



## 东莞市定元实业有限公司

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**DINGYUAN  
INDUSTRIAL**

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# Company Profile

## 公司简介

1990年，东莞市定元实业有限公司在东莞市常平镇成立，是一家专业做工业冷水机的生产厂家，1998年成立香港定元实业有限公司，自主研发，生产，销售，服务为一体的现代化高科技公司，定元一直通过不断改造和提高产品质量，积累多年的设计和生产经验，奠定了优质产品的坚实基础，定元锐意进取，不断创新，重信守诺。赢得了国内外老客户的一致好评，使得定元产品广泛的服务于塑胶，电子，电镀，激光，食品，纺织，化工，包装，医药等行业。

1995年，东莞定元公司的企业精神，始终坚持“以质量求生存，以科技为创新，以市场为导向，以服务求发展”的宗旨，将定元公司未来发展推向了新的高度。定元公司懂得要想金融危机过后实现快速发展，就必须积极实施质量+品牌+标准化战略，依靠自主研发加创新。

定元的主导产品工业冷水机，水冷冷水机、水冷工业冷水机、风冷冷水机、风冷工业冷水机、螺杆式冷水机、螺杆式风冷冷水机、除湿机、干燥机、除湿机系列、欧化除湿干燥机、料斗除湿干燥机系列、模具控温机、模温机、运油式模温机、运水式模温机系列、全自动吸料、强力破碎机、塑胶破碎机、塑料破碎机、强力粉碎机系列、混色机、塑料混色机、搅拌机、大吨位混料机、大吨位混色机、立式混色机、横卧式混色机系列、工业冷却塔、高温冷却塔、高温工业冷却塔、逆流水塔及安装工程等。

In 1990, Dongguan Dingyuan Industrial Co., Ltd. was established in Changping Town, Dongguan City. It is a professional manufacturer of industrial chillers. In 1998, Hong Kong Dingyuan Industrial Co., Ltd. was established. Its independent research and development, production, sales, and service as one of the modern high-tech. The company has always been through continuous transformation and improvement of product quality, accumulated many years of design and production experience, and laid a solid foundation for high-quality products. The company is determined to forge ahead and innovate continuously. It honors the promise and wins the praise from domestic and foreign customers. Making Dingyuan products widely serve the plastic, electronics, electroplating, laser, food, textile, chemical, packaging, pharmaceutical and other industries.

★★★ ONE-STOP CENTRAL COOLING SYSTEM, CENTRAL MATERIAL HANDLING SYSTEM AND PLASTIC INJECTION EXTRUSION BLOWING AUXILIARY MACHINES PRODUCER ★★★



Water cooled screw chiller



Air cooled screw chiller



Air cooled chiller



Water cooled chiller  
(With two temps)



In 1995, the enterprise spirit of Dongguan Dingyuan Company has always adhered to the tenet of "survive by quality, innovation by technology, market as a guide, and development by service", which will push Dingyuan's future development to a new height. Dingyuan knows that if it wants to achieve rapid development after the financial crisis, it must actively implement the strategy of quality + brand + standardization, relying on independent research and development and innovation.

The leading products of the company are Industrial chillers, Water-cooled chillers, Air-cooled chillers, Water-cooled screw chillers, Air-cooled screw chillers, Dehumidifier, Dryer, Mold temperature control, Automatic feeding machine, Crusher, Color mixing machine, Water cooling tower and installation projects, etc.



3 in 1 dehumidifier



Gravimetric  
blender



Middle speed crusher



Mold temp controller



Autoloader



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Square Cooling Tower

## 直流变频冷水机 Dc-inverter Cooled Chiller

工业直流变频冷水机广泛应用于塑料和橡胶制造, 电子产品, 电镀, 医学化学, 超声冷却和印刷等行业。DingYuan变频直流冷水机较之其他冷水机, 在使用过程中可以节省将近30%的电。节约了生产成本的同时, 也准确地为现代工业生产提供所需的温度, 并大大提高效率和产品质量。

Industrial DC-inverter cooled chiller are widely used in many industries like: plastic and rubber manufacturing, electronic productions, electroplating, medical chemistry, ultrasonic cooling and printing business, etc. Compared with other chillers, Dingyuan Industrial DC-inverter Cooled Chiller can save nearly 30% of electricity during use. While saving production costs, it also could accurately provide needed temperature for modern industrial manufacturing and largely improve efficiency and product quality.



### 特点 Features

- ▶ 全新知名品牌压缩机和高效壳管式冷凝器、蒸发器组合、超强制冷、宁静省电;
- ▶ P.I.D.微电脑全功能控制, 操作简便, 能精确控制水温3~50℃内, 精度±0.1℃;
- ▶ 内部管路布局合理, 有效降低能耗;
- ▶ 具有电流过载保护、高低压制及电子时间延迟等完善的安全保护装置、异常指示系统;
- ▶ 特有全新设计之不锈钢开放式水箱, 清洗、修护方便快捷;
- ▶ 屏幕同时液晶显示冷水出口、冷水入口和设备设定温度;
- ▶ 经过工业造型设计, 外形美观, 优化人机关系。
- ▶ Adopts new famous brand compressor, high efficiency shell and tube type condenser and evaporator to ensure super refrigeration, quiet and electricity saving.
- ▶ P.I.D.Microprocessor control—easy to operate, accurately maintains temperature range from 3~50℃. Precision: ±0.1℃
- ▶ Well designed and reasonable pipelines—ensures power supply and saves energy.
- ▶ Current-overload protector, high-and-low pressure switches, electronic time delayer, fault display system—safe and durable.
- ▶ Special open type reservoir tank with stainless steel—easy to clean and maintain.
- ▶ Liquid crystal display showing temperatures of outlet and inlet chill water—provides visualized and direct setting.
- ▶ Industrial designed—elegant and ergonomic.

