500L

300L

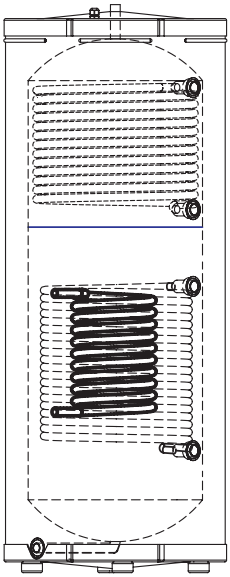
Multi Functional Water Tank User's Manual

R120400351,V1.0

CONTENT

1.Technical data

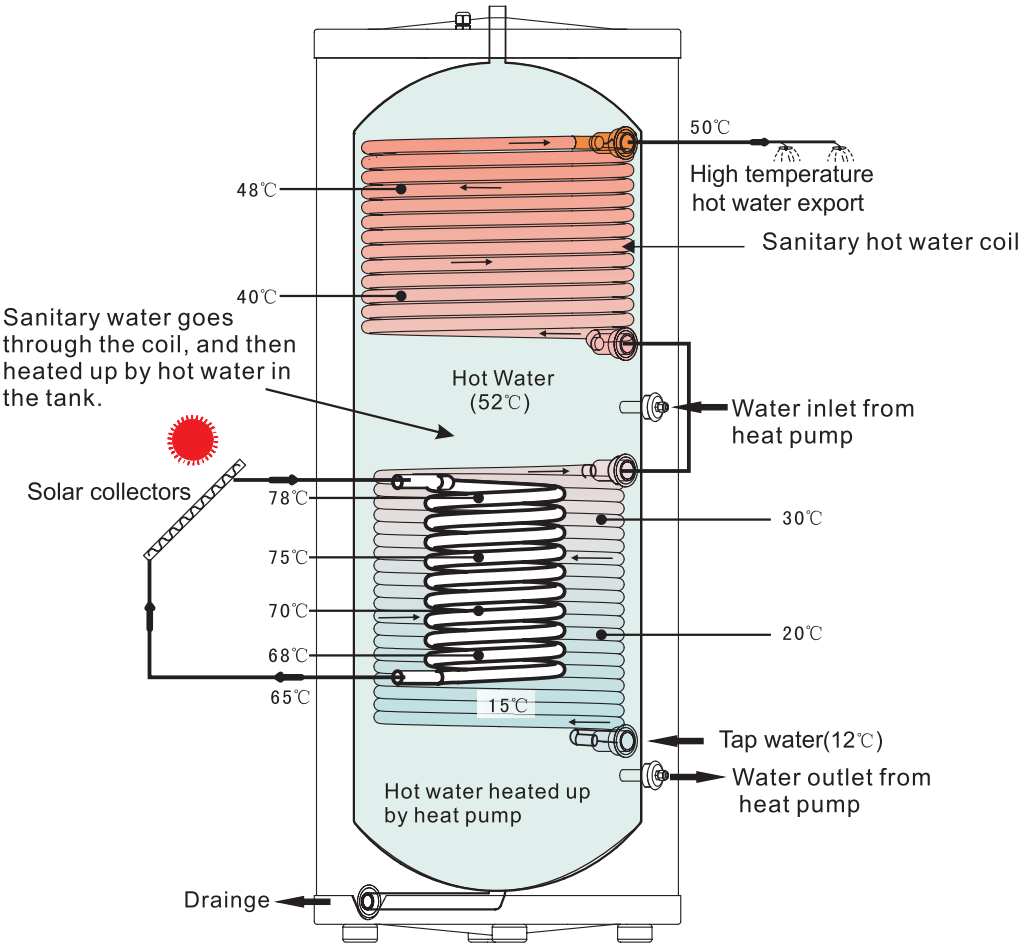
1.1 Technical data



Model			MWT 300.4-3H	MWT 500.4-3H
Water volume		L	300	500
Net diension	Height	mm	1560	1850
	Dia.	mm	630	700
Inside shell material			304 stainless steel	
Outside shell material			304s.s/paintion metal	
Insulation material			Polyurethane injection foam	
Insulation thickness		mm	50	
Emtpy weight		kg	95	120
Solar coil material			304 stainless steel	
Solar coil tube diameter		mm	22	22
Solar coil length		m	10	15
Shower coil material			304 s.s	
Shower coil tube diameter		mm	22	22
Shower coil length		m	20	20
Electric heater		kw	3	3

