

Industrial Water Chillers



Sheng Jia Yu Suzhou Technology Co., Ltd

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Integrated water chiller

工业冷水机组系列

Industrial water chillers



产品特点Product Features

工业冷水机组系列，采用国际知名品牌，谷轮，丹佛斯，松下，大金压缩机，包含涡旋，活塞，螺杆，半封闭，全封闭各种类型，整机配套优质高效能铜管翅片，工业不锈钢制作冷凝器，蒸发器，材料最高等级可达工业食品级要求。

电气元件为世界品牌西门子，施耐德，ABB，质量可靠，品质卓越。使得冷水机组具备体积小、噪音低、能量大、寿命长、操作简便等优点。多种制冷剂可供选择，除 R22 冷媒外，还可以选用 R134a、R407c 等环保冷媒，满足低温，特殊环境使用要求。

冷水机控制部分采用高精度主机面板，PLC 可编程控制器，人机界面，全中文显示。可实现全过程、全自动电脑调节控制，使机组控制更精确可靠。

冷水机组结构紧凑，占地面积小，重量轻，容易搬运。运转平衡安全，振动小，不需要复杂的基础，安装简单。机组自动保护功能：高低压保护，压缩机保护，电机过载、过热保护，防冻保护，冷水、冷却水断水保护，感温式易融塞，安全阀等。

Industrial water chiller series uses internationally renowned brands such as Copeland, Danfoss, Panasonic, and Daikin compressors, including scroll, piston, screw, semi-hermetic, and fully hermetic types. The entire unit is equipped with high-quality, high-efficiency copper tube fins, and industrial stainless steel condensers and evaporators, with materials meeting the highest industrial food-grade requirements.

Electrical components are sourced from world-renowned brands such as Siemens, Schneider Electric, and ABB, ensuring reliable quality and superior performance. This contributes to the advantages of the chiller unit, including its compact size, low noise, high energy efficiency, long lifespan, and ease of operation. A variety of refrigerants are available, including R22, as well as environmentally friendly refrigerants such as R134a and R407c, to meet the requirements of low-temperature and special environmental applications.

The chiller control unit adopts a high-precision main panel, a PLC programmable controller, a human-machine interface, and a full Chinese display. It can realize full-process, fully automatic computer adjustment and control, making the unit control more precise and reliable.

The Chiller unit features a compact structure, small footprint, light weight, and easy transport. It operates smoothly and safely with minimal vibration, requires no complex foundation, and is easy to install. The unit includes automatic protection functions such as high and low pressure protection, compressor protection, motor overload and overheat protection, freeze protection, chilled water and cooling water shortage protection, temperature-sensitive fusible plug, and safety valve.

【著名品牌配件
Famous brand
accessories】



艾默生干燥过滤器



丹佛斯视液镜



艾默生膨胀阀



施耐德电器元件

Emerson Dryer Filter Danfoss sight glasses Emerson expansion valve Schneider Electric Components

【处处精益求精 Striving for excellence in every aspect】



每一颗螺丝均为不锈钢材质



每一处电路都明确分类



每一处焊点都清洁处理



每一块钣金都严丝合缝

Each screw is made of stainless steel; Each circuit is clearly categorized;

Each solder joint was cleaned; Every sheet metal piece fits perfectly.

【冷水机服务保障



专注工业制冷 提供定制化解决方案

Specializing in industrial refrigeration, providing customized solutions.



安全运行5年以上 系统故障, <0.1%

System failure rate <0.1% after 5 years of safe operation.



一年保修, 终身维护 支持24小时紧急响应

One-year warranty, lifetime maintenance, and 24-hour emergency response support.

Chiller Service Guarantee】

风冷常温机组技术参数

Technical parameters of the air cooled ambient temperature chiller

型 号	Model		SCA-01	SCA-02	SCA-03	SCA-04	SCA-05	SCA-06	SCA-08	SCA-10
制冷量	Cooling capacity	KW	2.7	5.4	8.5	11.9	15	18	21.5	30
		103kcal/h	2.4	4.6	7.3	10.2	12.9	15.5	18.5	25.8
电 源	Power Supply	V/ph/Hz	220/1/50				380/3/50			
输入功率	Input Power	kw	1.34	2.19	3.19	4.73	5.23	6.13	7.76	10.54
压缩机类型	Compressor Type		转子式Rotor				全封闭高效涡旋式Scroll			
压缩机功率	Compressor Power	kw	0.88	1.69	2.45	3.8	4.3	5.2	6.2	8.6
水泵功率	Pump Power	kw	0.37	0.37	0.55	0.55	0.55	0.55	1.1	1.1
	Pump Head	m	20	20	20	20	20	20	20	20
冷冻水流量	Chilled Water Flow	m3/h	0.46	0.92	1.55	2	2.5	3.1	A	5
蒸发器形式	Evaporator Type		水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type							
水箱容积	Water Tank Volume	L	20	40	50	70	70	80	120	200
接管尺寸	Pipe Size	DN	15	20	25	25	25	25	40	40
冷凝器	Condenser		紫铜管套铝片高效翅片式Coil							
风 量	Air Volume	m3/h	1500	2800	4000	6500	6800	7500	9300	12000
风机功率	Fan power	W	90	130	190	380	380	380	460	840
冷 媒	Refrigerant		R22/R134a/R404							
节流方式	Throttle Mode		毛细管/膨胀阀Capillary Tube/Expansion Valve							
保护装置	Protector		高低压、过载、防冻、延时、超温、水流保护Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow							
噪音	Noise Level	dB (A)	58	59	60	62	62	62	64	65
机组重量	Weight	Kg	75	120	150	180	180	200	230	260
	长L	mm	600	600	1000	1200	1200	1250	1450	1650
	宽 W	mm	520	600	550	600	600	650	750	790
	高 H	mm	800	1000	1050	1100	1100	1200	1200	1300
型 号	Model		SCA-12	SCA-15	SCA-20	SCA-25	SCA-30	SCA-40	SCA-50	SCA-60
制冷量	Cooling capacity	KW	38	46.1	62.2	70.4	93.3	124.4	140.8	176
		103kcal/h	32.7	39.6	53.4	60.5	80.2	106.9	121	151.3
电 源	Power Supply	V/ph/Hz	220/1/50				380/3/50			
输入功率	Input Power	kw	12.34	15.6	20.1	24.1	29.05	39.55	49.2	56.6
压缩机类型	Compressor Type		全封闭高效涡旋式Scroll							
压缩机功率	Compressor Power	kw	10.4	12.3	16.2	20.2	24.3	32.4	40.4	50.5
水泵功率	Pump Power	kw	1.1	2.2	2.2	2.2	3.75	3.75	4	5.5
	Pump Head	m	20	20	20	20	20	20	20	20
冷冻水流量	Chilled Water Flow	m3/h	6.5	7.6	10.2	11.6	15.5	21.1	26.7	29.8
蒸发器形式	Evaporator Type		水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type							
水箱容积	Water Tank Volume	L	200	270	350	350	420	500	600	650
接管尺寸	Pipe Size	DN	40	50	50	50	65	80	80	80
冷凝器	Condenser		紫铜管套铝片高效翅片式Coil							
风 量	Air Volume	m3/h	13000	16000	20000	24000	29000	40000	48000	60000
风机功率	Fan power	W	840	1100	1700	1700	2550	3400	3900	4200
冷 媒	Refrigerant		R22/R134a/R404							
节流方式	Throttle Mode		膨胀阀Expansion Valve							
保护装置	Protector		高低压、过载、防冻、延时、超温、水流保护Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow							
噪音	Noise Level	dB (A)	65	67	68	68	68	68	68	68
机组重量	Weight	Kg	350	650	750	1200	1300	1500	1800	2100
	长 L	mm	1650	1850	2000	2150	2600	3300	3300	4100
	宽 W	mm	790	900	950	1000	1100	1500	1500	1500
	高 H	mm	1300	1650	1650	1700	1700	1600	1600	1600

说 明 Directions:

1、以上制冷量基于环境温度35℃, 进水温度12℃, 出水温度7℃

The cooling capacity is based on 35℃ambient temperature, 12℃ entering water temperature and 7℃ leaving water temperature.

2、本公司保留因技术需要更改产品权利，请关注公司网站或向相关业务人员咨询。

Our company reserves the right to change products as needed for technical reasons. Please visit our company website or consult with our relevant business personnel.

3、以上产品参数是标准型号，如需更大冷量或定制产品，请致电本公司详询。

The above product parameters are for standard models. For larger cooling capacity or customized products, please call our company for details.

风冷低温机组 (-5℃) 技术参数

Technical parameters of the air cooled cryogenic chiller (-5℃)

型 号	Model		SCA03L	SCA04L	SCA05L	SCA06L	SCA08L	SCA10L	SCA12L
制冷量	Cooling capacity	KW	6.2	7.7	9.95	12.4	15.4	19	24.8
		103kcal/h	5.3	6.6	8.5	10.6	13.2	16.3	21.3
电 源	Power Supply	V/ph/Hz				380/3/50			
输入功率	Input Power	kw	2.74	3.63	4.03	4.73	6.96	8.24	9.54
压缩机类型	Compressor Type		全封闭高效率涡旋式Scroll						
压缩机功率	Compressor Power	kw	2	2.7	3.1	3.8	5.4	6.3	7.6
水泵功率	Pump Power	kw	0.55	0.55	0.55	0.55	1.1	1.1	1.1
水泵扬程	Pump Head	m	20	20	20	20	20	20	20
冷冻水流量	Chilled Water Flow	m3/h	1.55	2	2.5	3.1	4	5	6.5
蒸发器形式	Evaporator Type		水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type						
水箱容积	Water Tank Volume	L	50	70	70	80	120	200	200
接管尺寸	Pipe Size	DN	25	25	25	25	40	40	40
冷凝器	Condenser		紫铜管套铝片高效率翅片式Coil						
风 量	Air Volume	m3/h	4000	6500	6800	7500	9300	12000	13000
风机功率	Fan power	W	190	380	380	380	460	840	840
冷 煤	Refrigerant		R22						
节流方式	Throttle Mode		毛细管/膨胀阀Capillary Tube/Expansion Valve						
保护装置	Protector		高低压、过载、防冻、延时、超温、水流保护						
噪 音	Noise Level	dB (A)	60	62	62	62	64	65	65
机组重量	Weight	Kg	180	210	210	250	280	300	400
外形尺寸 Dimension	长 L	mm	1000	1200	1200	1250	1450	1650	1650
	宽 W	mm	550	600	600	650	750	790	790
	高 H	mm	1050	1100	1100	1200	1200	1300	1300

型 号	Model		SCA15L	SCA20L	SCA25L	SCA30L	SCA40L	SCA50L	SCA60L
制冷量	Cooling capacity	KW	31.6	43.4	49.8	65.1	86.8	99.6	124.5
		103kcal/h	27.1	37.3	42.8	55.9	74.6	85.6	107
电 源	Power Supply	V/ph/Hz				380/3/50			
输入功率	Input Power	kw	12.8	16.6	18.3	25.3	29.4	33.1	41.9
压缩机类型	Compressor Type		全封闭高效率涡旋式Scroll						
压缩机功率	Compressor Power	kw	9.5	12.7	14.4	19	25.4	28.8	36
水泵功率	Pump Power	kw	2.2	2.2	2.2	3.75	3.75	4	5.5
水泵扬程	Pump Head	m	20	20	20	20	20	20	20
冷冻水流量	Chilled Water Flow	m3/h	7.6	10.2	11.6	15.5	21.1	26.7	29.8
蒸发器形式	Evaporator Type		水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type						
水箱容积	Water Tank Volume	L	270	350	350	420	500	600	650
接管尺寸	Pipe Size	DN	50	50	50	50	65	65	65
冷凝器	Condenser		紫铜管套铝片高效率翅片式Coil						
风 量	Air Volume	m3/h	16000	20000	24000	29000	40000	48000	60000
风机功率	Fan power	W	1100	1700	1700	2550	3400	3900	4200
冷 煤	Refrigerant		R22						
节流方式	Throttle Mode		膨胀阀Expansion Valve						
保护装置	Protector		高低压、过载、防冻、延时、超温、水流保护						
噪 音	Noise Level	dB (A)	67	68	68	68	68	68	68
机组重量	Weight	Kg	780	900	1300	1450	1700	2000	2400
外形尺寸 Dimension	长 L	mm	1850	2000	2150	2600	3300	3300	4100
	宽 W	mm	900	950	1000	1100	1500	1500	1500
	高 H	mm	1650	1650	1700	1700	1600	1600	1600

说 明 Directions:

1、以上制冷量基于环境温度35℃, 进水温度0℃, 出水温度-5℃。

The cooling capacity is based on 35℃ ambient temperature,0℃entering water temperature and -5℃ leaving water temperature.

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风冷低温机组(-10℃)技术参数

Technical parameters of the air cooled cryogenic chiller (-10℃)

cooled cryogenic chiller (-10℃)			SCA-3LH	SCA-4LH	SCA-5LH	SCA-6LH	SCA-8LH	SCA-10LH	SCA-12LH
型 号	Model		5. 5	6. 2	9. 3	10. 9	12. 4	18. 6	21. 8
制冷量	Cooling capacity	KW	4. 7	5. 3	7. 9	9. 3	10. 6	15. 9	18. 7
		103kcal/h	2. 9	3. 8	4. 6	5. 2	7. 5	9. 3	10. 5
电 源	Power Supply	V/ph/Hz				全封闭高效涡旋式Scroll			
输入功率	Input Power	kw							
压缩机类型	Compressor Type		2. 2	2. 9	3. 7	4. 3	6	7. 4	8. 6
压缩机功率	Compressor Power	kw	0. 55	0. 55	0. 55	0. 55	1. 1	1. 1	1. 1
水泵功率	Pump Power	kw	20	20	20	20	20	20	20
水泵扬程	Pump Head	m	1. 55		2. 5	3. 1	4	5	6. 5
冷冻水流量	Chilled Water Flow	m3/h		水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type					
蒸发器形式	Evaporator Type		50	70	70	80	120	200	200
水箱容积	Water Tank Volume	L	25	25	25	25	40	40	40
接管尺寸	Pipe Size	DN				紫铜管套铝片高效翅片式Coil			
冷凝器	Condenser		4000	6500	6800	7500	9300	12000	13000
风 量	Air Volume	m3/h	190	380	380	380	460	840	840
风机功率	Fan power	W				R404a			
冷 煤	Refrigerant					毛细管/膨胀阀Capillary Tube/Expansion Valve			
节流方式	Throttle Mode					高低压、过载、防冻、延时、超温、水流保护			
保护装置	Protector		Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow						
噪 音	Noise Level		60	62	62	62	64	65	65
		dB (A)	200	230	250	280	320	350	450
机组重量	Weight	Kg	1000	1200	1200	1250	1450	1650	1650
		长 L	550	600	600	650	750	790	790
外形尺寸Dimension	宽 W	mm	1050	1100	1100	1200	1200	1300	1300
		高 H							
型 号	Model		SCA-15LH	SCA-20LH	SCA-25LH	SCA30LH	SCA40LH	SCA50LH	SCA60LH
制冷量	Cooling capacity	KW	28. 7	38. 8	46	58. 2	77. 6	92	115
		103kcal/h	24. 6	33. 3	39. 5	50	66. 7	79	98. 9
电 源	Power Supply	V/ph/Hz				380/3/50			
输入功率	Input Power	kw	14. 4	18. 9	22. 6	28. 6	36. 9	45. 3	56. 4
压缩机类型	Compressor Type					全封闭高效涡旋式Scroll			
压缩机功率	Compressor Power	kw	11. 1	15	18. 7	22. 3	29. 8	37. 4	46. 7
水泵功率	Pump Power	kw	2. 2	2. 2	2. 2	3. 75	3. 75	4	5. 5
水泵扬程	Pump Head	m	20	20	20	20	20	20	20
冷冻水流量	Chilled Water Flow	m3/h	7. 6	10. 2	11. 6	15. 5	21. 1	26. 7	29. 8
蒸发器形式	Evaporator Type			水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type					
水箱容积	Water Tank Volume	L	270	350	350	420	500	600	650
接管尺寸	Pipe Size	DN	40	50	50	50	65	65	65
冷凝器	Condenser					紫铜管套铝片高效翅片式Coil			
风 量	Air Volume	m3/h	16000	20000	24000	29000	40000	48000	60000
风机功率	Fan power	W	1100	1700	1700	2550	3400	3900	4200
冷 煤	Refrigerant					R404a			
节流方式	Throttle Mode					膨胀阀Expansion Valve			
保护装置	Protector		高低压、过载、防冻、延时、超温、水流保护						
噪 音	Noise Level	dB (A)	Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow						
机组重量	Weight		67	68	68	68	68	68	68
		Kg	820	980	1400	1600	1850	2200	2600
外形尺寸Dimension	长 L	mm	1850	2000	2150	2600	3300	3300	4100
		宽 W	900	950	1000	1100	1500	1500	1500
	高 H	mm	1650	1650	1700	1700	1600	1600	1600

说明 Directions.

1、以上制冷量基于环境温度35℃,进水温度-5℃,出水温度-10℃

The cooling capacity is based on 35℃ambient temperature -5℃entering water temperature and-10℃leaving water temperature.

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风冷低温机组 (-20℃) 技术参数

Technical parameters of the air cooled cryogenic chiller (-10℃)

型 号	Model		SCA-3CH	SCA-4CH	SCA-5CH	SCA-6CH	SCA-8CH	SCA-10CH	SCA-12CH
制冷量	Cooling capacity	KW	3.7	5	6.2	7.4	10	12.5	14.8
		103kcal/h	3.1	4.3	5.3	6.3	8.6	10.7	12.7
电 源	Power Supply	V/ph/Hz				380/3/50			
输入功率	Input Power	kw	2.7	3.7	4.4	5.2	7.2	8.9	10.1
压缩机类型	Compressor Type			ω	全封闭高效涡旋式Scroll				
压缩机功率	Compressor Power	kw	2.2		3.7	4.3	6	7.4	8.6
水泵功率	Pump Power	kw	0.37	0.37	0.37	0.55	0.75	0.75	0.75
水泵扬程	Pump Head	m	20	20	20	20	20	20	20
冷冻水流量	Chilled Water Flow	m3/h	1.55	2	2.5	3.1	4	5	6.5
蒸发器形式	Evaporator Type			水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type					
水箱容积	Water Tank Volume	L	50	70	70	90	120	200	200
接管尺寸	Pipe Size	DN	20	20	20	25	25	25	25
冷凝器	Condenser				紫铜管套铝片高效翅片式Coil				
风量	Air Volume	m3/h	4000	6500	6800	7500	9300	12000	13000
风机功率	Fan power	W	190	380	380	380	460	840	840
冷煤	Refrigerant					R22			
节流方式	Throttle Mode					毛细管/膨胀阀Capillary Tube/Expansion Valve			
保护装置	Protector				高低压、过载、防冻、延时、超温、水流保护 Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow				
噪 音	Noise Level	dB (A)	60	62	62	64	65	66	66
机组重量	Weight	Kg	200	230	250	280	320	350	450
外形尺寸 Dimension	长 L	mm	1000	1200	1200	1250	1450	1650	1650
	宽 W	mm	550	600	600	650	750	790	790
	高 H	mm	1050	1100	1100	1200	1200	1300	1300
型 号	Model		SCA-15CH	SCA-20CH	SCA-25CH	SCA-30CH	SCA-40CH	SCA-50CH	SCA-60CH
制冷量	Cooling capacity	KW	19.5	26.6	31.6	39.9	53.2	63.2	79
		103kcal/h	16.7	22.8	27.1	34.3	45.7	54.3	67.9
电 源	Power Supply	V/ph/Hz				380/3/50			
输入功率	Input Power	kw	13.3	17.4	21.7	26.6	36.3	43.2	52.7
压缩机类型	Compressor Type				全封闭高效涡旋式Scroll				
压缩机功率	Compressor Power	kw	11.1	14.6	17.8	21.9	29.2	35.6	44.5
水泵功率	Pump Power	kw	1.1	1.1	2.2	2.2	3.75	3.75	4
水泵扬程	Pump Head	m	20	20	20	20	20	250	20
冷冻水流量	Chilled Water Flow	m3/h	7.6	10.2	11.6	15.5	21.1	26.7	29.8
蒸发器形式	Evaporator Type			水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type					
水箱容积	Water Tank Volume	L	270	350	350	420	500	600	650
接管尺寸	Pipe Size	DN	40	40	50	50	65	65	65
冷凝器	Condenser				紫铜管套铝片高效翅片式Coil				
风量	Air Volume	m3/h	16000	20000	24000	29000	40000	48000	60000
风机功率	Fan power	W	1100	1700	1700	2550	3400	3900	4200
冷煤	Refrigerant					R22			
节流方式	Throttle Mode					膨胀阀Expansion Valve			
保护装置	Protector				高低压、过载、防冻、延时、超温、水流保护 Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow				
噪 音	Noise Level	dB (A)	67	68	68	68	68	68	68
机组重量	Weight	Kg	820	980	1400	1600	1850	2200	2600
外形尺寸 Dimension	长 L	mm	1850	2000	2150	2600	3300	3300	4100
	宽 W	mm	900	950	1000	1100	1500	1500	1500
	高 H	mm	1650	1650	1700	1700	1600	1600	1600

说明 Directions:

1、以上制冷量基于环境温度35℃, 进水温度-15℃, 出水温度-20℃。

The cooling capacity is based on 35℃ambient temperature -15℃entering water temperature and -20℃ leaving water temperature.

2、本公司保留因技术需要更改产品权利，请关注公司网站或向相关业务人员咨询。

Our company reserves the right to change products as needed for technical reasons. Please visit our company website or consult with our relevant business personnel.

3、以上产品参数是标准型号，如需更大冷量或定制产品，请致电本公司详询。

The above product parameters are for standard models. For larger cooling capacity or customized products, please call our company for details.

风 冷 箱 型 冷 水 机 组

The air cooled box chiller

产品选项Product options

- 盐水蒸发器 Salt water evaporator
- 特殊电压 Special power supply
- 远程通讯接口 Remote communication interface

产品特征Products features

- 国际品牌全封闭涡旋式免维护压缩机。

International brand fully enclosed scroll compressor, maintenance-free.

- 电器及制冷系统原件全部采用世界知名品牌。
Electrical elements and refrigeration components are used from world-renowned brand.

- 按工业耐用型设计，内部可带不锈钢水箱和高扬程专用水泵。
Industrial and durable design,with Stainless steel water tank and High-lift pumps.

- 完备的故障保护高低压保护、排气保护、油位保护、水流保护、逆缺项保护、冷冻水防冻保护、冷却水过高保护等等

Comprehensive fault protection includes high and low pressure protection, exhaust protection, oil level protection, water flow protection, reverse phase protection, chilled water antifreeze protection, and coolant overheat protection, etc.

可选用环保型R407C、R134A 或 R404A 冷媒等。由于技术改进，外形尺寸很可能有所变更，外形尺寸仅供参考，敬请随时索取安装尺寸图。

Environmentally friendly refrigerants such as R407C, R134A, or R404A can be used. Due to technological improvements, the external dimensions may have changed. The external dimensions are for reference only; please request installation dimension drawings at any time.

