂质的高品质压缩空气。

\*代表过滤级别

C级过滤精度：3 μm，含油量：3ppm  
 T级过滤精度：1 μm，含油量：1ppm  
 A级过滤精度：0.01 μm，含油量：0.01ppm  
 X级过滤精度：0.01 μm，含油量：0.003ppm  
 H级（活性炭）过滤精度：0.01 μm，含油量：0.001ppm  
 F级高效除尘：过滤精度0.1 μm  
 FF级超高效除尘：过滤精度0.01 μm  
 特殊图纸：可定做

Multi-layer different filtration materials are used to filter impurities in compressed air, including borosilicate layer, glass fiber layer, activated carbon fiber layer, multi-layer non-woven layer and stainless steel mesh layer. Through multi-layer filtration, the high quality compressed air without oil and impurity is achieved.

\* represents the filter level

Level C filtration accuracy: 3 microns, oil content: 3 ppm  
 Level T filtration accuracy: 1 micron, oil content: 1 ppm  
 Level A filtration accuracy: 0.01 micron, oil content: 0.01 ppm  
 Level X filtration accuracy: 0.01 micron, oil content: 0.003 ppm  
 Level H (activated carbon) filtration accuracy: 0.01 micron, Oil content: 0.001ppm  
 Level F high efficiency dust removal: filtration accuracy 0.1 micron  
 Level FF super efficient dust removal: filtration accuracy 0.01 micron  
 Special drawing: Customizable

## TRSF系列 不锈钢精密过滤器 (1.6Mpa)

壳体采用304不锈钢制造，内外表层镜面抛光处理，防腐蚀，阻力小，广泛用于各种工业气体的过滤应用及气体的除菌处理，如半导体、冶金、医疗、制药、及食品化工业等。

### 产品选型/Product selection

过滤器型号 Filter model	流量m³/M Flow m³/M	滤芯数量 Number of filter elements	进出口(螺纹法兰) Import and Export (Threaded Flange)	H(高)	W(宽)	桶径 Barrel diameter
TRSF-01*	1.2	1	1"	364	150	76
TRSF-02*	2.4	1	1"	364	150	76
TRSF-04*	3.6	1	1-1/2"	402	160	89
TRSF-06*	6.5	1	1-1/2"	572	160	89
TRSF-08*	8.5	1	1-1/2"	572	160	89
TRSF-10*	11	1	2"	710	210	102
TRSF-15*	17	1	DN65	710	260	133
TRSF-20*	23	1	DN65	1000	340	133
TRSF-25*	27	1	DN65	950	380	159
TRSF-30*	35	1	DN80	1150	380	159
TRSF-40*	45	1	DN100	1150	380	159



## TRSF series stainless steel precision filter

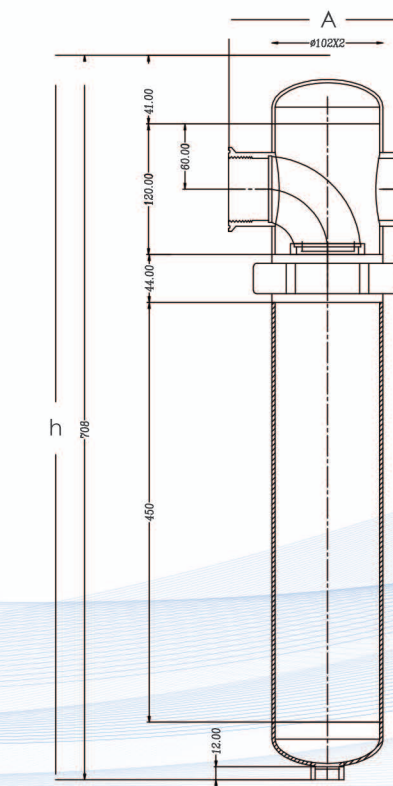
The sterilizing filter is mainly composed of a micro filter element with a large specific surface area and a filtration The shell is made of 304 stainless steel, and the inner and outer surfaces are mirror polished, with anti-corrosion and low resistance; it is widely used for filtering and sterilizing various industrial gases, such as semiconductor, metallurgy, medical, pharmaceutical and food chemical industries.