1.Technical data

1.2 Inner structure

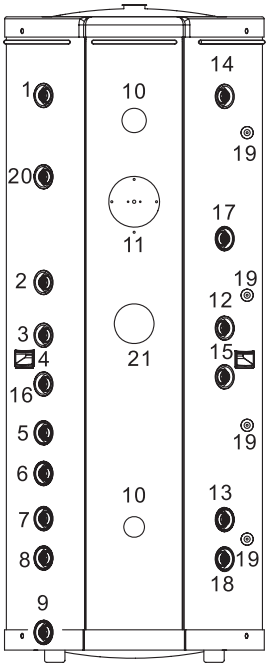


2.Introduction

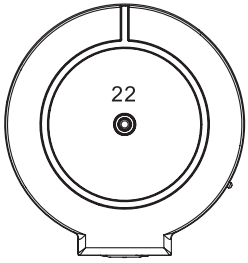
2.1 Main components

Item on	Name	Size
1	Water inlet from other heating source	G1”female
2	Water outlet to radiator	G1”female
3	Solar coil water inlet	G1”female
4	Handle	
5	Water inlet from radiator	G1”female
6	Solar coil water outlet	G1”female
7	Water inlet from floor heating	G1”female
8	Water outlet to other heating source	G1”female
9	Drainage	G3/4'' female
10	Temperature meter	
11	Electric heater	3 KW
12	Shower coil 1 water outlet	G1”female
13	Shower coil 1 water inlet	G1”female
14	Shower coil 2 water outlet	G1”female
15	Water inlet from heat pump	G1”female
16	Water outlet to floor heating	G1”female
17	Shower coil 2 water inlet	G1”female
18	Water outlet to heat pump	G1”female
19	Temperature sensor hole	
20	Magnesium rod installation	G1”female
21	Electric heater	G2”female
22	Expansion tank	G3/4”male

MWT 300.4-3H



Front view

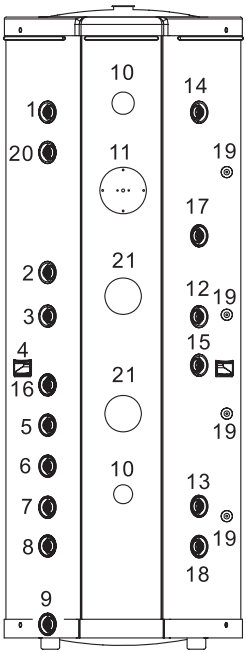


Top view

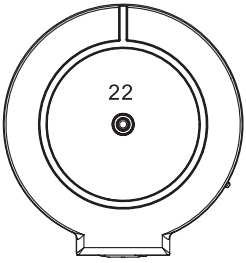
2.Introduction

MWT 500.4-3H

Item on	Name	Size
1	Water inlet from other heating source	G1”female
2	Water outlet to radiator	G1”female
3	Solar coil water inlet	G1”female
4	Handle	
5	Water inlet from radiator	G1”female
6	Solar coil water outlet	G1”female
7	Water inlet from floor heating	G1”female
8	Water outlet to other heating source	G1”female
9	Drainage	G3/4'' female
10	Temperature meter	
11	Electric heater	3 KW
12	Shower coil 1 water outlet	G1/2”female
13	Shower coil 1 water inlet	G1”female
14	Shower coil 2 water outlet	G1”female
15	Water inlet from heat pump	G1”female
16	Water outlet to floor heating	G1”female
17	Shower coil 2 water inlet	G1”female
18	Water outlet to heat pump	G1”female
19	Temperature sensor hole	
20	Magnesium rod installation	G3/4'' female
21	Electric heater	G2”female
22	Expansion tank	G3/4”male



