

#### 4.8. APPLICATION MODES (12 MODES)

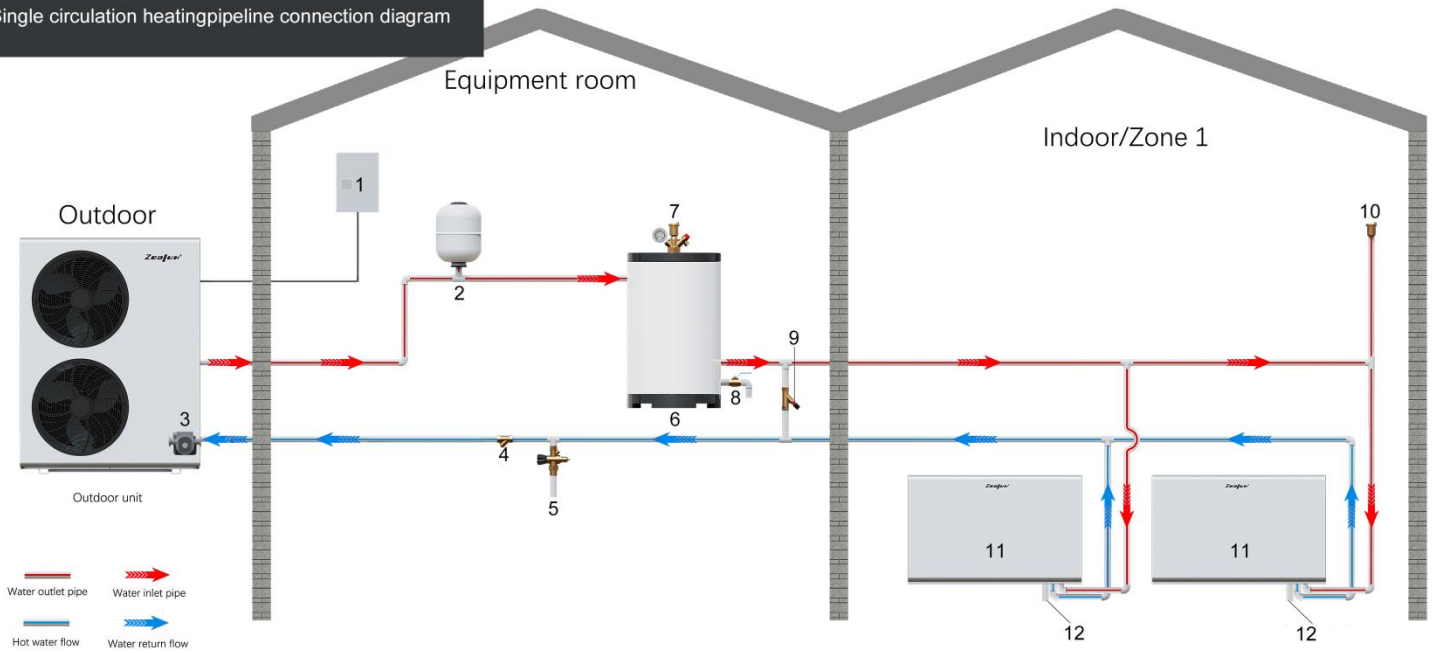
##### Application 1

P20=2, Space heating mode ☀

P20=4, Space cooling mode ❄

P20=6, Space heating / cooling mode ☀/❄

Single circulation heating pipeline connection diagram



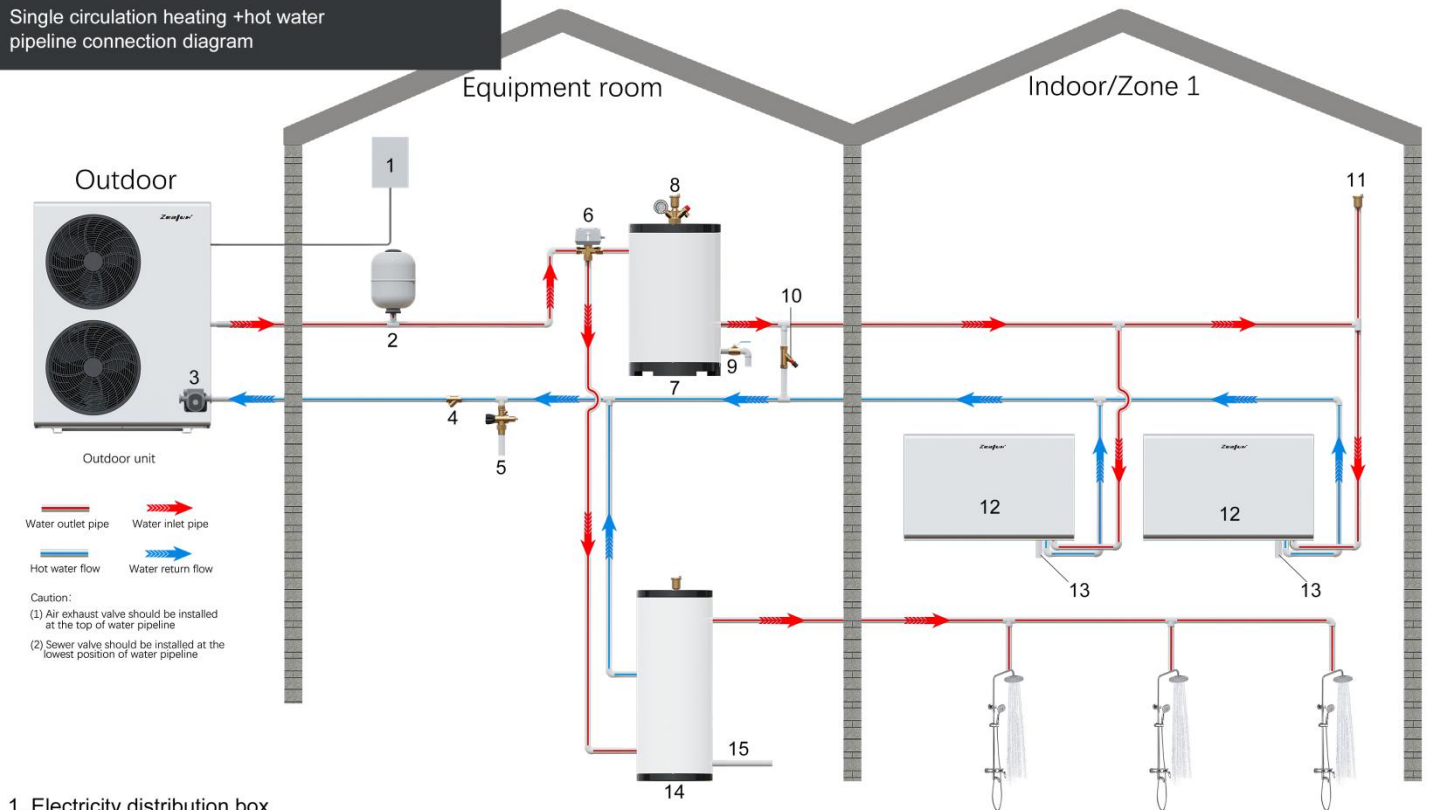
Caution:  
(1) Air exhaust valve should be installed at the top of water pipeline  
(2) Sewer valve should be installed at the lowest position of water pipeline