### 参数规格 Specification

型号 Model	单位 Unit	水冷式 Water Cooled Type		风冷式 Air Cooled Type	
		DY-DCWC 2~8HP	DY-DCWC 3~16HP	DY-DCAC 2~8HP	DY-DCAC 3~16HP
冷冻能力 Cooling capacity	kw	6.15~21.5	4.95~49.1	6.15~21.5	4.95~49.1
	kBTU/h	24.4~85.3	19.4~194.9	24.4~85.3	19.4~194.9
制冷剂 Refrigerant Type		R410			
压缩机 Compressor Power	KW/HP	2~8HP	3~16HP	2~8HP	3~16HP
电压 Voltage	V	220V-460V/3PHASE(50Hz-60Hz)			
水箱容量 Water tank capacity	Liter	200	280	200	280
水泵功率 Pump power	KW/HP	1.5/2	2.2/3	1.5/2	2.2/3
扬程 Pump head	m	19	20	19	20
水泵流量 Flow rate	L/MIN	300	400	300	400
	m³/h	18	24	18	24
运行电流 Running current	AMP	107	11.7	107	11.7
总功率 Input power	kw	7.5	14.2	8.1	14.8
绝缘材料 Insulation material		发泡胶带, 橡胶套管 POLY-FOAM TAPE RUBBERIZED TUBU INSULATION			
尺寸 Dimension	MM	1300*750*1400	1680*805*1720	1450*850*1550	2150*850*1800
净重 Net Weight	KG	400	700	530	850



## 水冷冷水机 Water Cooled Chiller

DY-FSC系列工业冷水机广泛用于塑料和橡胶制造，电子产品，电镀，医学化学，超声波冷却和印刷等行业，可准确地为现代工业生产提供所需的温度，并大大提高效率和产品质量。DingYuan工业冷水机操作简单，设计合理，质量过硬，有一百多种型号。它适用于需要精确控制冷却水流量的行业，并且被认为是现代工业必不可少的设备。

The DY-FSC series industrial cooled chillers are widely used in many industries like: plastic and rubber manufacturing, electronic productions, electroplating, medical chemistry, ultrasonic cooling and printing business, etc. It could accurately provide needed temperature for modern industrial manufacturing and largely improve efficiency and product quality. Dingyuan Industrial cooled chillers are with simple operation, reasonable design and superior quality with more than one hundred different models. It is applicable to the industry that requires flow of precisely controlled chilled water, and considered as indispensable equipment for modern industry.

### 特点 Features

- ▶ P.I.D.微电脑全功能控制，操作简便，能够在环境温度(0~45℃)，及冷冻水出水温度在3~50℃范围内稳定、安全、可靠的工作。能源效率等级已超越目前国家一级能效指标。
- ▶ 精简合理的系统水管路设计和安装，使得冷却系统运行更为顺畅的同时也降低了客户使用成本。
- ▶ 特有全新设计之不锈钢开放式水箱，清洗、修护方便快捷。
- ▶ 具有电流过载保护、高低压制及电子时间延迟等完善的安全保护装置、异常指示系统；
- ▶ P.I.D.Microprocessor control—easy to operate, it can stably, safely and reliably work under the environment temperature of 0~45℃ and the chilling water outlet temperature of 3~50℃. Its energy efficiency degree has already been above the first level of national energy efficiency index.
- ▶ Compact and reasonable design and installation of the water pipeline system enable the cooling system operates more smoothly and simultaneously lower the costs of the customer.
- ▶ Special open type reservoir tank with stainless steel—easy to clean and maintain.
- ▶ Current-overload protector, high-and-low pressure switches, electronic time delayer, fault display system—safe and durable.



### 参数规格 Specification

型号 Model	单位 Unit	DY-FSC 5W	DY-FSC 6W	DY-FSC 8W	DY-FSC 10W	DY-FSC 15W	DY-FSC 20W	DY-FSC 25W	DY-FSC 30W	DY-FSC 40W	DY-FSC 50W
冷冻能力 Cooling capacity	kw	11.8	14.5	23.6	29	38.4	61.2	72.2	91.8	122.4	144.4
	kBTU/h	40.3	49.5	80.6	99	131.2	209	246.6	313.5	418	493.2
制冷剂 Refrigerant Type		R22/R407/R134/R410									
压缩机 Compressor Power	KW/HP	3/4	3.7/5	6/8	7.5/10	11.25/15	15/20	18/25	22.5/30	30/40	37.5/50
冷却水量 Cooling water flow	L/MIN	58	77	100	120	200	250	300	360	440	560
电压 Voltage	V	3Φ220V~460V 50hz/60hz									
水箱容量 Water tank capacity	Liter	52	52	200	200	260	390	460	460	750	750
水泵功率 Pump power	KW	0.37/0.5	0.75/1	0.75/1	0.75/1	1.5/2	1.5/2	2.2/3	2.2/3	4/5	4/5
扬程 Pump head	m	16	17	18	18	19	19	20	20	20	20
水泵流量 Flow rate	L/MIN	50-100	100-200	100-200	100-200	160-320	160-320	250-500	400-800	630-1200	630-1200
运行电流 Running current	AMP	5.9	8	12	15	22.5	30	38	44	61	80
总功率 Input power	kw	3.3	4.5	6.75	8.2	12.5	16.5	21	24.2	33.7	44.5
绝缘材料 Insulation material		发泡胶带，橡胶套管POLY-FOAM TAPE RUBBERIZED TUBU INSULATION									
尺寸 Dimension	MM	865*530*1010	790*610*1160	1070*685*685	1270*710*1270	2150*850*1800	1680*810*1770	1680*810*1770	1680*810*1970	2100*950*1780	2100*950*1780
净重 Net Weight	KG	125	170	240	320	570	680	780	920	1180	1300

## 风冷冷水机 Air Cooled Chiller

DY-FSC系列工业风冷冷水机广泛用于塑料和橡胶制造，电子产品，电镀，医学化学，超声波冷却和印刷等行业，可准确地为现代工业生产提供所需的温度，并大大提高效率和产品质量。DingYuan工业冷水机操作简单，设计合理，质量过硬，有一百多种型号。它适用于需要精确控制冷却水流量的行业，并且被认为是现代工业必不可少的设备。

The DY-FSC series industrial air cooled chillers are widely used in many industries like: plastic and rubber manufacturing, electronic productions, electroplating, medical chemistry, ultrasonic cooling and printing business, etc. It could accurately provide needed temperature for modern industrial manufacturing and largely improve efficiency and product quality. Dingyuan Industrial cooled chillers are with simple operation, reasonable design and superior quality with more than one hundred different models. It is applicable to the industry that requires flow of precisely controlled chilled water, and considered as indispensable equipment for modern industry.

