

Multipurpose water tank 200 liters

MWT-200D

★Before installing and operating the unit, please read the manual carefully.

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1. Attention

【Attention】



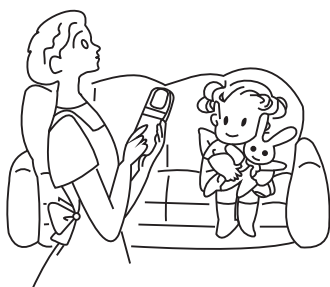
Warning



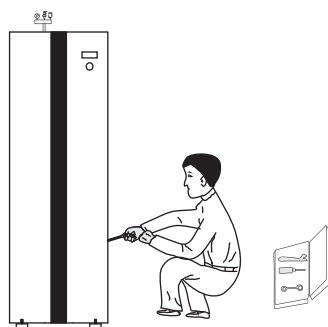
Caution



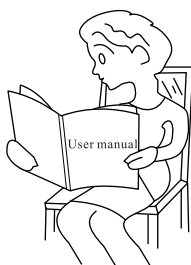
Prohibition



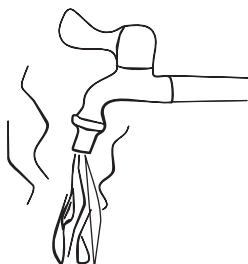
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



The installation, dismantlement and maintenance of the unit must be performed by qualified personnel. It is forbidden to do any changes to the structure of the unit. Otherwise injury of person or unit damage might happen.

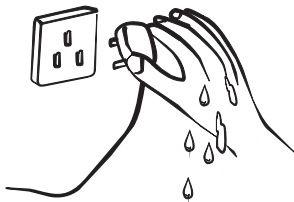


Be sure to read this manual before use.

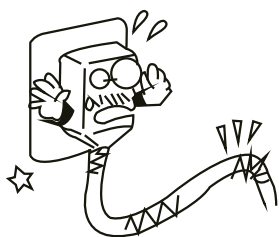


For taking shower, please always add a mixture valve before water tap and set it to proper temperature. Make sure not get burned by the hot water.

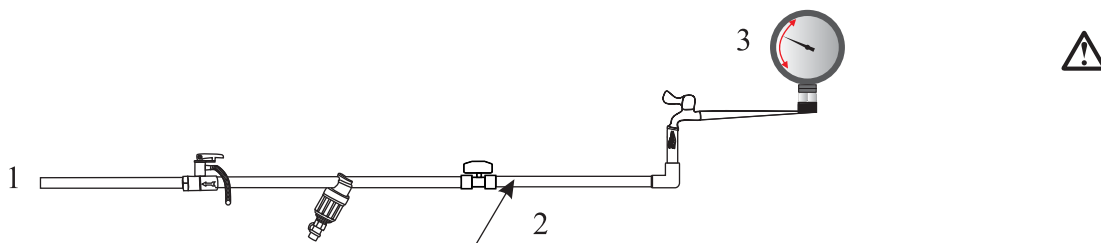
1. Attention



Do not touch the power plug with wet hands. Never pull out the plug by pulling the power-cable.



When the power cord gets loose or is damaged, always get a qualified person to fix it.



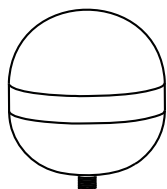
1 - Connect to water tank

2 - City water inlet

3 - Max. 0.7 Mpa, Min. 0.1 Mpa

The maximum inlet water pressure, in pascals: 0.7Mpa.

The minimum inlet water pressure, in pascals, if this is necessary for the correct operation of the appliance: 0.1Mpa.