- |  |                                       |
|--|---------------------------------------|
| 1. Electricity distribution box  | 8. Drain outlet                       |
| 2. Expansion vessel  | 9. Differential pressure bypass valve |
| 3. Internal circulation water pump   | 10. Air exhaust valve                 |
| 4. Filter  | 11. Radiator and fan coil             |
| 5. Automatic water refill valve  | 12. Condensation hose                 |
| 6. Buffer tank   |                                       |
| 7. Security device (Air release valve + Pressure gauge + Pressure release valve set) |                                       |

## Application 2

P20=7, Domestic water tank heating / space heating / cooling mode ☁/☀/❄

Single circulation heating +hot water pipeline connection diagram



1. Electricity distribution box
2. Expansion vessel
3. Internal circulation water pump
4. Filter
5. Automatic water refill valve
6. 3 way electromagnetic valve
7. Buffer tank
8. Security device (Air release valve + Pressure gauge + Pressure release valve set)

9. Drain outlet
10. Differential pressure bypass valve
11. Air exhaust valve
12. Radiator and fan coil

13. Condensation hose
14. Hot water cylinder
15. City water

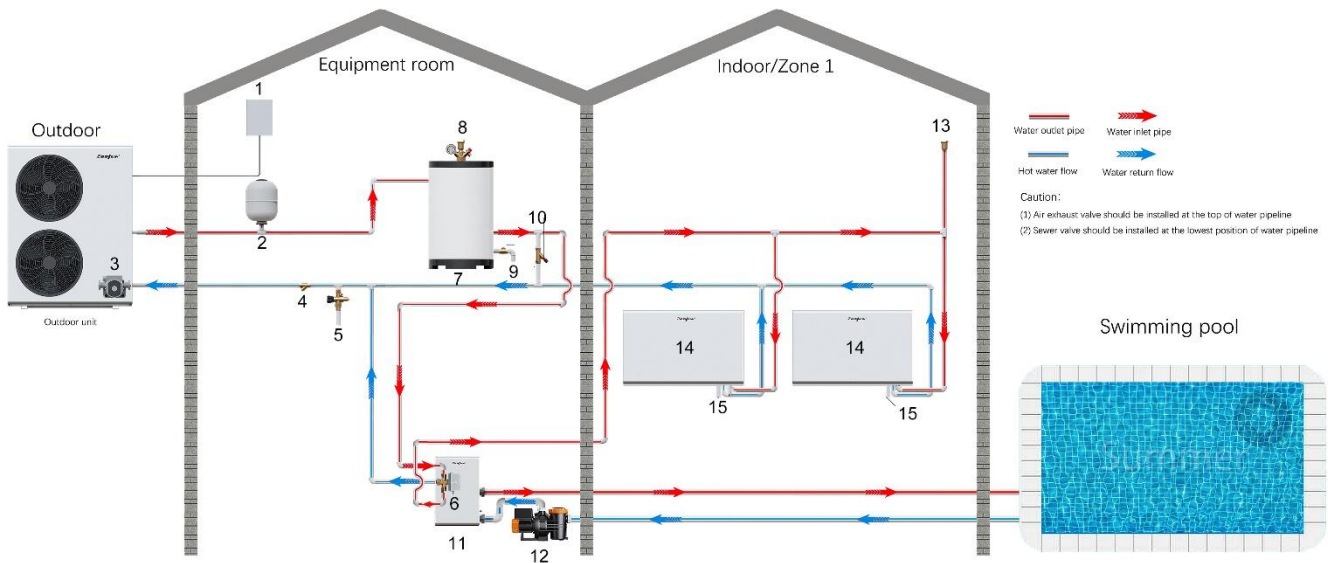
### Application 3

P20=2, Space heating mode ☀

P20=4, Space cooling mode ❄

P20=6, Space heating / cooling mode ☀/❄

Single circulation heating+  
pool water pipeline connection diagram



- |  |  |                           |
|--|--|---------------------------|
| 1. Electricity distribution box  | 9. Drain outlet                        | 13. Air exhaust valve     |
| 2. Expansion vessel  | 10. Differential pressure bypass valve | 14. Radiator and fan coil |
| 3. Internal circulation water pump   | 11. Heat exchanger for pool            | 15. Condensation hose     |
| 4. Filter  | 12. Inverter water pump                |                           |
| 5. Automatic water refill valve  |  |                           |
| 6. 3 way electromagnetic valve   |  |                           |
| 7. Buffer tank   |  |                           |
| 8. Security device (Air release valve + Pressure gauge + Pressure release valve set) |  |                           |

