

500L



300L



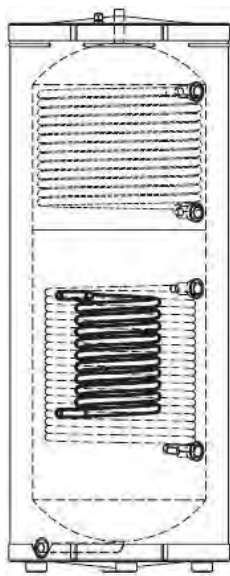
***Multi Functional Water Tank
User's Manual***

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1. Technical data

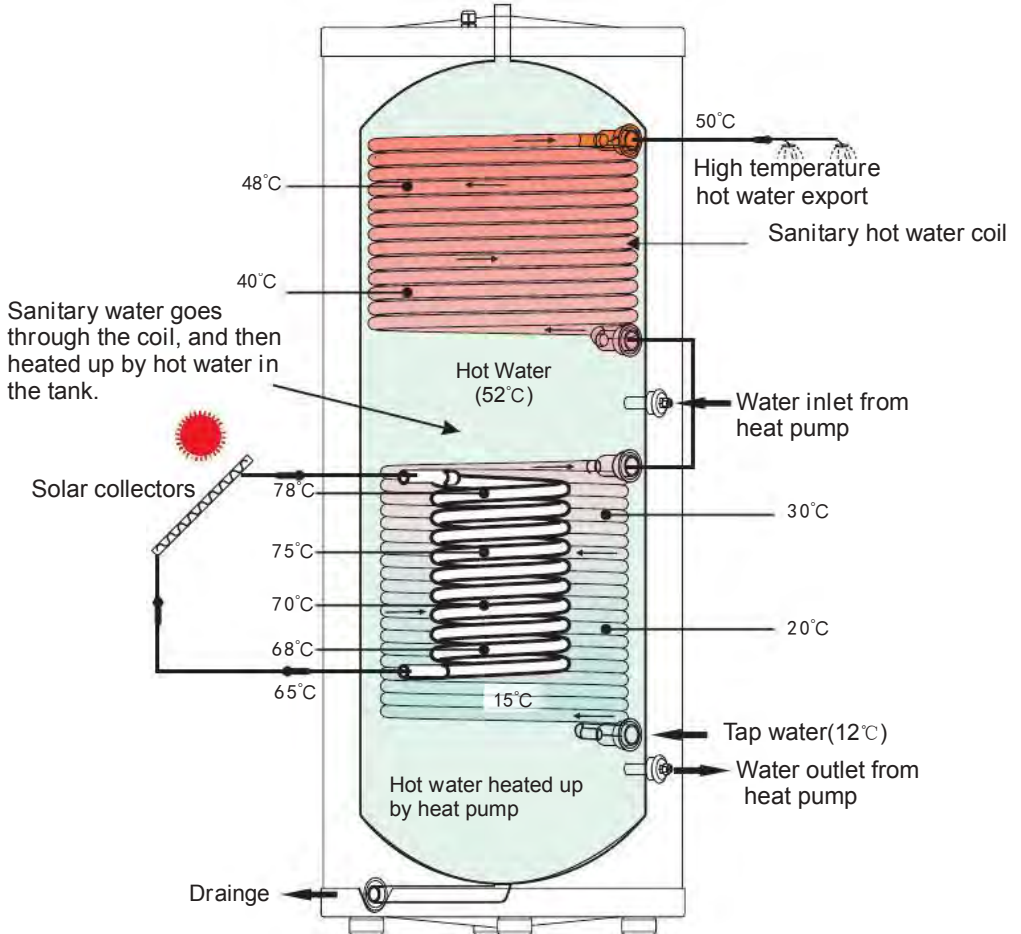
1.1 Technical data



| 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

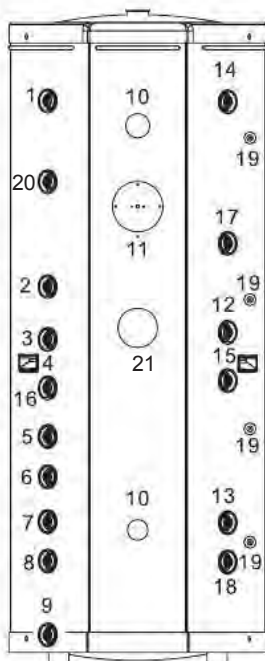


2.Introduction

