

500L



Multi Functional Water Tank User's Manual

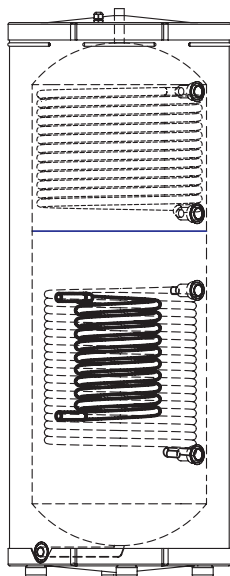
R120400630,V1.0

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1. Technical data

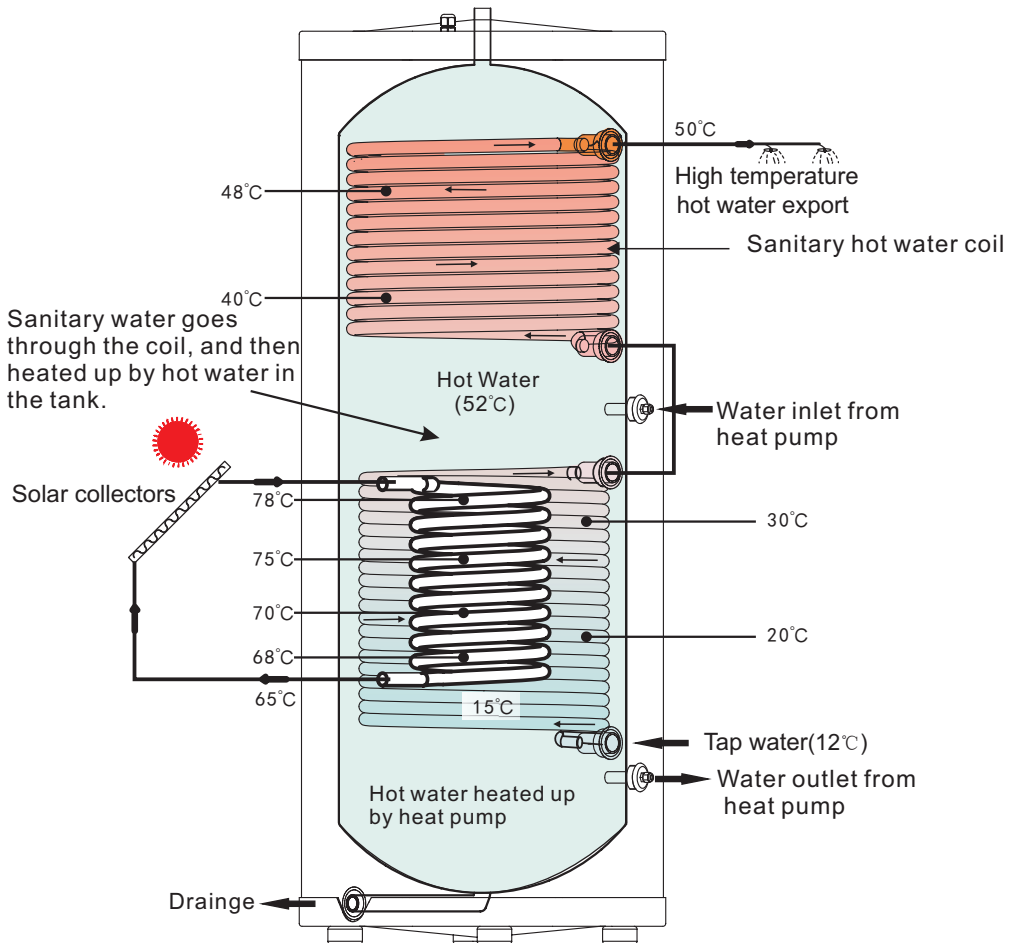
1.1 Technical data



Model			MWT 500C.1
Water volume		L	500
Net diension	Height	mm	1850
	Dia.	mm	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	120
Solar coil material			304 stainless steel
Solar coil tube diameter		mm	22
Solar coil length		m	15
Shower coil material			304 s.s
Shower coil tube diameter		mm	22
Shower coil length		m	20
Electric heater		kw	3