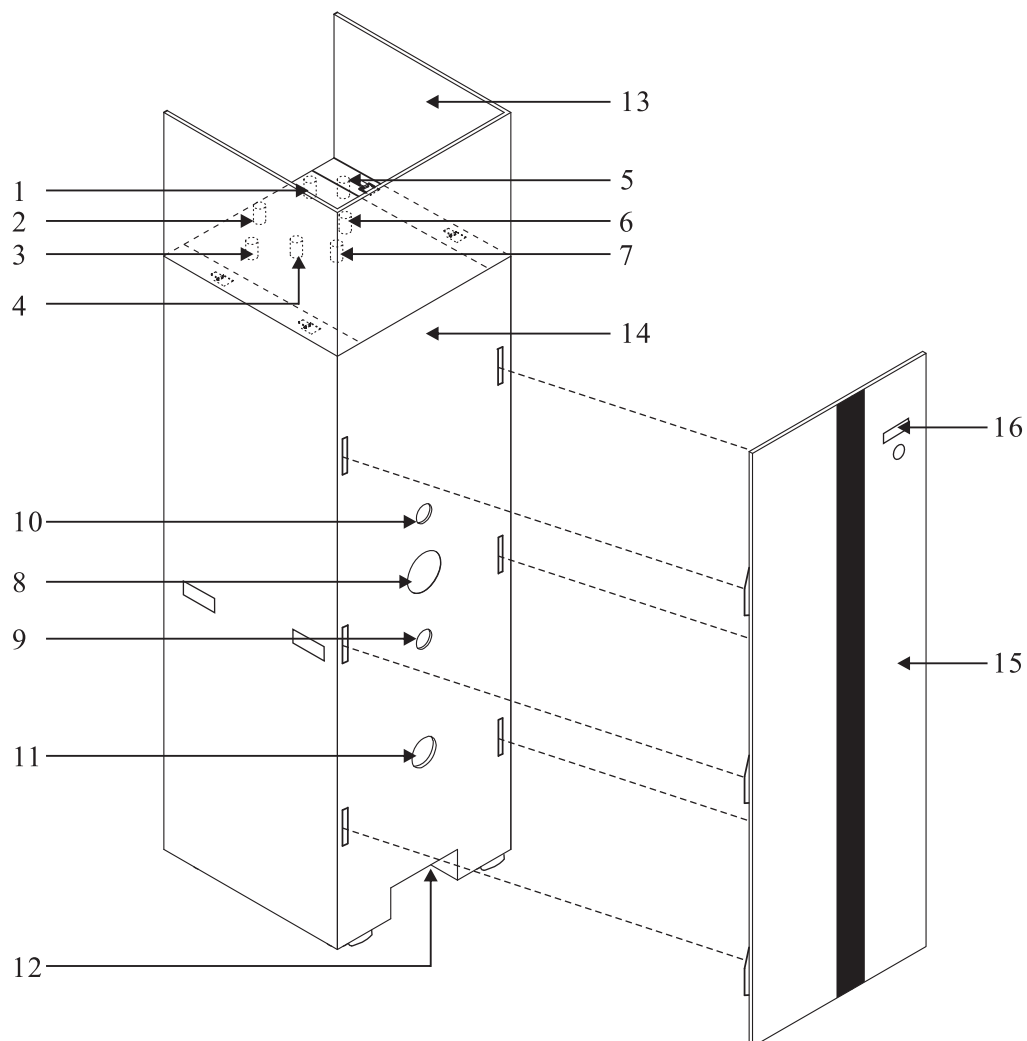


The water volume in the multipurpose water tank needs to be connected to an expansion tank, pressurized and sized in accordance to the operating pressure in the system, total water volume and water temperature difference in the system.



It is the installers responsibility to ensure that the installation of the system with safety features, is in accordance to the heating systems tolerances and central and local skill of standards.