常温型 (7℃) 技术参数

Technical parameters of the normal temperature type (7℃)

SP-														
机型Type		05ASZ	08ASZ	10ASZ	12ASZ	15ADZ	20ADZ	25ADZ	30AQZ	36ATZ	40AQZ	50AQZ	60AQZ	72AQZ
名义制冷量Nominal cooling capacity	kW	14.4	25.5	29	32.7	41.1	58	65.4	82.2	98.1	116	130.8	174	196.2
	10 ³ kcal/h	1.2	2.2	2.5	2.8	3.5	5	5.6	7.1	8.4	10	11.2	15	16.9
整机功率(kW)Machine power		4.7	7.3	9.7	10.9	14.3	19.4	22.3	29.1	32.2	38.2	43.8	57.9	65.2
整机运转电流(A)Machine operating current		9.4	14.3	17.8	19.5	27.1	35.6	41	54.2	57.8	69.6	78.1	105.7	117.2
压缩机Compressor	数量Quantity	1	1	1	1	2	2	2	4	3	4	4	6	6
	输入功率(KW)Refrigeration input power	4	6.1	8.1	9.1	12.4	16.2	18.2	24.7	27.3	32.4	36.4	48.5	54.6
	额定电流(A)Rated Current	7.7	11.6	14.6	16.1	22.7	29.2	32.3	45.4	48.4	58.4	64.5	87.5	96.8
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger												
	水流量(L/min)Flow	41	73	83	94	118	166	187	236	281	333	375	498.8	562.4
	水管接口Interface size	DN32	DN40	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN65	DN80	DN80
冷凝器Condenser		高效铜管与铝箔紧密胀接翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger												
冷凝风扇 Condensation axial fan	风机数量Quantity of fans	1	2	2	2	2	4	4	4	6	8	8	12	12
	风机总功率(KW)Fans power	0.2	0.5	0.9	1.1	1.1	1.7	1.9	2.2	2.7	3.6	4.4	5.4	6.6
	运转电流(A)Operating current	0.6	1.2	1.7	1.9	2.3	3.4	4.3	4.6	5	6.8	7.6	10.2	12.5
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵Highefficiency, low noise centrifugal water pump												
	输入功率(KW)Input power	0.55	0.75	0.75	0.75	1.1	1.5	2.2	2.2	2.2	2.2	3	4	4
	扬程(mH ₂ O) Head	22	25	22	25	23	22	22	22	21	22	23	24	23
水箱标称容积(L)Nominal tank volume		80	115	130	130	210	230	250	310	310	330	370	510	510
外形尺寸 Overall dimensions	长(nun)Length	1050	1500	1450	1450	1570	1650	1650	1930	2300	2900	2900	4270	4270
	宽(nun)Width	700	800	1000	1000	1000	1450	1450	1570	1400	1500	1500	1500	1500
	高(nun)Height	1090	1250	1410	1410	1510	1750	1750	1510	1550	1980	1980	2000	2000
重量Weight	机组略重(kg)Machine weight	180	350	450	500	700	830	1050	1250	1300	1350	1550	2150	2250
	运行略重(kg)Operating weight	260	465	580	630	910	1060	1300	1560	1600	1680	1920	2800	2900

名义工况：冷冻水进/出水温度12℃/7℃;环境干球温度35℃。

Condition:Cooling water inlet/outlet temperature 12℃/7℃;ambient dry bulb temperature 35℃

低温型(-5℃)技术参数

Technical parameters of the low temperature type (-5℃)

SP-														
机型Type		05ASZX	08ASZX	10ASZX	12ASZX	15ADZX	20ADZX	25ADZX	30AQZX	36ATZX	40AQZx	50AQZx	60AQZx	72AQZx
名义制冷量Nominal cooling capacity	kW	7.5	13.7	15.8	17.6	22.7	31.7	35.1	45.3	52.8	61.7	73	94.8	105.6
	10kcal/h	0.6	1.2	1.4	1.5	2	2.7	3	3.9	4.5	5.3	6.3	8.2	9.1
整机功率(KW)Machine power		4.7	7.4	9.6	10.8	14.5	19.1	23.9	29	31.8	37.6	43.2	57.2	64.4
整机运转电流(A)Machine operating current		9.3	14.3	17.6	19.3	27.6	35.2	40.5	55.2	57.1	68.9	77.2	104.7	115.9
压缩机Compressor	数量Quantity	1	1	1	1	2	2	2	4	3	4	4	6	6
	输入功率(KW)Refrigeration input power	3.9	6.1	8	9	12.3	15.9	19.8	24.6	26.9	31.8	35.8	47.8	53.8
	额定电流(A)Rated Current	7.6	11.6	14.4	15.9	23.1	28.8	31.8	46.2	47.7	57.7	63.6	86.5	95.5
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger												
	水流量(L/min)Flow	24	44	51	56	73	101	112	145	169	197	234	303.4	337.9
	水管接口Interface size	DN25	DN40	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN65	DN80	DN80
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器efficiency copper pipeandaluminum foil wing heat exchanger												
冷凝风扇 Condensation axial fan	风机数量Quantity of fans	1	2	2	2	2	4	4	4	6	8	8	12	12
	风机总功率(KW)Fans power	0.2	0.5	0.9	1.1	1.1	1.7	1.9	2.2	2.7	3.6	4.4	5.4	6.6
	运转电流(A)Operating current	0.6	1.2	1.7	1.9	2.3	3.4	4.3	4.6	5	6.8	7.6	10.2	12.5
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵Highefficiency,low noise centrifugal water pump												
	输入功率(kW)Input power	0.55	0.8	0.8	0.8	1.1	1.5	2.2	2.2	2.2	2.2	3	4	4
	扬程(mH ₂ O) Head	22	22	25	25	25	23	23	22	22	24	22	24	23
水箱标称容积(L)Nominal tank volume		80	115	130	130	210	230	250	310	310	330	370	510	510
外形尺寸 Overall dimensions	长(nun)Length	1050	1500	1450	1450	1570	1650	1650	1930	2300	2900	2900	4270	4270
	宽(nun)Width	700	800	1000	1000	1000	1450	1450	1570	1400	1500	1500	1500	1500
	高(nun)Height	1090	1250	1410	1410	1510	1750	1750	1510	1550	1980	1980	2000	2000
重量Weight	机组略重(kg)Machine weight	180	350	450	500	700	850	1080	1250	1300	1380	1550	2150	2250
	运行略重(kg)Operating weight	260	465	580	630	910	1080	1330	1560	1600	1710	1920	2800	2900

名义工况：冷冻水进/出水温度0C/-5℃；环境干球湿度35℃。机组冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Condition:Cooling water inlet/outlet temperature0℃/-5℃; ambient dry bulb temperature 35℃.Chilled water should be added by 25% glycol water or 20% calcium chloride as anti-freeze.

低温型(-15℃)技术参数

Technical parameters of the low temperature type (-15℃)

SP-											
机型Type		05ASZY	08ASZY	10ASZY	12ASZY	15ASZY	20ADZY	25ADZY	30ADZY	40AQZY	
名义制冷量Nominal cooling capacity	kW	5.3	7.4	10.6	12.3	13.5	21.2	24.6	27	42.4	
	10*kcal/h	0.5	0.6	0.9	1.1	1.2	1.8	2.1	2.3	3.6	
整机功率(KW)Machine power		5.5	8.2	10.6	12.3	13.4	20.2	24.7	27.3	41.5	
整机运转电流(A)Machine operating curent		10.5	15.6	19.6	22.8	25.2	37.9	45.6	51.3	77.1	
压缩机Compressor	数量Quantity	1	1	1	1	1	2	2	2	4	
	输入功率(kW)Refrigeration input power	4.7	7.2	9.1	10.7	118	18.2	21.4	23.6	36.4	
	额定电流(A)Rated Current	8.8	13.3	16.8	19.8	21.8	33.7	39.6	43.7	67.3	
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(L/min)Flow	19	27	38	44	48	76	88	97	152	
	水管接口Interface size	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
冷凝风扇 Condensation axial fan	风机数量Quantity of fans	1	2	2	2	2	6	4	4	8	
	风机功率(kW)Fans power	0.2	0.5	0.9	1.1	1.1	1.3	2.2	2.2	3.6	
	运转电流(A)Operating current	0.6	1.2	1.7	1.9	2.3	2.8	3.8	4.6	6.8	
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵Highefficiency,low noise centrifugal water pump									
	输入功率(kW)Input power	0.55	0.55	0.55	0.55	0.55	0.75	1.1	1.50	1.50	
	扬程(mH ₂ O) Head	23	21	20	21	19	23	24	23	22	
外形尺寸 Overall dimensions	长(nun)Length	1150	1500	1550	1550	1670	2000	2100	2300	3000	
	宽(mm)Width	800	1000	1100	1100	1150	1300	1350	1450	1600	
	高(mm)Height	1090	1290	1410	1410	1610	1550	1550	1820	2000	
重量Weight	机组略重(kg)Machine weight	260	290	370	470	620	850	1080	1280	1380	
	运行略重(kg)Operating weight	340	405	500	600	830	1080	1330	1590	1710	

名义工况：冷冻水进/出水温度-10℃/-15℃环境干球湿度35℃。机组冷冻侧采用40%乙二醇或25%氯化钙防冻液。

Nominal operating conditions: chilled water inlet/outlet temperature -10℃/-15℃, ambient dry-bulb humidity 35℃. The chilled side of the unit uses 40% ethylene glycol or 25% calcium chloride antifreeze.

风冷螺杆系列冷水机组

The air cooled screw
chiller



产品选项 Product options

- 盐水蒸发器 Salt water evaporator
- 全热回收/部分热回收 Whole heat recovery/partial heat recovery
- 特殊电压 Special power supply
- 无级能量调节 Stepless energy regulation
- 水泵/冷却塔控制 Pump/cooling tower control
- 远程通讯接口 Remote communication interface
- 变频 Frequency conversion

产品特征 Products features

- 采用国际知名品牌双螺杆压缩机，享有高效、低噪、低磨损和使用寿命长等特点。
Twin screw compressor brand is employed with high efficiency, low noise level, less wearing and long operation time.
- 采用4段式能量调节或0%-100%无段式自动调节。
Four stage volume control or 0%-100% automatic regulation.
- 采用德国西门子公司可编程控制器，液晶触摸屏，中英文人机界面。
It adopts a German Siemens PLC programmable controller, an LCD touch screen, and a Chinese-English human-machine interface.
- 完备的故障保护：高低压保护、排气保护、油位保护、水流保护、逆相序保护、冷冻水防流保护、冷却水过高保护等。
Comprehensive fault protection: high and low pressure protection, exhaust protection, oil level protection, water flow protection, reverse phase protection, chilled water anti-flow protection, cooling water over-temperature protection, etc.

产品规格 Products specifications

- 制冷剂类型：R22/R407P Refrigerant: R22/R407C
- 蒸发器最大水压：1.0MPa Evaporator max water pressure drop: 1.0MPa
- 蒸发器：水侧污垢系数0.018m²·P/KW Evaporator: Fouling factor 0.018m²·P/KW
- 电源制式：380V/3相/50Hz Power supply: 380V/3P/50Hz
- 允许电压波动：±5% Allowable voltage fluctuate: ±5%
- 允许频率波动：±2% Allowable frequency fluctuate: ±2%

风冷螺杆式冷(热)水机组技术参数(单压缩机)

Technical parameters of the air cooled screw (Heat) chiller (single compressor)

SA-											
机型Type		85S	115S	150S	160S	200S	220S	255S	270S	300S	320S
名义制冷量 Nominal cooling capacity	kW	85	115	150	160	200	220	255	270	300	320
	10 ⁴ kcal/h	7.3	9.9	12.9	13.8	17.2	18.9	21.9	23.2	25.8	27.5
名义制热量 Nominal heating capacity	kW	95	135	170	185	230	250	290	300	330	360
	10 ⁴ kcal/h	8.2	11.6	14.6	15.9	19.8	21.5	24.9	25.8	28.4	31
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		30.8	40.9	50.3	54.8	70.6	73.1	84	87.5	99.7	107.3
整机运转电流(A)Machine operating current		54.8	72	89	96.5	127	128.5	148.5	155	179	191
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	制冷功率(kW)Refrigeration power	27.5	36.5	45.5	50	61	66.5	75	78.5	86.5	94.5
	制冷电流(A)Refrigeration current	46.5	61	77	84.5	103	112	126	132.5	146	159
	制热功率(kW)Heating power	26.5	35	43.5	48	58.5	63.5	72	75.5	83	91
	制热电流(A)Heating current	44.5	58.5	74	81	98.5	107	120	127	140	152
	能量调节Energy regulation	0-33%-66%-100%					0-25%-50%-75%-100%				
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	14.6	19.8	25.8	27.5	34.4	37.8	43.8	46.4	51.5	55
	水压降(kPa)Water pressure drop	45	45	45	48	48	48	50	50	50	50
	配管管径(mm)Interface size	DN65			DN80			DN100			
冷凝器Condenser	型式Type	高效铜管与铝箔紧密贴合翅片式热交换器Efficiency copper pipe and aluminum foil wing heat									
	风机数量Quantity of fans	6	8	8	8	6	6	6	6	6	8
	单台功率Stand-alone power	0.6	0.6	0.6	0.6	1.6	1.1	1.5	1.5	2.2	1.6
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	17	23	30	32	40	45	52	55	60	65
外形尺寸 Overall dimensions	长(mm)Length	2500	2950	3000	3000	3500	3500	3700	3700	3700	4000
	宽(mm)Width	1400	1400	1400	1400	2150	2200	2200	2200	2200	2200
	高(mm)Height	1925	2050	2170	2170	2050	2120	2210	2210	2120	2120
重量weight	机组略重(kg)Machine weight	1900	2000	2200	2600	2850	3000	3200	3500	3800	3950
	运行略重(kg)Operating weight	2200	2300	2500	2900	3150	3300	3500	3800	4100	4250

SA-											
机型Type		350S	420S	445 S	490S	525S	545S	635S	700S	745S	840S
名义制冷量Nominal cooling capacity	kW	350	420	445	490	525	545	635	700	745	840
	10*kcal/h	30.1	36.1	38.3	42.1	45.2	46.9	54.6	60.2	64.1	72.2
名义制热量Nominal heating capacity	kW	400	470	500	550	590	610	710	780	830	940
	10*kcal/h	34.4	40.4	43	47.3	50.7	52.5	61.1	67.1	71.4	80.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		119.4	136.4	143.4	162	172.1	176.6	200.6	220.1	239.8	265.8
整机运转电流(A)Machine operating current		213	241.5	253	290	307	315	355	388	426	470.5
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	制冷功率(kW)Refrigeration power	105	122	129	140	150.5	155	179	198.5	211	237
	制冷电流(A)Refrigeration current	177	205.5	217	235	253	261	301	334	354	398.5
	制热功率(kW)Heating power	101	117	123.5	134	144	148.5	171.5	190	202	227
	制热电流(A)Heating current	170	197	208	225	242.5	250	288	320	334	382
	能量调节Energy regulation	0-25%-50%-75%-100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h)Flow	60.1	72.2	76.5	84.2	90.2	93.6	109.1	120.3	128	144.3
	水压降(kPa)Water pressure drop	52	55	55	58	60	60	62	70	75	80
	配管管径(mm)Interface size	DN125					DN150			DN150	
冷凝器Condenser	型式Type	高效铜管与铝箔紧密贴合翅片式热交换器Efficiency copper pipe and aluminum foil wing heat									
	风机数量Quantity of fans	8	8	8	10	12	12	12	12	16	16
	单台功率Stand-alone power	1.8	1.8	1.8	2.2	1.8	1.8	1.8	1.8	1.8	1.8
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	70	85	90	100	105	110	130	140	150	170
外形尺寸 Overall dimensions	长(mm)Length	4200	4500	5000	5800	5800	6500	6500	6500	8000	8000
	宽(mm)Width	2200	2200	2200	2250	2200	2200	2200	2200	2200	2200
	高(mm)Height	2250	2350	2350	2370	2350	2350	2450	2450	2450	2450
重weight	机组略重(kg)Machine weight	4350	4550	4850	5300	5500	5800	6250	6550	7350	7500
	运行略重(kg)Operating weight	4650	4850	5150	5600	5800	6100	6550	6850	7650	7800

制冷工况：冷冻水进/出水温度12℃/7℃环境干球湿度35℃

制热工况：热水出水温度45℃, 环境干球温度7℃, 环境湿球温度6℃。

Refrigeration condition: Cooling water inlet/outlet temperature12℃/7℃, ambient dry bulb temperature 35℃.

Heating condition: Hot water outlet temperature 45℃, ambient dry bulb temperature 7℃, ambient wet bulb temperature 6℃.

风冷螺杆式冷(热)水机组技术参数(双压缩机)

Technical parameters of the air cooled screw (Heat) chiller (double compressors)

机型Type		SA-									
名义制冷量Nominal cooling capacity	kW	170D	230D	300D	320D	400D	440D	510D	540D	600D	640D
	10 ⁴ kcal/h	14.6	19.8	25.8	27.5	34.4	37.8	43.9	46.4	51.6	55
名义制热量Ncaninal heating capacity	kW	190	270	340	370	460	500	580	600	660	720
	10 ⁴ kcal/h	16.3	23.2	29.2	31.8	39.6	43	49.9	51.6	56.8	61.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		62.2	80.2	103.8	112.8	139.6	150.6	169.2	176.2	193.4	209.4
整机运转电流(A)Machine operating current		111	140	186	201	250	268	300	313	343	369
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	制冷功率(kW)Refrigeration power	55	73	91	100	122	133	150	157	173	189
	制冷电流(A)Refrigeration current	93	122	154	169	206	224	252	265	292	318
	制热功率(kW)Heating power	53	70	87	96	117	127	144	151	166	182
	制热电流(A)Heating current	89	117	148	162	197	214	240	254	280	304
蒸发器Evaporator	能量调节Energy regulation	0-16.5%-33%-..100%				0-12.5%-25%-37.5%-..100%					
	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	29.2	39.5	51.5	55	68.7	75.6	87.6	92.8	103.1	110
	水压降(kPa)Water pressure drop	47	47	50	50	55	55	55	58	58	58
	配管管径(mm)Interface size	DN80	DN100			DN125			DN150		
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
	风机数量Quantity of fans	6	6	8	8	8	8	12	12	12	12
	单台功率Stand-alone power	1.2	1.2	1.6	1.6	2.2	2.2	1.6	1.6	1.7	1.7
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	34	46	60	64	80	90	104	110	120	130
外形尺寸Overall dimensions	长(mm)Length	3500	3500	4000	4000	4500	5000	5800	5800	6200	6200
	宽(mm)Width	2150	2200	2200	2200	2200	2200	2250	2200	2200	2200
	高(mm)He ight	2200	2200	2150	2250	2300	2350	2350	2350	2400	2550
重量weight	机组略重(kg)Machine weight	2800	3000	3900	4250	4650	4950	5600	5950	6250	6450
	运行略重(kg)Operating weight	3100	3300	4200	4550	4950	5250	5900	6250	6550	6750

机型Type		700D	840D	890D	980D	1050D	1090D	1270D	1400D	1490D	1680D
名义制冷量Nominal cooling capacity	kW	700	840	890	980	1050.0	1090.0	1270	1400.0	1490.0	1680
	10 ⁴ kcal/h	60.2	72.2	76.5	84.3	90.3	93.7	109.2	120.4	128.1	144.5
名义制热量Ncaninal heating capacity	kW	800	940	1000.0	1100	1180	1220.0	1420	1560.0	1660.0	1880
	10 ⁴ kcal/h	68.8	80.8	86	94.6	101.5	104.9	122.1	134.2	142.8	161.7
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		236.4	270.4	293.2	315.2	336.2	353.2	401.2	440.2	479.6	531.6
整机运转电流(A)Machine operating current		406.8	463.8	504.4	540.4	576.4	608.4	688.4	754.4	823.2	912.2
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机 Semi-closed 5:6 asymmetric twin-screw compressor									
	制冷功率(kW)Refrigeration power	210	244	258	280	301	310	358	397	422	474
	制冷电流(A)Refrigeration current	354	411	434	470	506	522	602	668	708	797
	制热功率(kW)Heating power	202	234	247	268	288	297	343	380	404	454
	制热电流(A)Heating current	340	394	416	450	485	500	576	640	668	764
	能量调节Energy regulation	0-12.5%-25%-37.5%-.100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	120.3	144.3	152.9	168.4	180.4	187.3	218.2	240.5	256	288.7
	水压降(kPa)Water pressure drop	52	55	55	58	60	60	62	70	75	80
	配管管径(mm)Interface size	DN150	DN200						DN250		
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
	风机数量Quantity of fans	12	12	16	16	16	24	24	24	32	32
	单台功率Stand-alone power	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.8	1.8
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	140	170	180	200	210	220	260	280	300	340
外形尺寸Overall dimensions	长(mm)Length	6500	8000	8900	9600	9600	14500	14500	14500	16000	16000
	宽(mm)Width	2200	2200	2200	2250	2250	2200	2200	2200	2200	2200
	高(mm)He ight	2450	2450	2450	2700	2700	2350	2450	2650	2350	2450
重量weight	机组略重(kg)Machine weight	6750	7650	7950	11000	12500	13000	14500	15500	15900	16200
	运行略重(kg)Operating weight	7050	7950	8250	11300	12800	13300	14800	15800	16200	16500

制冷工况：冷冻水进/出水温度12℃/7℃;环境干球湿度35℃。

制热工况：热水出水温度45℃,环境干球温度7℃,环境湿球温度6℃。

Refrigeration condition:Cooling water inlet/outlet temperature12℃/7℃, ambient dry bulb temperature 35℃.

Heating condition:Hot water outlet temperature 45℃,ambient dry bulb temperature 7℃,ambient wet bulb temperature 6℃.