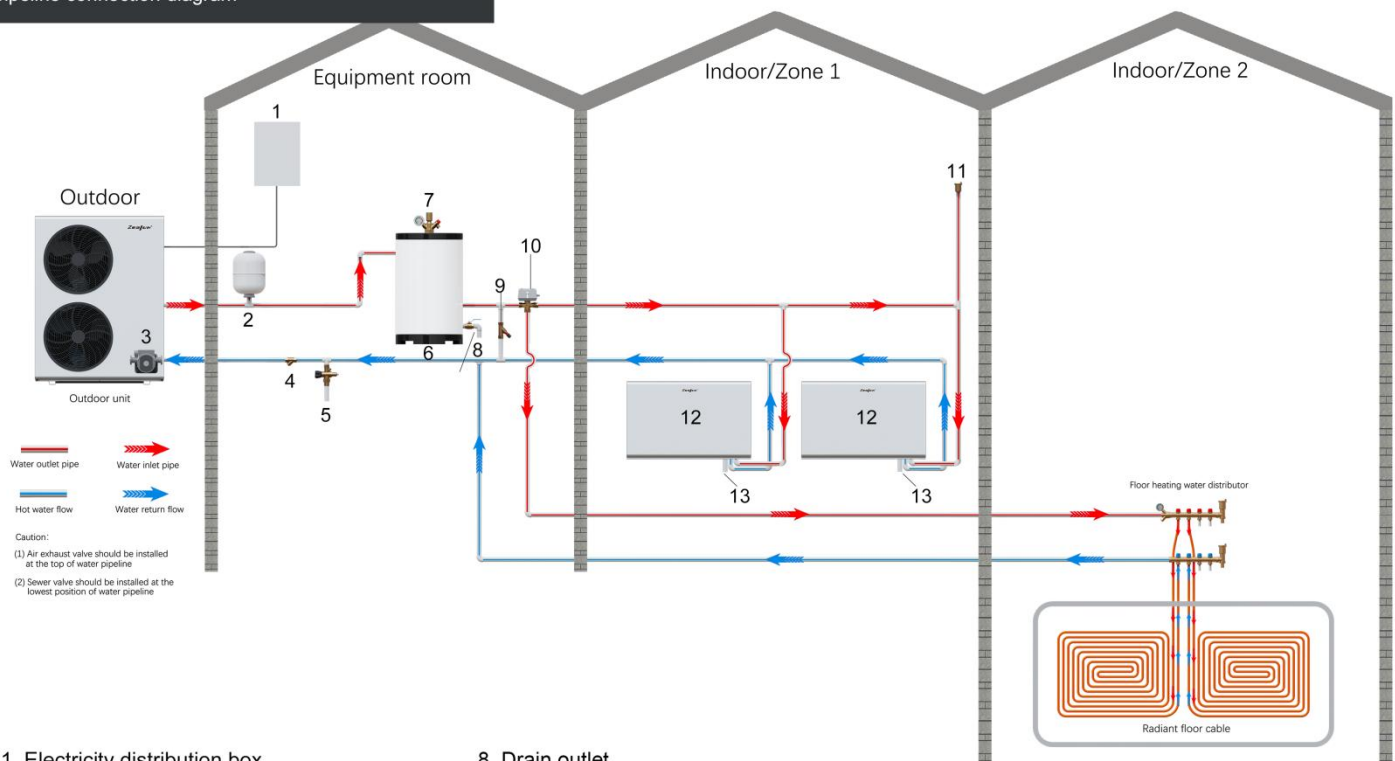
## Application 4

P20=2, Space heating mode ☀

P20=4, Space cooling mode ❄

P20=6, Space heating / cooling mode ☀/❄

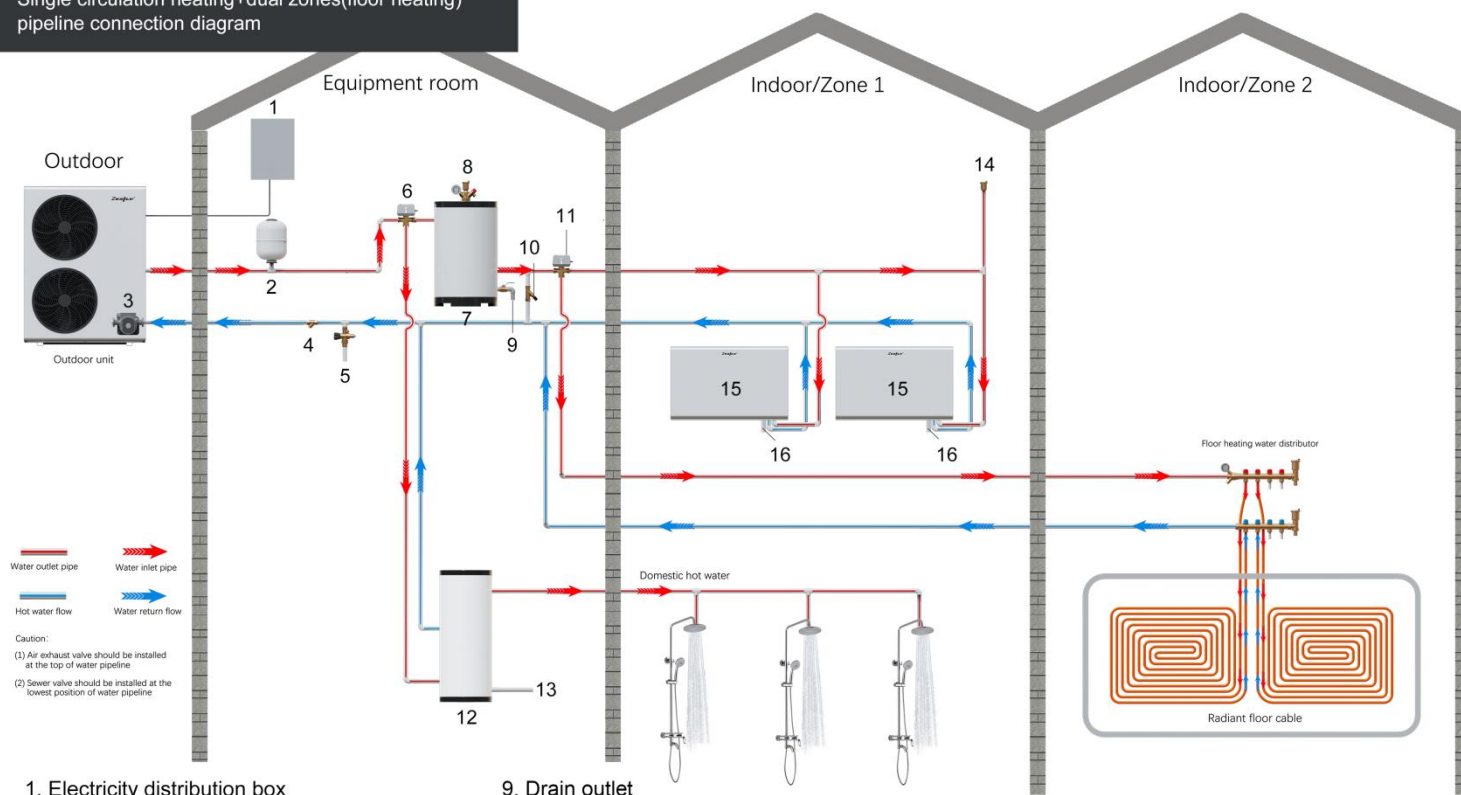
Single circulation heating+dual zones(floor heating)  
pipeline connection diagram



## Application 5

P20=7, Domestic water tank heating / space heating / cooling mode ☁/☀/❄

Single circulation heating+dual zones(floor heating)  
pipeline connection diagram