1. Technical data

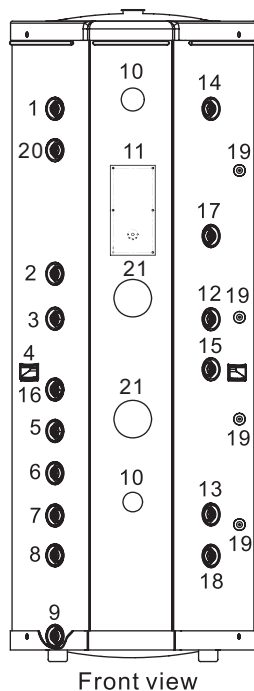
1.2 Inner structure



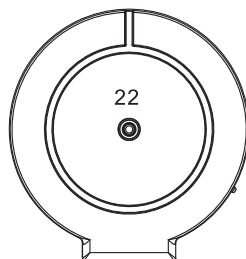
2.Introduction

2.1 Main components MWT 500C.1

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



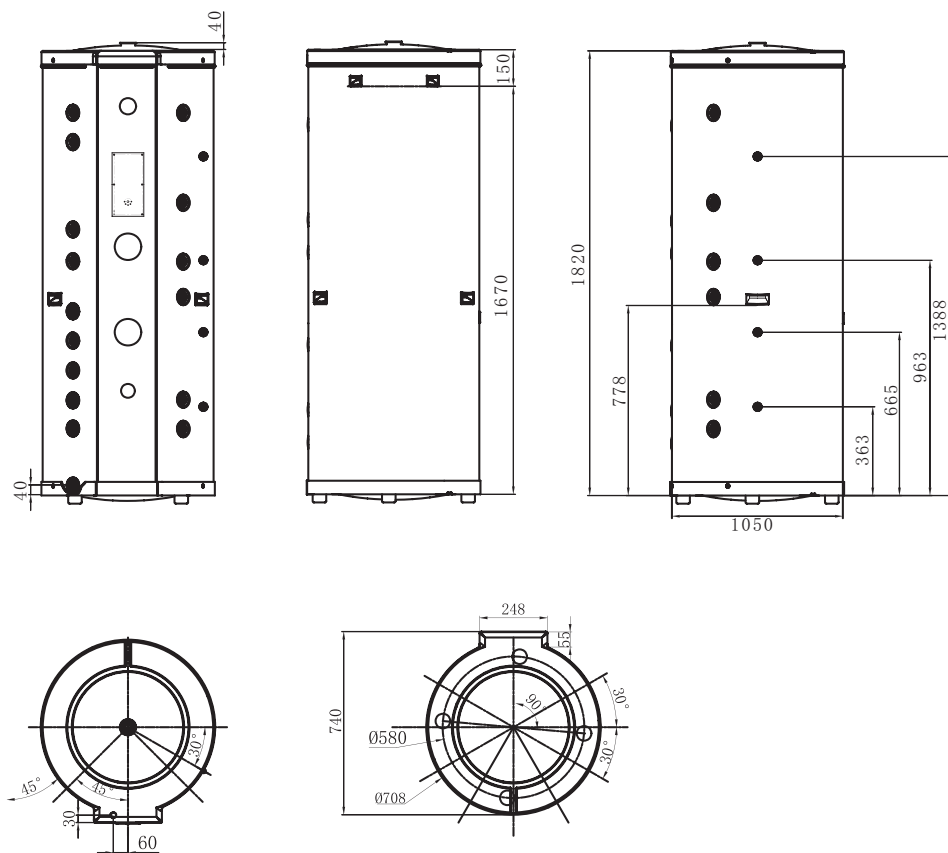
Front view



Top view

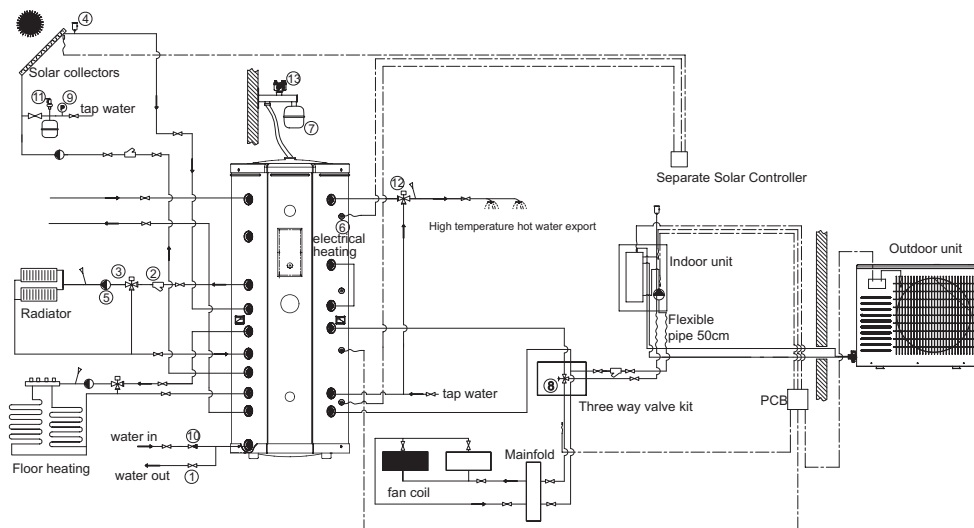