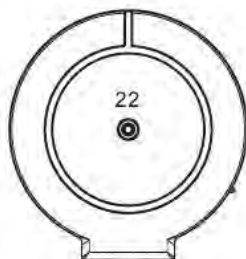
2.1 Main components

| 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

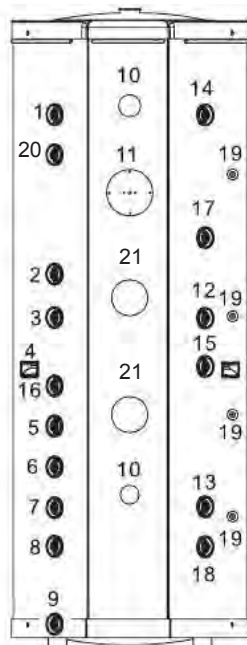


Top view

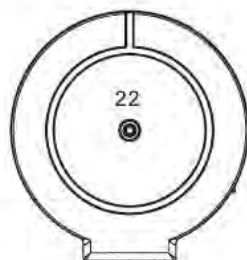
2.Introduction

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

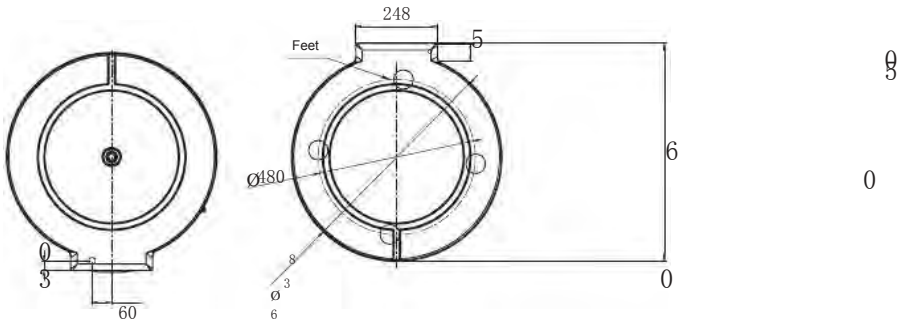
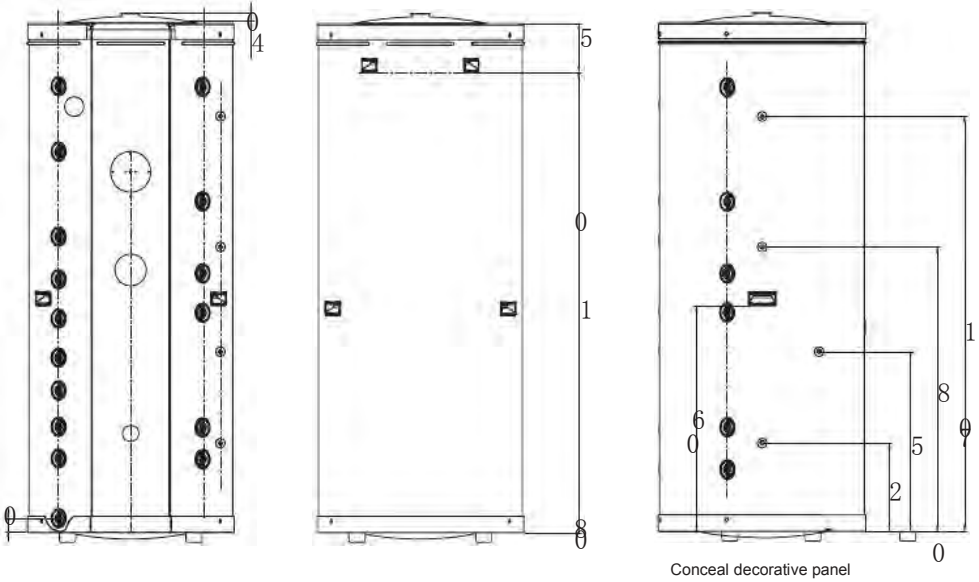


