



Orient Energy Systems (Pvt.) Ltd.



Health Report of Shuangliang Absorption Chiller

Model # YRY385(93/78)-201(32/37) H2

Product # YXTH-1016

Year of Commissioning: 2020

Electrical Side					
Sr. No	Component Description	Health Condition			Remarks
		Poor	Good	Excellent	
1	Main Connection			✓	Working Normally.
2	Refrigerant Pump		✓		Working Normally.
3	Vacuum Pump		✓		Performance have been found as per standard.
4	Solution Pump		✓		Working Normally.
5	24 V Transformer			✓	Working Normally.
6	CH Flow Switch			✓	Working Normally.
7	Condenser Water Pump Interlocking			✓	Working Normally.
8	Chilled Water Pump Interlocking			✓	Working Normally.
Performance of Controls & Instruments					
		Poor	Good	Excellent	
1	PLC Programing			✓	Working Normally.
2	Chilled Water Inlet Temp. Sensor			✓	Working Normally.
3	Chilled Water Outlet Temp. Sensor			✓	Working Normally.
4	Condenser Water Inlet Temp. Sensor			✓	Working Normally.
5	Evaporation Temp. Sensor			✓	Working Normally.
6	Condensation Temp. Sensor			✓	Working Normally.
7	Spray Temp. Sensor			✓	Working Normally.
8	HPG Temp. Sensor			✓	Working Normally.
9	De-Crystallization Temp. Sensor			✓	Working Normally.
10	HPG Pressure Sensor			✓	Working Normally.

11	Auto Purging Unit Pressure Sensor			✓	Working Normally.
12	Flue Gas inlet/outlet temperature sensors.			✓	Working Normally.
13	Hot water inlet/outlet temperature sensors.			✓	Working Normally.
114	Touch Screen			✓	Working Normally. Touch Pad is replaced before 4 years.
Vacuum Pump Components					
		Poor	Good	Excellent	
1	Corrugation Pipe			✓	Working Normally.
2	Clamps			✓	Working Normally.
3	'O' Rings			✓	Working Normally.
4	Belt			✓	Working Normally.
Flue Gas Regulating Valve					
1	Valve mechanically		✓		Working Normally.
2	Actuator		✓		Working Normally.
Chemical Side					
		Poor	Good	Excellent	
1	LiBr Solution			✓	Clean & Transparent.
Heat Transfer Tubes					
		Poor	Good	Excellent	
2	Condenser		✓		Still no any leakage happened since the chiller commissioned.
3	Absorber		✓		Still no any leakage happened since the chiller commissioned.
4	Evaporator			✓	Still no any leakage happened since the chiller commissioned.
5	High Pressure Generator (hot water & Flue)			✓	Still no any leakage happened since the chiller commissioned.
Sampling & Auto Purging Valves					
		Poor	Good	Excellent	
1	Weak Solution Sampling Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.
2	Strong Solution Sampling Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.
3	Auto Purging Sampling Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.

4	Refrigerant Sampling Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.
5	Auto Purging Lower Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.
6	Auto Purging Upper Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.
7	Auto Purging Condenser Valve		✓		Working normally. As per OEM the replacement of Valve Core is necessary after 3 years. Kindly arrange for Replacement.