2.Introduction














2.2 Outlines and dimensions MWT 500C.1



3.Application illustration

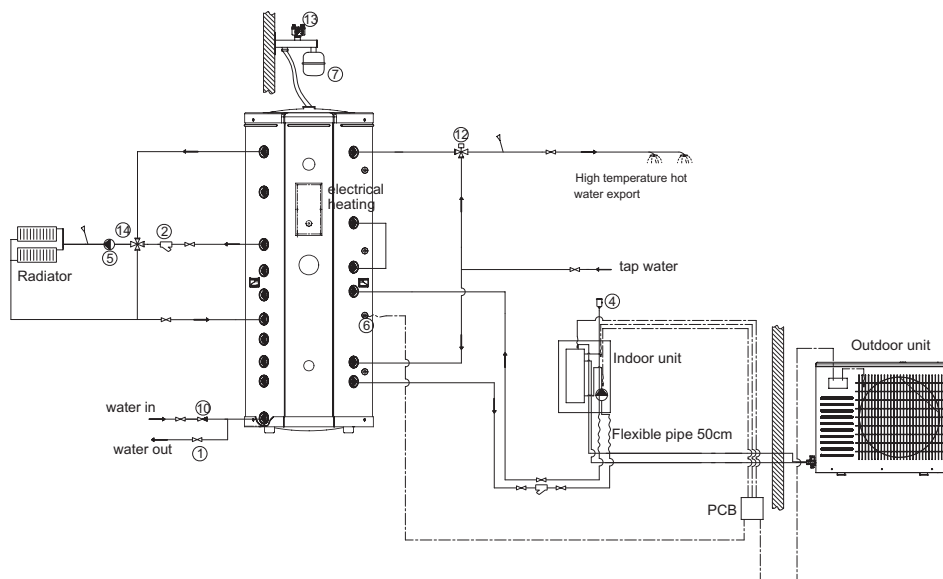
3.1 Total system graph

















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

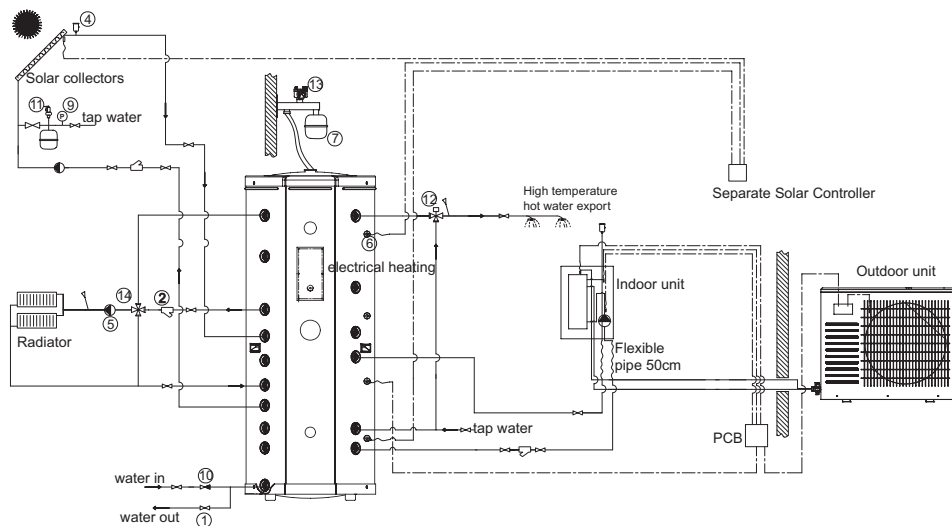
3.2. Air Water + Multifunctional Tank

