1. Electricity distribution box
2. Expansion vessel
3. Internal circulation water pump
4. Filter
5. Automatic water refill valve
6. 3 way electromagnetic valve
7. Buffer tank
8. Security device (Air release valve + Pressure gauge + Pressure release valve set)

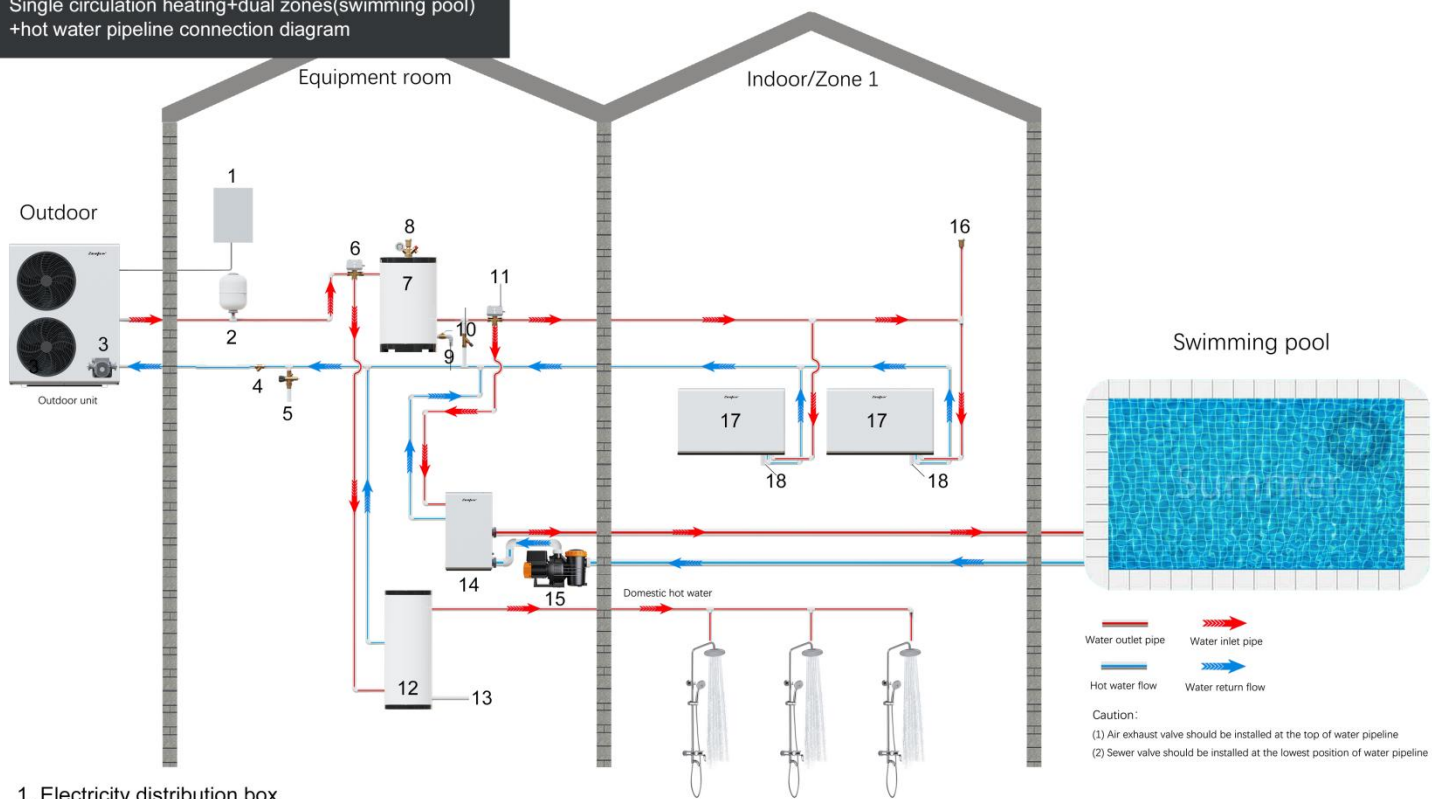
9. Drain outlet
10. Differential pressure bypass valve
11. 3 way electromagnetic valve
12. Hot water cylinder
13. City water
14. Air exhaust valve