风冷螺杆式低温机组技术参数(单压缩机)-5℃

Technical parameters of the air cooled screw cryogenic chiller (single compressor) -5℃

SA-											
机型Type		50SX	65SX	90SX	95 SX	115SX	130SX	150SX	160SX	175SX	190SX
名义制冷量Nominal cooling capacity	kW	48.9	66.9	88.1	95.9	116.9	128.4	151.7	160.3	175.4	189.8
	10 ⁴ kcal/h	4.2	5.8	7.6	8.3	10.1	11.1	13.1	13.8	15.1	16.3
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(KW)Machine power		28.3	37.3	46.1	50.1	64.7	66.6	76.6	80.1	91.4	98.1
整机运转电流(A)Machine operating current		50.3	66.3	81.4	88.1	116.6	117.4	136.1	142	164.5	175.5
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(kW)Refrigeration input	25	32.9	41.3	45.3	55.1	60	67.6	71.1	78.2	85.3
	额定电流(A)Rated Current	42	55.3	69.4	76.1	92.6	100.9	113.6	119.5	131.5	143.5
	能量调节Energy regulation	0-33%-66%-100%				0-25%-50%-75%-100%					
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	9.1	12.4	16.3	17.7	21.6	23.8	28.1	29.7	32.4	35.1
	水压降(kPa)Water pressure drop	45.3	41.5	54.2	48.3	48.4	43.6	41.1	47	47.9	47.6
	配管管径(mm)Interface size	DN65		DN80		DN100					
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
	风机数量Quantity of fans	6	8	8	8	6	6	6	6	6	8
	单台功率(kW)Stand-alone power	0.6	0.6	0.6	0.6	1.6	1.1	1.5	1.5	2.2	1.6
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	10.9	14.8	19.5	21.3	25.9	28.5	33.6	35.6	38.9	42.1
外形尺寸Overall dimensions	长(mm)Length	2500	2950	3000	3000	3500	3500	3700	3700	3700	4000
	高(mm)Height	1925	2050	2170	2170	2050	2120	2210	2210	2120	2120
重量weight	机组略重(kg)Machine weight	1900	2000	2200	2600	2850	3000	3200	3500	3800	3950
	运行略重(kg)Operating weight	2200	2300	2500	2900	3150	3300	3500	3800	4100	4250

SA-											
机型Type		210SX	245SX	260SX	290SX	310SX	325SX	380SX	415SX	440SX	500SX
名义制冷量Nominal cooling capacity	kW	208.8	248.8	262.7	287.8	311.8	323.9	377.4	414.2	442.4	498.7
	10 ⁴ kcal/h	18	21.4	22.6	24.8	26.8	27.9	32.5	35.7	38.1	42.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		109.3	124.6	130.8	148.1	157.3	161.7	183	200.6	218.9	242.6
整机运转电流(A)Machine operating current		195.6	221.3	231.7	267	282.2	289.5	325.3	355	391.6	431.4
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(kW)Refrigeration input	94.9	110.2	116.4	126.1	135.7	140.1	161.4	179	190.1	213.8
	额定电流(A)Rated Current	159.6	185.3	195.7	212	228.2	235.5	271.3	301	319.6	359.4
	能量调节Energy regulation	0-25%-50%-75%-100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	38.6	46	48.6	53.2	57.7	59.9	69.8	76.6	81.8	92.3
	水压降(kPa)Water pressure drop	46	48.5	40.8	45	41	45.9	50.3	44.8	46.1	49
	配管管径(mm)Interface size	DN125					DN150			DN150	
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
	风机数量Quantity of fans	8	8	8	10	12	12	12	12	16	16
	单台功率(kW)Stand-alone power	1.8	1.8	1.8	2.2	1.8	1.8	1.8	1.8	1.8	1.8
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	46.3	55.2	58.3	63.8	69.1	71.8	83.7	91.9	98.1	110.6
外形尺寸Overall dimensions	长(mm)Length	4200	4500	5000	5800	5800	6500	6500	6500	8000	8000
	宽(mm)Width	2200	2200	2200	2250	2200	2200	2200	2200	2200	2200
	高(mm)Height	2250	2350	2350	2370	2350	2350	2450	2450	2450	2450
重量weight	机组略重(kg)Machine weight	4350	4550	4850	5300	5500	5800	6250	6550	7350	7500
	运行略重(kg)Operating weight	4650	4850	5150	5600	5800	6100	6550	6850	7650	7800

制冷工况：冷冻水进/出水温度0℃/-5℃;环境干球湿度35℃。

温度条件：冷冻水出水温度范围-7℃~5℃。机组冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Refrigeration condition:Cooling water inlet/outlet temperature 0℃/-5℃; ambient dry bulb temperature 35℃.

Temperature term:Chilled water outlet temperature -7℃~5℃. Chilled water should be added by 25% glycol water or 20% calcium chloride as anti-freeze.

风冷螺杆式低温机组技术参数（双压缩机）-5℃

Technical parameters of the air cooled screw cryogenic chiller(double compressors)-5℃

SA-											
机型Type		100DX	130DX	180DX	190DX	230DX	260DX	300DX	320DX	350DX	380DX
名义制冷量Nominal cooling capacity	kW	97.9	133.9	176.2	191.8	233.9	256.8	303.4	320.6	350.7	379.6
	10 ⁴ kcal/h	8.4	11.5	15.2	16.5	20.1	22.1	26.1	27.6	30.2	32.7
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		57.2	73	95.4	103.4	127.8	137.6	154.4	161.4	176.8	191
整机运转电流(A)Machine operating current		102	128.6	170.8	184.2	229.2	245.8	275.2	287	314	338
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(kW)Refrigeration input	50	65.8	82.6	90.6	110.2	120	135.2	142.2	156.4	170.6
	额定电流(A)Rated Current	84	110.6	138.8	152.2	185.2	201.8	227.2	239	263	287
	能量调节Energy regulation	0-16.5%-33%-100%					0-12.5%-25%-37.5%-100%				
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	18.1	24.8	32.6	35.5	43.3	47.5	56.1	59.3	64.9	70.2
	水压降(kPa)Water pressure drop	45.3	41.5	54.2	48.3	48.4	43.6	41.1	47	47.9	47.6
	配管管径(mm)Interface size	DN80	DN100			DN125			DN150		
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
	风机数量Quantity of fans	6	6	8	8	8	8	12	12	12	12
	单台功率(kW)Stand-alone power	1.2	1.2	1.6	1.6	2.2	2.2	1.6	1.6	1.7	1.7
制冷剂Refrigerant		R22									
充注量(kg)Refrigerant volume		21.7	29.7	39.1	42.5	51.9	57	67.3	71.1	77.8	84.2
外形尺寸 Overall dimensions	长(mm)Length	3500	3500	4000	4000	4500	5000	5800	5800	6200	6200
	宽(mm)Width	2150	2200	2200	2200	2200	2200	2250	2200	2200	2200
	高(mm)Height	2200	2200	2150	2250	2300	2350	2350	2350	2400	2550
重量weight	机组略重(kg)Machine weight	2800	3000	3900	4250	4650	4950	5600	5950	6250	6450
	运行略重(kg)Operating weight	3100	3300	4200	4550	4950	5250	5900	6250	6550	6750

SA-											
机型Type		420DX	490DX	520DX	580DX	620DX	650DX	760DX	830DX	880DX	1000DX
名义制冷量Nominal cooling capacity	kW	417.7	497.7	525.5	575.6	623.6	647.8	754.7	828.4	884.8	997.5
	10 ⁴ kcal/h	36	42.8	45.2	49.5	53.7	55.8	65	71.3	76.2	85.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
整机功率(kW)Machine power		216.2	246.8	268	287.4	306.6	323.4	366	401.2	437.8	485.2
整机运转电流(A)Machine operating current		385.2	436.6	479.4	512	544.4	579	650.6	710	783.2	862.8
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(kW)Refrigeration input	189.8	220.4	232.8	252.2	271.4	280.2	322.8	358	380.2	427.6
	额定电流(A)Rated Current	319.2	370.6	391.4	424	456.4	471	542.6	602	639.2	718.8
	能量调节Energy regulation	0-12.5%-25%-37.5%-.100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow	77.3	92.1	97.2	106.5	115.4	119.8	139.6	153.3	163.7	184.5
	水压降(kPa)Water pressure drop	46	48.5	40.8	45	41	45.9	50.3	44.8	46.1	49
	配管管径(mm)Interface size	DN150	DN200						DN250		
冷凝器Condenser	型式Type	高效铜管与铝箔紧密胀接型翅片式热交换器Efficiency copper pipe and aluminum foil wing heat exchanger									
	风机数量Quantity of fans	12	12	16	16	16	24	24	24	32	32
	单台功率(kW)Stand-alone power	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.8	1.8
制冷剂Refrigerant		R22									
充注量(kg)Refrigerant volume		92.6	110.4	116.5	127.7	138.3	143.7	167.4	183.7	196.2	221.2
外形尺寸 Overall dimensions	长(mm)Length	6500	8000	8900	9600	9600	14500	14500	14500	16000	16000
	宽(mm)Width	2200	2200	2200	2250	2250	2200	2200	2200	2200	2200
	高(mm)Height	2450	2450	2450	2700	2700	2350	2450	2650	2350	2450
重量weight	机组略重(kg)Machine weight	6750	7650	7950	11000	12500	13000	14500	15500	15900	16200
	运行略重(kg)Operating weight	7050	7950	8250	11300	12800	13300	14800	15800	16200	16500

制冷工况：冷冻水进/出水温度0℃/-5℃；环境干球湿度35℃。

温度条件：冷冻水出水温度范围-7℃~5℃。机组冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Refrigeration condition: Cooling water inlet/outlet temperature 0℃/-5℃; ambient dry bulb temperature 35℃.

Temperature term: Chilled water outlet temperature -7℃~5℃. Chilled water should be added by 25% glycol water or 20% calcium chloride as anti-freeze

水冷工业冷水机组技术参数
Technical parameters of the
water cooled industrial chiller

型 号	Model								
制 冷 量	Cooling capacity	KW							
			103kcal/h	SCW-4	SCW-5	SCW-6	SCW-8	SCW-10	SCW-12
电 源	Power Supply	V/ph/Hz		11. 9	15	18	21. 5	30	38
输入功率	Input Power	kw	SCW-3	10. 2	12. 9	15. 5	18. 5	25. 8	32. 7
压缩机类型	Compressor Type		8. 5			380/3/50			
压缩机功率	Compressor Power	kw	7. 3	4. 3	4. 8	5. 7		9. 7	11. 5
水泵功率	Pump Power	kw				全封闭高效涡旋式Scroll			
冷冻水流量	Chilled Water Flow	m3/h	2. 45	3. 8	4. 3	5. 2	6. 2	8. 6	10. 4
冷却水流量	Cooling Water Flow	m3/h	0. 55	0. 55	0. 55	0. 55	1. 1	1. 1	1. 1
			1. 55	2	2. 5	3. 1	4		6. 5
蒸发器形式	Evaporator Type								
水箱容积	Water Tank Volume	L	1. 9	2. 3	3. 2	3. 7	4. 5	6. 2	7. 8
接管尺寸	Pipe Size	DN	水箱式/壳管式/不锈钢板式Water Tank Type/Shell and Tube Type/Stainless Steel Plate Type						
冷 凝 器	Condenser		50	70	70	80	120	200	200
冷 煤	Refrigerant		25	25	25	25	40	40	40
节流方式	Throttle Mode			壳管式/套管式Shell and Tube Type/Double-pipe Type					
保护装置	Protector					R22/R407C			
噪 音	Noise Level	dB (A)				毛细管/膨胀阀Capillary Tube/Expansion Valve			
机组重量	Weight	Kg				高低压、过载、防冻、延时、超温、水流保护			
						Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow			
外形尺寸 Dimension	长 L 宽 W 高 H	mm	58	58	58	58	62	62	62
		mm	100	120	130	180	200	230	250
		mm	1100	1100	1100	1050	1200	1200	1200
		mm	550	550	550	600	700	700	700
		mm	900	900	900	1150	1200	1200	1200
型 号	Model		SCW-15	SCW-20	SCW-25	SCW-30	SCW-40	SCW-50	SCW-60
制 冷 量	Cooling capacity	KW	46. 1	62. 2	70. 4	93. 3	124. 4	140. 8	176
		103kcal/h	39. 6	53. 4	60. 5	80. 2	106. 9	121	151. 3
电 源	Power Supply	V/ph/Hz				380/3/50			
输入功率	nput Power	kw	14. 5	18. 4	22. 4	28	36. 1	44. 4	56
压缩机类型	Compressor Type					全封闭高效涡旋式Scroll			
压缩机功率	Compressor Power	kw	12. 3	16. 2	20. 2	24. 3	32. 4	40. 4	50. 5
水泵功率	Pump Power	kw	2. 2	2. 2	2. 2	3. 75	3. 75	4	5. 5
冷冻水流量	Chilled Water Flow	m3/h	7. 6	10. 2	11. 6	15. 5	21. 1	26. 7	29. 8
冷却水流量	Cooling Water Flow	m3/h	9. 2	12	14. 3	17. 8	24	29	35
蒸发器形式	Evaporator Type					水箱式/壳管式/不锈钢板式Water Tank Type/Shell and Tube Type/Stainless Steel Plate Type			
水箱容积	Water Tank Volume	L	270	350	350	420	500	600	650
接管尺寸	Pipe Size	DN	50	50	50	65	80	80	80
冷凝器	Condenser					壳管式/套管式Shell and Tube Type/Double-pipe Type			
冷 煤	Refrigerant					R22/R407C			
节流方式	Throttle Mode					膨胀阀Expansion Valve			
保护装置	Protector					高低压、过载、防冻、延时、超温、水流保护			
						Pressure, Overload, Anti-freeze, Delay, Over-temperature, Water Flow			
噪 音	Noise Level	dB (A)	64	64	64	66	66	66	66
机组重量	Weight	Kg	300	600	700	1000	1200	1500	1700
		mm	1600	1800	1800	2000	2100	2100	2400
		mm	850	950	950	850	1200	1200	1200
		mm	1500	1500	1500	1750	1600	1600	1900

说明 Directions:

1、以上制冷量基于冷冻水进/出水温度0℃/-5℃,冷却水进/出水温度30℃/35℃。

Condition:Cooling water inlet/outlet temperature 0℃/-5℃,Condensate water inlet/outlet temperature 30℃/35℃.

2、本公司保留因技术需要更改产品权利, 请关注公司网站或向相关业务人员咨询。

Our company reserves the right to change products as needed for technical reasons. Please visit our company website or consult with our relevant business personnel.

3、以上产品参数是标准型号, 如需更大冷量或定制产品, 请致电本公司详询。

The above product parameters are for standard models. For larger cooling capacity or customized products, please call our company for details.

水冷低温机组-5℃技术参数

Technical parameters of the water cooled cryogenic chiller -5℃

机型Type		SCW-05L	SCW-08L	SCW-10L	SCW-12L	SCW-15L	SCW-20L	SCW-25L	SCW-30L	SCW-40L	SCW-50L
名义制冷量Nominal cooling capacity	kW	8.5	16	17.5	20	25.5	35	40	51	69	82.5
	104kcal/h	0.7	1.4	1.5	1.7	2.2	3	3.4	4.4	5.9	7.1
整机功率(kW)Machine power		3.7	5.6	7.1	8.2	11.3	14.1	15.7	21.7	28.2	32.4
整机运转电流(A)Machine operating current		7.9	11.3	13.9	15.6	23.6	27.7	29.8	45.6	55.5	61.6
压缩机Compressor	数量Quantity	1	1	1	1	1	2	2	2	4	4
	输入功率(kW)	3.1	4.9	6.3	7.1	9.8	12.6	14.2	19.5	25.2	28.4
	额定电流(A)Rated	6.8	9.8	12.4	13.4	20.6	24.7	26.8	41.2	49.5	53.6
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(L/min)Flow	27	51	56	64	82	112	128	163	221	264
	水管接口Interface size	DN25	DN32	DN40	DN40	DN50	DN65	DN65	DN65	DN65	DN65
冷凝器Condenser	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(L/min)Flow	33	60	68	78	101	136	155	202	270	318
	水管接口Interface size	DN25	DN32	DN40	DN40	DN50	DN65	DN65	DN65	DN65	DN65
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵High efficiency, low noise centrifugal water pump									
	输入功率(kW)Input	0.55	0.75	0.75	1.1	1.5	1.5	1.5	2.2	3	4
	扬程(mH2O)Head	22	22	25	25	25	23	23	25	24	22
水箱标称容积(L)Nominal tank volume		80	115	130	130	210	230	250	310	330	370
外形尺寸 Overall dimensions	长(mm)Length	1100	1200	1200	1200	1600	1800	1800	2000	2100	2100
	宽(mm)Width	550	700	700	700	850	950	950	850	1200	1200
	高(mm)Height	900	1200	1200	1200	1500	1500	1500	1750	1600	1600
重量weight	机组略重(kg) Machine weight	230	320	370	470	670	870	1080	1280	1380	1550
	运行略重(kg) Operating weight	310	435	500	600	880	1100	1330	1590	1710	1920

制冷工况：冷冻水进/出水温度0℃/-5℃，冷却水进/出水温度30℃/35℃。

Refrigeration condition: Cooling water inlet/outlet temperature 0℃/-5℃; ambient dry bulb temperature 30℃/35℃.

水冷低温机组-15℃技术参数

Technical parameters of the water cooled cryogenic chiller -15℃

机型Type		SCW-05LH	SCW-08LH	SCW-10LH	SCW-12LH	SCW-15LH	SCW-20LH	SCW-25LH	SCW-30LH	SCW-40LH
名义制冷量 Nominal cooling capacity	kW	6.4	9.5	12.9	15.6	18.3	25.8	31.2	36.6	51.6
	104kcal/h	0.5	0.8	1.1	1.3	1.6	2.2	2.7	3.1	4.4
整机功率(kW)Machine power		4.3	6.2	7.8	10	12	15.2	19.9	23.5	30.4
整机运转电流(A)Machine operating current		8.2	11.8	14.8	19	22.8	29	37.9	44.8	57.9
压缩机Compressor	数量Quantity	1	1	1	1	1	2	2	2	4
	输入功率(kW)Refrigeration	3.7	5.6	7.2	9.4	11.2	14.5	18.8	22.4	28.9
	额定电流(A)Rated Current	7.1	10.7	13.7	17.9	21.3	27.5	35.7	42.6	54.9
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger								
	水流量(L/min)Flow	21	32	43	52	61	86	104	122	172
	水管接口Interface size	DN20	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50
冷凝器Condenser	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger								
	水流量(L/min)Flow	29	43	58	72	85	115	143	169	231
	水管接口Interface size	DN20	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵High efficiency, low noise centrifugal water pump								
	输入功率(kW)Input power	0.55	0.55	0.55	0.55	0.75	0.75	1.1	1.1	1.5
	扬程(mH2O)Head	22	22	21	20	24	21	23	20	21
水箱标称容积(L)Nominal tank volume		80	115	130	130	210	230	250	310	330
外形尺寸 Overall dimensions	长(mm)Length	1100	1200	1200	1200	1600	1800	1800	2000	2100
	宽(mm)Width	550	700	700	700	850	950	950	850	1200
	高(mm)Height	900	1200	1200	1200	1500	1500	1500	1750	1600
重量weight	机组略重(kg)	250	330	380	480	690	890	1100	1300	1400
	运行略重(kg)Operating	330	445	510	610	900	1120	1350	1610	1730

制冷工况：冷冻水进/出水温度-10℃/-15℃，冷却水进/出水温度30℃/35℃。

Refrigeration condition: Cooling water inlet/outlet temperature -10℃/-15℃; ambient dry bulb temperature 30℃/35℃.

水冷螺杆系列冷水机组 Water cooled screw chiller



产品选项 Product options

- 盐水蒸发器 Salt water evaporator
- 全热回收/部分热回收 Whole heat recovery/partial heat recovery
- 特殊电压 Special power supply
- 无级能量调节 Stepless energy regulation
- 水泵/冷却塔控制 Pump/cooling tower control
- 远程通讯接口 Remote communication interface
- 变频 Frequency conversion

产品特征 Products features

- 采用国际知名品牌双螺杆压缩机，享有高效、低噪、低磨损和使用寿命长等特点。
It adopts a twin-screw compressor from an internationally renowned brand, and features high efficiency, low noise, low wear and tear and long service life.
- 采用4段式能量调节或0%-100%无段式自动调节。
Four stage volume control or 0%-100% automatic regulation.
- 采用德国西门子PLC可编程控制器，液晶触摸屏，中英文人机界面。
It adopts a German Siemens PLC programmable controller, an LCD touch screen, and a Chinese-English human-machine interface.
- 完备的故障保护：高低压保护、排气保护、油位保护、水流保护、逆缺项保护、冷冻水防冻保护、冷却水过高保护等等。
Comprehensive fault protection: high and low pressure protection, exhaust protection, oil level protection, water flow protection, reverse phase protection, chilled water antifreeze protection, coolant overheat protection, etc.
- 超宽冷冻水温度可变范围，满足低温工业使用要求。
The ultra-wide variable temperature range of chilled water meets the requirements of low-temperature industrial applications.

产品规格 Product specifications

- 制冷剂类型：R22/R407C
Refrigerant: R22/R407C
- 蒸发器/冷凝器最大水压：1.0MPa
Evaporator/condenser max water pressure drop: 1.0 MPa
- 冷凝器：水侧污垢系数 0.044m²C/KW
Condenser: Fouling factor 0.044m²,9C/KW
- 蒸发器：水侧污垢系数0.018m²C/KW
Evaporator: Fouling factor 0.018m²,9C/KW
- 允许电压波动：±5% Allowable voltage fluctuate: ±5%
- 允许频率波动：±2% Allowable frequency fluctuate: ±2%
- 电源制式：380V/3相/50Hz
Power supply: 380V/3P/50Hz

压缩机Compressor

选用国际品牌半封闭5:6非对称双螺杆压缩机，轴封泄露的可能性为零。采用双轴旋转排气设计，并使用最新开发的第四代型线，优化圆周速度，优良的齿型设计使机组具有更高的压缩效率。电机腔与压缩腔一体铸造，精度更高。双层压力补偿转子壳体，及其坚固，即使在高压状态也无膨胀，同时有效降低了机组的噪音。

It uses an internationally renowned semi-hermetic 5:6 asymmetric twin-screw compressor, eliminating the possibility of shaft seal leakage. Employing a dual-shaft rotary exhaust design and utilizing the latest fourth-generation profile, it optimizes circumferential speed, and its superior tooth design results in higher compression efficiency. The motor cavity and compression cavity are cast as a single piece for enhanced precision. The double-layer pressure-compensated rotor housing is extremely robust, preventing expansion even under high pressure, while effectively reducing unit noise.

热交换器 Heat exchanger

本系列机组冷凝器和蒸发器均为壳管式换热器，采用新型高效换热器结构。热交换器采用最先进的高效热铜管束，独特的换热管几何特性，增强管外核态沸腾所需的汽化核心，强化了管内流动扰动，同时延缓了水侧结垢，内、外壁经强化传热以得到最优的性能，较以往设计，现行的独特设计使传热效率提高30%。蒸发器的蒸发管采用内螺槽外凹牙强化传热技术，冷凝器的冷凝管采用内螺槽外绞牙技术，提高了蒸发器和冷凝器的传热效率和蒸发温度，最终提高机组的能效比。

Both the condenser and evaporator in this series of units are shell-and-tube heat exchangers, employing a new, high-efficiency heat exchanger structure. The heat exchanger utilizes state-of-the-art high-efficiency copper tube bundles with unique tube geometry, enhancing the vaporization nuclei required for nucleus boiling outside the tubes, strengthening internal flow disturbance, and simultaneously delaying water-side scaling. Enhanced heat transfer on both the inner and outer walls achieves optimal performance; compared to previous designs, this unique design improves heat transfer efficiency by 30%. The evaporator tubes employ internal spiral grooves and external concave threads to enhance heat transfer, while the condenser tubes use internal spiral grooves and external coiled threads, improving the heat transfer efficiency and evaporation temperature of both the evaporator and condenser, ultimately increasing the unit's energy efficiency ratio.

PL

具有良好的全中文人机对话界面实现前功能自动化控制，液晶显示屏即时显示机器工作状态，精确监控机组运行在最佳状态，其接触面板密封好，防水，防尘，抗腐蚀，按寿命长。具备与冷冻水泵、冷却水泵和冷却塔风机连锁控制功能

It features a user-friendly, fully Chinese human-machine interface for automated control of pre-functions. The LCD screen displays the machine's operating status in real-time, precisely monitoring the unit to ensure optimal operation. Its contact panel is well-sealed, waterproof, dustproof, corrosion-resistant, and has a long service life. It also has interlocking control functions with chilled water pumps, cooling water pumps, and cooling tower fans.

低温机组 Cryogenic chiller

SW 系列低温冷水机组是以知名品牌半封螺杆压缩机为主机，内吸气过滤器、油过滤器、油分离器、安全减压阀和保护模块等，无泄漏，噪声低，运行稳定。

The SW series cryogenic chiller unit uses a well-known brand semi-hermetic screw compressor as the main unit, and is equipped with an internal suction filter, oil filter, oil separator, safety pressure reducing valve and protection module, etc. It is leak-free, low-noise and stable in operation.

