

活塞式水冷中低温冷冻机系列

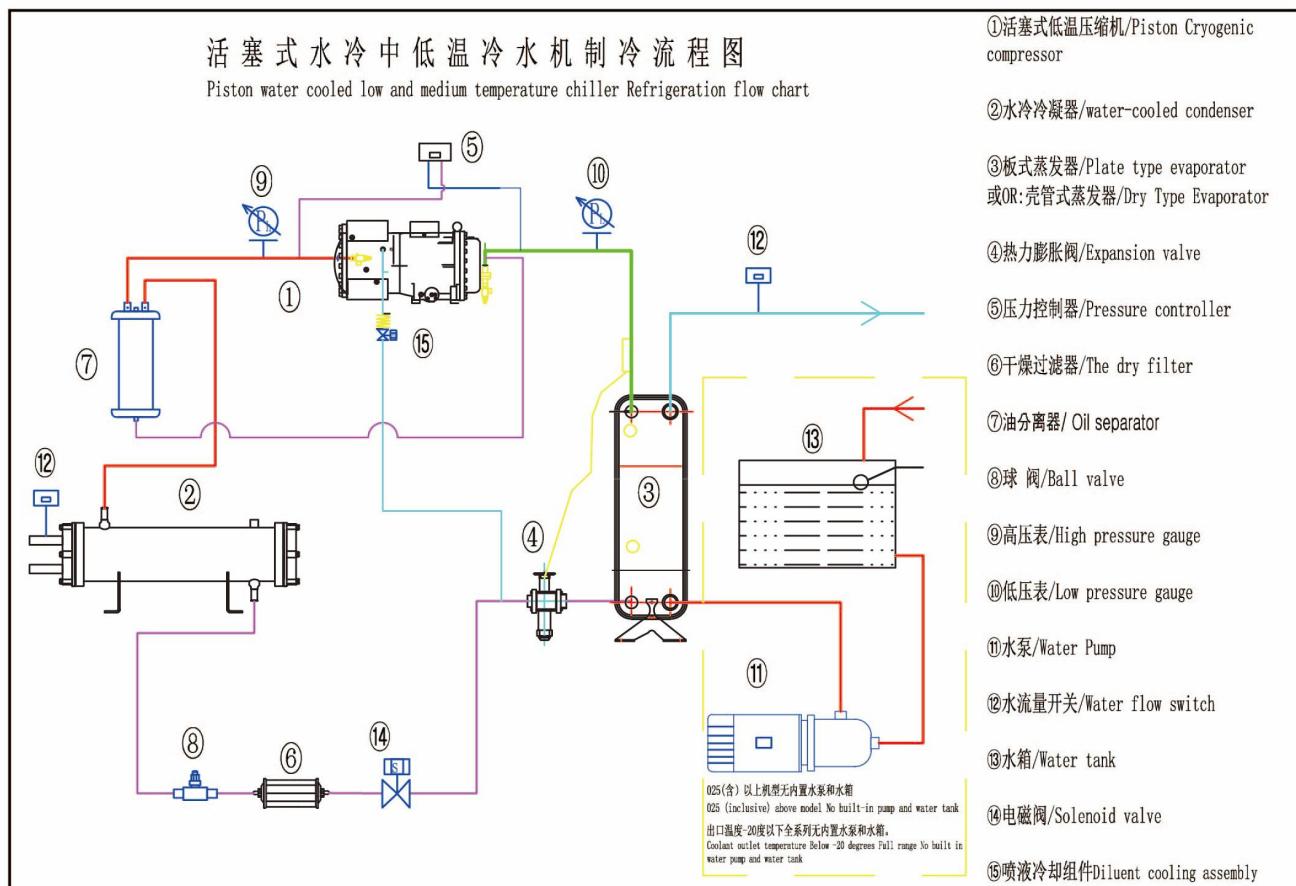
PISTON WATER COOLED LOW AND MEDIUM TEMPERATURE CHILLER SERIES

特点 Features:

- 1、采用国际知名半封闭活塞往复式压缩机,超强制冷,宁静节能。
- 2、采用高效滚牙无焊接式内螺纹换热铜管制作的冷凝器,高效传导。
- 3、采用 SUS316L 板式换热器(铝黄铜壳管式)构成的蒸发器,使换热面积更大,更全面的释放制冷能力。
- 4、采用微电脑控制器,将控温、保护、故障名称等显示于控制面板上,操作方便、简单。



- 1、With the internationally branded semi-enclosed piston reciprocating compressor, it could present superior refrigerating effect, quiet and energy-saving.
- 2、With the condenser made of high efficiency rolling solderless threaded heat exchange copper tube, it has high efficiency conduction.
- 3、With the evaporator made of SUS316L plate type heat exchanger (aluminum bronze shell and tube), it has larger heat exchange area and overall refrigerating release capacity.
- 4、With microcomputer controller, it could display temperature control, protection and fault code on the control panel so that it is easy and simple to operate.