Top view

2.Introduction

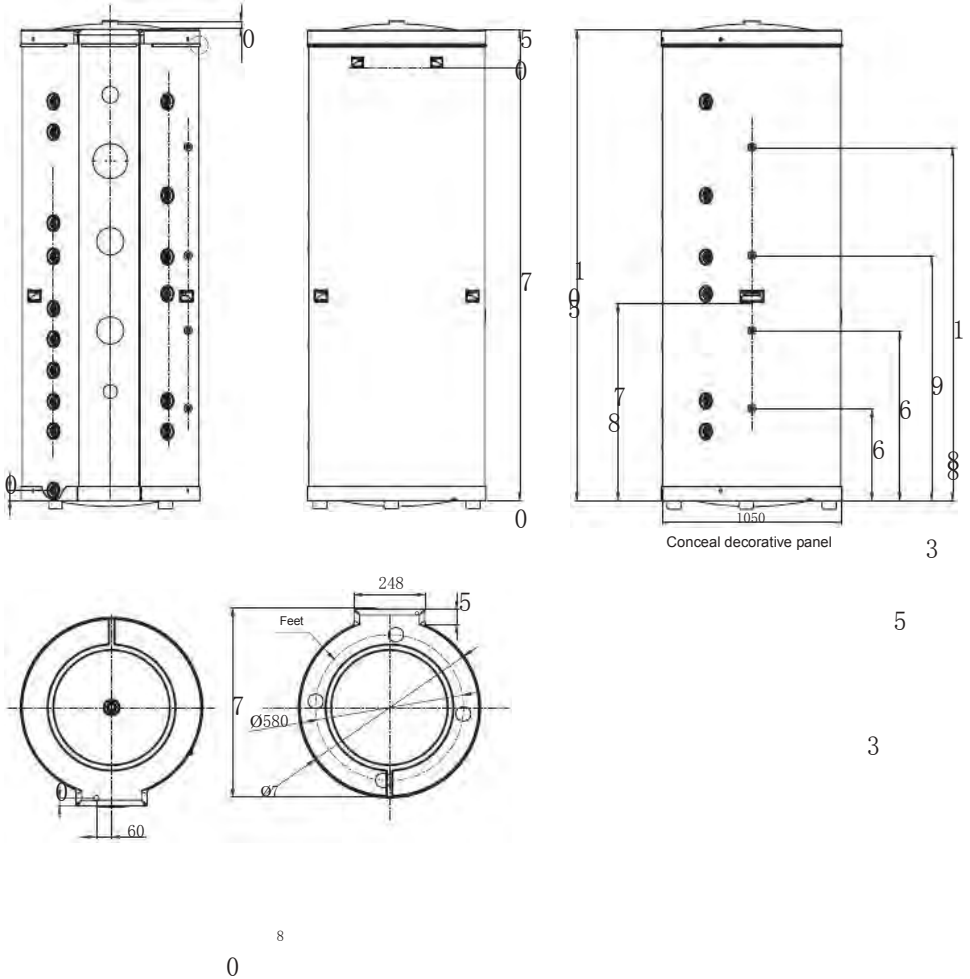
2.2 Outlines and dimensions

MWT 300.4-3H



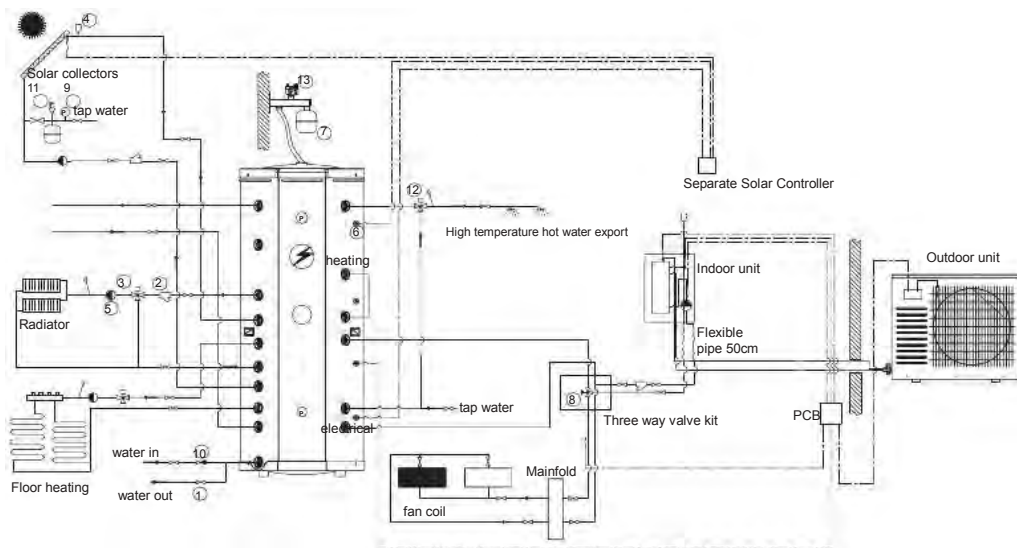
2.Introduction














MWT 500.4-3H



