

Technical Specification for Water Cooled Flooded Screw Chiller – 65RT

Model		FWSD310.1FIII	
Chilled Water In/Out		°C	12/7
Cooling Water In/Out		°C	30/35
Cooling Capacity		RT	65
Compressor /Motor	Model		Semi-Enclosed Type
	Type		Twin-Screw Compressor
	Protection Features		PTC Protection, Liquid Spray, Phase protection, Overload Protection and etc.
	Qty		1
	Power Input	kW	46
	Rated Speed/Voltage/Frequency		2950rpm/415V/50Hz
	Electrical Starter		Star-Delta
	Capacity Control		4-Stage (25% - 100%)
Oil Separator	Type		Built in with Compressor
	Separator Efficiency		99.90%
	Filter Material		Stainless Steel Wire Mesh
	Manufacturer		Built in with Compressor
Evaporator	Type		Shell & Tube, Flooded
	Cylinder Material		Q345R
	Pipe Diameter		DN80
	Water Flow Rate	m ³ /h	37
	Water Pressure Drop	kPa	30 ± 10
	Temperature Control		Outlet Temperature Sensor
Condenser	Type		Shell & Tube
	Cylinder Material		345R/20#
	Pipe Diameter		DN80
	Water Flow Rate	m ³ /h	45
	Water Pressure Drop	kPa	30 ± 10
Filter Drier	Type		Horizontal
	Material		Carbon Steel
	Filter		Aluminum Oxide Molecular Sieves
Electric Control	PLC		Siemens
	Controller		Color Touch Screen
	Contactor		Schneider
Refrigerant	Type		R134A
	Controller		Expansion Valve
	Charging Weight	kg	135

Dimension	Length	mm	3300
	Width	mm	1200
	Height	mm	1750
Weight		kg	2500

Parts List

No	Part Name	Brand
1	Evaporator	T-Source
2	Condenser	T-Source
3	Economizer	Wei Yi
4	Expansion Valve	Danfoss/Emerson/STF
5	Thermal Relay	Schneider
6	Pressure Sensor	HUBA/JUMO
7	PLC	Siemens/LG
8	Controller	Weinview
9	Contacto	Schneider/LG
10	Intermediate Relay	Weidmuller
11	Lighting	Schneider
12	Switch	Schneider

Remarks:

Parts are supply from two or three different supply chains. Therefore, same parts supplied might be different from above with same quality.

Safety Protection Features

1. Compressor Overload Protection
2. Phase Protection
3. Unbalance Voltage >10% Protection
4. High Pressure Protection
5. Oil Pressure Protection
6. Suction Pressure Protection
7. Discharge Temperature Protection
8. Water Flow Switch
9. Anti-Freezing Protection
10. High Pressure Safety Valve

Touch Screen Controller Display

1. Chilled Water Outlet Temperature Setting
2. Total Capacity Percentage
3. Water Outlet Temperature
4. Capacity Display Percentage
5. Suction Pressure
6. Discharge Pressure
7. Discharge Temperature
8. Operating Hours Record
9. Numbers of Start Up Record
10. Password Protection
11. Error Code and Records