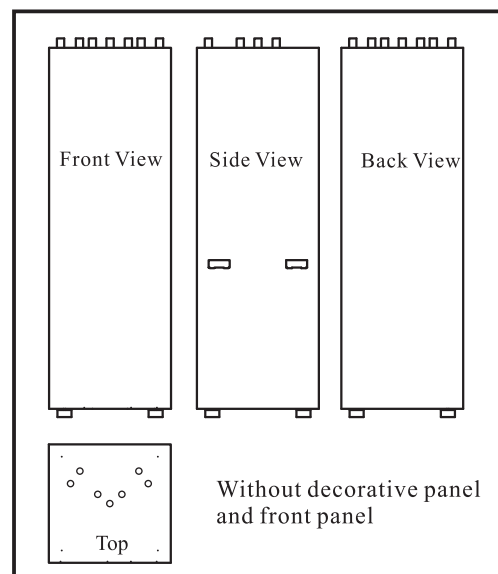
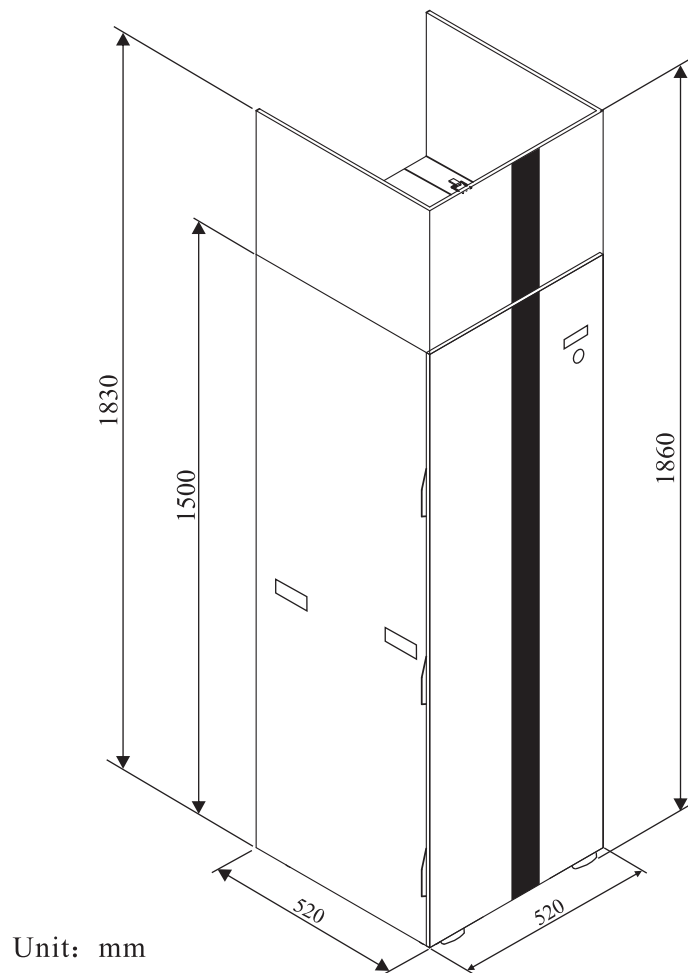
2. Introduction



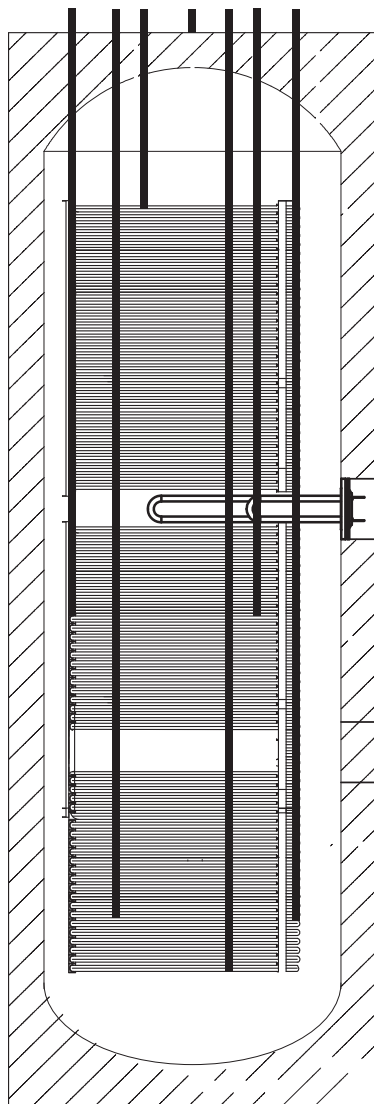
NO	Name	Size
1	Water Inlet from Heat Pump	G3/4" male
2	Water Inlet from Heating System	G3/4" male
3	Water Outlet to Heating System	G3/4" male
4	Sanitary Hot Water Outlet	G3/4" male
5	Water outlet to heat pump	G3/4" male
6	City water inlet	G3/4" male
7	Safety valve kit	G3/4" female
8	2kw electric heater	
9	Temperature sensor tube	
10	Temperature meter sensor tube	
11	R50 electric heat connector	G2" female
12	Drainage	G3/4" female