水冷螺杆系列冷水机组(单压缩机)

Water cooled screw chiller(Single compressor)

机型Type		100S	135S	175S	190S	235S	260S	300S	320S	350S	380S
名义制冷量Nominal cooling capacity	kW	98	135	175.6	191.1	233.3	255.6	301.1	317.8	347.8	380
	10 ³ kcal/h	8.4	11.6	15.1	16.4	20.1	22	25.9	27.3	29.9	32.7
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(KW)Refrigeration input power	23	30	39	42	51	56	63	66	73	80
	额定电流(A)Rated Current	39.2	51.6	64.7	71	86.4	94.1	105.9	111.4	122.7	133.8
	能量调节Energy regulation	0-33%-66%-100%				0-25%-50%-75%-100%					
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry highefficiency heat exchanger									
	水流量(m ³ /h)Flow	16.9	23.2	30.2	32.9	40.1	44	51.8	54.7	59.8	65.4
	水压降(kPa)Water pressure drop	45	45	48	48	50	50	50	55	55	55
	配管管径(mm)Interface size	DN65		DN80		DN100				DN125	
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m ³ /h)Flow	20.8	28.4	36.9	40.1	48.9	53.6	62.6	66	72.4	79.1
	水压降(kPa)Water pressure drop	42	42	45	45	48	48	48	52	52	52
	配管管径(mm)Interface size	DN65		DN80		DN100				DN125	
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	20	25	32	35	40	46	53	55	60	65
外形尺寸Overall dimensions	长(mm)Length	2310	2350	2420	2690	2690	2690	3080	3080	3080	3080
	宽(mm)Width	660	660	660	810	840	890	920	935	935	935
	高(mm)Height	1520	1550	1590	1600	1660	1660	1710	1710	1750	1750
重量weight	机组略重(kg)Machine weight	850	1050	1150	1270	1340	1430	1640	1710	1780	1850
	运行略重(kg)Operating weight	900	1150	1300	1420	1540	1670	1890	1930	1970	2050

SW-											
机型Type		415S	495S	520S	570S	620S	640S	740S	820S	870S	980S
名义制冷量Nominal cooling capacity	kW	415	495	521.1	571.1	617.8	642.2	741.8	821.1	871.7	981.8
	10kcal/h	35.7	42.6	44.8	49.1	53.1	55.2	63.8	70.6	74.9	84.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	56非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(KW)Refrigeration input power	88	103	108	118	126	130	150	167	177	199
	额定电流(A)Rated Current	148.8	172.8	182.5	197.7	212.8	219.6	253	280.7	298.1	335.2
	能量调节Energy regulation.	0-25%-50%-75%-100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry highefficiency heat exchanger									
	水流量(m ³ /h)Flow	71.4	85.1	89.6	98.2	106.3	110.5	128.6	141.2	150.8	169.9
	水压降(kPa)Water pressure drop	55	58	60	62	68	68	68	70	70	72
	配管管径(mm)Interface size	DN125		DN150				DN200			
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m ³ /h)Flow	86.5	102.9	108.2	118.5	127.9	132.8	154.4	170	181.2	204.1
	水压降(kPa)Water pressure drop	55	56	58	60	65	65	65	68	68	70
	配管管径(mm)Interface size	DN125		DN150				DN200			
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	70	85	90	100	110	120	140	165	170	185
外形尺寸Overall dimensions	长(mm)Length	3110	3340	3440	3440	3440	3440	3550	3550	3550	3550
	宽(mm)Width	995	995	1000	1000	1080	1280	1280	1310	1310	1325
	高(mm)Height	1870	1930	2020	2020	2020	2090	2090	2240	2240	2270
重量weight	机组路重(kg)Machine weight	2080	2300	2570	2850	2900	3100	3450	4050	4230	4450
	运行路重(kg)Operating weight	2330	2550	2950	3000	3200	3450	3750	4450	4600	4850

名义工况：冷冻水进/出水温度12℃/7℃；冷却水进/出水温度30℃/35℃。
温度条件：冷冻水出水温度范围5℃-15℃，冷却水进水温度范围19℃-33℃。
Nominal operating conditions: Chilled water inlet/outlet temperature 12℃/7℃；Cooling water inlet/outlet temperature 30℃/35℃。
Temperature conditions: Chilled water outlet temperature range 5℃-15℃；Cooling water inlet temperature range 19℃-33℃。

水冷螺杆式冷水机组技术参数(双压缩机)

Technical parameters of the water cooled screw chiller (Double compressors)

		Sw-									
机 型Type		830D	990D	1040D	1140D	1240D	1280D	1480D	1640D	1740D	1960D
名义制冷量Nominal cooling capacity	kW	830	990	1042.2	1142.2	1235.6	1284.4	1483.6	1642.2	1743.3	1963.6
	10*kcal/h	71.4	85.1	89.6	98.2	106.2	110.4	127.6	141.2	149.9	168.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
型 式Type		5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
压 缩 机Compressor	输入功率(KW)Refrigeration input power	176	206	216	236	252	260	300	334	354	398
	额定电流(A)Rated Current	297.6	345.6	365	395.4	425.6	439.2	506	561.4	596.2	670.4
能量调节Energy regulation		0-12.5%-25%-37.5%-100%									
型 式Type		高效壳管干式换热器Pipe dry high efficiency heat exchanger									
蒸发器Evaporator	水流量(m³/h)Flow	142.8	170.3	179.3	196.5	212.5	220.9	257.2	282.5	301.6	339.8
	水压降(kPa)Water pressure drop	65	68	68	70	70	72	72	73	73	75
配管管径(mm)Interface size		DN150	DN200							DN250	
型 式Type		高效壳管式换热器Pipe high efficiency heat exchanger									
冷 凝 器Condenser	水 流 量(m³ h)Flow	173.9	207.5	218.5	239.4	259	269.2	313.5	344.4	367.6	408.4
	水压降(kPa)Water pressure drop	62	65	65	67	68	68	70	70	72	72
配管管径(mm)Interface size		DN125*2	DN150*2					DN200*2			
制冷剂Refrigerant		R22									
类 型Type											
充注量(kg)Refrigerant volume		140	170	180	200	220	240	280	330	340	370
外形尺寸 Overall dimensions	长(mm)Length	3800	3830	3830	4100	4100	4100	4550	4580	4680	4720
	宽(mm)Width	1310	1360	1360	1390	1430	1500	1520	1530	1720	1720
	高(mm)Height	2100	2250	2250	2270	2280	2290	2500	2640	2640	2640
重 量weight	机组略重(kg)Machine weight	4000	4500	5300	6000	6300	7000	7300	8300	8450	8800
	运行略重(kg)Operating weight	4450	4950	6050	6600	6800	7550	7850	8900	9100	9300

			Sw-									
机 型Type			830D	990D	1040D	1140D	1240D	1280D	1480D	1640D	1740D	1960D
名义制冷量Nominal cooling capacity	kW		830	990	1042.2	1142.2	1235.6	1284.4	1483.6	1642.2	1743.3	1963.6
	10kcal/h		71.4	85.1	89.6	98.2	106.2	110.4	127.6	141.2	149.9	168.8
运行控制方式Run control			PLC可编程控制器全自动控制Use PLC microcomputer control									
电 源Power Supply			380V/3N/50HZ									
启动类型Startup type			Y-A									
型 式Type			5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
压 缩 机Compressor	输入功率(kW)Refrigeration input power		176	206	216	236	252	260	300	334	354	398
	额定电流(A)Rated Current		297.6	345.6	365	395.4	425.6	439.2	506	561.4	596.2	670.4
能量调节Energy regulation			0-12.5%-25%-37.5%...100%									
型 式Type			高效壳管干式换热器Pipe dry high efficiency heat exchanger									
蒸 发 器Evaporator	水流量(m³/h)Flow		142.8	170.3	179.3	196.5	212.5	220.9	257.2	282.5	301.6	339.8
	水压降(kPa)Water pressure drop		65	68	68	70	70	72	72	73	73	75
配管管径(mm)Interface size			DN150	DN200							DN250	
型 式Type			高效壳管式换热器Pipe high efficiency heat exchanger									
冷 凝 器Condenser	水流量(m³/h)Flow		173.9	207.5	218.5	239.4	259	269.2	313.5	344.4	367.6	408.4
	水压降(kPa)Water pressure drop		62	65	65	67	68	68	70	70	72	72
配管管径(mm)Interface size			DN125*2	DN150*2					DN200*2			
制 冷 剂Refrigerant			R22									
充注量(kg)Refrigerant volume			140	170	180	200	220	240	280	330	340	370
外形尺寸 Overall dimensions	长(mm)Length		3800	3830	3830	4100	4100	4100	4550	4580	4680	4720
	宽(mm)Width		1310	1360	1360	1390	1430	1500	1520	1530	1720	1720
	高(mm)Height		2100	2250	2250	2270	2280	2290	2500	2640	2640	2640
重 量weight	机组略重(kg)Machine weight		4000	4500	5300	6000	6300	7000	7300	8300	8450	8800
	运行略重(kg)Operating weight		4450	4950	6050	6600	6800	7550	7850	8900	9100	9300

名义工况：冷冻水进/出水温度0℃/-5℃； 冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-7℃~5℃;冷却水进水温度范围19℃~33℃。 机组冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature 0℃/-5℃; Cooling water inlet/outlet temperature 30℃/35℃.

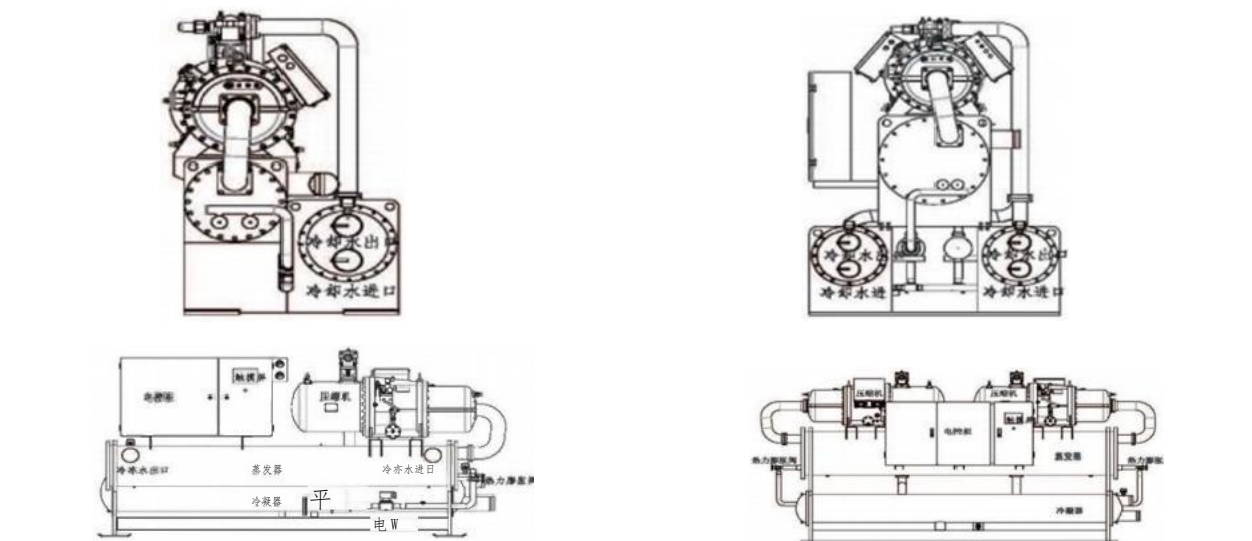
Temperature conditions: Chilled water outlet temperature range -7℃ to 5℃; Cooling water inlet temperature range 19℃ to 33℃.

The chilled water side of the unit uses 25% ethylene glycol or 20% calcium chloride antifreeze.

水冷螺杆式冷水机组技术参数(四压缩机)

Technical parameters of the water cooled screw chiller (Four compressors)

		SW-							
机型Type		2100Q	2300Q	2480Q	2570Q	2980Q	3300Q	3500Q	3950Q
名义制冷量Nominal cooling capacity	kW	2084.4	2284.4	2471.1	2568.9	2967.1	3284.4	3486.7	3927.1
	10 ⁴ kcal/h	179.3	196.5	212.5	220.9	255.2	282.5	299.9	337.7
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control							
电源Power Supply		380V/3N/50HZ							
启动类型Startup type		Y-A							
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6asymetrie twin-screw compressor							
	输入功率(kW)Refrigeration input power	432	472	504	520	600	668	708	796
	额定电流(A)Rated Current	730	790.8	851.2	878.4	1012	1122.8	1192.4	1340.8
	能量调节Energy regulation	0-6.25%-12.5%-18.75%-100%							
蒸发器Evaporator	型式Type	高效壳管式换热器Pipe dry high efficiency heat exchanger							
	水流量(m ³ h)Flow	358.2392.5424.6441.4509.8564.3599.1674.8							
	水压降(kPa)Water pressure drop	95							
	配接管径(mm)Interface size	DN200*2DN250*2							
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger							
	水流量(m ³ h)Flow	432.4473.6511.2530.7612.9679.1720.7811.5							
	水压降(kPa)Water pressure drop	90							
	配接管径(mm)Interface size	DN200*2DN250*2							
制冷剂Refrigerant	类型Type	R22							
	充注量(kg)Refrigerant volume	360	400	440	480	560	660	680	740
外形尺寸Overall dimensions	长(mm)Length	4150	4150	4150	4620	4620	5000	5000	5000
	宽(mm)Width	2600	2600	2600	2600	2600	2600	2600	2720
	高(mm)Height	2560	2560	2560	2600	2630	2650	2650	2700
重量weight	机组略重(kg)Machine weight	10500	11800	12850	13800	14600	15200	16850	17500
	运行略重(kg)Operating weight	12100	12500	13100	14300	15100	15800	17650	18800



名义工况：冷冻水进/出水温度12℃/7℃冷却水进/出水温度30℃/35℃。
温度条件：冷冻水出水温度范围5℃~15℃, 冷却水进水温度范围19℃~33℃。
Nominal operating conditions: Chilled water inlet/outlet temperature 12℃/7℃, Cooling water inlet/outlet temperature 30℃/35℃.
Temperature conditions: Chilled water outlet temperature range 5℃~15℃, Cooling water inlet temperature range 19℃~33℃.

水冷螺杆式低温机组技术参数 (单压缩机) -5℃

Technical parameters of the water cooled screw cryogenic chiller (Single compressor) -5℃

Sw-											
机型Type		60SX	80SX	105SX	115SX	140SX	150SX	180SX	190SX	210SX	225SX
名义制冷量Nominal cooling capacity	kW	58.9	80	105.3	113.7	138.9	152.6	180	189.5	208.4	225.3
	10kcal/h	5.1	6.9	9.1	9.8	11.9	13.1	15.5	16.3	17.9	19.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(kW)Refrigeration input power	21	28	35	38	46	50	57	60	66	72
	额定电流(A) Rated Curent	36.6	48	59.8	65.6	79.8	86.9	97	102	112.3	122.5
	能量调节Energy regulation	0-33%-66%-100%				0-25%-50%-75%-100%					
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h) Flow	10.9	14.8	19.5	21	25.7	28.2	33.3	35.1	38.6	41.7
	水压降(kPa) Water pressure drop	45	45	48	48	50	50	50	55	55	55
	配管管径(mm) Interface size	DN65		DN80		DN100				DN125	
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³/h) Flow	13.8	18.6	24.1	26.1	31.8	34.9	40.8	42.9	47.2	51.1
	水压降(kPa) Water pressure drop	42	42	45	45	48	48	48	52	52	52
	配管管径(mm) Interface size	DN65		DN80		DN100				DN125	
制冷剂Refrigerant	类型Type	R22									
	充注量(kg) Refrigerant volume	20	25	32	35	40	46	53	55	60	65
外形尺寸 Overall dimensions	长(mm) Length	2310	2350	2420	2690	2690	2690	3080	3080	3080	3080
	宽(mm) Width	660	660	660	810	840	890	920	935	935	935
	高(mm) Height	1520	1550	1590	1600	1660	1660	1710	1710	1750	1750
重量weight	机组略重(kg) Machine weight	850	1050	1150	1270	1340	1430	1640	1710	1780	1850
	运行略重(kg) Operating weight	890	1140	1290	1410	1530	1660	1800	1840	1880	1960

SW-											
机型Type		245SX	300SX	310SX	340SX	370SX	385SX	450SX	490SX	525SX	590SX
名义制冷量Nominal cooling capacity	kW	247.4	294.7	311.6	341.1	369.5	384.2	447.4	490.5	524.2	590.5
	10kcal/h	21.3	25.3	26.8	29.3	31.8	33	38.5	42.2	45.1	50.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration, input power	80	93	98	106	114	118	136	150	160	180
	额定电流(A) Rated Current	136.2	158.2	167	181	194.8	201	231.6	256.9	272.9	306.8
	能量调节Energy regulation	0-25%-50%-75%-100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry highefficiency heat exchanger									
	水流量(m7h) Flow	45.8	54.5	57.6	63.1	68.4	71.1	82.8	90.7	97	109.2
	水压降(kPa) Water pressure drop	55	58	60	62	68	68	68	70	70	72
	配管管径(mm) Interface size	DN125		DN150				DN200			
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³/h) Flow	56.3	66.7	70.4	76.9	83.2	86.4	100.3	110.2	117.7	132.5
	水压降(kPa) Water pressure drop	55	56	58	60	65	65	65	68	68	70
	配管管径(mm) Interface size	DN125		DN150				DN200			
制冷剂Refrigerant	类型Type	R22									
	充注量(kg) Refrigerant volume	70	85	90	100	110	120	140	165	170	185
外形尺寸 Overall dimensions	长(mm) Length	3110	3340	3440	3440	3440	3440	3550	3550	3550	3550
	宽(mm) Width	995	995	1000	1000	1080	1280	1280	1310	1310	1325
	高(mm) Height	1870	1930	2020	2020	2020	2090	2090	2240	2240	2270
重量weight	机组略重(kg) Machine weight	2080	2300	2570	2850	2900	3100	3450	4050	4230	4450
	运行略重(kg) Operating weight	2240	2460	2860	2960	3050	3300	3600	4300	4450	4700

名义工况：冷冻水进/出水温度0℃/-5℃;冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-7℃~5℃;冷却水进水温度范围19℃~33℃。机组冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature 0℃/-5℃; Cooling water inlet/outlet temperature 30℃/35℃.
Temperature conditions: Chilled water outlet temperature range -7℃~5℃; Cooling water inlet temperature range 19℃~33℃. The chilled water side of the unit uses 25% ethylene glycol or 20% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数 (双压缩机) -5℃

Technical parameters of the water cooled screw cryogenic chiller (Double compressors) -5℃

SW-											
机型Type		120DX	160DX	210DX	230DX	280DX	300DX	360DX	380DX	420DX	450DX
名义制冷量Nominal cooling capacity	kW	117.9	160	210.5	227.4	277.9	305.3	360	378.9	4168	450.5
	10kcal/h	10.1	13.8	18.1	19.6	23.9	26.2	31	32.6	35.8	38.7
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	42	56	70	76	92	100	114	120	132	144
	额定电流(A)Rated Current	73.2	96	119.6	131.2	159.6	173.8	194	204	224.6	245
	能量调节Energy regulation	0-16.5%-33%-..100%					0-12.5%-25%-37.5%-..100%				
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h)Flow	21.8	29.6	38.9	42.1	51.4	56.5	66.6	70.1	77.1	83.3
	水压降(kPa)Water pressure drop	50	50	52	52	54	54	55	55	58	60
	配管管径(mm)Interface size	DN100		DN125			DN150				
冷凝器Condenser	型式Type	高效壳管式换热器Pipe highefficiency heat exchanger									
	水流量(m³/h)Flow	27.5	37.2	48.3	52.2	63.6	69.7	81.5	85.8	94.4	102.3
	水压降(kPa)Water pressure drop	45	45	48	48	50	52	52	54	55	55
	配管管径(mm)Interface size	DN100		DN125	DN80*2	DN100*2				DN125*2	
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	40	50	64	70	80	92	106	110	120	130
外形尺寸 Overall dimensions	长(mm)Length	2950	2950	3250	3285	3285	3555	3540	3540	3800	3800
	宽(mm)Width	1060	1085	950	1000	1050	1050	1100	1200	1260	1310
	高(mm)Height	1545	1620	1630	1785	1900	1915	1920	1920	2020	2050
	机组略重(kg)Machine weight	1650	1850	2100	2300	2400	2600	3000	3050	3300	3750
重量weight	运行略重(kg)Operating weight	1885	2135	2535	2635	2720	3070	3510	3560	3880	4130

SW-											
机型Type		490DX	600DX	620DX	680DX	740DX	770DX	900DX	980DX	1050DX	1180DX
名义制冷量Nominal cooling capacity	kW	494.7	589.5	623.2	682.1	738.9	768.4	894.7	981.1	1048.4	1181.1
	10kcal/h	42.5	50.7	53.6	58.7	63.5	66.1	76.9	84.4	90.1	101.6
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	160	186	196	212	228	236	272	300	320	360
	额定电流(A)Rated Current	272.4	316.4	334	362	389.6	402	463.2	513.8	545.8	613.6
	能量调节Energy regulation	0-12.5%-25%-37.5%--100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³ h)Flow	91.5	109.1	115.3	126.2	136.7	142.2	165.5	181.5	194	218.5
	水压降(kPa)Water pressure drop	65	68	68	70	70	72	72	73	73	75
	配管管径(mm)Interface size	DN150	DN200						DN250		
冷凝器Condenser	型式Type	高效壳管式换热器Pipe highefficiency heat exchanger									
	水流量(m³ /h)Flow	112.6	133.4	140.9	153.8	166.3	172.8	200.7	220.3	235.4	265.1
	水压降(kPa)Water pressure drop	62	65	65	67	68	68	70	70	72	72
	配管管径(mm)Interface size	DN125*2		DN150*2						DN200*2	
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	140	170	180	200	220	240	280	330	340	370
外形尺寸 Overall dimensions	长(mm)Length	3800	3830	3830	4100	4100	4100	4550	4580	4680	4720
	宽(mm)Width	1310	1360	1360	1390	1430	1500	1520	1530	1720	1720
	高(mm)Height	2100	2250	2250	2270	2280	2290	2500	2640	2640	2640
重量weight	机组略重(kg)Machine weight	4000	4500	5300	6000	6300	7000	7300	8300	8400	8550
	运行路重(kg)Operating weight	4370	4870	5850	6550	6785	7535	7835	8885	9085	9285

名义工况：冷冷冻水进/出水温度0℃/-5℃;冷却水进/出水温度30℃/35℃。

温度条件：冷冷冻水出水温度范围-7℃~5°℃;冷却水进水温度范围19℃-33℃。机组冷冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature 0℃/-5℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -7℃~5℃; Cooling water inlet temperature range 19℃-33℃. The chilled water side of the unit uses 25% ethylene glycol or 20% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数(单压缩机)-15℃

Technical parameters of the water cooled screw cryogenic chiller (Single compressor) -15℃