### \*代表过滤级别

C级过滤精度: 3 μm, 含油量: 3ppm  
 T级过滤精度: 1 μm, 含油量: 1ppm  
 A级过滤精度: 0.01 μm, 含油量: 0.01ppm  
 X级过滤精度: 0.01 μm, 含油量: 0.003ppm  
 H级(活性炭)过滤精度: 0.01 μm, 含油量: 0.001ppm  
 F级高效除尘: 过滤精度0.1 μm  
 FF级超高效除尘: 过滤精度0.01 μm  
 特殊图纸: 可定做

### \* represents the filter level

Level C filtration accuracy: 3 microns, oil content: 3 ppm  
 Level T filtration accuracy: 1 micron, oil content: 1 ppm  
 Level A filtration accuracy: 0.01 micron, oil content: 0.01 ppm  
 Level X filtration accuracy: 0.01 micron, oil content: 0.003 ppm  
 Level H (activated carbon) filtration accuracy: 0.01 micron,  
 Oil content: 0.001ppm  
 Level F high efficiency dust removal: filtration accuracy 0.1 micron  
 Level FF super efficient dust removal: filtration accuracy 0.01 micron  
 Special drawing: Customizable

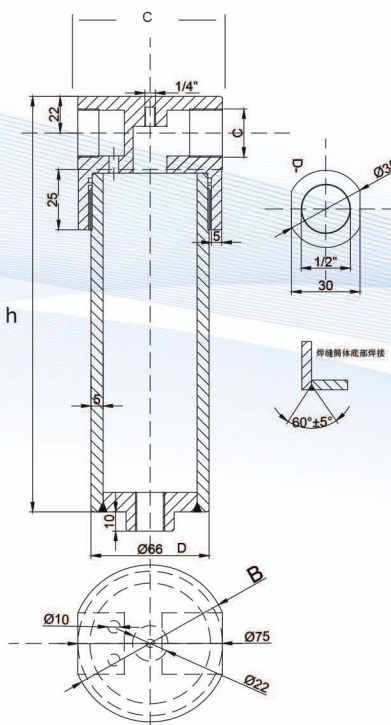


## TRHF系列 碳钢高压精密过滤器 (2.0~8.0Mpa)

适用于滤去4.0Mpa以下的压缩空气的固态和液态杂质，高压气体精密过滤器采用精密度制造工艺，充分考虑了高压技术的要求。由高等级304、316L不锈钢与专用镀层碳钢制成可提供25、5、1和0.01um及活性炭过滤等级性能滤芯，满足客户各种特殊要求，应用空气动力学原理进行设计，确保将过滤介质压降降到最低。

### 产品选型/Product selection

过滤器型号 Filter model	流量m³/M Flow m³/M	接口 Interface	净重 Net weight (kg)	h(高)	C(直径)	D(排污口) Sewage outlet
TRHF-01*	1.2	1/2" 3/4" 1"	3.5	230mm	80mm	1/2
TRHF-02*	2.4	1/2" 3/4" 1"	3.7	230mm	80mm	1/2
TRHF-04*	3.6	1"	5.7	260mm	106mm	1/2
TRHF-06*	6.5	1-1/2"	12.8	405mm	115mm	1/2
TRHF-08*	8.5	1-1/2"	14.9	505mm	115mm	1/2
TRHF-10*	11	1-1/2"	22	620mm	115mm	1/2
TRHF-12*	13	2"	25	620mm	140mm	1/2



## TRHF series carbon steel high pressure precision filter

It is suitable for filtering solid and liquid impurities from compressed air below 4.0Mpa. High pressure gas precision filter is made by use of precision manufacturing process, and the requirements of high pressure technology are fully considered. The filter element made of high-grade 304, 316L stainless steel and special coating carbon steel can be provided with 25, 5, 1 and 0.01um and activated carbon filter performance, to meet various special requirements of customers; it is designed by application of the principle of aerodynamics to ensure that the filter medium pressure drops to the minimum.