Front view

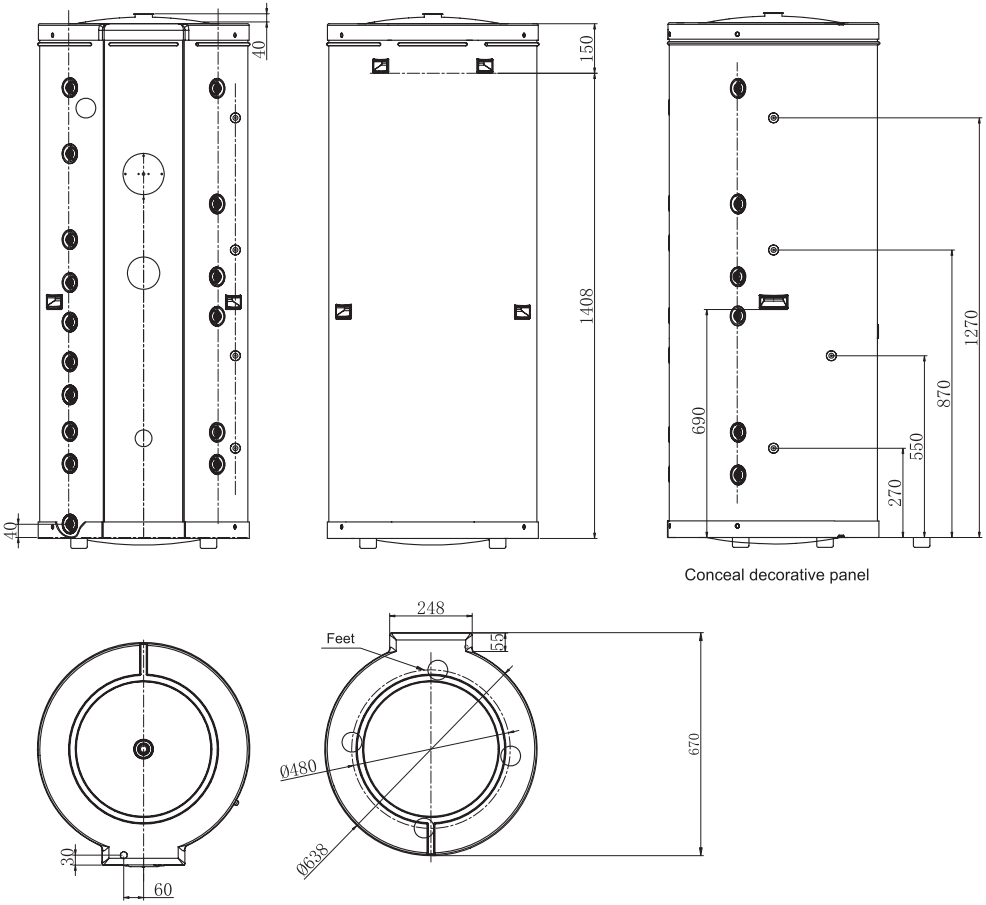


Top view

2.Introduction

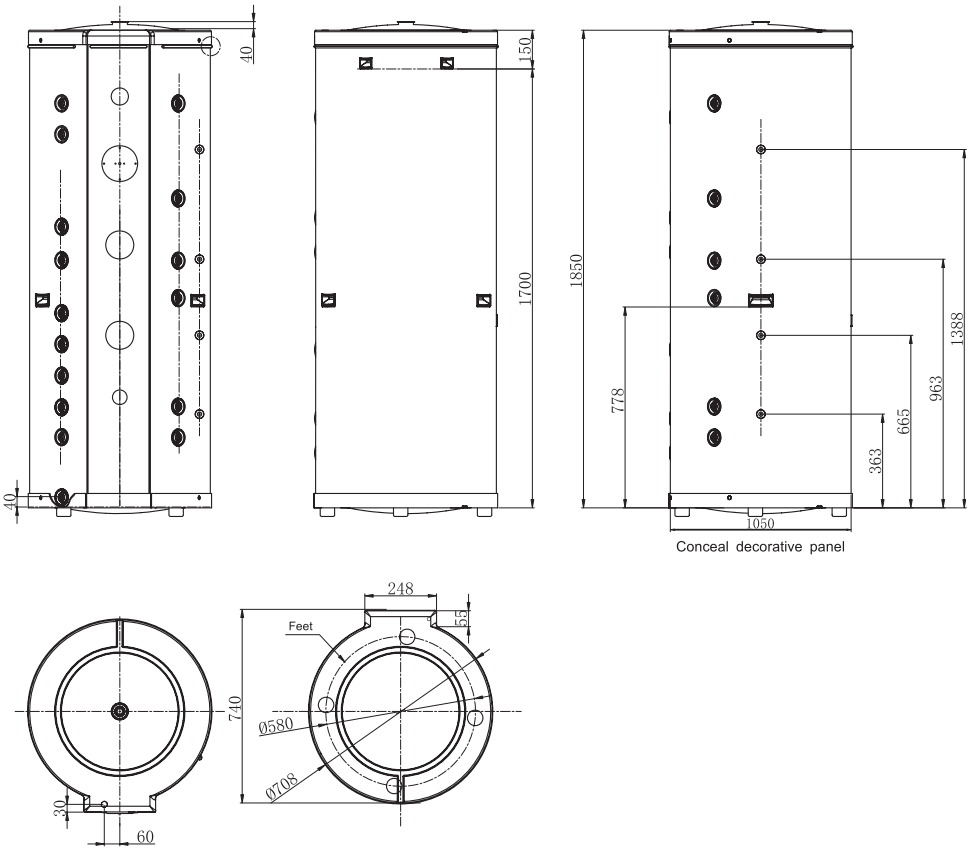
2.2 Outlines and dimensions

MWT 300.4-3H



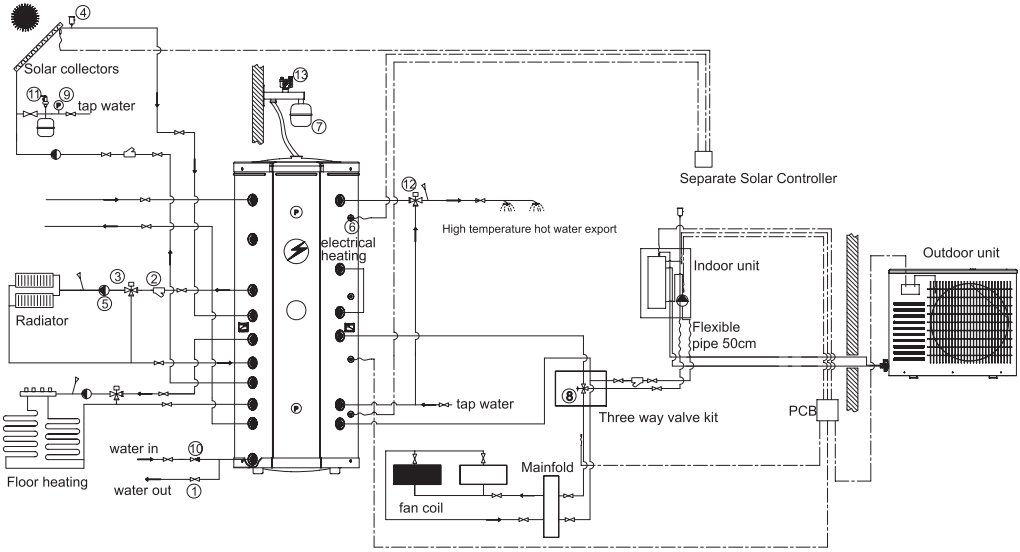
2.Introduction

MWT 500.4-3H



3.Application illustration

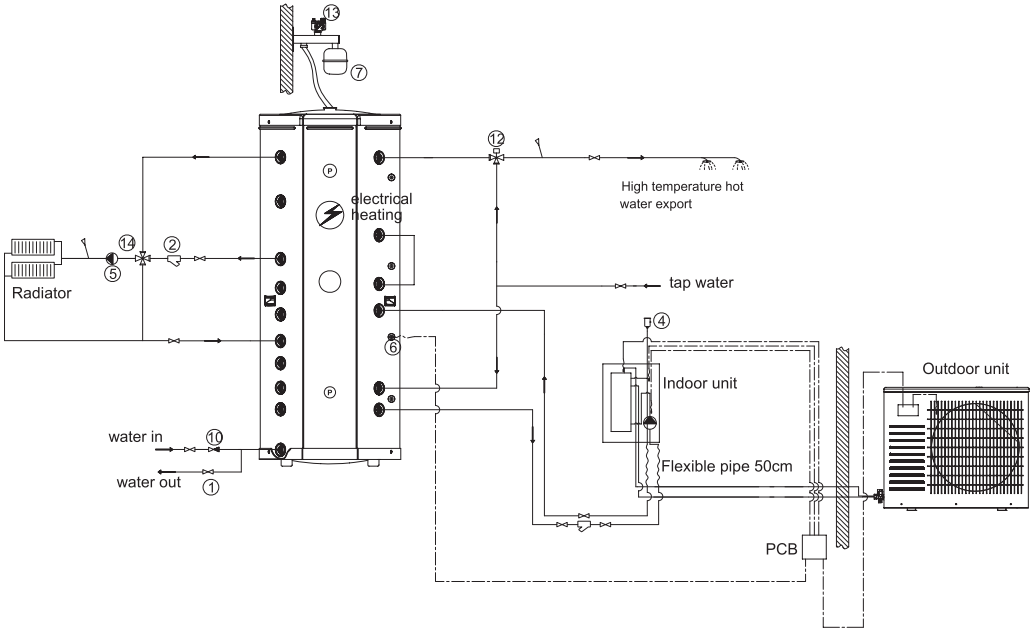
3.1 Total system graph