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

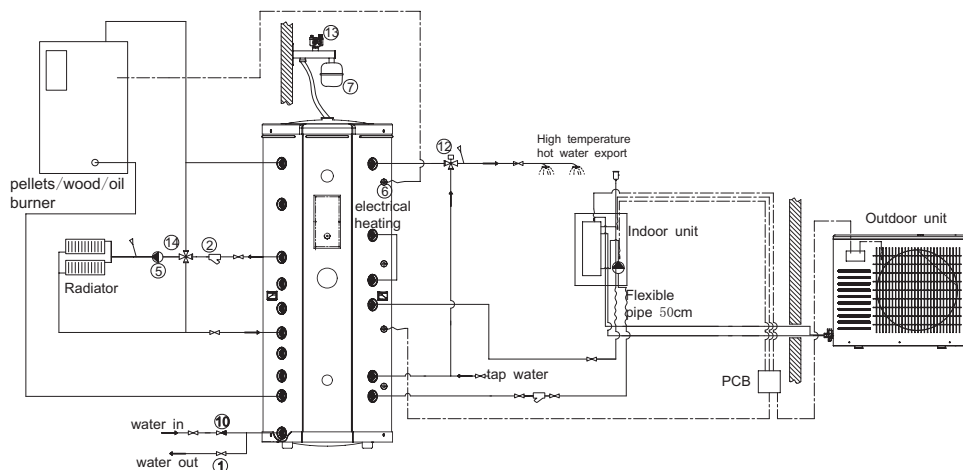
3.3 Air Water+Multifunctional Tank+Solar Collectors



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

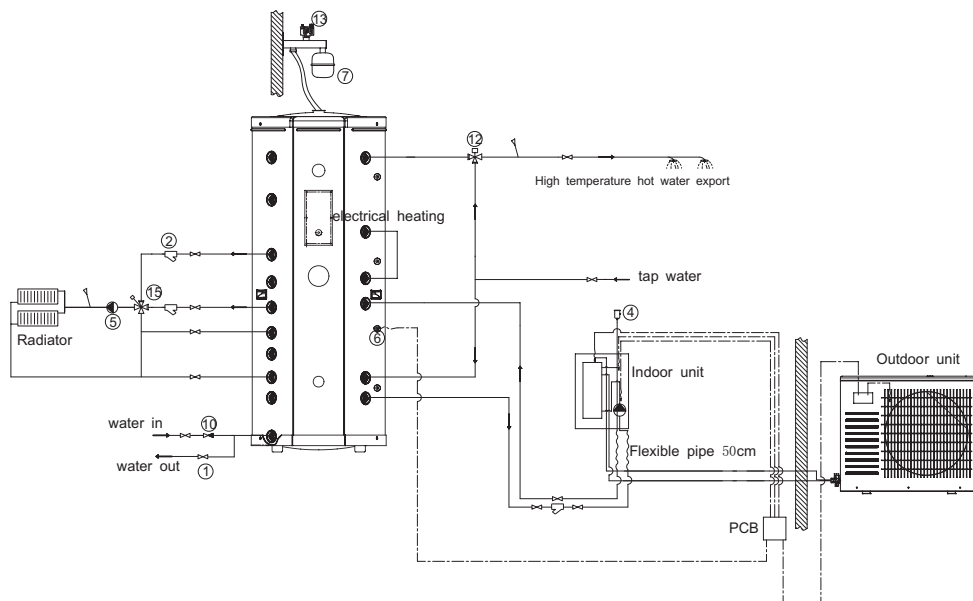
3.4 AW 24.4 To Tank In Combine With " pellets/wood/oil burner".


