名义制冷量Nominal cooling capacity		kW	40	55	75	80	100	105	125	130	140	155
		10 ³ kcal/h	3.4	4.7	6.4	6.9	8.6	9	10.7	11.2	12	13.3
运行控制方式Run control			PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply			380V/3N/50HZ									
启动类型Startup type			Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor										
	输入功率(KW)Refrigeration input power	19	25	30	34	42	45	50	53	58	64	
	额定电流(A)Rated Current	32.9	43.3	54.4	59.6	72.6	79.1	89	93.6	103.1	112.4	
	能量调节Energy regulation	0-33%-66%-100%				0-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger										
	水流量(m ³ /h)Flow	8	11.1	15.1	16.1	20.1	21.1	25.1	26.1	28.1	31.2	
	水压降(kPa)Water pressure drop	48	48	48	50	50	52	52	55	55	55	
	配管管径(mm)Interface size	DN50						DN65			DN80	
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger										
	水流量(m ³ /h)Flow	10.1	13.8	18.1	19.6	24.4	25.8	30.1	31.5	33.2	37.7	
	水压降(kPa)Water pressure drop	45	45	46	48	48	50	50	53	53	53	
	配管管径(mm)Interface size	DN50			DN65			DN80			DN100	
制冷剂Refrigerant	类型Type	R22										
	充注量(kg)Refrigerant volume	16	22	25	30	35	40	45	50	53	56	
外形尺寸 Oveall dimensions	长(mm)Length	2350	2350	2700	2700	2850	2850	3000	3000	3020	3020	
	宽(mm)Width	680	680	730	750	850	850	905	905	920	950	
	高(mm)Height	1300	1300	1510	1550	1600	1600	1670	1670	1730	1750	
重量weight	机组略重(kg)Machine weight	830	1030	1120	1240	1310	1390	1600	1670	1740	1810	
	运行略重(kg)Operating weight	1030	1230	1320	1490	1560	1640	1850	1970	2040	2110	

5w-											
机型Type		170SY	200ASY	210SY	230SY	250SY	260SY	300SY	330SY	360SY	400SY
名义制冷量Nominal cooling capacity	kW	170	200	210	230	250	260	300	330	360	400
	10kca/h	14.6	17.2	18.1	19.8	21.5	22.4	25.8	28.4	31	34.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	71	82	87	94	101	105	123	136	145	160
	额定电流(A)Rated Current	125.1	145.2	153.3	166.1	178.8	184.5	212.6	235.9	250.5	281.7
	能量调节Energy regulation	0-25%-50%-75%-100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h)Flow	34.2	40.2	42.2	46.2	50.3	52.3	60.3	66.3	72.4	80.4
	水压降(kPa)Water pressure drop	55	55	58	60	60	65	65	72	74	74
	配管管径(mm)Interface size	DN100					DN125				
冷凝器Condenser	型式Type	高效壳管式换热器Pipe highefficiency heat exchanger									
	水流量(m³/h)Flow	41.5	48.5	51.1	55.7	604	62.8	72.8	80.2	86.9	96.3
	水压降(kPa)Water pressure drop	54	54	56	58	58	62	62	70	72	72
	配管管径(mm)Interface size	DN100			DN125				DN150		
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	60	65	70	80	90	95	110	125	135	145
外形尺寸 Overall dimensions	长(mm)Length	3020	3300	3400	3400	3400	3400	3550	3550	3550	3550
	宽(mm)Width	980	980	1000	1000	1050	1050	1130	1250	1250	1300
	高(mm)Height	1770	1890	2010	2010	2010	2010	2090	2200	2200	2250
重量weight	机组略重(kg)Machine weight	2040	2250	2520	2800	2850	3030	3380	3780	4160	4380
	运行略重(kg)Operating weight	2340	2550	2820	3100	3200	3250	3430	3980	4380	4560

名义工况：冷冻水进/出水温度-10℃/-15℃;冷却水进/出水温度30℃/35℃。
温度条件：冷冻水出水温度范围-17℃/-7℃冷却水进水温度范围19℃~33℃。机组冷冻侧采用40%乙二醇或25%氯化钙防冻液
Nominal operating conditions: Chilled water inlet/outlet temperature -10℃/-15℃; Cooling water inlet/outlet temperature 30℃/35℃.
Temperature conditions: Chilled water outlet temperature range -17℃/-7℃; Cooling water inlet temperature range 19℃~33℃.
The chilled water side of the unit uses 40% ethylene glycol or 25% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数 (双压缩机) -15℃

Technical parameters of the water cooled screw cryogenic chiller (Double compressors) -15℃

5w-												
名义制冷量Nominal cooling capacity	机型Type		80DY	110DY	150DY	160DY	200DY	210DY	250DY	260DY	280DY	310DY
	kW		80	110	150	160	200	210	250	260	280	310
	10 ³ kcal/h		6.9	9.5	12.9	13.8	17.2	18.1	21.5	22.4	24.1	26.7
运行控制方式Run control			PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply			380V/3N/50HZ									
启动类型Startup type			Y-A									
压缩机Compressor	型式Type		5:6非对称半封闭双螺杆压缩机Semi-closed5:6 asymmetric twin-screw compressor									
	输入功率(KW)Refrigeration input power		38	50	60	68	84	90	100	106	116	128
	额定电流(A)Rated Current		65.8	86.6	108.8	119.2	145.2	158.2	178	187.2	206.2	224.8
蒸发器Evaporator	能量调节Energy regulation		0-16.5%-33%-..10%				0-12.5%-25%-37.5%-..100%					
	型式Type		高效壳管式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow		16.1	22.1	30.2	32.2	40.2	42.2	50.3	52.3	56.3	62.3
冷凝器Condenser	水压降(kPa)Water pressure drop		50	50	54	54	58	58	60	60	63	63
	配管管径(mm)Interface size		DN65		DN80		DN100				DN125	
	型式Type		高效壳管式换热器Pipe high efficiency heat exchanger									
制冷剂Refrigerant	水流量(m ³ /h)Flow		20.3	27.5	36.1	39.2	48.8	51.6	60.2	63	66.4	75.3
	水压降(kPa)Water pressure drop		45	45	48	48	52	52	55	55	58	58
	配管管径(mm)Interface size		DN80		DN100	DN65*2		DN80*2			DN100*2	
外形尺寸Overall dimensions	类型Type		R22									
	充注量(kg)Refrigerant volume		32	44	50	60	70	80	90	100	106	112
	长(mm)Length		2950	2950	2950	3150	3150	3150	3570	3570	3570	3570
重量weight	宽(mm)Width		1140	1140	1200	1000	1050	1050	1100	1100	1200	1250
	高(mm)Height		1480	1480	1500	1800	1850	1850	1850	1850	1900	1900
	机组略重(kg)Machine weight		1500	1700	1950	2150	2250	2450	2850	2900	3050	3500
运行略重(kg)Operating weight			1785	2035	2435	2535	2620	2970	3410	3460	3680	3930
sw-												
名义制冷量Nominal cooling capacity	机型Type		340DY	400DY	420DY	460DY	500DY	520DY	600DY	660DY	720DY	800DY
	kW		340	400	420	460	500	520	600	660	720	800
	10 ³ kcal/h		29.2	34.4	36.1	39.6	43	44.7	51.6	56.7	61.9	68.8
运行控制方式Run control			PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply			380V/3N/50HZ									
启动类型Startup type			Y-A									
压缩机Compressor	型式Type		5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor									
	输入功率(KW)Refrigeration input power		142	164	174	188	202	210	246	272	290	320
	额定电流(A)Rated Current		250.2	290.4	306.6	332.2	357.6	369	425.2	471.8	501	563.4
蒸发器Evaporator	能量调节Energy regulation		0-12.5%-25%-37.5%-..100%									
	型式Type		高效壳管式换热器Pipe dry high efficiency heat exchanger									
	水流量(m ³ /h)Flow		68.3	80.4	84.4	92.5	100.5	104.5	120.6	132.7	144.7	160.8
冷凝器Condenser	水压降(kPa)Water pressure drop		65	75	80	85	85	90	90	95	110	115
	配管管径(mm)Interface size		DN125			DN150					DN200	
	型式Type		高效壳管式换热器Pipe high efficiency heat exchanger									
制冷剂Refrigerant	水流量(m ³ /h)Flow		82.9	97	102.2	111.5	120.7	125.6	145.5	160.3	173.7	192.6
	水压降(kPa)Water pressure drop		58	60	60	60	65	65	70	70	72	74
	配管管径(mm)Interface size		DN100*2			DN125*2				DN150*2		
外形尺寸Overall dimensions	类型Type		R22									
	充注量(kg)Refrigerant volume		120	130	140	160	180	190	220	250	270	290
	长(mm)Length		3700	3700	3700	3700	3700	4500	4500	4500	4900	4900
重量weight	宽(mm)Width		1310	1310	1350	1350	1400	1400	1550	1550	1550	1600
	高(mm)Height		2150	2150	2380	2400	2400	2400	2470	2470	2470	2470
	机组略重(kg)Machine weight		3750	4250	5050	5750	5850	6550	6850	7850	7950	8100
运行路重(kg)Operating weight			4170	4670	5650	6350	6385	7135	7435	8485	8685	8885

名义工况：冷冻水进/出水温度-10℃/-15℃;冷却水进/出水温度30℃/35℃。
温度条件冷冻水出水温度范围-17℃/-7℃;冷却水进水温度范围19℃~33℃。机组冷冻侧采用40%乙二醇或25%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature -10℃/-15℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -17℃/-7℃; Cooling water inlet temperature range 19℃~33℃. The chilled side of the unit uses 40% ethylene glycol or 25% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数(单压缩机)-25℃

Technical parameters of the water cooled screw cryogenic chiller (Single compressor) -25℃

SW-											
机型Type		30ST	40ST	50ST	55AT	70ST	75ST	90ST	95ST	100ST	HOST
名义制冷量Nominal cooling capacity	kW	30	40	52	56	68	75	88.5	93.5	102	110
	10kcal/h	2.6	3.4	4.3	4.7	6	6.4	7.3	7.7	8.6	9.5
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	19.5	25.5	32	36.5	44	48.4	54.4	57.3	63	68.8
	额定电流(A)Rated Current	33	43.6	54.6	62.3	75.8	82.6	93	97.8	107.7	117.5
	能量调节Energy regulation	0-33%-66%-100%				0-25%-50%-75%-100%					
蒸发器Evaporator	型式Type	高效壳管式换热器Pipe dry high efficiency heat exchanger									
	水流量(m7h)Flow	6.4	8.5	10.6	11.7	14.8	15.9	18	19.1	21.2	23.3
	水压降(kPa)Water pressure drop	48	48	48	50	50	52	52	55	55	55
	配管管径(mm)Interface size	DN50				DN65				DN80	
冷凝器Condenser	型式Type	高效壳管式换热器Pipe highefficiency heat exchanger									
	水流量(m³/h)Flow	8.6	11.4	14.1	15.5	19.6	21	23.7	24.9	27.7	30.3
	水压降(kPa)Water pressure drop	45	45	46	48	48	50	50	53	53	53
	配管管径(mm)Interface size	DN50			DN65			DN80			DN100
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	7.7	10.2	14.1	15.4	19.2	20.5	23	24.3	26.9	29.4
外形尺寸Overall dimensions	长(mm)Length	2450	2450	2700	2850	2850	2850	2850	3250	3250	3250
	宽(mm)Width	660	660	660	890	890	920	920	920	960	985
	高(mm)Height	1450	1590	1590	1600	1690	1690	1690	1690	1750	1750
重量weight	机组略重(kg)Machine weight	880	1080	1170	1290	1360	1440	1650	1720	1790	1860
	运行略重(kg)Operating weight	1160	1360	1450	1620	1690	1770	1980	2140	2210	2280
SW-											
机型Type		120ST	145ST	155ST	170ST	180ST	190ST	220ST	240ST	260ST	290ST
名义制冷量Nominal cooling capacity	kW	122	145	153	168	182	187	220	241	258	290
	10kcal/h	10.5	12.5	13.2	14.4	15.6	16.1	18.9	20.7	22.2	24.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)	76.5	88.9	93.8	101.7	109.4	112.9	130	144	153	172
	Refrigeration, input power										
	额定电流(A)Rated Current	130.6	151.7	160.2	173.5	186.8	192.8	222.1	246.4	261.7	294.2
能量调节Energy regulation	0-25%-50%-75%-100%										
蒸发器Evaporator	型式Type	高效壳管式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h)Flow	25.4	29.7	31.8	35	37.1	39.2	44.5	49.8	53	59.4
	水压降(kPa)Water pressure drop	55	55	58	60	60	65	65	72	74	74
	配管管径(mm)Interface size	DN100				DN125					
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m7h)Flow	33.4	38.9	41.3	45.2	48.2	50.6	58.1	64.8	68.8	76.7
	水压降(kPa)Water pressure drop	54	54	56	58	58	62	62	70	72	72
	配管管径(mm)Interface size	DN100			DN125				DN150		
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	32	38.4	39.7	43.5	47.3	48.6	56.3	62.7	67.8	75.5
外形尺寸Overall dimensions	长(mm)Length	3250	3250	3250	3250	3250	3650	3650	3650	3800	3800
	宽(mm)Width	1000	1050	1050	1050	1100	1130	1130	1250	1250	1300
	高(mm)Height	1750	1752	1770	1770	1770	1870	1870	1870	1870	1950
重量weight	机组略重(kg)Machine weight	2090	2300	2570	2850	2900	3080	3430	4030	4210	4430
	运行略重(kg)Operating weight	2510	2720	2990	3270	3370	3450	3630	3980	4580	4760

名义工况：冷冻水进/出水温度-20℃/-25℃;冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-27°℃~17℃;冷却水进水温度范围19℃-33℃;机组冷冻侧采用50%乙二醇或27%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature -20℃/-25℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -27℃~17℃; Cooling water inlet temperature range 19℃-33℃;

The chilled side of the unit uses 50% ethylene glycol or 27% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数(双压缩机)-25℃

Technical parameters of the water cooled screw cryogenic chiller (Double compressors) -25℃

		SW-									
机型Type		60DT	80DT	100DT	110DT	140DT	150DT	180DT	190DT	200DT	220DT
名义制冷量Nominal cooling capacity	kW	60	80	104	112	136	150	177	187	204	220
	10 ³ kcal/h	5.2	6.9	8.6	9.5	12	12.9	14.6	15.5	17.2	18.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	39	51	64	73	88	96.8	108.8	114.6	126	137.6
	额定电流(A) Rated Curent	66	87.2	109.2	124.6	151.6	165.2	186	195.6	215.4	235
	能量调节Energy regulation	0-16.5%-33%---. 100%				0-12.5%-25%-37.5%--..100%					
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³ /h) Flow	12.7	17	21.2	23.3	29.7	31.8	36	38.2	424	46.6
	水压降(kPa) Water pressure drop	50	50	54	54	58	58	60	60	63	63
	配管管径(mm) Interface size	DN65		DN80		DN100			DN125		
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³ /h) Flow	17.2	22.7	28.2	31	39.2	42	47.5	49.9	55.4	60.5
	水压降(kPa) Water pressure drop	45	45	48	48	52	52	55	55	58	58
	配管管径(mm) Interface size	DN50*2		DN65*2		DN80*2			DN100*2		
制冷剂Refrigerant	类型Type	R22									
	充注量(kg) Refrigerant volume	15.4	20.5	28.1	30.7	38.4	40.9	46.1	48.6	53.7	58.9
外形尺寸 Overall dimensions	长(mm)Length	3570	3570	3570	3570	3570	3570	3570	3570	3570	4100
	宽(mm)Width	1050	1100	1190	1190	1240	1280	1320	1320	1380	1400
	高(mm)Height	1530	1530	1540	1580	1650	1650	1650	1650	1700	2100
重量weight	机组路重(kg) Machine weight	1700	1900	2150	2350	2450	2650	3050	3100	3350	3800
	运行路重(kg) Operating weight	2235	2485	2885	2985	3070	3420	3860	3910	4180	4430
SW-											
机型Type		240DT	290DT	310DT	340DT	360DT	380DT	440DT	480DT	520DT	580DT
名义制冷量Nominal cooling capacity	kW	244	290	306	336	364	374	440	482	516	580
	10 ³ kcal/h	21	24.9	26.3	28.9	31.3	32.2	37.8	41.4	44.4	49.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	153	177.8	187.6	203.4	218.8	225.8	260	288	306	344
	额定电流(A) Rated Current	261.2	303.4	320.4	347	373.6	385.6	444.2	492.8	523.4	588.4
	能量调节Energy regulation	0-12.5%-25%-37.5%--..100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³ /h) Flow	50.9	59.4	63.6	70	74.2	78.4	89	99.6	106	118.7
	水压降(kPa) Water pressure drop	65	75	80	85	85	90	90	95	110	115
	配管管径(mm) Interface size	DN125	DN150				DN200				
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³ /h) Flow	66.7	77.7	82.6	90.5	96.3	101.1	116.3	129.7	137.6	153.4
	水压降(kPa) Water pressure drop	54	54	56	58	58	62	62	70	72	72
	配管管径(mm) Interface size	DN100*2		DN125*2				DN150*2			
制冷剂Refrigerant	类型Type	R22									
	充注量(kg) Refrigerant volume	64	76.8	79.3	87	94.7	97.2	112.6	125.4	135.6	151
外形尺寸 Overall imensions	长(mm)Length	4100	4100	4500	4500	4500	4500	4500	4500	4900	4900
	宽(mm)Width	1400	1400	1450	1500	1500	1500	1550	1550	1550	1550
	高(mm)Height	2150	2150	2380	2400	2400	2400	2470	2470	2470	2470
重量weight	机组略重(kg) Machine weight	4050	4550	5350	6050	6150	6850	7150	8150	8250	8400
	运行略重(kg) Operating weight	4670	5170	6050	6750	6785	7535	7835	8885	9085	9285

名义工况：冷冻水进/出水温度-20℃/-25℃;冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-27°℃~17℃;冷却水进水温度范围19℃-33℃;机组冷冻侧采用50%乙二醇或27%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature -20℃/-25℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -27℃~17℃; Cooling water inlet temperature range 19℃-33℃; The chilled side of the unit uses 50% ethylene glycol or 27% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数 (单压缩机) -35℃

Technical parameters of the water cooled screw cryogenic chiller (Single compressor) -35℃

				sw-							
机型Type		16SZ	22SZ	29SZ	32SZ	40SZ	43SZ	50SZ	53SZ	58SZ	63SZ
名义制冷量Nominal cooling capacity	kW	16	22	29	32	40	43	50	53	58	63
	10kcal/h	1.4	1.9	2.5	2.8	3.4	3.7	4.3	4.6	5	5.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputr control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	17	23	29	31	39	42	48	50	55	60
	额定电流(A)Rated Current	30.2	41.1	53.7	57	71.7	73.5	82.7	88.7	97.6	104.2
	能量调节Energy regulation	0-33%-66%-100%				0-25%-50%-75%-100%					
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry highefficiency heat exchanger									
	水流量(m7h)Flow	3.5	4.9	6.4	7.1	8.8	9.5	11.1	11.7	12.8	13.9
	水压降(kPa)Water pressure drop	45	45	47	47	48	50	50	52	52	54
	配管管径(mm)Interface size	DN40				DN50				DN65	
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m7h)Flow	5.7	7.7	10	10.8	13.6	14.6	16.9	17.7	19.4	21.2
	水压降(kPa)Water pressure drop	35	35	46	46	47	48	48	50	50	50
	配管管径(mm)Interface size	DN40		DN50			DN65			DN80	
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	4.3	5.9	7.8	8.6	10.8	11.6	13.5	14.3	15.6	17
外形尺寸 Overall dimensions	长(mm)Length	2450	2450	2700	2850	2850	2850	2850	3250	3250	3250
	宽(mm)Width	660	660	660	890	890	920	920	920	960	985
	高(mm)Height	1450	1590	1590	1600	1690	1690	1690	1690	1750	1750
重量weight	机组略重(kg)Machine weight	880	1080	1170	1290	1360	1440	1650	1720	1790	1860
	运行略重(kg)Operating weight	1140	1340	1430	1600	1670	1750	1960	2120	2190	2260
sw-											
机型Type		69SZ	82SZ	87SZ	95SZ	103SZ	107SZ	123SZ	137SZ	148SZ	165SZ
名义制冷量Nominal cooling capacity	kW	69	82	87	95	103	107	123	137	148	165
	10kcal/h	5.9	7.1	7.5	8.2	8.9	9.2	10.6	11.8	12.7	14.2
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	66	78	82	90	97	100	116	129	138	153
	额定电流(A)Rated Current	111.9	131.9	142.7	155.5	165.2	172.1	201.2	220.8	238	265.1
	能量调节Energy regulation	0-25%-50%-75%-100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³ h)Flow	15.2	18.1	19.2	21	22.8	23.6	27.2	30.3	32.7	36.5
	水压降(kPa)Water pressure drop	58	58	60	60	62	65	68	70	70	72
	配管管径(mm)Interface size	DN80				DN100					
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³ h)Flow	23.2	27.5	29.1	31.8	34.4	35.6	41.1	45.8	49.2	54.7
	水压降(kPa)Water pressure drop	55	57	58	58	60	62	65	68	68	70
	配管管径(mm)Interface size	DN80			DN100				DN125		
制冷剂Retrieroerant	类型Type	R22									
	充注量(kg)Refrigerant volume	18.6	22.1	23.4	25.6	27.7	28.8	33.1	36.9	39.9	44.4
外形尺寸 Overall dimensions	长(mm)Length	3250	3250	3250	3250	3250	3650	3650	3650	3800	3800
	宽(mm)Width	1000	1050	1050	1050	1100	1130	1130	1250	1250	1300
	高(mm)Height	1750	1752	1770	1770	1770	1870	1870	1870	1870	1950
雷骷weieht	机组略重(kg)Machine weight	2090	2300	2570	2850	2900	3080	3430	3930	4210	4430
	运行路重(ka)Omeratina weiaht	2490	2700	2955	3235	3335	3415	3580	4130	4530	4710

名义工况：冷冻水进/出水温度-30℃/-35℃;冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-37℃~-27℃;冷却水进水温度范围19℃~33℃;机组冷冻侧采用57%乙二醇或30%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature -30℃/-35℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -37℃ to -27℃; Cooling water inlet temperature range 19℃ to 33℃; The chilled side of the unit uses 57% ethylene glycol or 30% calcium chloride antifreeze.