### 特点 Features

- ▶ 全新开发的新一代高可靠度、超高效率冷水机采用变频低噪音散热风扇，能够在环境温度(0~45℃)，及冷冻水出水温度在3~50℃范围内稳定、安全、可靠的工作。能源效率等级已超越目前国家一级能效指标。
- ▶ 采用进口压缩机和水泵。
- ▶ 配备高效蒸发器、冷凝器。
- ▶ 全面安全保护系统；
- ▶ 精简合理的系统水管路设计和安装，使得冷却系统运行更为顺畅的同时也降低了客户使用成本。
- ▶ New generation developed water chiller possesses high reliability and high efficiency. It adopts frequency low-noise cooling fan which can stably, safely and reliably work under the environment temperature of 0~45℃ and the chilling water outlet temperature of 3~50℃. Its energy efficiency degree has already been above the first level of national energy efficiency index.
- ▶ Adopt imported compressor and circulation pump.
- ▶ Equip with high efficient evaporator and condenser.
- ▶ Comprehensive safety protection system:
- ▶ Compact and reasonable design and installation of the water pipeline system enable the cooling system operates more smoothly and simultaneously lower the costs of the customer.



### 参数规格 Specification

型号 Model	单位 Unit	DY-FSC 3A	DY-FSC 5A	DY-FSC 6A	DY-FSC 8A	DY-FSC 10A	DY-FSC 15A	DY-FSC 20A	DY-FSC 25A	DY-FSC 30A	DY-FSC 35A	DY-FSC 40A	DY-FSC 50A
冷冻能力 Cooling capacity	kw	9.15	11.8	14.5	23.6	29	38.4	61.2	72.2	91.8	102.8	122.4	144.4
	kBTU/h	31.2	40.3	49.5	80.6	99	131.2	209	246.6	313.5	351.1	418	493.2
制冷剂 Refrigerant Type		R22/R407/R134/R410											
压缩机 Compressor Power	KW/HP	2.6/3.5	3/4	3.7/5	4/5	7.5/10	11.25/15	15/20	18/25	22.5/30	26.2/35	30/40	37.5/50
冷却风量 Air Flow	m³/h	4235	7020	7020	11160	11160	22860	31800	31800	40500	40500	70800	70800
风扇直径 Fan diameter	MM	400*1	350*2	350*2	450*2	450*2	500*3	550*3	550*3	630*3	630*3	600*6	600*6
电压 Voltage	V	3Φ220V~460V 50hz/60hz											
水箱容量 Water tank capacity	Liter	52	52	52	200	200	260	390	400	460	750	750	750
水泵功率 Pump power	KW/HP	0.37/0.5	0.37/0.5	0.75/1	0.75/1	0.75/1	1.5/2	1.5/2	2.2/3	2.2/3	4/5	4/5	4/5
扬程 Pump head	m	16	16	18	18	18	19	19	19	19	30	30	30
水泵流量 Flow rate	L/MIN	90	90	120	250	250	300	300	400	400	500	500	500
	m³/h	5.4	5.4	7.2	15	15	18	18	24	24	32	32	32
运行电流 Running current	AMP	5.7	6.6	8.5	13	15.7	24.3	31.6	39.6	47.8	58.6	68.7	81.3
总功率 Input power	kw	3.16	3.67	4.75	7.2	8.73	13.5	17.6	22	26.5	32.6	38.2	45.2
绝缘材料 Insulation material		发泡胶带，橡胶套管POLY-FOAM TAPE RUBBERIZED TUBU INSULATION											
尺寸 Dimension	MM	700*560*1100	1170*600*1130		1420*800*1500		2150*850*1800	2300*1050*1760		2600*1100*1900	2600*1045*1810	2600*1780*1845	2600*1780*1845
净重 Net Weight	KG	155		420		600	730	920	980	1180	1300		



# 水冷单机头螺杆式冷水机 (40-120HP)

## Water Cooled Single-head Screw Chiller

DY-FSQ系列工业螺杆冷水机采用螺杆压缩机融合高效的蒸发器和冷凝器，使其制冷效果大且好，广泛应用于需要大型制冷的场合。通常作为中央空调制冷的主机以及其他民用和工业领域制冷。例如：

民用：商业大厦，娱乐中心，宾馆，医院，影剧院，体育馆，大型商场等；

工业：塑胶和橡胶，制药，纺织，化工，食品，电子工业等。

The DY-FSQ series industrial screw Chillers adopt screw compressor and high efficiency of evaporator and condenser, makes it has big and good cooling effect. It is widely used in need large refrigeration occasion. It is always used as the host machine of central air conditioner and other civil and industrial fields. For example:

For civil field: commercial buildings, entertainment centers, hotels, hospitals, theatres, stadiums and shopping malls etc.

For industry field: plastic and rubber, pharmaceutical, textile, chemical, food and electronic industry etc.