活塞式水冷中低温冷冻机技术参数

PISTON WATER COOLING LOW AND MEDIUM TEMPERATURE CHILLER TECHNICAL PARAMETER

型号 Model			FIC-003WPL	FIC-005WPL	FIC-007WPL	FIC-010WPL	FIC-015WPL	FIC-020WPL	FIC-025WPL	FIC-030WPL	FIC-040WPL		
制冷量 Refrigerating capacity	-5℃	KW.h	8.3	12.3	14.8	25.6	29.5	43.7	57.8	65.9	77.3		
	-15℃	KW.h	5.3	7.8	9.3	16.0	18.9	27.3	35.9	42.0	50.3		
	-20℃	KW.h	4.2	6.0	7.1	12.3	14.7	21.1	27.8	32.9	39.8		
	-25℃	KW.h	3.1	4.4	5.3	9.3	11.1	16.1	21.1	25.4	31.1		
电源 Power supply			3Φ-380V/50Hz(230V-3~50Hz 460V-3~60Hz)										
压缩机 compressor	理论排气量 Theoretical displacement	m³/h	16.0	25.0	28.0	51.0	56.0	84.0	106.0	126.0	154.0		
	名义功率 Nominal power	KW	3.4	4.8	6.1	9.6	11.2	16.1	20.5	24.3	30.0		
	形式 Type		半封闭活塞往复式Semi closed type piston										
膨胀节流方式Expansion of throttling method			热力膨胀阀Expansion valve Thermostatic										
制冷剂Refrigerating medium			R22/R404a										
安全保护装置 Safety protection device			排气超温、相序保护、高低压、水流量等 Exhaust temperature, phase protection, high pressure low pressure water flow, etc.										
蒸发器 Evaporator	形式 Type		SUS316L板式换热器/铝黄铜壳管式Plate heat exchanger/Aluminium Brass tube of aluminum brass tube										
	载冷剂流量 coolant flow	m³/h	1.6	2.3	2.8	3.8	5.6	8.3	11.0	12.6	14.8		
	接管口径Pipe Size		DN25	DN25	DN40	DN40	DN50	DN50	DN65	DN65	DN80		
冷冻水温度 范围Chilled water temperature range	出口温度outlet temperature		0°C → -35°C										
	入口温度Inlet temperature		5°C → 25°C										
循环水箱 Circulating water tank	形式 Type		机组内置/外置Built-in/Outside						外置Outside				
	容量Capacity	L	80	120	120	120	150	150					
冷凝器 Condenser	形式 Type		高效内螺纹钢管壳管式 High efficiency threaded copper shell and tube type										
	冷却水流量 Cooling water flow	m³/h	2.3	2.9	4.7	6.3	9.3	12.6	14.5	18.6	25.2		
	接管口径 Pipe Size	mm	DN25	DN25	DN40	DN40	DN50	DN50	DN65	DN65	DN80		
冷却水进水温度范围Cooling water inlet temperature range			最佳 optimum : 20°C → 30°C , 极限the maximum : 10°C → 40°C										
水泵 Water pump	功率 power	kW	0.75	0.75	1.1	1.1	1.8	2.4					
	扬程 Lift	M	32	32	30	29	36	34	32	30	32		
机器重量 Unit weight		KG	206	240	367	393	450	648	682	726	1073		
外形尺寸 Overall dimension	mm	L	1250	1250	1400	1400	1800	1800	2100	2100	2500		
		W	700	700	700	700	800	800	800	800	800		
		H	1200	1200	1200	1200	1350	1350	1350	1350	1350		

※ 以上技术参数能力工况：蒸发温度-10°C，冷冻水进出温度0°C/-5°C,冷凝温度40°C，冷却水进出温度30°C/35°C。

※ 本系列机组要求客户使用冰点值为低于所需温度的液体作为载冷剂

※ 上表中蒸发器流量为乙二醇在温度为-5°C的额定流量，使用氯化钙水溶液流量增加约13%。

※ The technical parameters above capacity condition : Evaporation temperature -10°C, Chilled water inlet and outlet temperature is 0°C /-5°C , condensation temperature of 40°C , Cooling water inlet and outlet temperature of 30°C /35°C.

※ This series of unit requires the client to use the liquid with the freezing point below the required temperature as the refrigerant.

※ The flow rate of the evaporator in the above table is the rate flow rate of ethylene glycol at a temperature of -5°C,The use of calcium chloride solution flow increased by about 13%.