15. Radiator and fan coil
16. Condensation hose

## Application 6

P20=7, Domestic water tank heating / space heating / cooling mode 

Single circulation heating+dual zones(swimming pool)  
+hot water pipeline connection diagram



1. Electricity distribution box
2. Expansion vessel
3. Internal circulation water pump
4. Filter
5. Automatic water refill valve
6. 3 way electromagnetic valve
7. Buffer tank
8. Security device (Air release valve + Pressure gauge + Pressure release valve set)

9. Drain outlet
10. Differential pressure bypass valve
11. 3 way electromagnetic valve
12. Hot water cylinder
13. City water

14. Heat exchanger for pool
15. Inverter water pump
16. Air exhaust valve
17. Radiator and fan coil
18. Condensation hose



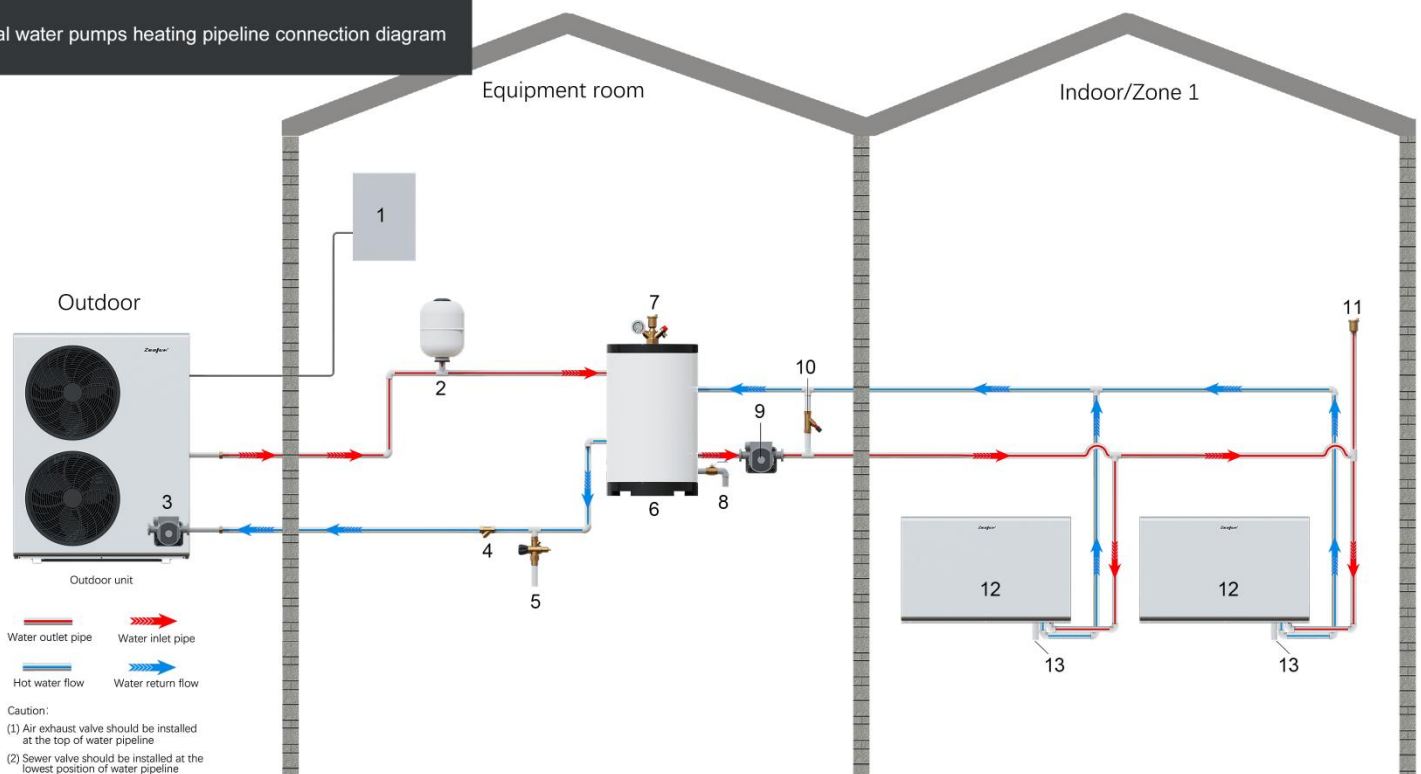
## Application 7

P20=2, Space heating mode ☀

P20=4, Space cooling mode ❄


P20=6, Space heating / cooling mode ☀/❄

Dual water pumps heating pipeline connection diagram

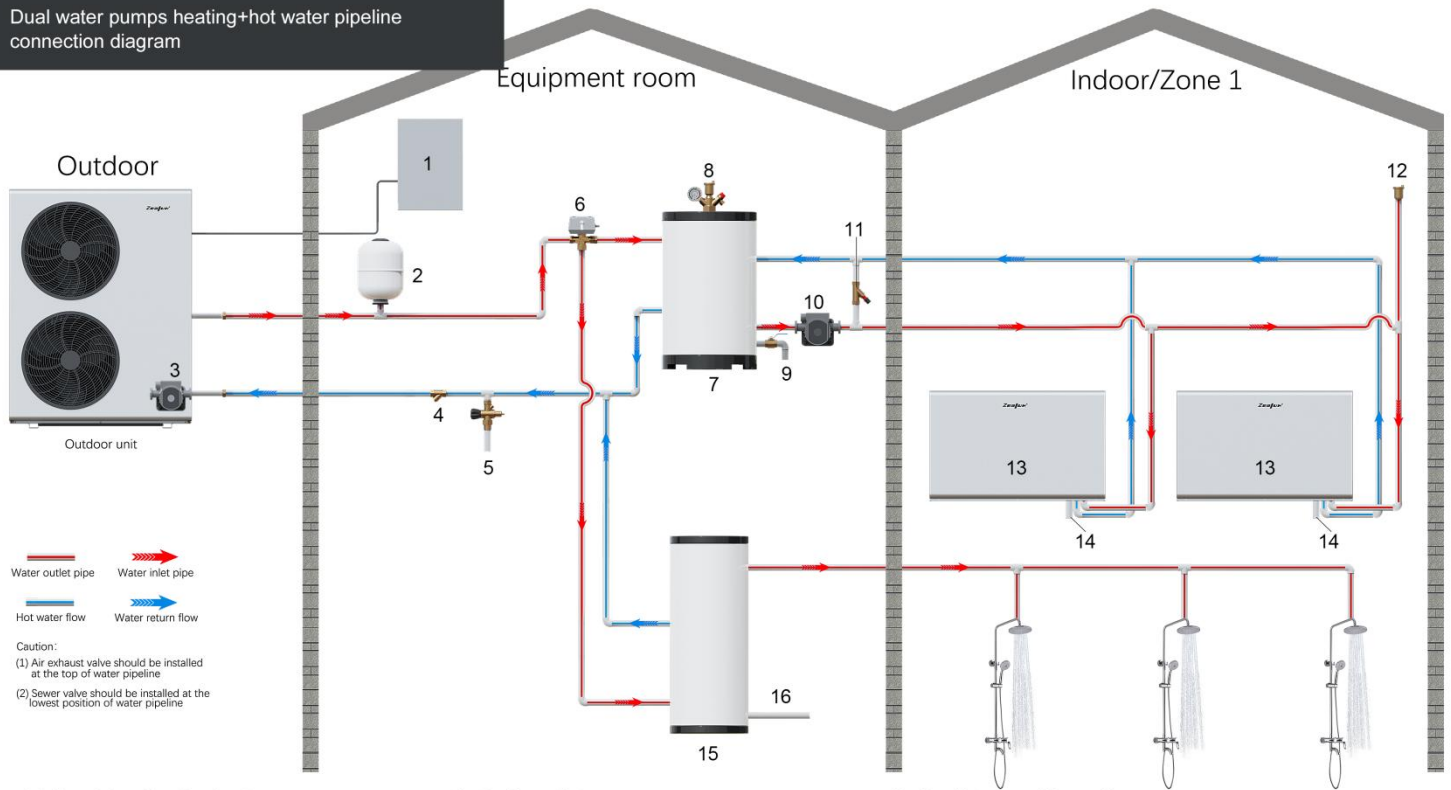


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|--|--|
| 1. Electricity distribution box  | 8. Drain outlet                        |
| 2. Expansion vessel  | 9. Circulation water pump              |
| 3. Internal circulation water pump   | 10. Differential pressure bypass valve |
| 4. Filter  | 11. Air exhaust valve                  |
| 5. Automatic water refill valve  | 12. Radiator and fan coil              |
| 6. Buffer tank   | 13. Condensation hose                  |
| 7. Security device (Air release valve + Pressure gauge + Pressure release valve set) |  |

## Application 8

P20=7, Domestic water tank heating / space heating / cooling mode 

Dual water pumps heating+hot water pipeline connection diagram



- |  |  |
|--|--|
| 1. Electricity distribution box  | 9. Drain outlet                        |
| 2. Expansion vessel  | 10. Circulation water pump             |
| 3. Internal circulation water pump   | 11. Differential pressure bypass valve |
| 4. Filter  | 12. Air exhaust valve                  |
| 5. Automatic water refill valve  |  |
| 6. 3 way electromagnetic valve   |  |
| 7. Buffer tank   |  |
| 8. Security device (Air release valve + Pressure gauge + Pressure release valve set) |  |

- |                           |
|---------------------------|
| 13. Radiator and fan coil |
| 14. Condensation hose     |
| 15. Hot water cylinder    |
| 16. City water            |