3. Application illustration

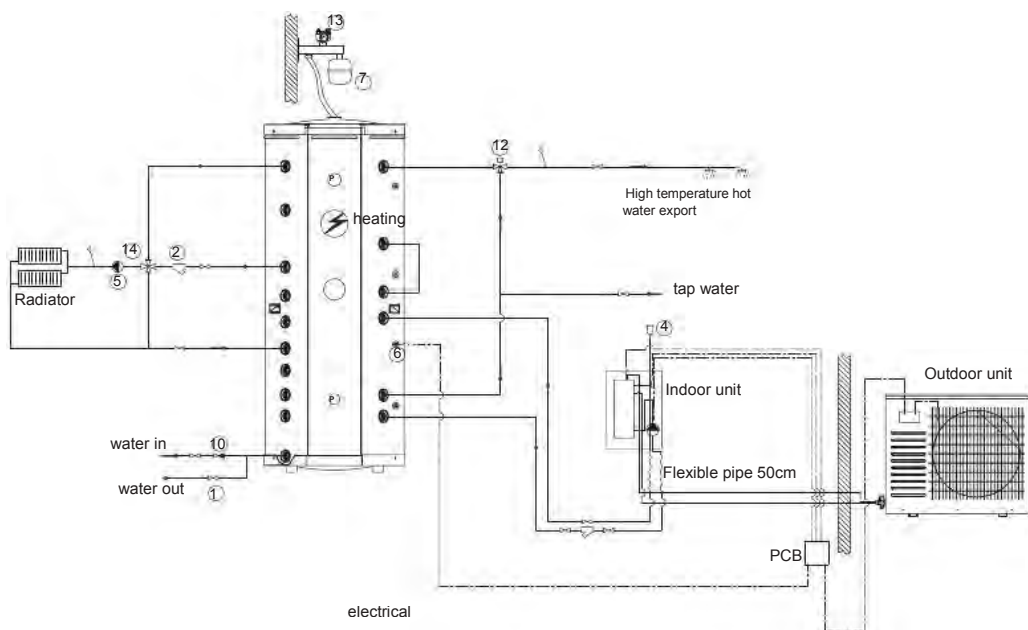
3.1 Total system graph



| 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

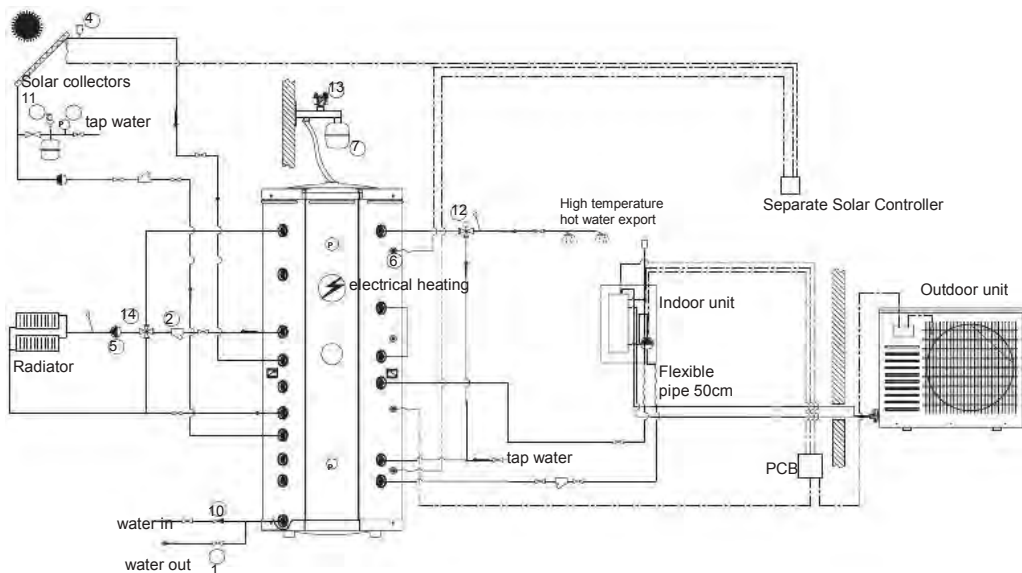