NO	Name
13	Decorative panel
14	Water tank
15	Front panel
16	Digital temperature meter

2. Introduction

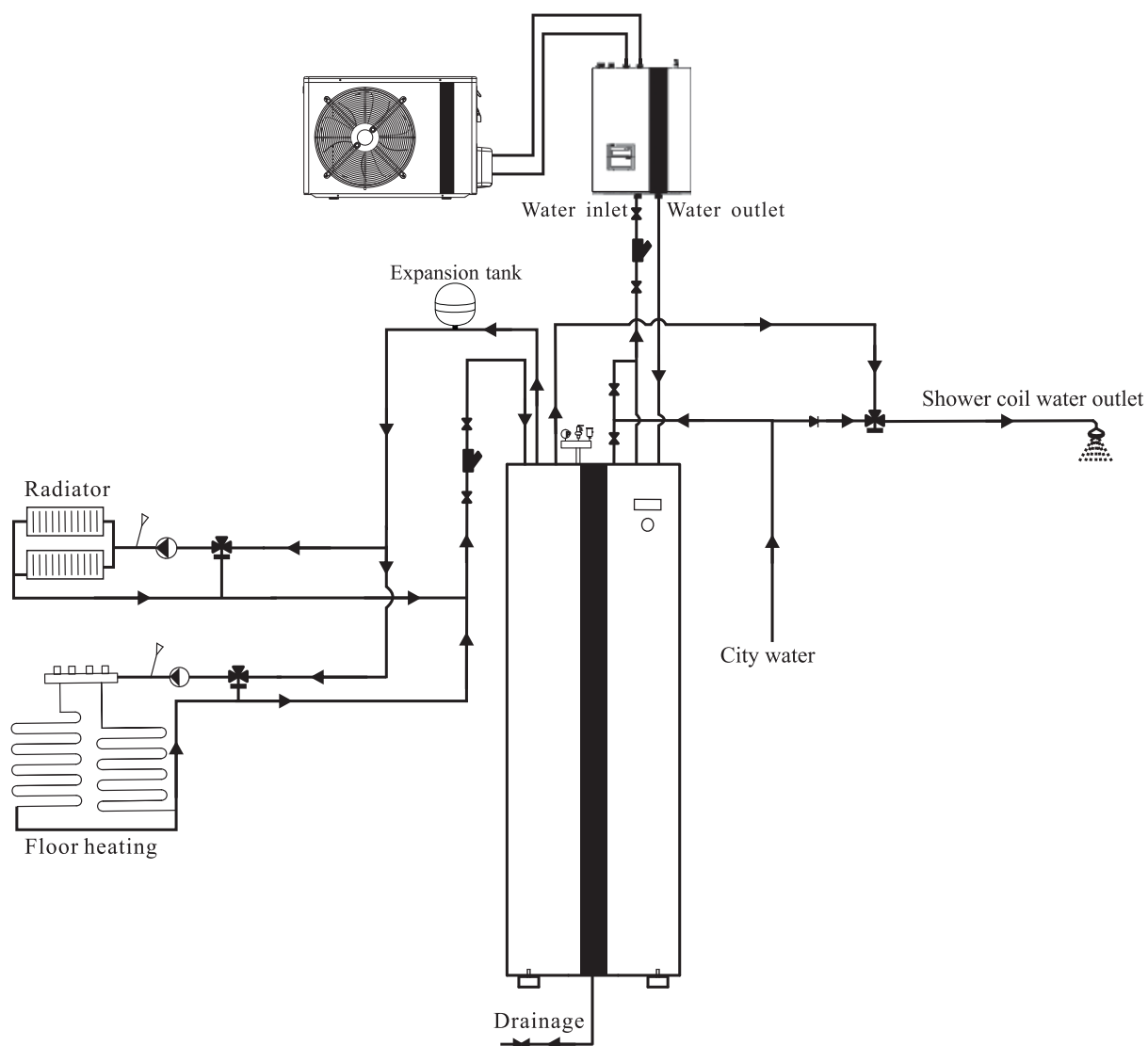


3. Specifications



Model no.		MWT-200D
Maximum pressure	bar	10
Pressure release valve	bar	2.5
Power supply		220V/1PH/50HZ/10A
Water volume	L	200
Inside shell material		304 stainless steel
Outside shell material		Pre-painted steel
Insulation material		Polyurethane injection foam
Insulation thickness	mm	50
Hot water coil material		304 stainless steel
Hot water coil diameter	mm	22
Hot water coil length	m	40
Thermostat setting range	°C	30~75
Max. water temperature	°C	90
Water connector size	Inch	G3/4"
Electric heater	KW	2
Electrical heater R50 socket	Piece	1
Net dimension (with decoration panel on top)	mm	520×520×1830
Estimated Net weight	kg	95

4. Application illustration