### \*代表过滤级别

C级过滤精度: 3 μ m, 含油量: 3ppm  
 T级过滤精度: 1 μ m, 含油量: 1ppm  
 A级过滤精度: 0.01 μ m, 含油量: 0.01ppm  
 X级过滤精度: 0.01 μ m, 含油量: 0.003ppm  
 H级(活性炭)过滤精度: 0.01 μ m  
 含油量: 0.001ppm  
 F级高效除尘: 过滤精度0.1 μ m  
 FF级超高效除尘: 过滤精度0.01 μ m

### 技术参数

材料: 碳钢  
 过滤器口径: DN15-DN50  
 工作介质: 压缩空气  
 工作温度: ≤80°C  
 工作压力: 2.0-8.0Mpa  
 过滤精度: 3-0.01 μ m  
 特殊图纸: 可定做

### \* represents the filter level

Level C filtration accuracy: 3 microns, oil content: 3 ppm  
 Level T filtration accuracy: 1 micron, oil content: 1 ppm  
 Level A filtration accuracy: 0.01 micron, oil content: 0.01 ppm  
 Level X filtration accuracy: 0.01 micron, oil content: 0.003 ppm  
 Level H (activated carbon) filtration accuracy: 0.01 micron,  
 Oil content: 0.001ppm  
 Level F high efficiency dust removal: filtration accuracy 0.1 micron  
 Level FF super efficient dust removal: filtration accuracy 0.01 micron

### Technical parameter

Material: carbon steel  
 Diameter of filter: DN15-DN50  
 Working medium: compressed air  
 Operating temperature: 80°C  
 Working pressure: 2.0-8.0Mpa  
 Filtering accuracy: 3-0.01 μ m  
 Special drawing: Customizable

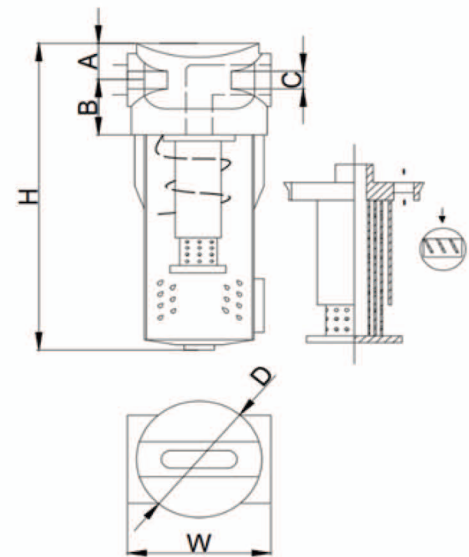


## SQS系列 高效旋风式气水分离器

在压缩空气过滤器和干燥设备之前安装气水分离器可以去除99%的液态水，使下游净化设备发挥更好的效能。益能气水分离器独特的双段旋风分离设计，使之比传统的气水分离器水效果更高。气水分离器可选择的安装位置在空气压缩机，在后部冷却器前，在储气罐后。

### 产品选型/Product selection

过滤器型号 Filter model	流量m³/M Flow m³/M	接口 Interface	H(高)	W(宽)	A	B
SQS01	0.6-2	3/4"	235	95	32	51
SQS02	3.0-5.0	1"	276	95	32	51
SQS03	6.0-8.0	1-1/2"	302	125	38	65
SQS05	9.0-15.0	1-1/2"	420	125	38	65
SQS10	16.0-30.0	2"	545	170	46	82
SQS15	30-40	2-1/2"	640	205	60	100
SQS20	40-50	3"	792	205	60	100