3.2. Air Water + Multifunctional Tank

















| 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

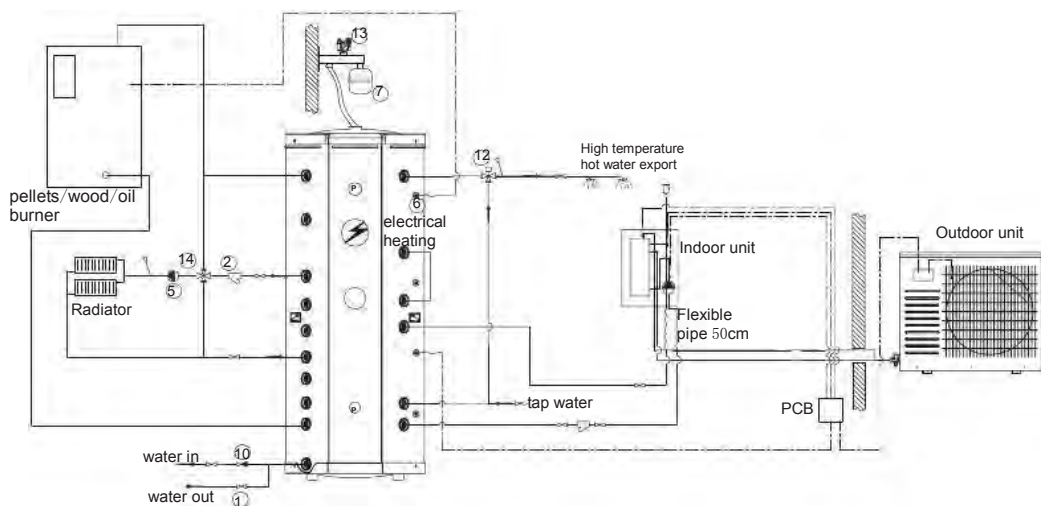
3.3 Air Water+Multifunctional Tank+Solar Collectors