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

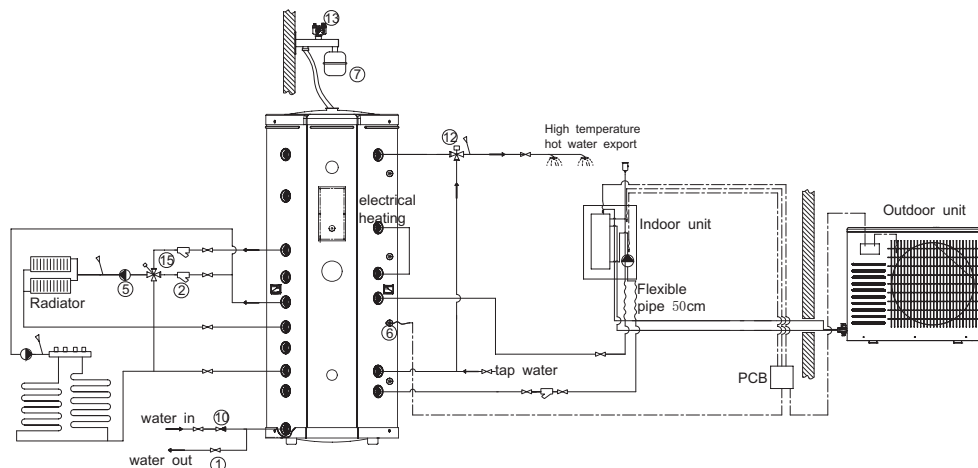
3.5 With bivalent valve and radiator system only



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

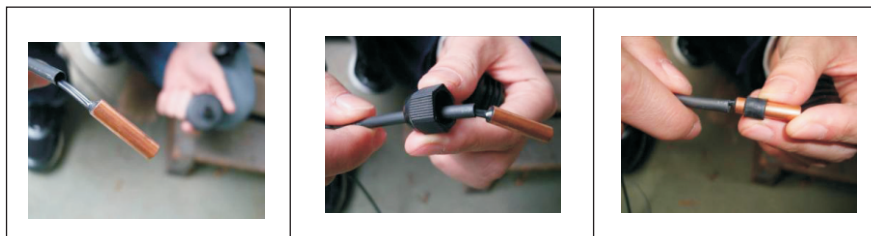
4.1 Installation of temperature sensor

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.

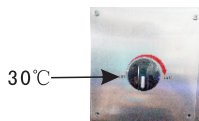


4. Installation

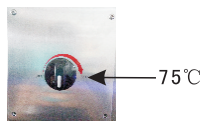
4.2 Mechanical temperature controller

The controller is used to turn ON/OFF the electric heater. Water temperature can be set between 30°C and 75°C. 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°C is the lowest set Temp.



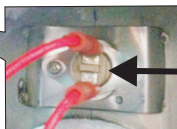
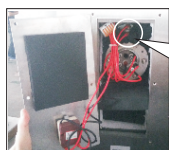
75°C is the highest set Temp.

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

4.3 Overheating protector

1. When the water temperature reaches 90°C, the protector is cut off, and the electric heater stops working.
2. After clear the failure and the temperature is lower than 90°C, it can be reset manually. please close it by press the button.

The above operation should be done by professionals.



button

5. Wiring Diagram