水冷螺杆式低温机组技术参数 (双压缩机) -35℃
Technical parameters of the water cooled screw cryogenic chiller (Double compressors) -35℃

		SW-									
机型Type		32DZ	44DZ	58DZ	64DZ	80DZ	86DZ	100DZ	106DZ	116DZ	126DZ
名义制冷量Nominal cooling capacity	kW	32	44	58	64	80	86	100	106	116	126
	10*kcal/h	2.8	3.8	5	5.5	6.9	7.4	8.6	9.1	10	10.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6asymmetrie twin-screw compressor									
	输入功率(KW)Refrigeration input power	34	46	58	62	78	84	96	100	110	120
	额定电流(A)Rated Current	60.4	82.2	107.4	114	143.4	147	165.4	177.4	195.2	208.4
	能量调节Energy regulation	0-16.5%-33%-.100%				0-12.5%-25%-37.5%-.100%					
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h)Flow	7.1	9.7	12.8	14.1	17.7	19	22.1	23.4	25.6	27.8
	水压降(kPa)Water pressure drop	50	50	52	52	54	54	55	58	58	60
	配管管径(mm)Interface size	DN50		DN65		DN80			DN100		
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³/h)Flow	11.4	15.5	20	21.7	27.2	29.2	33.7	35.4	38.9	42.3
	水压降(kPa)Water pressure drop	45	45	48	48	52	52	52	55	55	58
	配管管径(mm)Interface size	DN40*2		DN50*2		DN65*2			DN80*2		
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	8.6	11.9	15.6	17.2	21.5	23.2	26.9	28.5	31.2	33.9
外形尺寸 Overall dimensions	长(mm)Length	3570	3570	3570	3570	3570	3570	3570	3570	3570	4100
	宽(mm)Width	1050	1100	1190	1190	1240	1280	1320	1320	1380	1400
	高(mm)Height	1530	1530	1540	1580	1650	1650	1650	1650	1700	2100
重量weight	机组略重(kg)Machine weight	1625	1825	2065	2265	2365	2555	2955	3005	3255	3705
	运行略重(kg)Operating weight	1845	2045	2285	2535	2635	2825	3225	3325	3575	4025
SW-											
机型Type		138DZ	164DZ	174DZ	190DZ	206DZ	214DZ	246DZ	274DZ	296DZ	330DZ
名义制冷量Nominal cooling capacity	kW	138	164	174	190	206	214	246	274	296	330
	10*kcal/h	11.9	14.1	15	16.3	17.7	18.4	21.2	23.6	25.5	28.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control									
电源Power Supply		380V/3N/50HZ									
启动类型Startup type		Y-A									
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetrie twin-screw compressor									
	输入功率(kW)Refrigeration input power	132	156	164	180	194	200	232	258	276	306
	额定电流(A)Rated Current	223.8	263.8	285.4	311	330.4	344.2	402.4	441.6	476	530.2
	能量调节Energy regulation	0-12.5%-25%-37.5%-.100%									
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger									
	水流量(m³/h)Flow	30.5	36.2	38.5	42	45.5	47.3	54.4	60.6	65.4	72.9
	水压降(kPa)Water pressure drop	62	64	64	64	65	68	68	70	70	72
	配管管径(mm)Interface size	DN100	DN125						DN150		
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger									
	水流量(m³/h)Flow	46.4	55	58.1	63.6	68.8	71.2	82.2	91.5	98.4	109.4
	水压降(kPa)Water pressure drop	60	60	62	62	63	65	65	68	70	70
	配管管径(mm)Interface size	DN80*2		DN100*2				DN125*2			
制冷剂Refrigerant	类型Type	R22									
	充注量(kg)Refrigerant volume	37.2	44.2	46.9	51.2	55.5	57.6	66.3	73.8	79.7	88.9
外形尺寸 Overll dimensions	长(mm)Length	4100	4100	4500	4500	4500	4500	4500	4500	4900	4900
	宽(mm)Width	1400	1400	1450	1500	1500	1500	1550	1550	1550	1550
	高(mm)Height	2150	2150	2380	2400	2400	2400	2470	2470	2470	2470
重量weight	机组略重(kg)Machine weight	3955	4450	5250	5950	6250	6930	7230	8230	8330	8480
	运行路重(kg)Operating weight	4275	4770	5570	6270	6700	7380	7680	8680	8780	8930

名义工况：冷冻水进/出水温度-30℃/-35℃;冷却水进/出水温度30℃/35℃。
温度条件：冷冻水出水温度范围-37°℃~27℃;冷却水进水温度范围19℃-33℃;机组冷冻侧采用57%乙二醇或30%氯化钙防冻液。
Nominal operating conditions: Chilled water inlet/outlet temperature -30℃/-35℃; Cooling water inlet/outlet temperature 30℃/35℃.
Temperature conditions: Chilled water outlet temperature range -37℃~27℃; Cooling water inlet temperature range 19℃-33℃;
The chilled side of the unit uses 57% ethylene glycol or 30% calcium chloride antifreeze.

水冷螺杆单机双级机组技术参数 (-45℃)

Technical parameters of water cooled screw single-unit two-stage chiller (-45℃)



常规的单级螺杆压缩机，最低蒸发温度在-40℃。如果做到更低 的温度，则需要使用双级配打系统。同时高压比的工况，给传统的 单级压缩机带来很大的泄漏量过大，排温过高等问题，造成这种极限应用下单级压缩机效率低、可靠性低。而单机双级压缩，很好的 解决了上述问题。

Conventional single-stage screw compressors have a minimum evaporation temperature of -40℃. To achieve even lower temperatures, a two-stage compressor system is required. However, high-pressure operating conditions cause traditional single-stage compressors to experience excessive leakage and high discharge temperatures, resulting in low efficiency and reliability under these extreme applications. Single-stage two-stage compressors effectively solve these problems.

双级压缩机系统，其具有占地面积小，控制简单等显著优势。教之单级压缩系统，其具有高效、高可靠性等优势。适用于低温冷 冻产品、工艺冷却、制程冷却、医药生化等多类行业。

Two-stage compressor systems offer significant advantages such as small footprint and simple control. Single-stage compression systems, on the other hand, offer advantages such as high efficiency and high reliability. Both are suitable for various industries including cryogenic refrigeration products, process cooling, manufacturing cooling, and pharmaceuticals and biochemicals.

产品特征 Product Features

- 模块化搭配设计：高低压级的模块化设计，实现了不同高低压级间的可互换性。
- 高压级卸载型滑块：专利设计高压级自动卸载。纯机械结构设计，不需要额外配置电磁阀等外部零配件，简单，有效地实现压缩机轻载启动，
- 内建吸气止回阀：针对较大的机型，采用内建吸气止回阀的结构设计，减小安装空间。
- 电机冷却流道优化：提高压缩机效率的同时，现实了对电机的可靠冷却，从而使压缩机能运行非常宽广的范围内，适应性更强。
- 内建经济器进气滤：实现对压缩机的可靠性保护且简化系统配置。
- Modular design: The modular design of high and low voltage stages enables interchangeability between different high and low voltage stages.
- High-pressure stage unloading slider: Patented design for automatic high-pressure stage unloading. Purely mechanical structure design, requiring no additional external components such as solenoid valves, simply and effectively achieving light-load compressor start-up.
- Built-in suction check valve: For larger models, a built-in suction check valve is used to reduce installation space.
- Optimized motor cooling channel: While improving compressor efficiency, it also achieves reliable cooling of the motor, thereby enabling the compressor to operate over a very wide range and making it more adaptable.
- Built-in economizer intake filter: Provides reliable protection for the compressor and simplifies system configuration.

Sw-							
机型Type		35SLT	38SLT2	48SLT	50SLT2	125SLT	135SLT2
名义制冷量Nominal cooling capacity	kW	35	38	48	50	125	135
	10 ³ kcal/h	3	3.3	4.1	4.3	10.7	11.6
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control					
电源Power Supply		380V/3N/50HZ					
启动类型Startup type		Y-A					
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed5:6 asymmetrie twin-screw compressor					
	输入功率(KW)Refrigeration input power	33	37	40	46	116	131
	额定电流(A)Rated Current	56	64	68	78	196.5	222
	能量调节Energy regulation	0-25%-50%-75%-100%					
蒸发器Evaporator	型式Type	高效不锈钢板式换热器Stainless steel high efficiency heat exchanger					
	水流量(m ³ /h)Flow	16	17	22	24	58	62
	水压降(kPa)Water pressure drop	95	95	95	95	120	120
	配管管径(mm)Interface size	DN80	DN80	DN80	DN80	DN125	DN125
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger					
	水流量(m ³ /h)Flow	20	20	28	28	72	78
	水压降(kPa)Water pressure drop	80	80	80	80	46	46
	配管管径(mm)Interface size	DN80	DN80	DN80	DN80	DN150	DN150
制冷剂Refrigerant		R22					
外形尺寸 Overall dimensions	长(mm)Length	2880	2880	3200	3200	4100	4100
	宽(mm)Width	1100	1100	1100	1100	1300	1300
	高(mm)Height	1650	1680	1800	1850	2100	2150
重量weight	机组略重(kg)Machineweight	1280	1330	1850	1920	4500	4560
	运行略重(kg)Operating weight	1380	1420	2020	2080	4950	5050

名义工况：冷冻水进/出水温度-40℃/-45℃ 冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-47℃~-37℃;冷却水进水温度范围19℃~33℃。机组冷冻侧采用60%乙二醇防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature -40℃/-45℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -47℃ to -37℃; Cooling water inlet temperature range 19℃ to 33℃. The chilled water side of the unit uses 60% ethylene glycol antifreeze.

水冷螺杆复叠式机组 (-55℃) Water cooled screw cascade chiller (-55℃)



本系列机组最低出水温度可达-8℃

低温及超低温制冷机组是我公司主要技术人员经过数十年中低温冷水机组设计经验，

综合国内外同类产品的先进技术而设计开发的复叠制冷机组，具有高效、节能、环保、高可靠性等特点。

复叠机组主要用于-35℃~-80℃载冷剂，满足医药化工行业、反应釜结晶、高真空蒸馏、航空航天零部件实验、气体回收、食品冷藏、低温武器储藏及低温场合。

The lowest outlet water temperature of this series of units can reach -8℃.

Our low-temperature and ultra-low-temperature refrigeration units are cascade refrigeration units designed and developed by our company's main technical personnel based on decades of experience in designing medium- and low-temperature water chillers and integrating advanced technologies from similar products at home and abroad. They are characterized by high efficiency, energy saving, environmental protection, and high reliability.

Cascade units are mainly used for refrigerants in temperatures ranging from -35℃ to -80℃, meeting the needs of the pharmaceutical and chemical industries, reactor crystallization, high-vacuum distillation, aerospace component experiments, gas recovery, food refrigeration, cryogenic weapon storage, and other cryogenic applications.

产品特征 Product Features

- 温度使用范围宽广：载冷剂的温度范围-35℃~-80℃。
- 高可靠性：采用半封闭螺杆压缩机，提高压缩机自身运行的效率，同时避免了开启式压缩机泄漏问题，降低制冷剂添加及轴封更换，提升产品长年连续运行。
- 全自动化控制：机组采用先进的西门子PLC控制技术，实现全自动运行。
- 高效节能：机组采用半封闭螺杆压缩机带经济器运行，提高了运行效率，同时低温级和中间级采用高效进口换热器，确保机组部分负荷及满负荷均能高效节能运行。
- 能量调节：机组实现四级能调25-50-75-100%和25%~100%无极调节。
专业技术节能运行方案：可根据客户不同要求，为客户定做冷冻工艺，提供适合的专业产品。
- Wide operating temperature range: the refrigerant's temperature range is -35℃ to -80℃.
- High reliability: The semi-hermetic screw compressor improves the efficiency of the compressor itself, avoids the leakage problems of open compressors, reduces refrigerant addition and shaft seal replacement, and enhances the long-term continuous operation of the product.
- Fully automated control: The unit adopts advanced Siemens PLC control technology to achieve fully automatic operation.
- High efficiency and energy saving: The unit adopts a semi-hermetic screw compressor with an economizer, which improves operating efficiency. At the same time, the low temperature stage and intermediate stage use high-efficiency imported heat exchangers to ensure that the unit can operate efficiently and energy-savingly at both partial load and full load.
- Energy regulation: The unit achieves four-level energy regulation (25-50-75-100%) and stepless adjustment from 25% to 100%. Professional technical energy-saving operation solutions: We can customize refrigeration processes and provide suitable professional products according to different customer requirements.

SW								
机型Type		65DFD	90DFD	125DFD	170DFD	210DFD	250DFD	330DFD
名义制冷量Nominal coling capacity	kW	65	90	125	170	210	250	330
	10' kcal/h	5.6	7.7	10.7	14.6	18.1	21.5	28.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
低压级Low pressure level	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	制冷剂Refrigerant	R23						
	载冷剂Refrigerate	乙醇溶液Ethanol						
	输入功率(KW)Refrigeration input power	30	39	52	69	82	98	125
	额定电流(A) Rated Current	70	93	128	172	205	245	315
	水流量(m ³ /h)Flow	27.7	38.4	53.3	72.5	89.6	106.6	140.7
	水压降(kPa)Water pressure drop	95	100	100	110	110	120	120
	配管管径(mm)Interface size	DN80	DN80	DN100	DN100	DN125	DN125	DN150
高压级High pressure level	蒸发器Evaporator	高效不锈钢板式换热器Stainless steel high efficiency heat exchanger						
	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	制冷剂Refrigerant	R22/R404A						
	输入功率(KW)Refrigeration input power	46	60	80	105	130	160	205
	额定电流(A) Rated Current	121	153	202	265	335	390	500
	水流量(m ³ /h)Flow	28	38	51	69	85	102	132
	水压降(kPa)Water pressure drop	70	70	70	75	75	80	80
	配管管径(mm)Interface size	DN80	DN80	DN100	DN100	DN125	DN125	DN150
外形尺寸 Overall dimensions	冷凝器Condenser	高效壳管式换热器Pipe high efficiency heat exchanger						
	长(mm)Length	3000	3000	3200	3200	3200	5000	5000
	宽(mm)Width	1800	1800	1800	1800	1800	1900	1900
	高(mm)Height	1750	1800	1800	1850	1950	2250	2450
机组略重(kg)Machine weight		1850	2100	2300	2600	2800	3900	4500

名义工况：冷冻水进/出水温度-50℃/-55℃;冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-57℃~-47℃;冷却水进水温度范围19℃~33℃。机组冷冻侧采用乙醇防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature -50℃/-55℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -57℃ to -47℃; Cooling water inlet temperature range 19℃ to 33℃.

Ethanol antifreeze is used on the chilled side of the unit.

水冷箱型冷水机组

Water cooled box chiller

产品选项 Product options

- 盐水蒸发器 Salt water evaporator
- 特殊电压 Special power supply
- 远程通讯接口 Remote communication interface

产品特征 Products features

- 国际品牌全封闭涡旋式免维护压缩机。
International brand fully enclosed scroll compressor, maintenance-free.
- 电器及制冷系统原件全部采用世界知名品牌。
All electrical appliances and refrigeration system components are from world-renowned brands.
- 按工业耐用型设计，内部可带不锈钢水箱和高扬程专用水泵。
Industrial and durable design,with Stainless steel water tank and High-lift pumps.
- 完备的故障保护：高低压保护、排气保护、油位保护、水流保护、逆缺项保护，冷族水防冻保护、冷却水过高保护 等等
Comprehensive fault protection: high and low pressure protection, exhaust protection, oil level protection, water flow protection, reverse phase protection, chiller antifreeze protection, coolant overheat protection, etc.
- 可选用环保型R407C、R134A 或 R404A 冷媒等。
Environmentally friendly refrigerants such as R407C, R134A, or R404A can be used.



由于技术改进，外形尺寸很可能有所变更，外形尺寸仅供参考，敬请随时索取安装尺寸图。
Due to technological improvements, the external dimensions may change. The external dimensions are for reference only. Please feel free to request the installation dimension diagram.

常温型 (7℃) 技术参数

Technical parameters of the normal temperature type (7℃)

SP--												
机型Type		05WSZ	08WSz	10WSz	12WSZ	15WDZ	20WDZ	25WDZ	30WTZ	36WTZ	40WQz	50WQZ
名义制冷量 Nominal coling capacity	kW	159	28.6	31.7	36.3	46	63.4	72.6	95.1	108.9	130	150
	10%kcal/h	1.4	2.5	2.7	3.1	4	5.5	6.2	8.2	9.4	11.2	12.9
整机功率(kW)Machine power		3.8	5.7	7.2	8.4	11.2	14.5	16.2	21.6	24.2	28.9	33.3
整机运转电流(A)Machine operating curent		8	11.3	14.1	15.8	23.1	28.2	30.2	42.1	45.2	56.3	62.4
压缩机Compressor	数量Quantity	1	1	1	1	2	2	2	3	3	4	4
	输入功率(KW)Refrigeration input power	3.2	4.9	6.5	7.3	10.1	13	14.7	19.4	22	25.9	29.3
	额定电流(A)Rated Current	69	9.8	12.6	13.6	20.9	25.2	27.2	37.7	40.8	50.3	54.4
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry highefficiency heat exchanger										
	水流量(L/min)Fow	46	82	91	104	132	182	208	273	312	373	430
	水管接口Interface size	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN65
冷凝Condenser	型式Type	高效壳管干式换热器Pipe dry highefficiency heat exchanger										
	水流量(L/min)Flow	55	96	109	125	161	219	250	328	375	447	514
	水管接口Interface size	DN32	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN65
冷冻水泵 Ciled water pump	类型Type	高效率，低噪声离心冰泵High efficiency, low noise centrifugal water pump										
	输入功率(W)Input power	0.55	0.75	0.75	1.1	1.10	1.50	1.5	2.2	22	3	4.00
	扬程 (mH ₂ O) Head	22	25	22	25	23	22	22	22	22	22	22
水箱标称容积(L)Nominal tank volume		80	115	130	130	210	230	250	310	310	330	370
外形尺寸 Overall imensions	长(mm)Length	1300	1300	1350	1350	1570	1900	1900	2300	2300	2800	2800
	宽(mm)Width	750	850	850	850	1000	1100	1100	1300	1300	1500	1500
	高(mm)Height	1000	000	1200	1200	1100	1300	1300	1580	1580	1550	1550
重量Weight	机组路重(kg)Machine we ight	150	200	285	350	450	830	1050	1250	1300	1350	1550
	运行路重(kg)Operating weight	230	315	415	480	660	1060	1300	1560	1600	1680	1920

名义工况：冷冻水进/出水温度12℃/7℃;冷却水进/出水温度30℃/35℃

Nominal operating conditions: Chilled water inlet/outlet temperature 12℃/7℃; Cooling water inlet/outlet temperature 30℃/35℃

低温型(-5℃) 技术参数

Technical parameters of the cryogenic type (-5℃)

SP-												
机型Type		05Wszx	08Wszx	10WSZX	12WszX	15WDZX	20WDZX	25WDZX	30WTZX	36WTZX	40WQzx	50WQzx
名义制冷量Nominal cooling capacity	kW	8.5	16	17.5	20	25.5	35	40.0	51	60.0	69	82.5
	10 ⁴ kcal/h	0.7	1.4	1.5	1.7	2.2	3	3.4	4.4	5.2	5.9	7.1
整机功率(kW)Machine power		3.7	5.6	7.1	8.2	11.3	14.1	15.7	21.7	23.5	28.2	32.4
整机运转电流(A)Machine operating current		7.9	11.3	13.9	15.6	23.6	27.7	29.8	45.6	44.6	55.5	61.6
压缩机Compressor	数量Quantity	1	1	1	1	2	2	2	2	3	4	4
	输入功率(kW)Refrigeration input power	3.1	4.9	6.3	7.1	9.8	12.6	14.2	19.5	21.3	25.2	28.4
	额定电流(A)Rated Current	6.8	9.8	12.4	13.4	20.6	24.7	26.8	41.2	40.2	49.5	53.6
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger										
	水流量(L/min)Flow	27	51	56	64	82	112	128	163	192	221	264
	水管接口Interface size	DN25	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN65
冷凝器Condenser	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger										
	水流量(L/min)Flow	33	60	68	78	101	136	155	202	233	270	318
	水管接口Interface size	DN25	DN32	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	DN65
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵High efficiency, low noise centrifugal water pump										
	输入功率(kW)Input power	0.55	0.75	0.75	1.10	1.50	1.50	1.5	2.2	2.2	3	4.00
	扬程(mH ₂ O) Head	22	22	25	25	25	23	23	25	25	24	22
水箱标称容积(L)Nominal tank volume		80	115	130	130	210	230	250	310	310	330	370
外形尺寸 Overall dimensions	长(mm)Length	1300	1300	1350	1350	1570	1900	1900	2300	2300	2800	2800
	宽(mm)Width	750	850	850	850	1000	1100	1100	1300	1300	1500	1500
	高(mm)Height	1000	1000	1200	1200	1100	1300	1300	1580	1580	1550	1550
重量Weight	机组略重(kg)Machine weight	230	320	370	470	670	870	1080	1280	1320	1380	1550
	运行略重(kg)Operating weight	310	435	500	600	880	1100	1330	1590	1650	1710	1920

名义工况：冷冻水进/出水温度0℃/-5℃;冷却水进/出水温度30℃/35℃。机组冷冻侧采用25%乙二醇或25%氯化钙防冻液。

Nominal operating conditions: chilled water inlet/outlet temperature 0℃/-5℃; cooling water inlet/outlet temperature 30℃/35℃. The chilled side of the unit uses 25% ethylene glycol or 25% calcium chloride antifreeze.

低温型(-15℃) 技术参数

Technical parameters of the cryogenic type (-15℃)

SP-										
机型Type		05WSZY	08WSZY	10WSZY	12WSZY	15WSZY	20WDZY	25WDZY	30WDZY	40WQZY
名义制冷量Nominal cooling capacity	kW	6.4	9.5	12.9	15.6	18.3	25.8	31.2	36.6	51.6
	10 ⁴ kcal/h	0.5	0.8	1.1	1.3	1.6	2.2	2.7	3.1	4.4
整机功率(kW)Machine power		4.3	6.2	7.8	10	12	15.2	19.9	23.5	30.4
整机运转电流(A)Machine operating current		8.2	11.8	14.8	19	22.8	29	37.9	44.8	57.9
压缩机Compressor	数量Quantity	1	1	1	1	1	2	2	2	4
	输入功率(kW)Refrigeration input power	3.7	5.6	7.2	9.4	11.2	14.5	18.8	22.4	28.9
	额定电流(A)Rated Current	7.1	10.7	13.7	17.9	21.3	27.5	35.7	42.6	54.9
蒸发器Evaporator	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger								
	水流量(L/min)Flow	21	32	43	52	61	86	104	122	172
	水管接口Interface size	DN20	DN25	DN32	DN32	DN40	DN50	DN50	DN50	DN50
冷凝器Condenser	型式Type	高效壳管干式换热器Pipe dry high efficiency heat exchanger								
	水流量(L/min)Flow	29	43	58	72	85	115	143	169	231
	水管接口Interface size	DN20	DN25	DN32	DN32	DN40	DN40	DN50	DN50	DN50
冷冻水泵 Chilled water pump	类型Type	高效率，低噪声离心水泵High efficiency, low noise centrifugal water pump								
	输入功率(kW)Input power	0.55	0.55	0.55	0.55	0.75	0.75	1.1	1.10	1.50
	扬程(mH ₂ O) Head	22	22	21	20	24	21	23	20	21
外形尺寸 Overall dimensions	长(mm)Length	1800	1800	1850	1850	2000	2600	2600	2800	3300
	宽(nun)Width	950	1050	1050	1050	1100	1250	1250	1400	1800
	高(mm)Height	1000	1000	1100	1200	1200	1400	1400	1400	1600
重量Weight	机组略重(kg)Machine we ight	250	330	380	480	690	890	1100	1300	1400
	运行略重(kg)Operating weight	330	445	510	610	900	1120	1350	1610	1730

名义工况：冷冻水进/出水温度-1℃/-15℃;冷却水进/出水温度30℃/35℃。机组冷冻侧采用40%乙二醇或25%氯化钙防冻液。

Nominal operating conditions: chilled water inlet/outlet temperature -1℃/-15℃; cooling water inlet/outlet temperature 30℃/35℃. The chilled side of the unit uses 40% ethylene glycol or 25% calcium chloride antifreeze.

水冷螺杆满液式系列机组 Water cooled screw flooded chiller



产品选项 Product options

- 盐水蒸发器 Salt water evaporator
- 无级能量调节 Stepless energy regulation
- 水泵/冷却塔控制 Pump/cooling tower control
- 特殊电压 Special power supply
- 远程通讯接口 Remote communication interface

产品特征 Products features

- 采用国际知名品牌双螺杆压缩机，享有高效、低噪、低磨损和使用寿命长等特点。

It adopts a twin-screw compressor from an internationally renowned brand, and features high efficiency, low noise, low wear and tear and long service life.