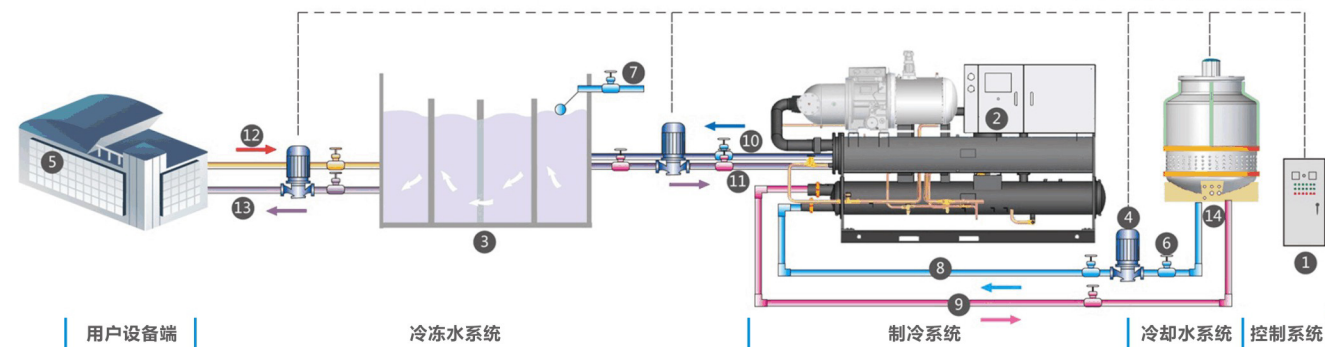


### 特点 Features

- ▶ 国际知名品牌的半封闭螺杆式压缩机，轴承使用寿命长，可确保长时间运行，并配有高效电机，使压缩机具有很高的效率。
- ▶ 冷凝器和蒸发器均可满足国际标准的要求，具有高效的传热效果，维修和保养方便。
- ▶ P.I.D.微电脑全功能控制，操作简便，能够在环境温度(0~45℃)，及冷冻水出水温度在3~50℃范围内稳定、安全、可靠的工作。能源效率等级已超越目前国家一级能效指标。
- ▶ 精简合理的系统水管路设计和安装，使得冷却系统运行更为顺畅的同时也降低了客户使用成本。
- ▶ 具有电流过载保护、高低压制及电子时间延迟等完善的安全保护装置、异常指示系统；
- ▶ Brand semi-hermetic single screw compressor and long service-life of bearing ensure long time operation, and it is equipped with high-efficient motor that gives compressor high efficiency.
- ▶ The condenser and evaporator both can meet the requirement of national standard, with high-efficient heat transfer effect, convenient service and maintenance.
- ▶ P.I.D. Microprocessor control-easy to operate, it can stably, safely and reliably work under the environment temperature of 0~45℃ and the chilling water outlet temperature of 3~50℃. Its energy efficiency degree has already been above the first level of national energy efficiency index.
- ▶ Compact and reasonable design and installation of the water pipeline system enable the cooling system operates more smoothly and simultaneously lower the costs of the customer.
- ▶ Current-overload protector, high-and-low pressure switches, electronic time delayer, fault display system-safe and durable.

### 工作示意图 Working Diagram

工业冷却解决方案



- ① 冷冻水设备 Cold Water System Control Cabinet
- ② 制冷机组 Refrigeration Unit
- ③ 混合水箱 Mixing Tank
- ④ 水泵 Pump
- ⑤ 工业生产设备 Industrial Production Equipment
- ⑥ 阀门 The Valve
- ⑦ 补水口 Water Supply
- ⑧ 冷却水出水 Cooling Water Outlet
- ⑨ 冷却水进水 Cooling Water Into The Water
- ⑩ 冷冻水出水 Cooling Water Out of the Water
- ⑪ 冷冻水进水 Cooling Water Inlet
- ⑫ 设备水出水 Equipment Out of the Water
- ⑬ 设备水进水 Equipment Into the Water

### 参数规格 Specification

型号 Model	单位 Unit	DY-FSQ 40W	DY-FSQ 50W	DY-FSQ 60W	DY-FSQ 70W	DY-FSQ 80W	DY-FSQ 100W	DY-FSQ 120W	
标准制冷量 Cooling capacity	kcal/h	100909	137587	180551	196566	262949	327438	387794	
	kw	117.21	159.8	209.7	228.3	305.4	380.3	450.4	
输入总功率 Total input power	kw	25.2	33.1	41.5	45.5	60.2	71.2	85.5	
最大运行电流 Max running current	A	42.1	55.4	69.4	76.1	101	119.5	143.4	
电源 Power supply		3PH-380V 50HZ(200V/220V/415V 460V 50HZ/60HZ)							
制冷剂 Refrigerant	名称 Type	R22(R407C)							
	充注量 Charge volume	kg	22	28	33	39	45	55	66
	控制方式 Control method		外平衡式热力膨胀阀 Outside balance thermal expansion valve						
压缩机 Compressor	类型 Type	半封闭螺杆式 Semi-hermetic screw							
	功率 Power	kw	24.9	32.8	41.2	45.2	59.9	70.9	85.2
	启动方式 Start-up mode		Y-Δ						
	运转电流 Running current	A	41.9	55.2	69.2	75.9	100.7	119.3	143.2
	能量调节范围 Capacity control	%	0-33%-66%-100%			0-25%-50%-75%-100%			
蒸发器 Evaporator	类型 Type	内螺纹壳管式 Shell and tube type with internal thread							
	冷冻水量 Chilled water flow rate	m <sup>3</sup> /h	21	26	30	43	48	55	68
	换热量 Heat exchange	kw	117.2	159.8	209.7	228.3	305.4	380.3	450.4
冷凝器 Condenser	类型 Type	外螺纹壳管式 External threaded shell and tube type							
	冷却水量 Cooling water flow rate	m <sup>3</sup> /h	26	33	40	50	61	69	85
	换热量 Heat exchange	kw	140.6	191.7	251.6	273.9	366.4	456.3	540.4
进出水管口径 Inlet/Outlet pipe diameter	mm	80	80	80	80	100	100	125	
安全保护装置 Security devices		压缩机过热保护, 机组过载保护, 高低压力保护装置, 防冻保护装置, 电源逆相/缺相保护源, 水流开关。 Compressor overheating protection, overload protection, high and low pressure protection device, antifreeze protection, power supply reverse phase/phase protection, water flow switch.							
机械尺寸 Mechanical dimensions	长 Length	mm	1960	2130	2450	3100	3500	3500	3750
	宽 Width	mm	855	855	985	1050	1050	1050	1050
	高 Height	mm	1540	1540	1600	1600	1600	1600	1730
机组重量 Unit weight	kg	820	950	1120	1300	1560	1560	2030	
运行重量 Operating weight	kg	970	1060	1270	1480	1780	1780	2250	

备注/Notes:

1. 制冷量是依据冷冻水入口温度: 15℃, 出口温度: 10℃; 冷却水入水温度: 32℃, 出水温度: 37℃。

2. 工作范围:

a. 冷冻水温度范围: 3℃至35℃; 冷冻水进出水温差: 5℃。

b. 冷却水温度范围: 30℃至40℃; 冷却进出水温差: 5℃。

1. The cooling capacity is based on the chilled water inlet temperature 15℃, outlet temperature 10℃; Cooling inlet water temperature 32℃, outlet temperature 37℃.