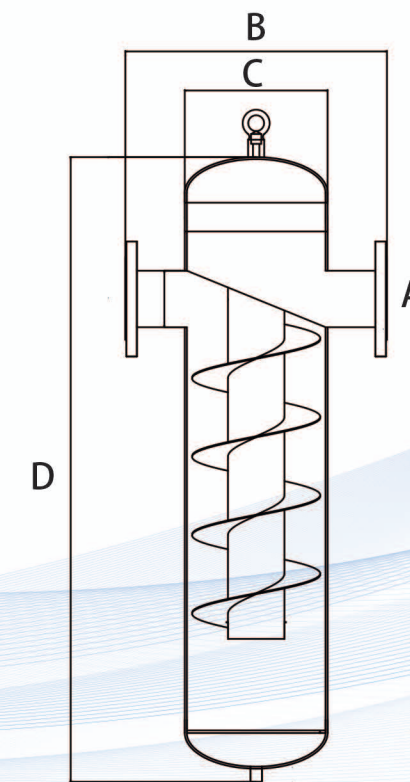


## SQS High-efficiency cyclone air-water separator

An air-water separator installed in front of the compressed air filter and drying equipment can remove 99% of the liquid water, making downstream purification equipment more efficient. The unique two-stage cyclone separation design of Yineng air-water separator makes it more effective than the traditional air-water separator. The optional installation position of the air-water separator is in the air compressor, in front of the rear cooler, and behind the gas storage tank.

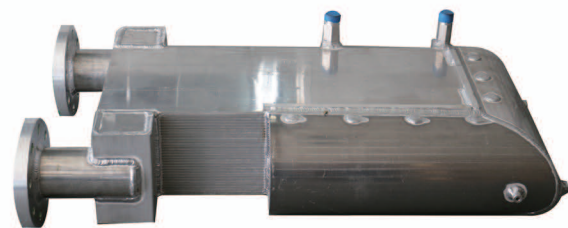
### 法兰旋风式汽水分离器 产品选型/Product selection

过滤器型号 Filter model	流量m³/M Flow m³/M	接口 A	桶体 B	宽 W	长 H
SQS-30FL	30-40	DN80	219	465	1010
SQS-40FL	40-60	DN100	219	465	1160
SQS-60FL	60-80	DN125	273	500	1195
SQS-80FL	80-100	DN150	325	565	1290
SQS-100FL	100-180	DN200	426	726	1533
SQS-180FL	180-260	DN250	500	860	1469
SQS-260FL	260-350	DN300	650	950	1728

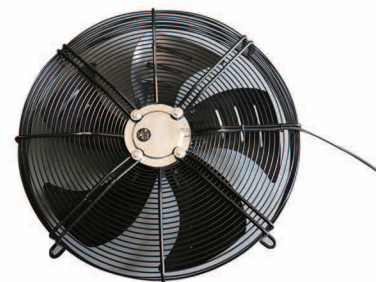


## 配件类

Accessories



板式换热器 Plate heat exchanger



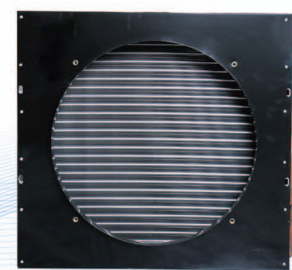
风机 fan



转子压缩机 rotary compressor



涡旋压缩机 scroll compressor



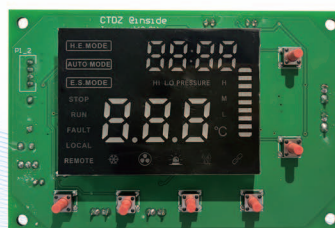
冷凝器 condenser



电排 electric drain



浮球排 Float volleyball



变频控制器 variable frequency inverter



冷干机控制器 Refrigeration dryer controller



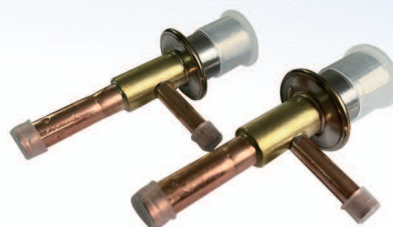
活性氧化铝 Activated alumina



分子筛 molecular sieve



蝶阀 Butterfly Valves



膨胀阀 Expansion Valve

## 压缩空气净化设备常用数据资料

Common data of compressed air purification equipment

ISO 8573.1 《一般用压缩空气 第一部分：污染物和质量等级》划分的压缩空气质量等级

ISO 8573.1 "Compressed air for general use Part 1: Pollutants and quality grades" Compressed air quality grades