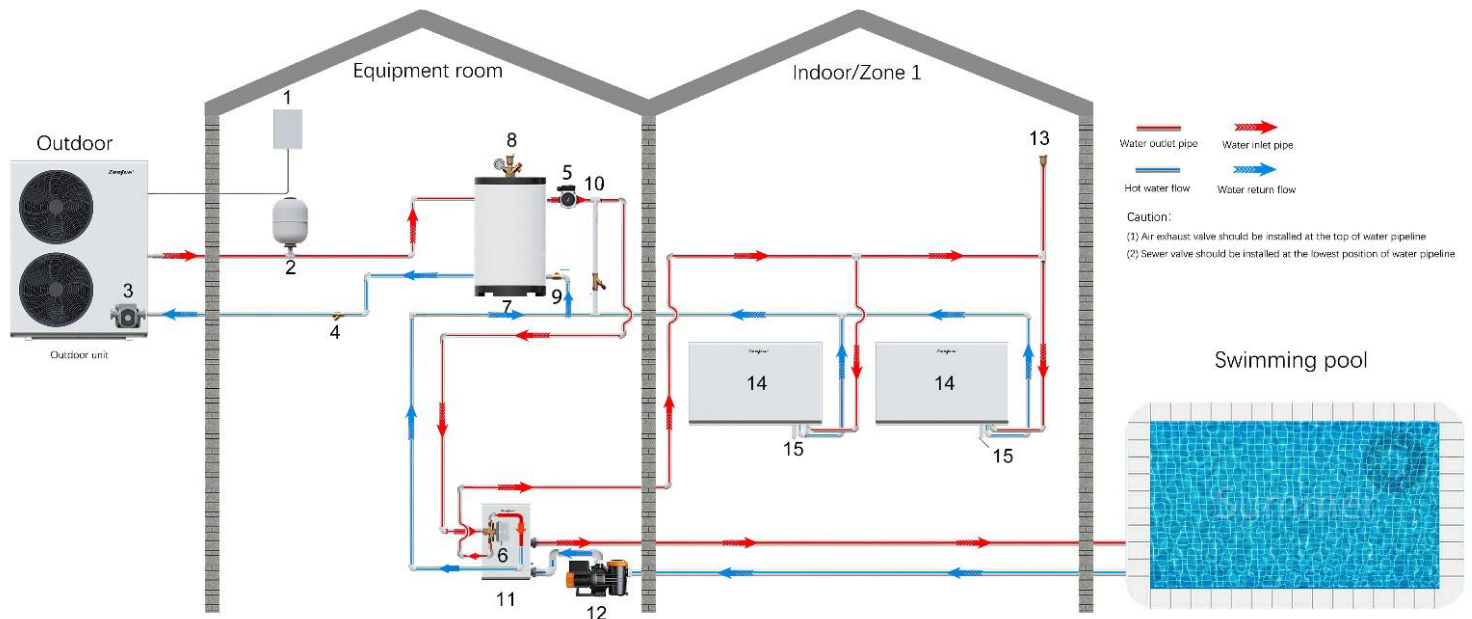
## Application 9

P20=2, Space heating mode ☀

P20=4, Space cooling mode ❄

P20=6, Space heating / cooling mode ☀/❄

Dual circulation heating+  
pool water pipeline connection diagram



- |  |  |                           |
|--|--|---------------------------|
| 1. Electricity distribution box  | 9. Drain outlet                        | 13. Air exhaust valve     |
| 2. Expansion vessel  | 10. Differential pressure bypass valve | 14. Radiator and fan coil |
| 3. Internal circulation water pump   | 11. Heat exchanger for pool            | 15. Condensation hose     |
| 4. Filter  | 12. Inverter water pump                |                           |
| 5. Water pump  |  |                           |
| 6. 3 way electromagnetic valve   |  |                           |
| 7. Buffer tank   |  |                           |
| 8. Security device (Air release valve + Pressure gauge + Pressure release valve set) |  |                           |