2. Working range:

a. Temperature range of chilled water: 3℃~35℃; Temperature difference between inlet and outlet of chilled water: 5℃;

b. Cooling temperature range: 30℃~40℃; Temperature difference between inlet and outlet cooling water: 5℃.



## 水冷单机头螺杆式冷水机 (140-280HP)

### Water Cooled Single-head Screw Chiller

DY-FSQ系列工业螺杆冷水机采用螺杆压缩机融合高效的蒸发器和冷凝器，使其制冷效果大且好，广泛应用于需要大型制冷的场合。通常作为中央空调制冷的主机以及其他民用和工业领域制冷。例如：

民用：商业大厦，娱乐中心，宾馆，医院，影剧院，体育馆，大型商场等；

工业：塑胶和橡胶，制药，纺织，化工，食品，电子工业等。

The DY-FSQ series industrial screw chillers adopt screw compressor and high efficiency of evaporator and condenser, makes it has big and good cooling effect. It is widely used in need large refrigeration occasion. It is always used as the host machine of central air conditioner and other civil and industrial fields. For example:

For civil field: commercial buildings, entertainment centers, hotels, hospitals, theatres, stadiums and shopping malls etc.

For industry field: plastic and rubber, pharmaceutical, textile, chemical, food and electronic industry etc.



#### 参数规格 Specification

型号 Model	单位 Unit	DY-FSQ140W	DY-FSQ160W	DY-FSQ180W	DY-FSQ220W	DY-FSQ250W	DY-FSQ280W	
标准制冷量 Cooling capacity	kcal/h	426969	536403	636020.7	769217.4	901983.6	1016582.7	
	kw	495.9	623	738.7	893.4	1047.6	1180.7	
输入总功率 Total input power	kw	95	116.5	135.8	161.4	190.1	213.7	
最大运行电流 Max running current	A	159.5	195.5	228	271	319.2	359	
电源 Power supply		3PH - 380V 50HZ(200V/220V/415V 460V 50HZ/60HZ)						
制冷剂 Refrigerant	名称 Type	R22(R407C)						
	充注量 Charge volume	kg	77	88	99	121	138	154
	控制方式 Control method		外平衡式热力膨胀阀 Outside balance thermal expansion valve					
压缩机 Compressor	类型 Type	半封闭螺杆式 Semi-hermetic screw						
	功率 Power	kw	94.7	116.2	135.5	161.1	189.8	213.4
	启动方式 Start-up mode		Y-Δ					
	运转电流 Running current	A	159.3	195.3	227.8	270.8	319	358.8
	能量调节范围 Capacity control	%	0-25%-50%-75%-100%					
蒸发器 Evaporator	类型 Type	内螺纹壳管式 Shell and tube type with internal thread						
	冷冻水量 Chilled water flow rate	m³/h	75	84	103	120	136	154
	换热量 Heat exchange	kw	495.9	623	738.7	893.4	1047.6	1180.7
冷凝器 Condenser	类型 Type	外螺纹壳管式 External threaded shell and tube type						
	冷却水量 Cooling water flow rate	m³/h	93	110	126	147	167	186
	换热量 Heat exchange	kw	595	747.6	886.4	1072	1257	1416.8
进出水管口径 Inlet/Outlet pipe diameter	mm	125	125	150	150	150	150	
安全保护装置 Security devices		压缩机过热保护，机组过载保护，高低压力保护装置，防冻保护装置，电源逆相/缺相保护源，水流开关。 Compressor overheating protection, overload protection, high and low pressure protection device, antifreeze protection, power supply reverse phase/phase protection, water flow switch.						
机械尺寸 Mechanical dimensions	长 Length	mm	4100	4200	4250	4370	4550	4850
	宽 Width	mm	1050	1250	1350	1350	1550	1750
	高 Height	mm	1730	1730	1760	1760	1820	1820
机组重量 Unit weight	kg	2200	2410	2630	3050	3160	3350	
运行重量 Operating weight	kg	2430	2470	2920	3270	3420	3620	

备注/Notes:

1. 制冷量是依据冷冻水入口温度：15℃，出口温度：10℃；冷却水入水温度：32℃，出水温度：37℃。

2. 工作范围：

a. 冷冻水温度范围：3℃至35℃；冷冻水进出水温差：5℃。

b. 冷却水温度范围：30℃至40℃；冷却进出水温差：5℃。

1. The cooling capacity is based on the chilled water inlet temperature 15℃, outlet temperature 10℃; Cooling inlet water temperature 32℃, outlet temperature 37℃.

2. Working range:

a. Temperature range of chilled water: 3℃-35℃; Temperature difference between inlet and outlet of chilled water: 5℃;

b. Cooling temperature range: 30℃-40℃; Temperature difference between inlet and outlet cooling water: 5℃.

## 水冷双机头螺杆式冷水机 (100-240HP)

### Water Cooled Double-head Screw Chiller

DY-FSQ系列工业螺杆冷水机采用螺杆压缩机融合高效的蒸发器和冷凝器，使其制冷效果大且好，广泛应用于需要大型制冷的场合。通常作为中央空调制冷的主机以及其他民用和工业领域制冷。例如：

民用：商业大厦，娱乐中心，宾馆，医院，影剧院，体育馆，大型商场等；

工业：塑胶和橡胶，制药，纺织，化工，食品，电子工业等。

The DY-FSQ series industrial screw chillers adopt screw compressor and high efficiency of evaporator and condenser, makes it has big and good cooling effect. It is widely used in need large refrigeration occasion. It is always used as the host machine of central air conditioner and other civil and industrial fields. For example:

For civil field: commercial buildings, entertainment centers, hotels, hospitals, theatres, stadiums and shopping malls etc.