This drawing is an installation example, showing the water tanks connection points and possibilities. Other ways to install or adapt the multipurpose water tank to a heating system is possible. It is always the installers responsibility to ensure workability and that the central and local safety regulations are met.

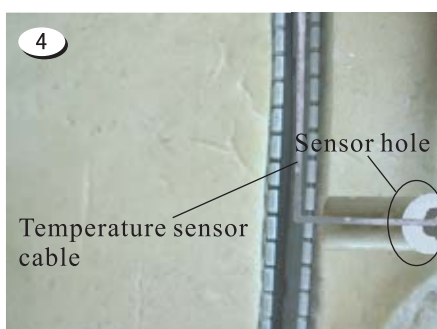
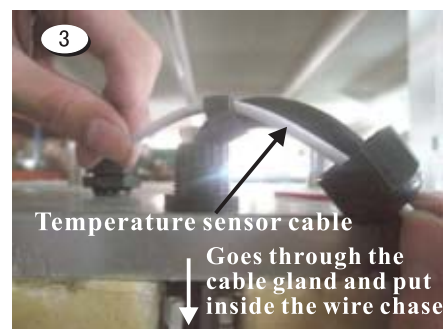
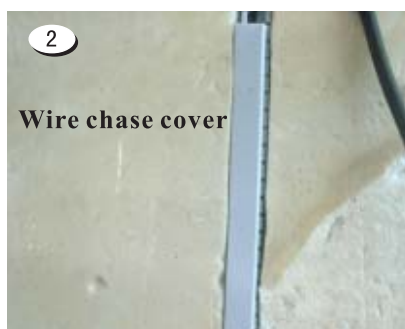
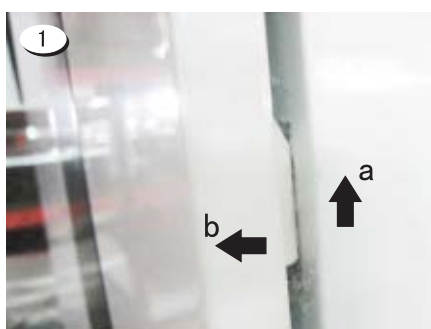
Name	Legend
Water mixing valve	
Ball valve	
Non-return valve	
Safety valve kit	
Water pump	
Filter	

5. Installation

【Wiring】

Installation of temperature sensor:

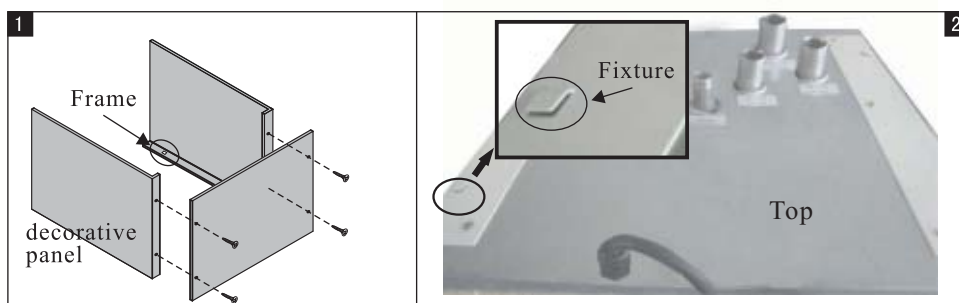
1. Pull up the front panel a little bit and take it out.
2. Take out the wire chase cover.
3. Insert the temperature sensor cable into wire chase through the cable gland on top of the tank.
4. Put temperature sensor into sensor hole in the tank. Please use coolant paste to ensure good temperature readings.