- 采用4段式能量调节或0%-100%无段式自动调节。

Four stage volume control or 0%-100% automatic regulation.

- 采用德国西门子PLC可编程控制器，液晶触摸屏，中英文人机界面。

It adopts a German Siemens PLC programmable controller, an LCD touch screen, and a Chinese-English human-machine interface.

- 完备的故障保护：高低压保护、排气保护、油位保护、水流保护、逆缺项保护、冷冻水防冻保护、冷却水过高保护等等。高效节能，比干式同类产品能耗降低10%-15%。

Comprehensive fault protection: high and low pressure protection, exhaust protection, oil level protection, water flow protection, reverse phase protection, chilled water antifreeze protection, and overheating protection, etc. Highly efficient and energy-saving, reducing energy consumption by 10%-15% compared to similar dry-type products.

电子膨胀阀 Electronic expansion valve

电子膨胀阀具有比例积分式调节的卓越技术，降低运行成本。电子膨胀阀电机与阀体为一体，耐磨损，可靠性高，寿命极长。电子膨胀阀允许更好地控制空调机组降陶瓷材料的阀板和阀口部件，有效地提高了蒸发温度，同时降低了吸气过热度，使机组能效比大大提高。

Electronic expansion valves feature superior proportional-integral control technology, reducing operating costs. The motor and valve body are integrated, ensuring wear resistance, high reliability, and an extremely long lifespan. Electronic expansion valves allow for better control of the ceramic valve plate and valve port components in air conditioning units, effectively increasing evaporation temperature while reducing suction superheat, thus significantly improving the unit's energy efficiency ratio.

引射回油 Injection pump return oil

满液式机组采用引射回油技术，其体积小，结构简单，运动部件少，不易损坏，以少许动力即可达到适当回油效果。

The flooded unit adopts ejector oil return technology, which is small in size, simple in structure, has few moving parts, is not easily damaged, and can achieve appropriate oil return effect with a small amount of power.

满液式螺杆冷水机组技术参数(单压缩机)

Technical parameters of the water cooled screw flooded chiller (Single compressor)

		SWF-						
机型Type		335S	355S	385S	42 OS	460S	550S	580S
名义制冷量Nominal cooling capacity	kW	335	355	385	420	460	550	580
	10 ³ kcal/h	28.8	30.5	33.1	36.1	39.6	47.3	49.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	输入功率(kW)	62	65	71.5	78	86.5	100.5	106
	额定电流(A)Rated Current	104	109	120	131	146	169	178.5
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效满液式换热器Flooded high efficiency heat exchanger						
	水流量(m ³ /h)Flow	57.6	61	66.2	72.2	79	94.5	99.7
	水压降(kPa)Water pressure drop	45	45	48	52	53	56	58
	配管管径(mm)Interface size	DN125					DN150	
	冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger					
水流量(m ³ /h)Flow		68.2	72.2	78.4	85.6	93.9	111.8	117.9
水压降(kPa)Water pressure drop		52	52	53	55	56	60	60
配管管径(mm)Interface size		DN125				DN150		
制冷剂Refrigerant	类型Type	R22						
	充注量(kg)Refrigerant volume	95	100	110	115	125	150	155
外形尺寸 Overall dimensions	长(nun)Length	3300	3350	3500	3500	3500	3750	3750
	宽(mm)Width	1360	1360	1360	1360	1360	1500	1500
	高(nun)Height	2200	2200	2250	2250	2250	2300	2300
重量Weight	机组略重(kg)Machine weight	2250	2350	2480	2850	3050	3250	3450
	运行略重(kg)Operating weight	2500	2650	2780	3150	3350	3450	3650

SWF--								
机型Type		635S	690S	715S	820S	900S	950S	1080S
名义制冷量Nominal cooling capacity	kW	635	690	715	820	900	950	1080
	10kcal/h	54.6	59.3	61.5	70.5	77.4	81.7	92.9
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	输入功率(kW)	115	124	128	147.5	163.5	173.5	195
	额定电流(A)Rated Current	194	208.5	215	248	275	292	328
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效满液式换热器Flooded high efficiency heat exchanger						
	水流量(m³h)Flow	109.1	118.6	122.9	140.9	154.6	163.2	185.6
	水压降(kPa)Water pressure drop	75	78	78	80	80	82	85
	配管管径(mm)Interface size	DN150				DN200		
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger						
	水流量(m³h)Flow	128.9	139.9	144.8	166.2	182.7	193	219.1
	水压降(kPa)Water pressure drop	78	80	80	82	85	85	85
	配管管径(mm)Interface size	DN150			DN200			
制冷剂Refrigerant	类型Type	R22						
	充注量(kg)Refrigerant volume	165	180	190	215	235	250	285
外形尺寸 Overll dimensions	长(nun)Length	3750	4000	4000	4000	4000	4000	4000
	宽(mm)Width	1500	1600	1600	1700	1800	1800	1900
	高(nun)Height	2300	2350	2350	2350	2450	2450	2500
重量Weight	机组略重(kg)Machine weight	3550	3650	3750	3850	3900	4050	4100
	运行略重(kg)Operating weight	3800	3950	3950	4050	4150	4300	4350

名义工况：冷冻水进/出水温度12℃/7℃；冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围5℃~15℃；冷却水进水温度范围19℃~33℃。

Nominal operating conditions: Chilled water inlet/outlet temperature 12℃/7℃；Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range 5℃~15℃；Cooling water inlet temperature range 19℃~33℃.

满液式螺杆冷水机组技术参数 (双压缩机)

Technical parameters of the water cooled screw flooded chiller (Double compressors)

SWF-								
机型Type		670D	710D	770D	840D	920D	HOAD	1160D
名义制冷量Nominal cooling capacity	kW	670	710	770	840	920	1100	1160
	10 ⁴ kcal/h	57.6	61.1	66.2	72.2	79.1	94.6	99.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	输入功率(kW)	124	130	143	156	173	201	212
	额定电流(A)Rated Current	208	218	240	262	292	338	357
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-12.5%-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效满液式换热器Flooded high efficiency heat exchanger						
	水流量(m ³ /h)Flow	115.1	122	132.3	144.3	158.1	189	199.3
	水压降(kPa)Water pressure drop	62	62	65	65	68	72	72
	配管管径(mm)Interface size	DN150			DN200			
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger						
	水流量(m ³ /h)Flow	136.4	144.3	156.9	171.1	187.8	223.5	235.7
	水压降(kPa)Water pressure drop	55	55	58	58	60	65	65
	配管管径(mm)Interface size	DN150	DN200			DN250		
制冷剂Refrigerant	类型Type	R22						
	充注量(kg)Refrigerant volume	190	200	220	230	250	300	310
外形尺寸 Overall dimensions	长(nun)Length	3570	3570	3770	3770	3770	4200	4200
	宽(mm)Width	1850	1850	1850	1850	1850	1850	1850
	高(nun)Height	2200	2200	2250	2250	2250	2300	2300
重量Weight	机组略重(kg)Machine weight	4750	4950	5200	6000	6400	6850	7250
	运行略重(kg)Operating weight	5000	5200	5450	6250	6650	7100	7500

SWF-								
机型Type		1270WD	1380WD	1430WD	1640WD	1800WD	1900WD	2160WD
名义制冷量Nominal cooling capacity	kW	1270.0	1380.0	1430	1640.0	1800	1900	2160
	10 ⁴ kcal/h	109.2	118.7	123	141	154.8	163.4	185.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	输入功率(kW)	230	248	256	295	327	347	390
	额定电流(A)Rated Current	388	417	430	496	550	584	656
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-12.5%-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效满液式换热器Flooded highefficiency heat exchanger						
	水流量(m ³ /h)Flow	218.2	237.1	245.7	281.8	309.3	326.5	371.1
	水压降(kPa)Water pressure drop	75	78	78	80	80	82	85
	配管管径(mm)Interface size	DN200			DN250		DN300	
冷凝器Condenser	型式Type	高效壳管式换热器Pipe highefficiency heat exchanger						
	水流量(m ³ /h)Flow	257.7	279.7	289.7	332.5	365.5	386.1	438.1
	水压降(kPa)Water pressure drop	78	80	80	82	85	85	85
	配管管径(mm)Interface size	DN250				DN300		
制冷剂Refrigerant	类型Type	R22						
	充注量(kg)Refrigerant volume	330	360	380	430	470	500	570
外形尺寸 Overall dimensions	长(nun)Length	4800	4800	4800	5000	5000	5000	5000
	宽(mm)Width	1900	1900	1900	1900	2000	2000	2100
	高(nun)Height	2300	2350	2350	2350	2450	2450	2500
重量Weight	机组略重(kg)Machine weight	7800	8050	8250	8500	8600	8950	9050
	运行略重(kg)Operating weight	8100	8350	8550	8800	8900	9250	9350

名义工况：冷冻水进/出水温度12℃/7℃；冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围5℃~15℃；冷却水进水温度范围19℃~33℃。

Nominal operating conditions: Chilled water inlet/outlet temperature 12℃/7℃；Cooling water inlet/outlet temperature 30℃/35℃。

Temperature conditions: Chilled water outlet temperature range 5℃~15℃；Cooling water inlet temperature range 19℃~33℃

满液式螺杆冷水机组技术参数 (单压缩机) -5℃

Technical parameters of the water cooled screw flooded chiller (Single compressor) -5℃

机 型 Type		220SX	230SX	245SX	270SX	300SX	350SX	370SX
名义制冷量Nominal cooling capacity	kW	220	230	245	270	300	350	370
	10*kcal/h	18.9	19.8	21.1	23.2	25.8	30.1	31.8
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电 源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
型 式 Type		5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
压 缩 机 Compressor	输入功率 (kW)	55.5	58.5	64.5	70	78	91	96
	额定电流 (A)Rated Current	93.5	98.5	108	118	131	153	161
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-25%-50%-75%-100%						
型 式 Type		高效满液式换热器Flooded high efficiency heat exchanger						
蒸 发 器 Evaporator	水 流 量 (m7h) Flow	51.8	54.1	57.6	63.5	70.6	82.4	87.1
	水压降 (kPa)Water pressure drop	45	45	48	52	53	56	58
	配管管径(mm)Interface size	DN125			DN150			
型 式 Type		高效壳管式换热器Pipe high efficiency heat exchanger						
冷 凝 器 Condenser	水 流 量 (m7h) Flow	61.3	64.2	68.7	75.6	84	98	103.6
	水压降 (kPa)Water pressure drop	52	52	53	55	56	60	60
	配管管径(mm)Interface size	DN125			DN150			
类 型 Type		R22						
制冷剂Refrigerant	充注量 (kg)Refrigerant volume	100	105	115	120	130	160	165
外形尺寸 Overall dimensions	长 (nun) Length	3300	3350	3500	3500	3500	3750	3750
	宽 (mm) Width	1360	1360	1360	1360	1360	1500	1500
	高 (nun) Height	2200	2200	2250	2250	2250	2300	2300
重 量 Weight	机组略重 (kg)Machine weight	2350	2450	2600	3000	3200	3400	3650
	运行路重 (kg)Operating weight	2650	2750	2900	3300	3500	3600	3850
SWF-								
机 型 Type		405SX	440SX	455SX	530SX	585SX	625SX	700SX
名义制冷量Nominal cooling capacity	kW	405	440	455	530	585	625	700
	10*kcal/h	34.8	37.8	39.1	45.6	50.3	53.8	60.2
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer contro						
电 源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
型 式 Type		5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
压 缩 机 Compressor	输入功率 (kW)	104	112	115	133	147.5	156.5	176
	额定电流 (A)Rated Current	174.5	188	194	223	248	263	296
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-25%-50%-75%-100%						
型 式 Type		高效满液式换热器Flooded high efficiency heat exchanger						
蒸 发 器 Evaporator	水 流 量 (m7h) Flow	95.3	103.5	107.1	124.7	137.6	147.1	164.7
	水压降 (kPa)Water pressure drop	75	78	78	80	80	82	85
	配管管径(mm)Interface size	DN150			DN200			
型 式 Type		高效壳管式换热器Pipe high efficiency heat exchanger						
冷 凝 器 Condenser	水 流 量 (m7h) Flow	113.2	122.8	126.8	147.6	163	173.9	194.9
	水压降 (kPa)Water pressure drop	78	80	80	82	85	85	85
	配管管径(mm)Interface size	DN150			DN200			
类 型 Type		R22						
制冷剂Refrigerant	充注量 (kg)Refrigerant volume	175	190	200	225	250	265	300
外形尺寸 Overall dimensions	长 (nun) Length	3750	4000	4000	4000	4000	4000	4000
	宽 (mm) Width	1500	1600	1600	1700	1800	1800	1900
	高 (nun) Height	2300	2350	2350	2350	2450	2450	2500
重 量 Weight	机组略重 (kg)Machine weight	3750	3850	3950	4050	4100	4250	4350
	运行略重 (kg)Operating weight	3950	4150	4250	4300	4350	4500	4550

名义工况：冷冻水进/出水温度0℃/-5℃;冷却水进/出水温度30℃/35℃。
温度条件：冷冻水出水温度范围-7℃~-5℃;冷却水进水温度范围19℃~33℃。机组冷冻侧采用25%乙二醇或20%氯化钙防冻液
Nominal operating conditions: Chilled water inlet/outlet temperature 0℃/-5℃; Cooling water inlet/outlet temperature 30℃/35℃.
Temperature conditions: Chilled water outlet temperature range -7℃ to -5℃; Cooling water inlet temperature range 19℃ to 33℃. The chilled water side of the unit uses 25% ethylene glycol or 20% calcium chloride antifreeze.

满液式螺杆冷水机组技术参数（双压缩机）-5℃

Technical parameters of the water cooled screw flooded chiller (Double compressors) -5℃

SWF-								
机型Type		440DX	460DX	490DX	540ADX	600DX	700DX	740DX
名义制冷量Nominal cooling capacity	kW	440	460	490	540	600	700	740
	10 ⁴ kcal/h	37.8	39.6	42.1	46.4	51.6	60.2	63.6
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	输入功率(kW)	111	117	129	140	156	182	192
	额定电流(A)Rated Current	187	197	216	236	262	306	322
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-12.5%-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效满液式换热器Flooded high efficiency heat exchanger						
	水流量(m ³ /h)Flow	103.5	108.2	115.3	127.1	141.2	164.7	174.1
	水压降(kPa)Water pressure drop	62	62	65	65	68	72	72
	配管管径(mm)Interface size	DN150			DN200			
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger						
	水流量(m ³ /h)Flow	122.6	128.3	137.5	151.1	168	196	207.1
	水压降(kPa)Water pressure drop	55	55	58	58	60	65	65
	配管管径(mm)Interface size	DN150	DN200				DN250	
制冷剂Refrigerant	类型Type	R22						
	充注量(kg)Refrigerant volume	200	210	230	240	260	320	330
外形尺寸 Overall dimensions	长(nun)Length	3570	3570	3770	3770	3770	4200	4200
	宽(mm)Width	1850	1850	1850	1850	1850	1850	1850
	高(nun)Height	2200	2200	2250	2250	2250	2300	2300
重量Weght	机组路重(kg)Machine weight	4950	5150	5450	6300	6700	7100	7650
	运行略重(kg)Operating weight	5200	5400	5700	6550	6950	7350	8000

SWF-								
机型Type		810DX	880DX	910DX	1060DX	1170DX	1250DX	1400DX
名义制冷量Nominal cooling capacity	kW	810	880	910	1060	1170	1250	1400
	10 ⁴ kcal/h	69.7	75.7	78.3	91.2	100.6	107.5	120.4
运行控制方式Run control		PLC可编程控制器全自动控制Use PLC microcomputer control						
电源Power Supply		380V/3N/50HZ						
启动类型Startup type		Y-A						
压缩机Compressor	型式Type	5:6非对称半封闭双螺杆压缩机Semi-closed 5:6 asymmetric twin-screw compressor						
	输入功率(kW)	208	224	230	266	295	313	352
	额定电流(A)Rated Current	349	376	388	446	496	526	592
	油加热器(W)Oil heater	300						
	能量调节Energy regulation	0-12.5%-25%-50%-75%-100%						
蒸发器Evaporator	型式Type	高效满液式换热器Flooded high efficiency heat exchanger						
	水流量(m ³ /h)Flow	190.6	207.1	214.1	249.4	275.3	294.1	329.4
	水压降(kPa)Water pressure drop	75	78	78	80	80	82	85
	配管管径(mm)Interface size	DN200			DN250			DN300
冷凝器Condenser	型式Type	高效壳管式换热器Pipe high efficiency heat exchanger						
	水流量(m ³ /h)Flow	226.3	245.5	253.6	295.1	326	347.9	389.9
	水压降(kPa)Water pressure drop	78	80	80	82	85	85	85
	配管管径(mm)Interface size	DN250				DN300		
制冷剂Refrigerant	类型Type	R22						
	充注量(kg)Refrigerant volume	350	380	400	450	500	530	600
外形尺寸Overall dimensions	长(nun)Length	4800	4800	4800	5000	5000	5000	5000
	宽(mm)Width	1900	1900	1900	1900	2000	2000	2100
	高(nun)Height	2300	2350	2350	2350	2450	2450	2500
重量Weight	机组略重(kg)Machine weight	7890	8100	8200	8500	8600	8950	9150
	运行略重(kg)Operating weight	8190	8400	8500	8800	8900	9250	9450

名义工况：冷冻水进/出水温度0℃/-5℃；冷却水进/出水温度30℃/35℃。

温度条件：冷冻水出水温度范围-7℃~-5℃；冷却水进水温度范围19℃~33℃。机组冷冻侧采用25%乙二醇或20%氯化钙防冻液。

Nominal operating conditions: Chilled water inlet/outlet temperature 0℃/-5℃; Cooling water inlet/outlet temperature 30℃/35℃.

Temperature conditions: Chilled water outlet temperature range -7℃ to -5℃; Cooling water inlet temperature range 19℃ to 33℃.

The chilled water side of the unit uses 25% ethylene glycol or 20% calcium chloride antifreeze.

激光冷水机技术参数

The technical parameters of the laser chiller

型号Model		SCL01	SCL02	SCL03	SCL04	SCL05	SCL06	SCL08	SCL10	SCL12	SCL15	SCL20	SCL25	SCL30	SCL40	SCL50	SCL60
制冷量cooling capacity	KW	2.7	5.4	8.5	11.9	15	18	21.5	30	38	46.1	62.2	70.4	93.3	124.4	140.8	176
	103kcal/h	24	4.6	7.3	10.2	12.9	15.5	18.5	25.8	32.7	39.6	53.4	60.5	80.2	106.9	121	151.3
电源Power Supply	V/ph/Hz	220/1/50					380/3/50										
输入功率Input Power	kw	1.34	2.19	3.19	4.73	5.23	6.13	7.76	10.54	12.34	15.6	20.1	24.1	29.05	39.55	49.2	56.6
压缩机类型Compressor Type		转子式Rotor				全封闭高效涡旋式Scroll											
压缩机功率Compressor Power	kw	0.8B	1.69	2.45	3.8	4.3	5.2	6.2	8.6	10.4	12.3	16.2	20.2	24.3	32.4	40.4	50.5
水泵功率Pump Power	kw	0.37	0.37	0.55	0.55	0.55	0.55	1.1	1.1	1.1	2.2	2.2	2.2	3.75	3.75	4	5.5
水泵扬程Pump Head	m	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
冷冻水流量Chilled Water Flow	m3/h	0.46	0.92	1.55	2	2.5	3.1	4	5	6.5	7.6	10.2	11.6	15.5	21.1	26.7	29.8
蒸发器形式Evaporator Type		水箱式/不锈钢板式Water Tank Type/Stainless Steel Plate Type															
水箱容积Water Tank Volume	L	20	40	50	70	70	80	120	200	200	270	350	350	420	500	600	650
接管尺寸Pipe Size	DN	15	20	25	25	25	25	40	40	40	50	50	50	65	80	80	80
冷凝器Condenser		紫铜管套铝片高效翅片式Coil															
风量Air Volume	m3/h	1500	2800	4000	6500	6800	7500	9300	12000	13000	16000	20000	24000	29000	40000	48000	60000
风机功率Fan power	w	90	130	190	380	380	380	460	840	840	1100	1700	1700	2550	3400	3900	4200
冷媒Refrigerant		R22/R134a/R404															
节流方式Throttle Mode		毛细管/膨胀阀Capillary Tube/Expansion Valve															
保护装置Protector		高低压、过载、防冻、延时、超温、水流保护Pressure,Overload,Anti-freeze,Delay,Over-temperature,Water Flow															
噪音Noise Level	dB(A)	58	59	60	62	62	62	64	65	65	67	6B	6B	68	68	68	68
机组重量Weight	KG	75	120	150	180	180	200	230	260	350	650	750	1200	130	1500	1800	2100
外形尺寸Dimensions	长L(mm)	600	600	1000	1200	1200	1250	1450	1650	1650	1850	2000	2150	2600	3300	3300	4100
	宽W(mm)	520	600	550	600	600	650	750	790	790	900	950	1000	1100	1500	1500	1500
	高H(mm)	800	1000	1050	1100	1100	1200	1200	1300	1300	1650	1650	1700	1700	1600	1600	1600

名义工况：以上制冷量基于环境温度35℃, 进水温度12℃, 出水温度7℃。

Nominal operating conditions: The above cooling capacity is based on an ambient temperature of 35℃, an inlet water temperature of 12℃, and an outlet water temperature of 7℃.

工业油冷机技术参数

Technical parameters of the industrial oil cooler

型号Model			SCOA-2.5	SCOA-4.5	SCOA-7.0	SCOA-12	SCOA-18	SCOA-25	SCOA-30	SCOA-40	SCOA-50	SCOA-60
制冷量cooling capacity	KW		2.5	4.5	7	12	18	25	30	40	50	60
	103kcal/h		2.1	3.8	6	10.3	15.4	21.5	25.8	34.4	43	51.6
电源Power Supply		V/ph/Hz	380/3/50									
输入总功率Input Power		kw	1.72	2.58	4.19	6.18	9.7	12.44	14.24	17.4	21.9	27.35
压缩机功率Input Power		kw	0.88	1.7	2.5	4.3	6.2	8.6	10.4	12.3	16.2	20.2
油泵功率		kw	0.75	0.75	1.5	1.5	3	3	3	4	4	5.5
散热风机功率		kw	0.09	0.13	0.19	0.38	0.5	0.84	0.84	1.1	1.7	1.65
压缩机类型			转子式Rotor		全封闭高效涡旋式Scroll							
油流量Oil Flow		L/min	8	15	25	30	40	50	60	80	100	125
使用条件Use Conditions	油种类Oil Type		液压油/润滑油Hydraulic Oil/Lubricating Oil									
	油粘度V	cSt	4-300									
	油温T	℃	5-55									
	环境温度T	℃	5-50									
蒸发器形式Evaporator Type			不锈钢板式Stainless Steel Plate Type									
进油管尺寸Inlet Pipe Size		DN	15	15	20	25	25	25	25	40	50	50
出油管尺寸Outlet Pipe Size		DN	15	15	15	20	25	25	25	25	40	40
冷凝器Condenser			紫铜管套铝片高效翅片式Coil									
冷媒Refrigerant			R22/R407c									
节流方式Throttle Mode			毛细管Capillary Tube/膨胀阀Expansion Valve									
温度控制范围			温度固定型Fixed:15~45℃/室内温同调型Adjustable:室温+T(T=-7~7℃)控制精度Control Precision:±1℃									
保护装置Protector			高低压、过载、防冻、延时、超温、流量保护Pressuer,Overload,Anti-freeze,Delay,Over-temperature,Water Flow									
噪音Noise Level		dB(A)	58	59	60	62	64	65	65	67	68	68
机组重量Weight		KG	75	120	150	180	230	260	350	650	750	950
外形尺寸Dimensions	长L(mm)		600	600	1000	1200	1450	1650	1650	1850	2000	2200
	宽W (mm)		520	600	560	600	750	790	790	900	950	1100
	高H(mm)		800	1000	1000	1100	1200	1300	1300	1650	1650	1700

名义工况：以上制冷量基于环境温度35℃, 进油温度35℃, 出油温度30℃。油品是在 ISO VG32条件下测得。

Nominal operating conditions: The above cooling capacity is based on an ambient temperature of 35℃, an oil inlet temperature of 35℃, and an oil outlet temperature of 30℃. The oil quality was measured under ISO VG32 conditions.