For industry field: plastic and rubber, pharmaceutical, textile, chemical, food and electronic industry etc.



#### 参数规格 Specification

型号 Model	单位 Unit	DY-FSQ100W	DY-FSQ120W	DY-FSQ150W	DY-FSQ180W	DY-FSQ200W	DY-FSQ240W	
标准制冷量 Cooling capacity	kcal/h	275175.6	361103.4	479232.6	619747.8	654876.6	775588.8	
	kw	319.6	419.4	556.6	719.8	760.6	900.8	
输入总功率 Total input power	kw	66.2	8313	110.6	135.4	142.4	171	
最大运行电流 Max running current	A	110.8	8.8	185.2	227.2	239.2	286.8	
电源 Power supply		3PH - 380V 50HZ(200V/220V/415V 460V 50HZ/60HZ)						
制冷剂 Refrigerant	名称 Type	R22(R407C)						
	充注量 Charge volume	kg	55	66	83	100	110	132
	控制方式 Control method		外平衡式热力膨胀阀 Outside balance thermal expansion valve					
压缩机 Compressor	类型 Type	半封闭螺杆式 Semi-hermetic screw						
	功率 Power	kw	65.6	82.4	110	134.8	141.8	170.4
	启动方式 Start-up mode		Y-Δ					
	运转电流 Running current	A	110.4	138.4	184.8	226.8	238.6	286.4
	能量调节范围 Capacity control	%	0-33%-66%-100%			0-25%-50%-75%-100%		
蒸发器 Evaporator	类型 Type	内螺纹壳管式 Shell and tube type with internal thread						
	冷冻水量 Chilled water flow rate	m³/h	52	60	86	96	110	136
	换热量 Heat exchange	kw	319.6	419.4	556.6	719.8	760.6	900.8
冷凝器 Condenser	类型 Type	外螺纹壳管式 External threaded shell and tube type						
	冷却水量 Cooling water flow rate	m³/h	66	80	108	122	138	170
	换热量 Heat exchange	kw	383.5	503.2	667.9	863.7	912.7	1080.9
进出水管口径 Inlet/Outlet pipe diameter	mm	100	100	125	150	150	150	
安全保护装置 Security devices		压缩机过热保护，机组过载保护，高低压力保护装置，防冻保护装置，电源逆相/缺相保护源，水流开关。 Compressor overheating protection, overload protection, high and low pressure protection device, antifreeze protection, power supply reverse phase/phase protection, water flow switch.						
机械尺寸 Mechanical dimensions	长 Length	mm	3600	3850	3860	3910	4050	4150
	宽 Width	mm	765	765	765	875	875	1320
	高 Height	mm	1750	1750	1750	1950	1950	2150
机组重量 Unit weight	kg	1920	2250	2610	2820	3460	3920	
运行重量 Operating weight	kg	2230	2550	2860	3240	3830	4330	

备注/Notes:

1. 制冷量是依据冷冻水入口温度：15℃，出口温度：10℃；冷却水入水温度：32℃，出水温度：37℃。

2. 工作范围：

a. 冷冻水温度范围：3℃至35℃；冷冻水进出水温差：5℃。

b. 冷却水温度范围：30℃至40℃；冷却进出水温差：5℃。

1. The cooling capacity is based on the chilled water inlet temperature 15℃, outlet temperature 10℃; Cooling inlet water temperature 32℃, outlet temperature 37℃.

2. Working range:

a. Temperature range of chilled water: 3℃-35℃; Temperature difference between inlet and outlet of chilled water: 5℃;

b. Cooling temperature range: 30℃-40℃; Temperature difference between inlet and outlet cooling water: 5℃.



## 水冷双机头螺杆式冷水机 (280-560HP)

### Water Cooled Double-head Screw Chiller

DY-FSQ系列工业螺杆冷水机采用螺杆压缩机融合高效的蒸发器和冷凝器，使其制冷效果大且好，广泛应用于需要大型制冷的场合。通常作为中央空调制冷的主机以及其他民用和工业领域制冷。例如：

民用：商业大厦，娱乐中心，宾馆，医院，影剧院，体育馆，大型商场等；

工业：塑胶和橡胶，制药，纺织，化工，食品，电子工业等。

The DY-FSQ series industrial screw chillers adopt screw compressor and high efficiency of evaporator and condenser, makes it has big and good cooling effect. It is widely used in need large refrigeration occasion. It is always used as the host machine of central air conditioner and other civil and industrial fields. For example:

For civil field: commercial buildings, entertainment centers, hotels, hospitals, theatres, stadiums and shopping malls etc.

For industry field: plastic and rubber, pharmaceutical, textile, chemical, food and electronic industry etc.



#### 参数规格 Specification

型号 Model	单位 Unit	DY-FSQ280W	DY-FSQ320W	DY-FSQ360W	DY-FSQ440W	DY-FSQ500W	DY-FSQ560W	
标准制冷量 Cooling capacity	kcal/h	853939.8	1072806	1272041.4	1538434.8	1803967.2	2033165.4	
	kw	991.8	1246	1477.4	1786.8	2095.2	2361.4	
输入总功率 Total input power	kw	190	233	271.6	322.8	380.2	427.4	
最大运行电流 Max running current	A	319	391	456	542	638.4	718	
电源 Power supply		3PH - 380V 50HZ(200V/220V/415V 460V 50HZ/60HZ)						
制冷剂 Refrigerant	名称 Type	R22(R407C)						
	充注量 Charge volume	kg	154	176	200	242	275	308
	控制方式 Control method		外平衡式热力膨胀阀 Outside balance thermal expansion valve					
压缩机 Compressor	类型 Type	半封闭螺杆式 Semi-hermetic screw						
	功率 Power	kw	189.4	232.4	271	322.2	379.6	426.8
	启动方式 Start-up mode		Y-Δ					
	运转电流 Running current	A	318.6	390.6	455.6	541.6	638	717.6
能量调节范围 Capacity control	%	0-25%-50%-75%-100%						
蒸发器 Evaporator	类型 Type	内螺纹壳管式 Shell and tube type with internal thread						
	冷冻水量 Chilled water flow rate	m <sup>3</sup> /h	150	168	206	240	273	308
	换热量 Heat exchange	kw	991.8	1246	1477.4	1786.8	2095.2	2361.4
冷凝器 Condenser	类型 Type	外螺纹壳管式 External threaded shell and tube type						
	冷却水量 Cooling water flow rate	m <sup>3</sup> /h	186	220	252	294	334	362
	换热量 Heat exchange	kw	1190	1495	1772.8	2144	2514.2	2833.6
进出水管口径 Inlet/Outlet pipe diameter	mm	150	150	150	150	150	150	
安全保护装置 Security devices		压缩机过热保护，机组过载保护，高低压力保护装置，防冻保护装置，电源逆相/缺相保护源，水流开关。 Compressor overheating protection, overload protection, high and low pressure protection device, antifreeze protection, power supply reverse phase/phase protection, water flow switch.						
机械尺寸 Mechanical dimensions	长 Length	mm	4250	4730	5380	5920	6450	6450
	宽 Width	mm	1320	1320	1580	1600	1760	1760
	高 Height	mm	2150	2150	2230	2350	2360	2360
机组重量 Unit weight	kg	4230						
运行重量 Operating weight	kg	4560						

