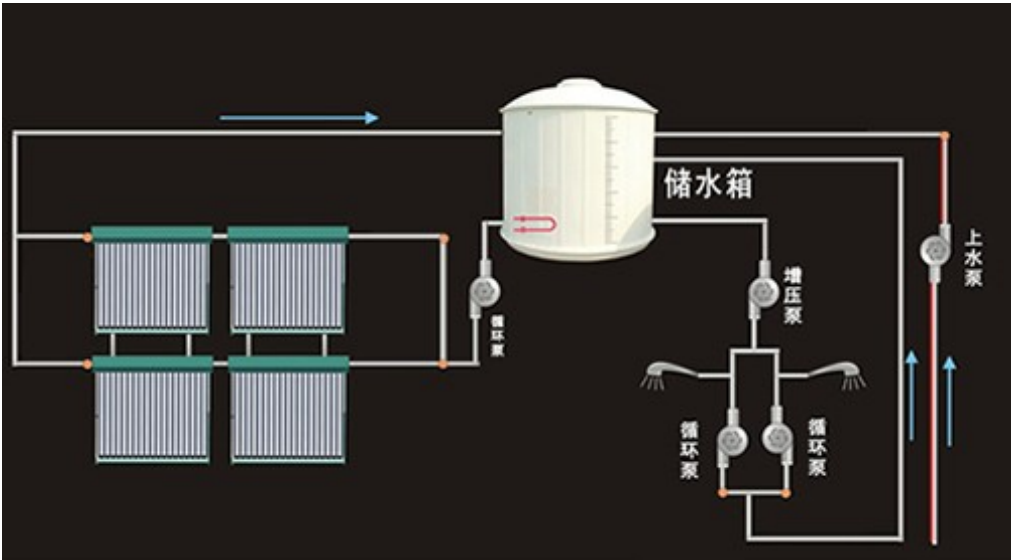
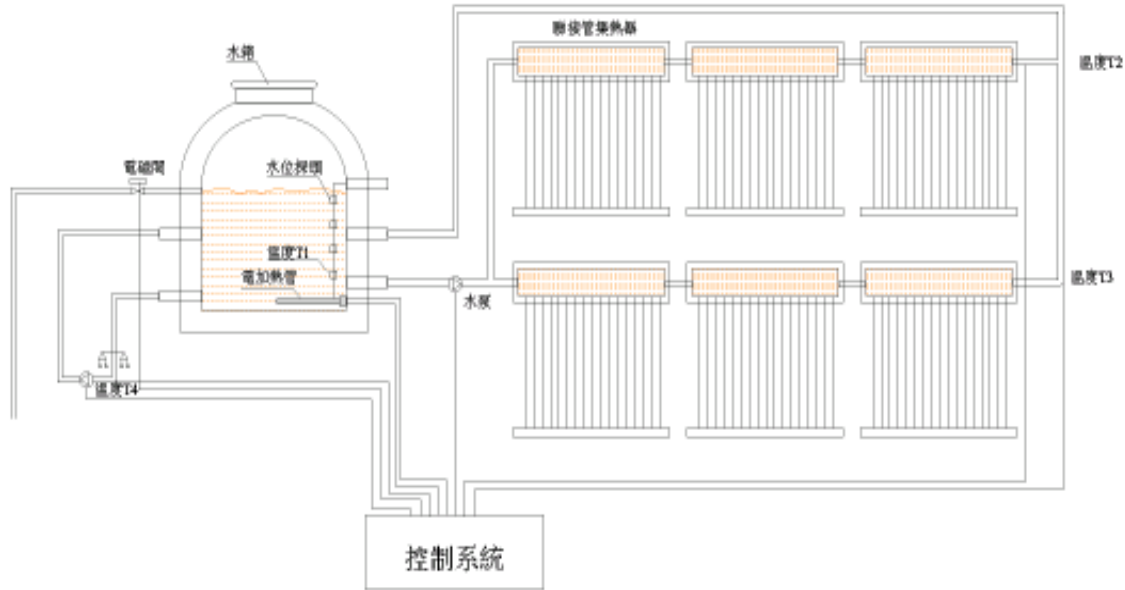


Unit Combination Solar Hot Water Project Solution



Tank
Pressure Pump
Input Pump
Cycling Pump



Electro-magnetic Valve
Tank
Waterline Indicator
Electric Heater
Control System
Pump
Joint-tube Heater
Temperature T1

Temperature T2
Temperature T3
Temperature T4

Unit Combination Solar Hot Water Project Solution is a highly automated hot water system with little limits for installation. It is suitable for users with large hot water needs and complicated roof conditions, such as hospitals, schools, hotels, barracks, residential area . This system works in three modes: Fixed Temperature Releasing System, Temperature Difference Cycling System, and Mixed System of Fixed Temperature Releasing and Temperature Difference Cycling.

Working Principle:

- (1) Fixed Temperature Releasing System: When the water in the heat-collector comes to the fixed temperature, the releasing valve opens and the water runs into the storage tank. The system also features functions as: automatic-water-supply, indicators of temperature and waterline, pipeline cycling and automatic-electric-heater.
- (2) Temperature Difference Cycling System (see the following figure): In this system, the temperature at the outlet of heat-collector and the temperature in the storage tank can be fixed in advance; the cycling pump will start and shut down automatically. In this way, the cold water in the storage tank will flow into the collectors and the hot water in the collector will be pushed into the storage tank, so the temperature of the water in the storage tank will increase continuously. This system can work together with auxiliary heaters of other energies, such as electric, natural gas, oil, etc. so as to provide hot water in all weather conditions.