No	Name	legend	No	Name	legend
1	shutoff valve		8	electric the 3-way valve	
2	filter ball		9	pressure gage	
3	shunt valve		10	non-return valve	
4	automatic air valve		11	T/P valve for solar system	
5	water pump		12	water mixing valve	
6	sensor		13	safety valve	
7	expansion tank				

3.Application illustration

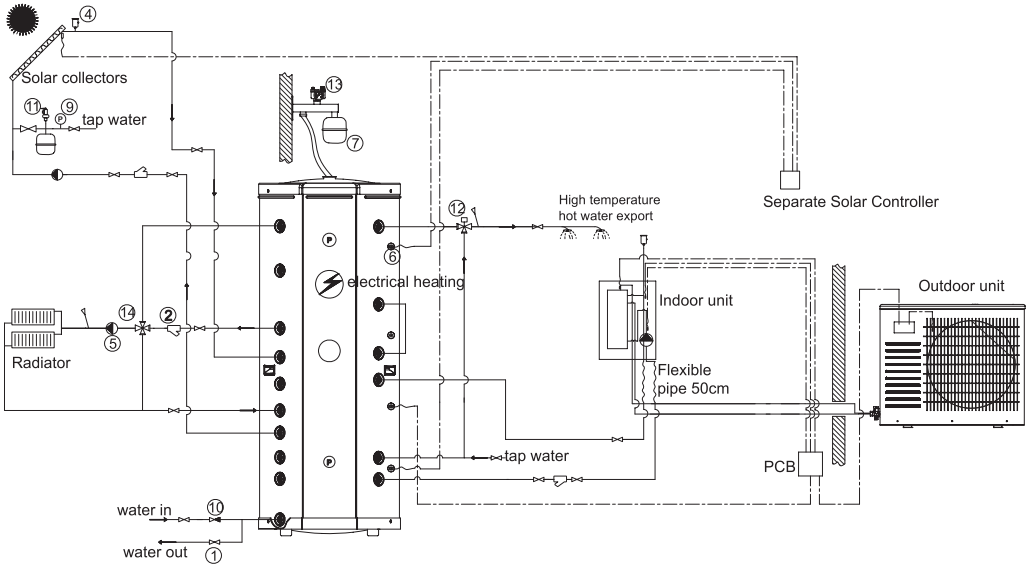
3.2. Air Water + Multifunctional Tank



No	Name	legend	No	Name	legend
1	shutoff valve		8	electric the 3-way valve	
2	filter ball		9	pressure gage	
3	shunt valve		10	non-return valve	
4	automatic air valve		11	T/P valve for solar system	
5	water pump		12	water mixing valve	
6	sensor		13	safety valve	
7	expansion tank		14	water mixing valve	