备注/Notes:

1. 制冷量是依据冷冻水入口温度：15℃，出口温度：10℃；冷却水入水温度：32℃，出水温度：37℃。

2. 工作范围：

a. 冷冻水温度范围：3℃至35℃；冷冻水进出水温差：5℃。

b. 冷却水温度范围：30℃至40℃；冷却进出水温差：5℃。

1. The cooling capacity is based on the chilled water inlet temperature 15℃, outlet temperature 10℃; Cooling inlet water temperature 32℃, outlet temperature 37℃.

2. Working range:

a. Temperature range of chilled water: 3℃-35℃; Temperature difference between inlet and outlet of chilled water: 5℃;

b. Cooling temperature range: 30℃-40℃; Temperature difference between inlet and outlet cooling water: 5℃.

## 风冷单机头螺杆式冷水机

### Air Cooled Single-head Screw Chiller

DY-FSQ系列工业风冷螺杆冷水机采用螺杆压缩机融合高效的蒸发器和冷凝器，使其制冷效果大且好，广泛应用于需要大型制冷的场合。通常作为中央空调制冷的主机以及其他民用和工业领域制冷。例如：

民用：商业大厦，娱乐中心，宾馆，医院，影剧院，体育馆，大型商场等；

工业：塑胶和橡胶，制药，纺织，化工，食品，电子工业等。

The DY-FSQ series industrial air screw chillers adopt screw compressor and high efficiency of evaporator and condenser, makes it has big and good cooling effect. It is widely used in need large refrigeration occasion. It is always used as the host machine of central air conditioner and other civil and industrial fields. For example:

For civil field: commercial buildings, entertainment centers, hotels, hospitals, theatres, stadiums and shopping malls etc.

For industry field: plastic and rubber, pharmaceutical, textile, chemical, food and electronic industry etc.



#### 参数规格 Specification

型号 Model	单位 Unit	DY-FSQ40A	DY-FSQ50A	DY-FSQ60A	DY-FSQ70A	DY-FSQ80A	DY-FSQ100A	DY-FSQ120A	
标准制冷量 Cooling capacity	kcal/h	88596.9	120712	158424	172544.4	210256	271989.9	314437.2	
	kw	102.9	140.2	184	200.4	244.2	315.9	365.2	
输入总功率 Total input power	kw	33.8	43.2	54.6	59.3	70.9	87.2	100.6	
最大运行电流 Max running current	A	58.5	74.3	93.9	101.8	121.4	149.2	172.5	
电源 Power supply		3Ph 380V 50HZ(200V/220V/415V 460V 50HZ/60HZ)							
制冷剂 Refrigerant	名称 Type	R22(R407C)							
	充注量 Charge volume	kg	28	35	42	49	56	70	84
	控制方式 Control method		外平衡式热力膨胀阀 Outside balance thermal expansion valve						
压缩机 Compressor	类型 Type	半封闭螺杆式 Semi-hermetic screw							
	功率 Power	kw	29.6	39	49	53.7	65.3	80.2	92.8
	启动方式 Start-up mode		Y-Δ						
	运转电流 Running current	A	49.8	65.6	82.3	90.2	109.8	134.7	156
能量调节范围 Capacity control	%	0-33%-66%-100%			0-25%-50%-75%-100%				
蒸发器 Evaporator	类型 Type	内螺纹壳管式 Shell and tube type with internal thread							
	冷冻水量 Chilled water flow rate	m <sup>3</sup> /h	18	23	26	35	43	50	60
	换热量 Heat exchange	kw	109.2	140.2	184	200.4	244.2	315.9	365.2
冷凝器 Condenser	类型 Type	翅片式 High Efficiency Copper Aluminum Fins							
	风机类型 Fan type	大功率轴流风机 High-power axial fan							
	风机功率 Fan motor power	kw	4.2	4.2	5.6	5.6	5.6	7	7.8
	风机电流 Fan current	A	8.7	8.7	11.6	11.6	11.6	14.5	16.5
	换热量 Heat exchange	kw	123.4	168.2	220.8	240.4	293	379	438.2
	风机直径和数量 Fan diameter and quantity	mm/pcs	600*6	600*6	600*8	600*8	600*8	600*10	630*10
冷却风量 Cooling air flow rate	m <sup>3</sup> /h	70800	70800	94400	94400	94400	118000	135000	
进出水管口径 Inlet/Outlet pipe diameter	mm	80	80	80	80	100	125	125	
安全保护装置 Security devices		压缩机过热保护，机组过载保护，高低压力保护装置，防冻保护装置，电源逆相/缺相保护源，水流开关。 Compressor overheating protection, overload protection, high and low pressure protection device, antifreeze protection, power supply reverse phase/phase protection, water flow switch.							
机械尺寸 Mechanical dimensions	长 Length	mm	2200	2400	2400	3150	3150	4100	4100
	宽 Width	mm	1560	1760	2000	2140	2140	1890	2000
	高 Height	mm	2150	2180	2180	2200	2200	2200	2200
机组重量 Unit weight	kg	1300	1620	1930	2260	2420	2860	3250	
运行重量 Operating weight	kg	1390	1870	2210	2420	2680	3020	3460	