| 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

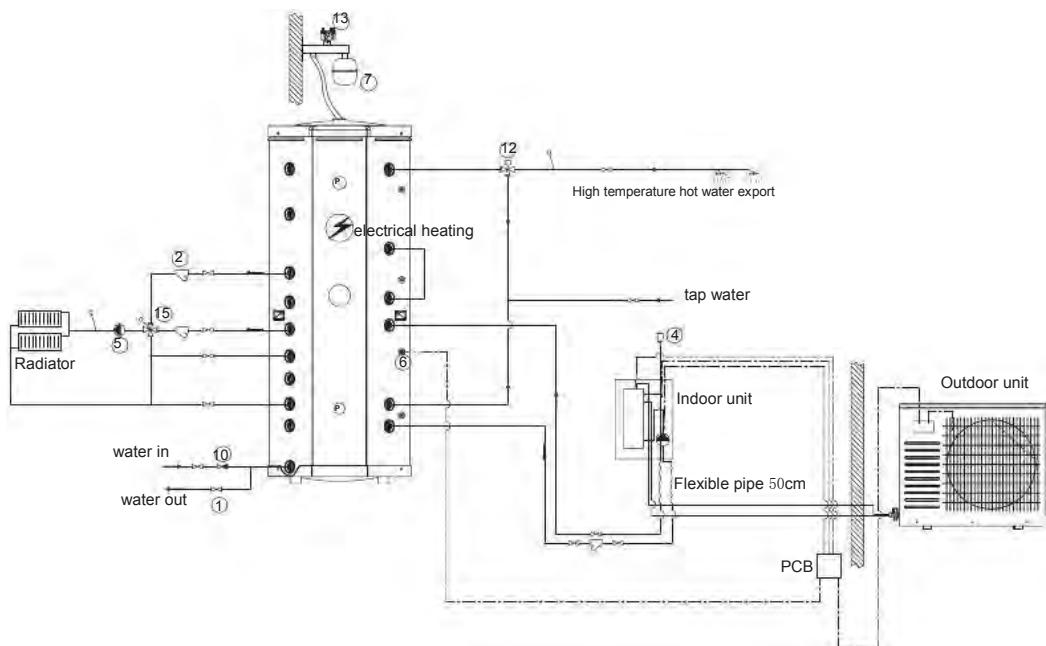
3.4 AW 24.4 To Tank In Combine With "pellets/ wood/ oil burner".


















| 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

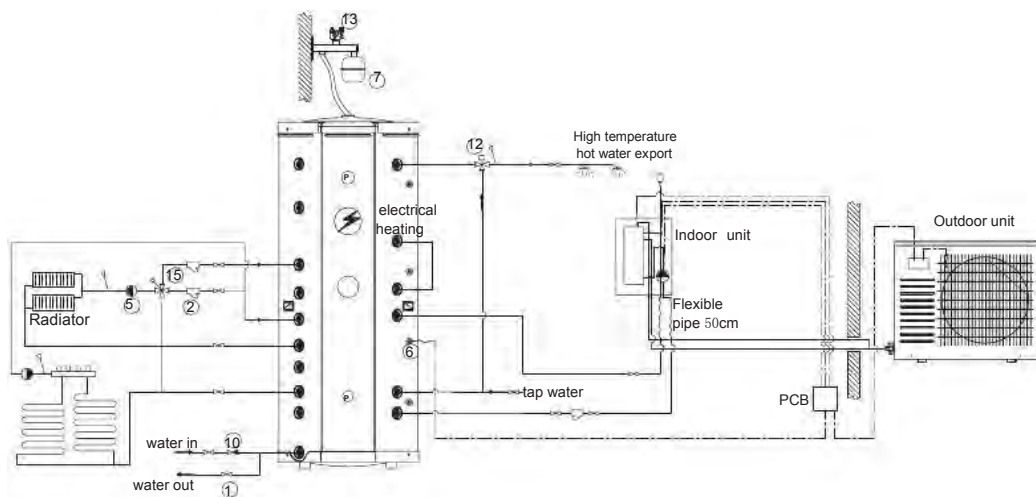
3.5 With bivalent valve and radiator system only


















| 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 | bivalent 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 | bivalent 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.

5. Wiring Diagram