固体粒子等级 Solid Particle Grade	最大粒子尺寸 <sup>1)</sup> particle size μm	最大粒子浓度 <sup>2)</sup> Maximum Particle Concentration mg/m <sup>3</sup>	水份等级 moisture level	最大压力露点 Maximum pressure dew point °C	总油量等级 total oil volume grade	最大含油量 <sup>1)</sup> (油滴、悬浮微滴和蒸汽) mg/m <sup>3</sup> oil content1) (oil droplets, aerosols and steam) mg/m <sup>3</sup>
1	0.1	0.1	1	-70	1	0.01
2	1	1	2	-40	2	0.1
3	5	5	3	-20	3	1
4	15	8	4	+3	4	5
5	50	10	5	+7	5	25
			6	+10		
			7	不规定		

1) 粒子尺寸基于过滤比 β=20;

2) 粒子浓度对应于绝对压力 1bar, 温度 20°C, 相对蒸汽压力 0.6。应注意, 压力高于大气压时, 污染物浓度会相应升高, 应对测量方法给予说明。

1) The particle size is based on the filtration ratio β=20;

2) The particle concentration corresponds to an absolute pressure of 1 bar, a temperature of 20°C, and a relative vapor pressure of 0.6. It should be noted that when the pressure is higher than atmospheric pressure, the concentration of pollutants will increase correspondingly, and the measurement method should be explained.

1) 当需要更低露点时, 必须特别注明;

2) 允许的最大含水量随预期压缩空气用途而变化;

3) 所用测量方法的最低精度见 ISO7183。

1) When a lower dew point is required, it must be specified;

2) The maximum allowable moisture content varies with the intended use of compressed air;

3) See ISO7183 for the minimum precision of the measurement method used.

1) 含油量对应于绝对压力 1bar, 温度 20°C, 相对蒸汽压力 0.6;

2) 无油润滑压缩机排出的空气质量受吸入空气质量和压缩机结构的影响;

3) 所用测量方法最低精度为所在等级限定值的 20%。

1) The oil content corresponds to an absolute pressure of 1 bar, a temperature of 20°C, and a relative vapor pressure of 0.6;

2) The air quality discharged by the oil-free lubricated compressor is affected by the quality of the inhaled air and the structure of the compressor;

3) The minimum accuracy of the measurement method used is 20% of the limit value of the grade.

**压力露点与大气露点相互对应数据**

Corresponding data between pressure dew point and atmospheric dew point

**一、由压力露点和空气压力查大气露点**

Check atmospheric dew point by pressure dew point and air pressure

压力露点 pressure dew point °C	air pressure 空气压力 MPa (绝压 absolute pressure)						
	0.4	0.5	0.6	0.7	0.8	0.9	1.0
-70	-78.8	-80.2	-81.3	-82.2	-83.0	-83.7	-84.3
-60	-69.7	-71.2	-72.4	-73.4	-74.3	-75.0	-75.7
-50	-60.6	-62.2	-63.6	-64.7	-65.6	-66.4	-67.1
-40	-51.6	-53.3	-54.7	-55.9	-56.9	-57.8	-58.6
-30	-42.5	-44.4	-46.0	-47.3	-48.4	-49.3	-50.2
-20	-33.6	-35.6	-37.3	-38.7	-39.8	-40.9	-41.8
-10	-24.6	-26.8	-28.6	-30.1	-31.4	-32.5	-33.5
0	-15.7	-18.1	-20.0	-21.6	-23.0	-24.2	-25.2
10	-7.70	-9.50	-12.5	-14.2	-15.7	-16.9	-18.0

**二、由大气露点查相应压力下的压力露点**

Check the pressure dew point under the corresponding pressure from the atmospheric dew point