备注/Notes:

1. 制冷量是依据冷冻水入口温度：15℃，出口温度：10℃；冷却风进入温度：35℃，出风温度：40℃。

2. 工作范围：

a. 冷冻水温度范围：3℃至35℃；冷冻水进出水温差：5℃。

b. 冷却水温度范围：35℃至40℃；冷却进出风温差：5℃。

1. The cooling capacity is based on the chilled water inlet temperature 15℃, outlet temperature 10℃; Cooling inlet air temperature 35℃, outlet air temperature 40℃.

2. Working range:

a. Temperature range of chilled water: 3℃-35℃; Temperature difference between inlet and outlet of chilled water: 5℃;

b. Cooling temperature range: 35℃-40℃; Temperature difference between inlet and outlet cooling air: 5℃.



# 风冷双机头螺杆式冷水机

## Air Cooled Double-head Screw Chiller

DY-FSQ系列工业风冷螺杆冷水机采用螺杆压缩机融合高效的蒸发器和冷凝器，使其制冷效果大且好，广泛应用于需要大型制冷的场合。通常作为中央空调制冷的主机以及其他民用和工业领域制冷。例如：

民用：商业大厦，娱乐中心，宾馆，医院，影剧院，体育馆，大型商场等；

工业：塑胶和橡胶，制药，纺织，化工，食品，电子工业等。

The DY-FSQ series industrial air screw chillers adopt screw compressor and high efficiency of evaporator and condenser, makes it has big and good cooling effect. It is widely used in need large refrigeration occasion. It is always used as the host machine of central air conditioner and other civil and industrial fields. For example:

For civil field: commercial buildings, entertainment centers, hotels, hospitals, theatres, stadiums and shopping malls etc.

For industry field: plastic and rubber, pharmaceutical, textile, chemical, food and electronic industry etc.



### 参数规格 Specification

型号 Model	单位 Unit	DY-FSQ100A	DY-FSQ120A	DY-FSQ150A	DY-FSQ170A	DY-FSQ200A	DY-FSQ240A	
标准制冷量 Cooling capacity	kcal/h	241424.4	316848	345088.8	420512.4	543979.8	628874.4	
	kw	280.4	368	400.8	488.4	631.8	730.4	
输入总功率 Total input power	kw	85	105.8	116.8	140.4	172.8	199.6	
最大运行电流 Max running current	A	145.7	181.1	200.2	239.9	295.8	341.7	
电源 Power supply		3PH - 380V 50HZ(200V/220V/415V 460V 50HZ/60HZ)						
制冷剂 Refrigerant	名称 Type	R22(R407C)						
	充注量 Charge volume	kg	70	84	105	120	140	168
	控制方式 Control method		外平衡式热力膨胀阀 Outside balance thermal expansion valve					
压缩机 Compressor	类型 Type	半封闭螺杆式 Semi-hermetic screw						
	功率 Power	kw	78	98	107.4	130.6	160.4	185.6
	启动方式 Start-up mode		Y-Δ					
	运转电流 Running current	A	131.2	164.6	180.4	219.6	269.4	312
能量调节范围 Capacity control	%	0-33%-66%-100%			0-25%-50%-75%-100%			
蒸发器 Evaporator	类型 Type	内螺纹壳管式 Shell and tube type with internal thread						
	冷冻水量 Chilled water flow rate	m³/h	46	52	71	86	100	117
	换热量 Heat exchange	kw	280.4	368	400.8	488.4	631.8	730.4
冷凝器 Condenser	类型 Type	翅片式 High Efficiency Copper Aluminum Fins						
	风机类型 Fan type	大功率轴流风机 High-power axial fan						
	风机功率 Fan motor power	kw	7	7.8	9.4	9.8	12.4	14
	风机电流 Fan current	A	14.5	16.5	19.8	20.3	26.4	29.7
	换热量 Heat exchange	kw	336.4	441.6	480.9	586.6	758.1	876.4
	风机直径和数量 Fan diameter and quantity	mm/pcs	600*101	630*101	630*121	600*141	630*162	630*182
冷却风量 Cooling air flow rate	m³/h	18000	35000	62000	65200	16000	43000	
进出水管口径 Inlet/Outlet pipe diameter	mm	125	125	125	150	150	150	
安全保护装置 Security devices		压缩机过热保护，机组过载保护，高低压力保护装置，防冻保护装置，电源逆相/缺相保护源，水流开关。 Compressor overheating protection, overload protection, high and low pressure protection device, antifreeze protection, power supply reverse phase/phase protection, water flow switch.						
机械尺寸 Mechanical dimensions	长 Length	mm	4000	4100	4200	4300	4300	4950
	宽 Width	mm	1800	2000	2100	2200	2200	2200
	高 Height	mm	2100	2100	2100	2200	2200	2200
机组重量 Unit weight	kg	2750	3300	3500	3850	4100	4350	
运行重量 Operating weight	kg	3300	3750	4000	4400	4650	4800	

备注/Notes:

1. 制冷量是依据冷冻水入口温度：15℃，出口温度：10℃；冷却风进入温度：35℃，出风温度：40℃。

2. 工作范围：

a. 冷冻水温度范围：3℃至35℃；冷冻水进出水温差：5℃。

b. 冷却温度范围：35℃至40℃；冷却进出风温差：5℃。

1. The cooling capacity is based on the chilled water inlet temperature 15℃, outlet temperature 10℃; Cooling inlet air temperature 35℃, outlet air temperature 40℃.

2. Working range:

a. Temperature range of chilled water: 3℃-35℃; Temperature difference between inlet and outlet of chilled water: 5℃;

b. Cooling temperature range: 35℃-40℃; Temperature difference between inlet and outlet cooling air: 5℃.