3.Application illustration

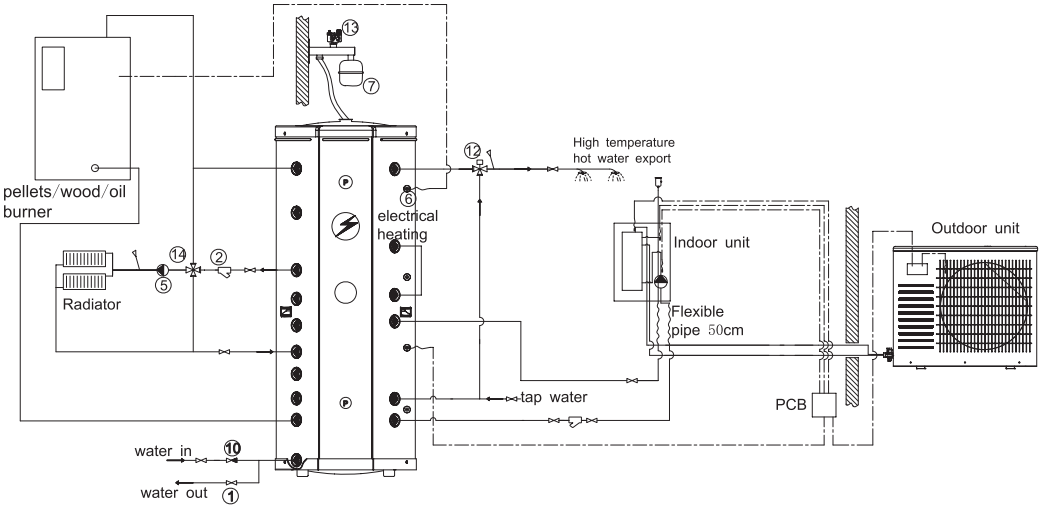
3.3 Air Water+Multifunctional Tank+Solar Collectors



No	Name	legend	No	Name	legend
1	shutoff valve		8	electric the 3-way valve	
2	filter ball		9	pressure gage	
3	shunt valve		10	non-return valve	
4	automatic air valve		11	T/P valve for solar system	
5	water pump		12	water mixing valve	
6	sensor		13	safety valve	
7	expansion tank		14	water mixing valve	

3.Application illustration

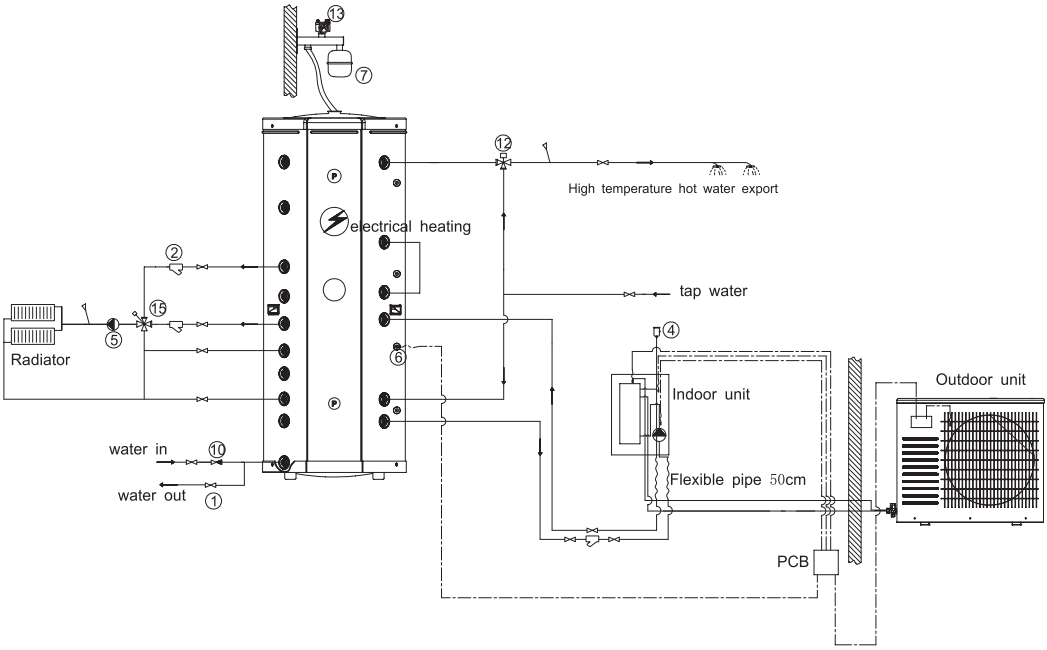
3.4 AW 24.4 To Tank In Combine With "pellets/wood/oil burner".