大气露点°C atmospheric dew point	air pressure 空气压力MPa(绝压absolute pressure)						
	0.4	0.5	0.6	0.7	0.8	0.9	1.0
-100	-93.0	-91.8	-90.8	-90.0	-89.3	-88.6	-88.0
-90	-82.2	-81.5	-79.7	-78.8	-78.0	-77.2	-76.6
-80	-71.3	-69.8	-68.6	-67.5	-66.6	-65.8	-65.0
-70	-61.7	-58.7	-57.3	-56.1	-55.1	-54.2	-53.4
-60	-49.4	-47.2	-46.0	-44.7	-43.5	-42.5	-41.6
-50	-38.3	-36.3	-34.6	-33.2	-31.9	-30.8	-29.8
-40	-27.2	-25.0	-23.3	-21.6	-20.2	-19.0	-17.9
-30	-16.1	-13.6	-11.6	-9.9	-8.10	-7.00	-5.70
-20	-4.80	-2.20	0.00	2.20	4.00	5.70	7.20
-10	7.30	10.6	13.4	15.8	17.9	19.8	21.5
0	20.5	24.2	27.2	29.9	32.2	34.3	36.2
10	32.3	36.3	39.7	42.4	45.2	47.5	49.6

大气露点-水分含量关系表

Atmospheric dew point-moisture content relationship table

露点 °C dew point	水分含量 moisture content g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>	露点 °C dew point	水分含量 g/m <sup>3</sup>
89	404.9	69	189.0	49	78.9	29	28.7	9	8.32	-11	2.18	-31	0.409	-51	0.054
88	389.7	68	181.6	48	75.3	28	27.2	8	8.27	-12	2.02	-32	0.373	-52	0.049
87	375.9	67	174.2	47	71.8	27	25.7	7	7.75	-13	1.87	-33	0.340	-53	0.043
86	362.5	66	167.3	46	68.5	26	24.3	6	7.26	-14	1.73	-34	0.309	-54	0.038
85	349.9	65	160.5	45	65.3	25	23.0	5	6.80	-15	1.60	-35	0.281	-55	0.034
84	337.2	64	153.9	44	62.2	24	21.8	4	6.14	-16	1.48	-36	0.255	-56	0.030
83	325.3	63	147.6	43	59.2	23	20.6	3	5.95	-17	1.36	-37	0.232	-57	0.027
82	313.3	62	141.5	42	56.4	22	19.4	2	5.56	-18	1.26	-38	0.210	-58	0.024
81	301.7	61	135.6	41	53.6	21	18.3	1	5.19	-19	1.10	-39	0.190	-59	0.021
80	290.8	60	129.8	40	51.0	20	17.3	0	4.85	-20	1.067	-40	0.172	-60	0.019
79	280.0	59	124.4	39	48.5	19	16.3	-1	4.52	-21	0.982	-41	0.156	-61	0.017
78	269.7	58	119.1	38	46.1	18	15.4	-2	4.22	-22	0.903	-42	0.141	-62	0.015
77	259.4	57	114.0	37	43.8	17	14.5	-3	3.93	-23	0.829	-43	0.127	-63	0.013
76	249.6	56	108.9	36	41.6	16	13.6	-4	3.66	-24	0.761	-44	0.114	-64	0.011
75	240.2	55	104.2	35	39.5	15	12.8	-5	3.40	-25	0.698	-45	0.103	-65	0.0099
74	231.1	54	99.5	34	37.5	14	12.1	-6	3.16	-26	0.640	-46	0.093	-66	0.0087
73	222.1	53	95.2	33	35.6	13	11.3	-7	2.94	-27	0.586	-47	0.083	-67	0.0076
72	213.4	52	90.0	32	33.8	12	10.6	-8	2.73	-28	0.536	-48	0.075	-68	0.0067
71	204.9	51	88.9	31	32.0	11	10.0	-9	2.54	-29	0.490	-49	0.067	-69	0.0058
70	197.0	50	82.9	30	30.3	10	9.40	-10	2.25	-30	0.448	-50	0.060	-70	0.0051

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