【Installation】

Place the tank in right position, and make sure it is level. Connect the piping in accordance to your heating system design, and in accordance to the local standards for heating systems. When all piping is done, slid the decorative panel into the fixture on top of the tank .

Decorative panel installation



5. Installation

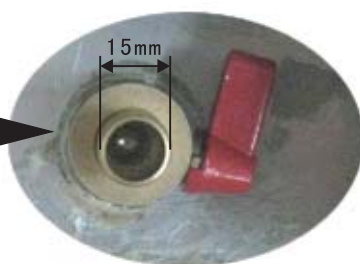
【Insulation】

All pipes running hot water and cold water should be well insulated. The insulation must be tied up tightly without gap (But please don't wrap up the check valve for future maintenance).



【Drainage】

When drainage is needed, take away the front panel, connect a drainage hose a to the drainage connector, and open the ball valve .

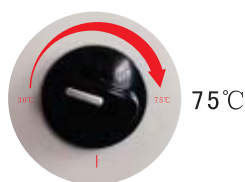


【Mechanical temperature controller】

The controller is used to turn ON/OFF the built in 2kW 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 turn off.



30°C is the lowest set Temp.



75°C is the highest set Temp.

5. Installation

【Automatic air purging valve】

The automatic air purging valve is used to automatically purge the air out of the water system both when filling the system and when running the system.

- (1) The installation, commissioning and maintenance of the valve should be performed by qualified personnel having a good knowledge of standards and local regulations, as well as experience of this type of equipment.
- (2) After install the valve into the right position, please loosen the small screw cap on the top of the valve in order to ensure the air can be purged out.
- (3) When the valve is blocked, do fasten the small screw cap on the top of the valve and then remove the valve from the safety valve kit to have the valve cleaned. After done, do install the valve back to the security kits and loosen the small screw cap again.

NB! We recommend to keep the cap closed after filling and air purging is done, and open it manually once every second month to check for air in the system.



【T/P Valve】

Water heaters are required to have a temperature and pressure relief valve. This relief valve provides protection in the event that the water heater thermostat or gas valve malfunctions, causing excess pressure/temperature. To minimize the risk of personal injury and/or property damage, a drain pipe should always be connected to the safety valve outlet, leading the water to nearest drain. Make sure the drainage pipe has a natural fall towards the drain.

The discharge piping serving a T/P valve should:

- ◆ Be constructed of an approved material such as CPVC, copper, polyethylene, galvanized steel, polybutylene, polypropylene, or stainless steel.
- ◆ Not be reduced in size from the outlet of the valve it serves (usually no smaller than 3/4").
- ◆ Be as short and as straight as possible so as to avoid undue stress on the valve.
- ◆ Be installed so as to drain by flow of gravity.
- ◆ Not be trapped.
- ◆ Discharge to the floor, to an indirect waste receptor, or to the outdoors.
- ◆ Terminate within 6 inches (152 mm) of the floor or waste receptor.
- ◆ Not discharge in a manner that could cause scalding.
- ◆ Not discharge in a manner that could cause structural or property damage.
- ◆ Discharge to a termination point that is readily observable by occupants because discharge indicates that something is wrong.
- ◆ Be piped independent of other equipment drains, water heater pans, or relief valve discharge piping to the point of discharge.
- ◆ Not have valves anywhere.



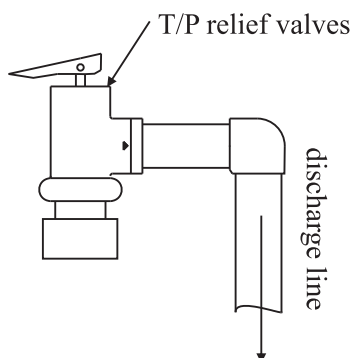
5. Installation

◆ Not have tee fittings.