风冷模块式冷热水机组(热回收) Air cooled modular chiller & hot water (Heat recovery)

产品特征 Products features

- 国际品牌全封闭涡旋式免维护压缩机。
International brand fully enclosed scroll compressor, maintenance-free.
- 采用模块化设计，机组可分级启动以减少对电网的瞬间冲击，节省电能。
With a modular design, the unit can be started in stages to reduce the instantaneous impact on the power grid and save energy.
- 模糊逻辑控制，保证压缩机运转时间均衡，延长寿命。
Fuzzy logic control ensures balanced compressor operation time and extends its lifespan.
- 智能除霜，故障诊断，防冻检测。
Intelligent defrosting, fault diagnosis, and antifreeze detection.
- 可选用环保型R407C、R134A 或 R410A 冷媒等。
Environmentally friendly refrigerants such as R407C, R134A, or R410A can be used.



风冷模块式冷热水机组技术参数

Technical parameters of the air cooled modular chiller & hot water

SAM-					
机 型Type		68H	80H	100H	136H
名义制冷量Nominal cooling capacity	kW	68	80	100	136
	10* kcal/h	5.8	6.9	8.6	11.7
名义制热量Nominal heating capacity	kW	72	85	105	144
	10kcal/h	6.2	7.3	9	12.4
模块数量Module number		1	1	1	1
压缩机Compressor	制冷功率(kW)Refrigeration power	19	25.5	28.6	38
	制热功率(W)Heating power	25	32.9	41.3	45.3
	容量控制Energy regulation	0-50%-100%	0-50%-100%	0-25%-50%-75%-100%	0-25%-50%-75%-100%
	数量Quantity	2	2	4	4
蒸发器Evaporator	水流量(m ³ /h)Flow	11.7	13.8	17.2	23.4
	配管管径(mm)Interface size	65	65	65	65
全热回收Heat recovery	水流量(m ³ /h)Flow	12.4	14.6	18.1	24.8
	配管管径(mm)Interface size	65	65	65	65
冷凝器Condenser	风机数量Quantityoffans	2	2	4	4
	单台功率(kW)Stand-alone power	2	2	2	2
外形尺寸 Overall dimensions	长(mm)Length	2200	2200	2470	2470
	宽(mm)Width	1080	1080	1950	1950
	高(mm)Height	2054	2054	2255	2255
整机重量(kg)Machine weight		1050	1200	1350	1550

制冷工况：冷冻水进/出水温度12℃/7℃;环境干球湿度35℃。

制热工况：热水出水温度45℃,环境干球温度7℃,环境湿球温度6℃。

热回收工况：热回收器进/出水温度40℃/45℃。

Cooling operation: Chilled water inlet/outlet temperature 12℃/7℃; ambient dry-bulb humidity 35℃.

Heating operation: Hot water outlet temperature 45℃; ambient dry-bulb temperature 7℃; ambient wet-bulb temperature 6℃.

Heat recovery operation: Heat recovery unit inlet/outlet water temperature 40℃/45℃.

工业标准型冷却塔

The industrial standard cooling tower

产品选项 Product options

- 优化结构造型，外形尺寸小，重量轻，且四周进风，较少受布置场地的限制。

The optimized structural design results in a small size, light weight, and air intake from all sides, reducing limitations on the placement of the equipment.
- 塔体采用高强度FRP 复合材料制作，抗老化，耐腐蚀，不变形，不褪色。

The tower body is constructed from high-strength FRP composite material, which is resistant to aging, corrosion, deformation, and fading.
- 所有金属配件采用厚身钢材制造，并经过镀锌或涂漆防腐。

All metal fittings are made of thick steel and are galvanized or painted for corrosion protection.
- 该水塔采用的是自动旋转喷水器，能将水均匀喷洒到填料的每个角落，耐腐蚀， 不堵塞，效率高。

The water tower uses an automatic rotating sprayer that can evenly spray water to every corner of the packing material. It is corrosion-resistant, does not clog, and is highly efficient.

工业标准型冷却塔(技术参数)

Technical parameters of the industrial standard cooling tower

型号Model	循环水量Flow rate		外形尺寸Overall size		送风装置Fan assembly		噪 音Noise	净重DRY	运行重WET
	WB28℃	WB27℃	高度H	外径D	功率Power	风扇Fan			
	m7h	m7h	mm	mm	kW	mm			
ST-10	7.2	8.5	1740	1060	0.2	670	50	65	190
ST-15	10.8	12	1960	1060	0.2	670	52	75	250
ST-20	14.4	17	2000	1200	0.2	670	53	83	390
ST-25	18.5	20	2290	1430	0.4	770		125	490
ST-30	21.6	24	2290	1430	0.6	770	55	140	510
ST-40	28.8	32	2360	1620	0.75	770	56	155	590
ST-50	36	40	2595	1810	1.5	970	57	235	630
ST-60	43.2	48	2595	2000	1.5	970	58	302	690
ST-80	57.6	64	2690	2180	1.5	1170	59	384	1160
ST-100	72	80	2790	2180	1.5	1170	60	441	1220
ST-125	90	100	2875	2750	4	1470	61	535	1390
ST-150	108	120	2950	3070	4	1470		594	1720
ST-175	126	140	3200	3300	4	1750	62	625	2605
ST-200	144	160	3300	3300	4	1750		713	2676
ST-250	180	200	3600	3770	4	1750	63	870	3460
ST-300	216	240	3960	3770	6	2400		1030	3570
ST-350	252	280	4150	4790	7.5	2400		1283	4543
ST-400	288	320	4150	4790	7.5	2400	65	1362	4620
ST-500	360	400	5200	5480	11.5	3000		2171	6811
ST-600	432	480	5260	5580	11.5	3000	66	2428	7068
ST-700	504	560	5770	6600	15	3400	68	3364	10774
ST-800	576	640	5820	6600	15	3400	69	3567	10967
ST-1000	720	800	5920	7600	22.5	3600		4380	11980

单级单吸式离心水泵

Single-stage single-suction centrifugal water pump

产品特点 Products features



- 泵为立式结构，进出口口径相同，且位于同一中心线上，可象阀门一样安装于管路之中，外形紧凑美观，占地面积小，建筑投入低。

The pump has a vertical structure with the same inlet and outlet diameters, located on the same center line. It can be installed in the pipeline like a valve. It has a compact and beautiful appearance, occupies a small area, and requires low construction investment.

- 叶轮直接安装在电机的加长轴上，轴向尺寸短，结构紧凑，泵与电机轴承配置合理，能有效地平衡泵运转产生的径向和轴向负荷，从而保证了泵的运行平稳，振动小、噪音低。

The impeller is directly mounted on the extended shaft of the motor, resulting in a short axial dimension and compact structure. The pump and motor bearings are rationally configured, effectively balancing the radial and axial loads generated during pump operation, thus ensuring smooth pump operation with low vibration and low noise.

- 轴封采用机械密封或机械密封组合，采用进口钛合金密封环、中型耐高温机械密封和采用硬质合金材质，耐磨密封，能有效地延长机械密封的使用寿命。

The shaft seal uses a mechanical seal or a combination of mechanical seals, employing imported titanium alloy sealing rings, medium-sized high-temperature resistant mechanical seals, and wear-resistant seals made of hard alloy materials, which can effectively extend the service life of the mechanical seal.

- 安装检修方便，无需拆动管路系统，只要卸下泵联体座螺母即可抽出全部转子部件。

Installation and maintenance are convenient, and there is no need to disassemble the pipeline system. All rotor components can be extracted simply by removing the pump coupling seat nut.

工作条件 Operation condition

- 吸入压力 $W0.4\text{MPa}$ ，或泵系统最高工作压力 $W1.6\text{MPa}$ ，即泵吸入压力+泵扬程 $WL6\text{MPa}$ ，订货时请注明系统工作压力。泵系统工作压力大于 1.6MPa 时应在订货时另行提出，以便在制造时泵的过流部分和联接部分采用更合理的材质。

The suction pressure is $W0.4\text{MPa}$, or the maximum operating pressure of the pump system is $W1.6\text{MPa}$, which is the pump suction inlet pressure + pump head $WL6\text{MPa}$. Please specify the system operating pressure when ordering. If the pump system operating pressure is greater than 1.6MPa , it should be specified separately when ordering so that more suitable materials can be used for the pump's flow parts and connecting parts during manufacturing.

- 环境温度 $<40^{\circ}\text{C}$ ，相对湿度 $<95\%$ 。

Ambient temperature $<40^{\circ}\text{C}$, relative humidity $<95\%$.

- 所输送介质中固体颗粒体积含量不超过单位体积的 0.1% ，粒度 $<0.2\text{mm}$ 。

The solid particle volume content in the transported medium shall not exceed 0.1% of the unit volume, and the particle size shall be $<0.2\text{mm}$.

- 使用环境海拔高度不超过 1000米 ，超过时应在订货时提出，以便为您提供更可靠的产品。

The operating environment should not exceed an altitude of 1000 meters . If the altitude exceeds this, please specify this when ordering so that we can provide you with a more reliable product.

水冷螺杆式蒸发冷机组

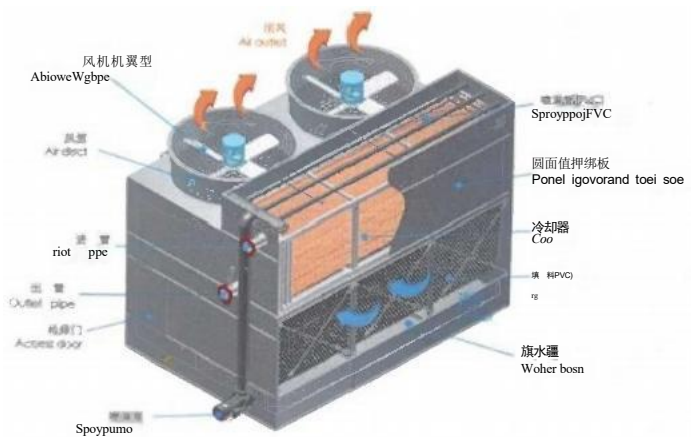
Water cooled screw evaporative chiller

蒸发冷式是目前最节能的换热器装置，是行业发展趋势。目前在化工、制药、冷库等领域使用较为广泛。具有：运行成本低、节能效果显著等优势，整套系统比传统系统降低20%的安装费用和运行成本。蒸发式冷凝器主机由壳体、换热器、风机、喷淋水泵、收水器、水槽及管路阀门等零部件组成。

Evaporative condensers are currently the most energy-efficient heat exchanger devices and represent an industry trend. They are widely used in chemical, pharmaceutical, and cold storage industries. They offer advantages such as low operating costs and significant energy savings, reducing installation and operating costs by 20% compared to traditional systems. The evaporative condenser unit consists of a shell, heat exchanger, fan, spray pump, water collector, water tank, and piping valves, among other components.

蒸发式冷凝器将冷却塔和换热器的功能合在一起，将工艺流体的温度降低到相当接近空气湿球温度的情况下。系统工作时，需要冷却的工艺流体在蛇形管的热交换器盘管内部流动，外部有喷淋系统以持续湿润盘管表面。喷淋到盘管上的水流经一段具有高效冷却作用的PVC热交换层进行冷却后再落至集水盘中以再循环利用。空气同时吸入并通过盘管和PVC热交换层，使得一部分水蒸发。气流中所夹带的所有水分均由飞溅水挡水板进行回收，并送回至集水盘。藉由蒸发，将热量从喷淋水中带走，进而冷却盘管及盘管中工艺流体。

An evaporative condenser combines the functions of a cooling tower and a heat exchanger, reducing the temperature of the process fluid to a level very close to the wet-bulb temperature of air. During system operation, the process fluid requiring cooling flows inside the serpentine heat exchanger coils, with an external spray system continuously wetting the coil surface. Water sprayed onto the coils is cooled by a highly efficient PVC heat exchange layer before falling into a collection pan for recycling. Air is simultaneously drawn in and passes through the coils and PVC heat exchange layer, causing some water to evaporate. All moisture carried in the airflow is recovered by splash guards and returned to the collection pan. Through evaporation, heat is carried away from the spray water, thereby cooling the coils and the process fluid within them.

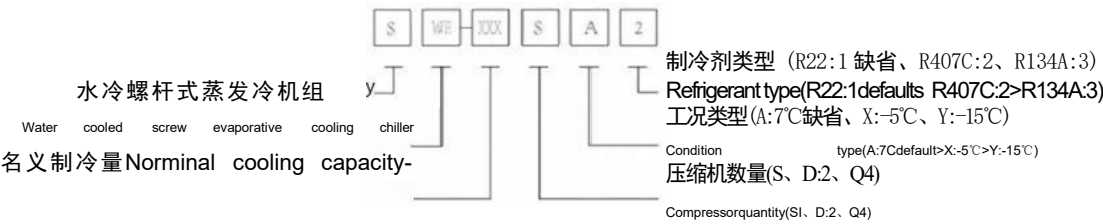


产品特点 Product Features

- 优质的换热盘管与热交换层进行优化组合，并辅以宽阔的进风面，实现了风水同向的最佳蒸发换热方式，有效的降低了循环水的温度，换热效率显著提高。
较佳的水覆盖；
- 空气和喷淋水以顺畅、平行和向下的路径流过盘管表面，维持了完全的管外覆盖，最大限度的与冷却盘管接触，在这种平行的流动方式下，水不会由于空气流动的影响出现与管底侧分离的现象，从而消除了有利于水垢形成的干点。
- 新型的独特盘管设计；采用蛇形盘管并且保证一定的倾斜角度，使得在不使用的情况下冷却器里的介质水完全排净，避免北方客户在冬季停机后盘管被冻坏，延长冷却器的使用寿命。
- 独特的倾斜式、高效脱水、低风阻脱水器；此独特的专利脱水器设计，在保证高效脱水（高蒸发的同时、减少喷淋水的消耗）的同时，减小风机的风阻，使得设计更趋于合理化。
- High-quality heat exchange coils and heat exchange layers are optimally combined, along with a wide air inlet surface, achieving the best evaporative heat exchange method with air and water flowing in the same direction. This effectively reduces the temperature of the circulating water and significantly improves heat exchange efficiency. Excellent water coverage;
- Air and spray water flow smoothly, parallel, and downward across the coil surface, maintaining complete coverage of the outside of the coil and

maximizing contact with the cooling coil. Under this parallel flow pattern, the water will not separate from the bottom of the coil due to the influence of air flow, thus eliminating dry spots that are conducive to scale formation.

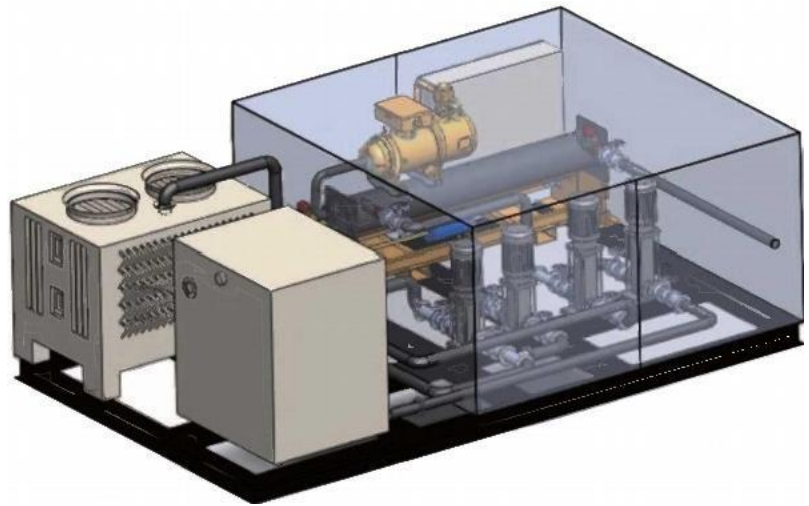
- The novel and unique coil design, employing a serpentine coil with a specific tilt angle, ensures complete drainage of the coolant when not in use. This prevents the coil from freezing and damaging the cooler during winter shutdowns, extending its lifespan for customers in northern regions.
- Unique inclined, high-efficiency dehydrator with low wind resistance; this unique patented dehydrator design ensures high-efficiency dehydration (high evaporation while reducing spray water consumption) while reducing the wind resistance of the fan, making the design more rational.



一体化冷水机组 Integrated Water Chiller

一体化冷水机组集水冷机组、冷冻泵、冷却塔、冷却泵、冷却水管路、阀门、仪表及测按装置于一体，具有体积小、噪声低、寿命长、操作简便等优点。

Integrated chiller units combine water-cooled units, chilled pumps, cooling towers, cooling pumps, cooling water pipelines, valves, instruments, and measuring devices into one unit, offering advantages such as small size, low noise, long service life, and easy operation.



水力模块 Hydraulic module

水力模块集水泵、阀门、过滤器、水泵电控柜等等(几乎是除了主机以外所有配件)于一体,实现机房快速成形的一种模块化设备。这样做的目的—是减少机房的占地面积,二是增加机房的美观程度,三是安装方便,可以在工厂定制,在现场只需要简单的组装即可。

The hydraulic module integrates water pumps, valves, filters, water pump control cabinets, and almost all components except the main unit, creating a modular device for rapid assembly of a server room. This design aims to reduce the server room's footprint, enhance its aesthetics, and facilitate easy installation, allowing for factory customization and simple on-site assembly.

- 系统稳定、节省空间

水力模块作为一整体设备,将机房缩小化,其结构紧凑,单台模块占地面积小,可根据现场空间及客户使用特点独立设计。

- 安装快捷,运用灵活

水利模块中备件及管路均在工厂组装完毕,现场只需连接用水端两根水管即可,大大节约安装工期以及安装成本。若增加滑轮,可随时随地更换使用地点。

- 特殊设计,质量优先

水力模块的核心部件经过专业的精选设计,并经过严格的测试与调试,确保整机性能的优良可靠。

- 智能控制,高效安全

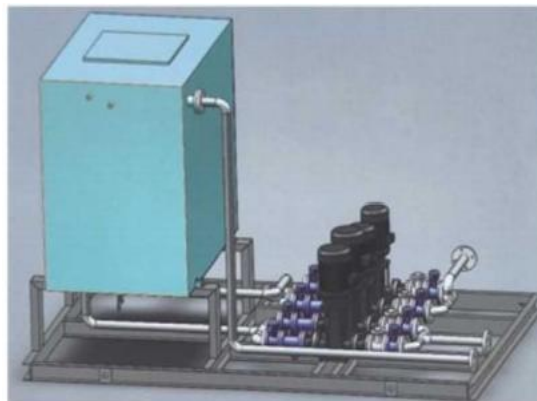
水力模块系统可与主机端进行联控通讯,智能控制可实现季节自动切换的功能,运行过程实时监控,提高了整个工程系统运行的稳定性。

- The system is stable and saves space. As an integrated device, the hydraulic module minimizes the size of the machine room. Its compact structure and small footprint of a single module allow for independent design based on site space and customer usage characteristics.

- Quick installation and flexible application: Spare parts and pipelines in the hydraulic module are all pre-assembled in the factory. On-site installation only requires connecting two water pipes at the water supply end, greatly saving installation time and costs. Adding pulleys allows for easy relocation.

- Special design, quality first. The core components of the hydraulic module have been professionally selected and designed, and have undergone rigorous testing and debugging to ensure the excellent and reliable performance of the whole machine.

- Intelligent control, high efficiency and safety: The hydraulic module system can communicate and control with the main unit. The intelligent control can realize the function of automatic seasonal switching and real-time monitoring of the operation process, which improves the stability of the entire engineering system.



敬告用户 Notice to users

- 所有系列冷水机组，当外界环境温度低于2P或长期不使用时，应排净机组内积水，以防铜管冻裂。
- 风冷系列机组必须安装于宽敞通风场所(如：室外、楼顶等)，同时保证风道系统畅通无阻
- 水管路安装必要的过滤设备，以防大颗粒杂质进入两器，损坏铜管造成内漏。
- 低温机组须配备足够浓度载冷剂，并定期检查浓度。
- 机组须定期做相关维护保养，由于水质问题导致结垢、脏堵会严重影响换热器的换热性能，清洁保养需要专业人员途行操作，勿损坏机组换热器。

- For all series of water chillers, when the ambient temperature is below 2°C or the unit is not used for a long period of time, the water inside the unit should be drained to prevent the copper pipes from freezing and cracking.
- Air-cooled units must be installed in spacious, well-ventilated locations (such as outdoors or on rooftops), while ensuring unobstructed airflow in the duct system.
- Install necessary filtration equipment in the water pipes to prevent large particles of impurities from entering the two devices, damaging the copper pipes and causing internal leaks.
- Cryogenic units must be equipped with a sufficient concentration of refrigerant, and the concentration must be checked regularly.
- The unit requires regular maintenance. Scale and blockage caused by water quality issues can severely affect the heat exchanger's performance. Cleaning and maintenance must be performed by qualified personnel to avoid damaging the unit's heat exchanger.



公司有完善的服务体系，配备了专业化的服务队伍，标准统一，品质如一，随时提供优质服务。

The company has a comprehensive service system and a professional service team. Standards are consistent, quality is uniform, and high-quality service is provided at any time.

售前

根据用户实际需求，由专业的技术人员徧舊团电您提供最适合的产品选型以及制冷系统整套方案。

售中

根据客户需求，定制产品，并对产品生产各环节严格把控，出厂前所有产品进行百分百检验。

售后

设立客户档案；并为客户提供调试服务线上指导，公司售后服务人员将定期 回访，保证用户无后顾之忧。

Pre-sales: Based on the user's actual needs, our professional technicians will provide you with the most suitable product selection and a complete refrigeration system solution.

On sale: We customize products according to customer needs and strictly control each stage of product production, ensuring that all products undergo 100% inspection before leaving the factory.

After-sales service: We establish customer files and provide online guidance for debugging services. Our after-sales service personnel will conduct regular follow-up visits to ensure that users have no worries.

本着“用心做事、全心服务”的理念将给您带来永久而超值的实用产品及售后服务。

Adhering to the philosophy of "doing things with heart and serving wholeheartedly," will bring you permanent and cost-effective practical products and after-sales service.

完善的售后服务体系、专业的售后服务人员、及时的客户响应，将为您的设备提供7*24小时的服务保障。

A comprehensive after-sales service system, professional after-sales service personnel, and timely customer response will provide 24/7 service support for your equipment.

如果您想了解公司的其他产品、服务以及更多设备需求。请通过WhatsApp +86 150503775451随时联系我们。我们会在收到您信息的12个小时以内给您快速反馈。

If you would like to learn more about other products, services, or equipment needs, please contact us anytime via WhatsApp at +86 15050377545. We will respond to your message within 12 hours.

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