No	Name	legend	No	Name	legend
1	shutoff valve		8	electric the 3-way valve	
2	filter ball		9	pressure gage	
3	shunt valve		10	non-return valve	
4	automatic air valve		11	T/P valve for solar system	
5	water pump		12	water mixing valve	
6	sensor		13	safety valve	
7	expansion tank		14	water mixing valve	

3.Application illustration

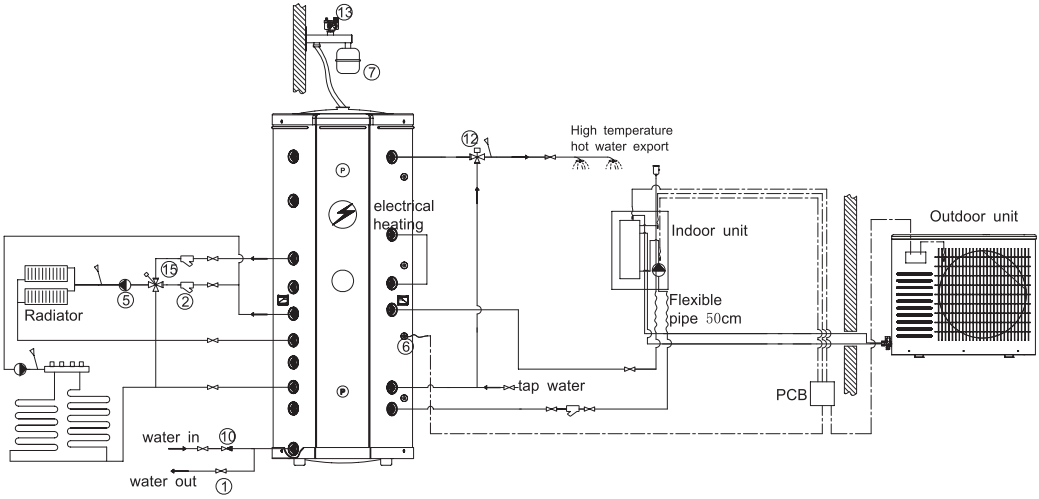
3.5 With bivalent valve and radiator system only



No	Name	legend	No	Name	legend
1	shutoff valve		8	electric the 3-way valve	
2	filter ball		9	pressure gage	
3	shunt valve		10	non-return valve	
4	automatic air valve		11	T/P valve for solar system	
5	water pump		12	water mixing valve	
6	sensor		13	safety valve	
7	expansion tank		14	water mixing valve	
			15	biavlent valve	

3.Application illustration

3.6 With bivalent valve , radiator and radiator



No	Name	legend	No	Name	legend
1	shutoff valve		8	electric the 3-way valve	
2	filter ball		9	pressure gage	
3	shunt valve		10	non-return valve	
4	automatic air valve		11	T/P valve for solar system	
5	water pump		12	water mixing valve	
6	sensor		13	safety valve	
7	expansion tank		14	water mixing valve	
			15	biavlent valve	

4.Installation

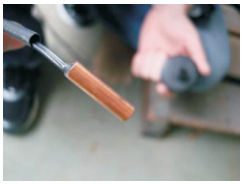
4.1 Installation of temperature sensor

Temperature sensor should be put into the water tank as follows:

1. Remove the plastic cover for installing the temperature sensor on the water tank, screw off the plastic nut and remove the ″O″ ring.



2. Pass the temperature sensor through the plastic nut and reinstall the ″O″ ring.



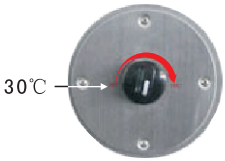
3. After the temperature sensor passes through the plastic cover and completely goes into the temperature sensor hole on the tank, please screw tightly the plastic nut.



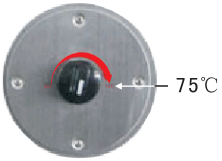
4.Installation

4.2 Mechanical temperature controller

The controller is used to turn ON/OFF the electric heater. Water temperature can be set between 30℃ and 75℃. Turn the knob clockwise to have a higher set temperature.
When the water temperature is lower than the set temperature, the electric heater will be turned on.
When the water temperature gets or higher than the set temperature, the electric heater will be turned off.



30℃ is the lowest set Temp.



75℃ is the highest set Temp.

Note: There are several reserved places for temperature sensors on the water tank, please choose the suitable ones according to real application.

5.Wiring Diagram