Not have a threaded connection at the end of the pipe so as to avoid capping maintenance:

- (1) The installation, commissioning and maintenance of the T/P valve should be performed by qualified personnel having a good knowledge of standards and local regulations, as well as experience of this type of equipment.
- (2) The parts used to repair this equipment must be supplied by the manufacture or its authorized agency.
- (3) Check to make sure the relief valve exit stays unobstructed at least once every year. When checking the valve, pull the releasing valve to check whether there is water goes out. If not, it means the valve is broken. Please do turn off water heater and call the dealer.

【Installation of safety valve kit】



safety valve kit



Sealant tape



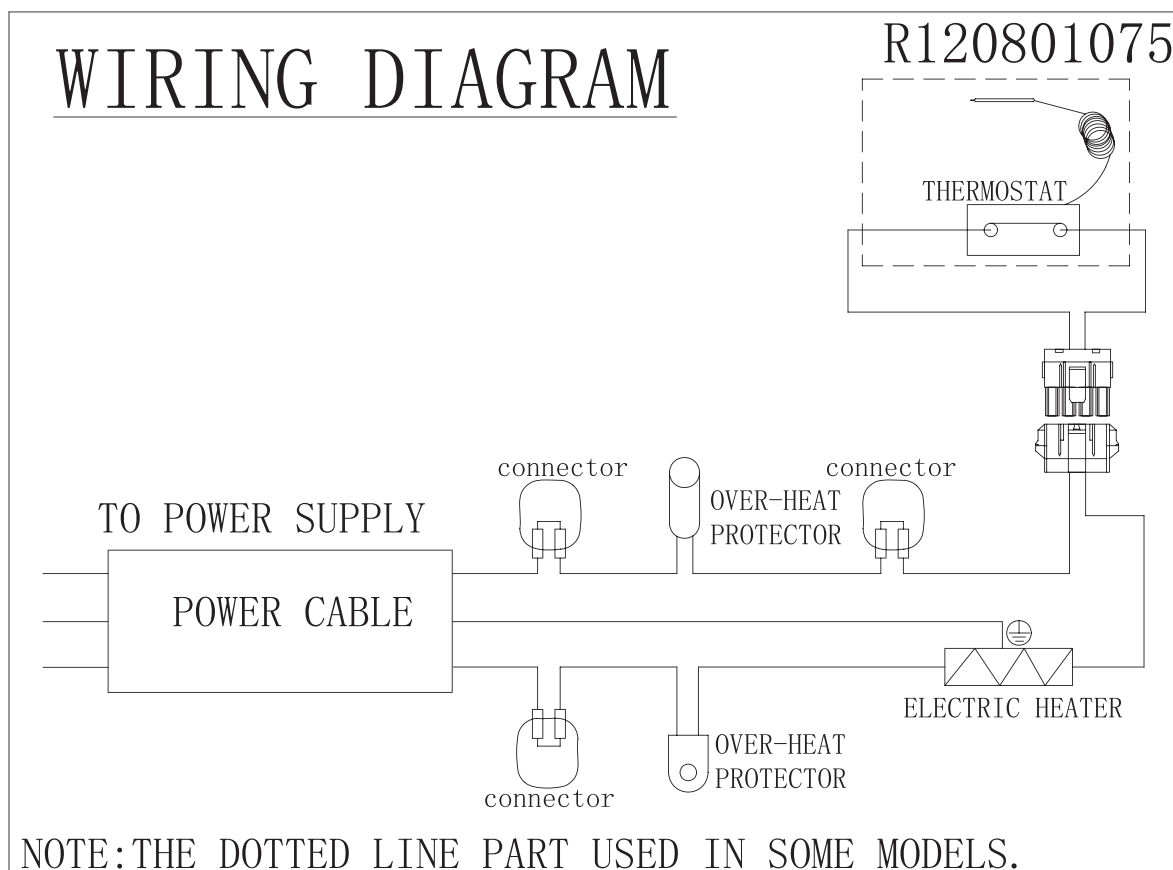
Wrap



Screw in

- (1) Please apply sealant tape to the threads clockwise at least four rounds.
- (2) Install the safety valve kit to the connector marked as “Safety valve kit”. Turn the Safety valve kit clockwise till it was fixed tightly.

6. Wiring Diagram



TAKE CARE!

The specifications are subject to change without prior notice.

For actual specifications of the unit, please refer to the specification stickers on the unit.

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