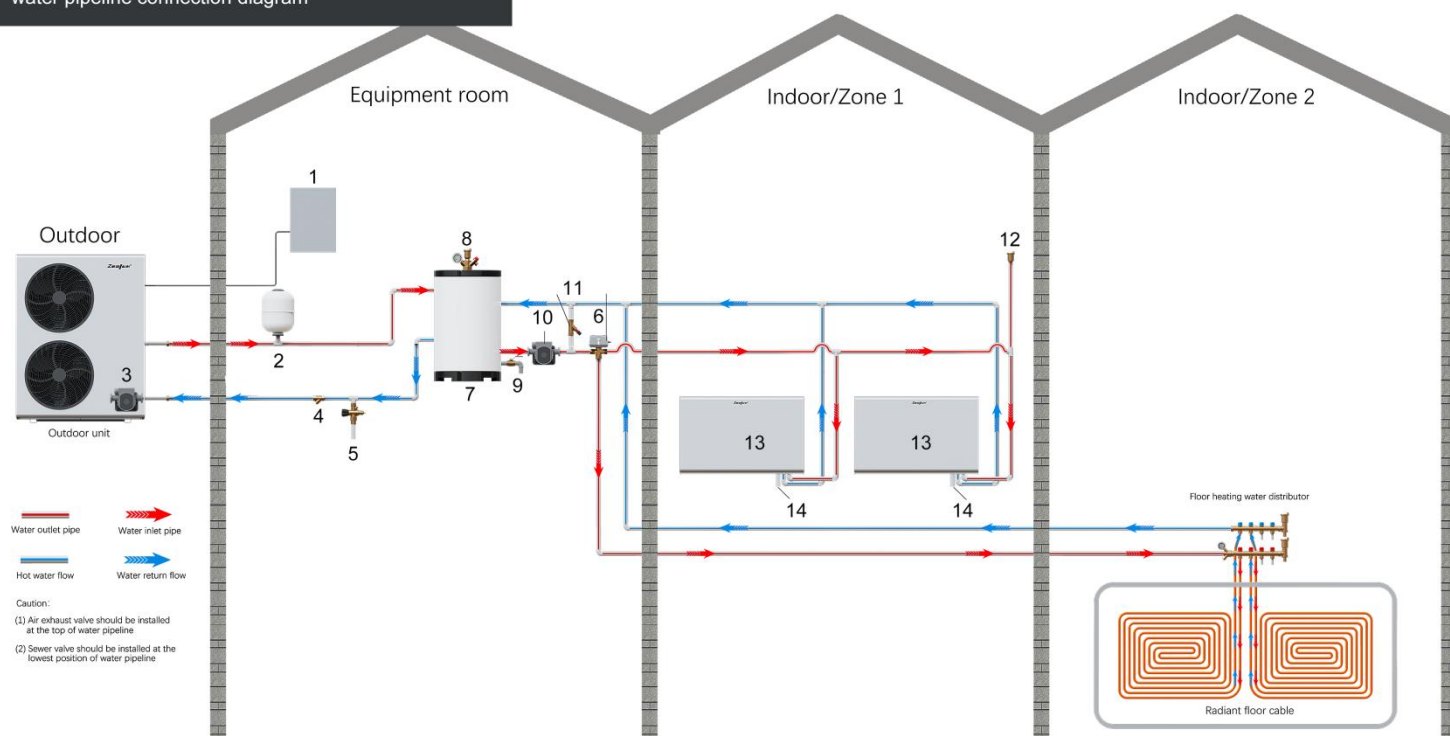
## Application 10

P20=2, Space heating mode ☀

P20=4, Space cooling mode ❄

P20=6, Space heating / cooling mode ☀/❄

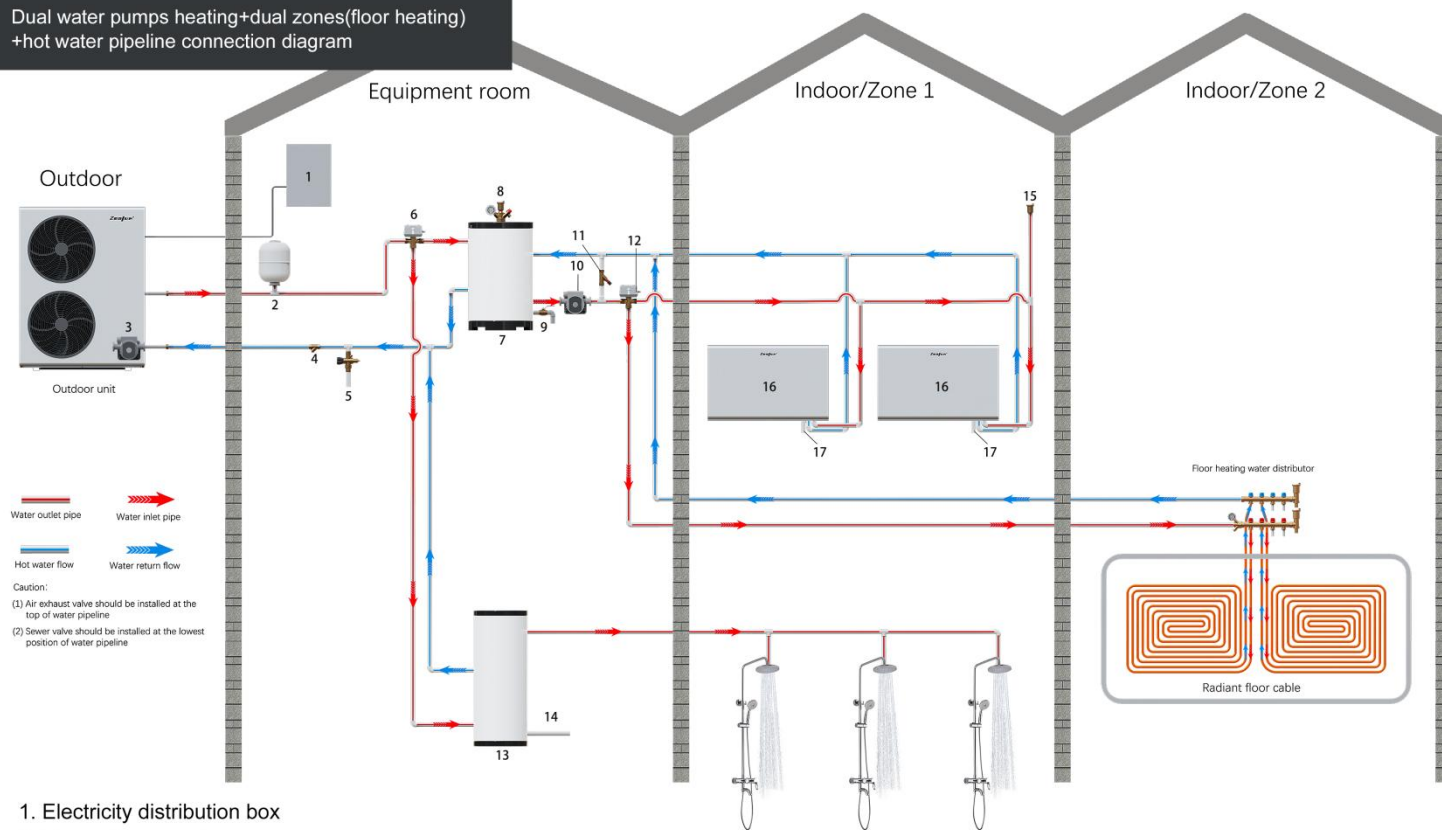
Dual water pumps heating+dual zones(floor heating)  
water pipeline connection diagram



## Application 11

P20=7, Domestic water tank heating / space heating / cooling mode 

Dual water pumps heating+dual zones(floor heating)  
+hot water pipeline connection diagram




- 1. Electricity distribution box
- 2. Expansion vessel
- 3. Internal circulation water pump
- 4. Filter
- 5. Automatic water refill valve
- 6. 3 way electromagnetic valve
- 7. Buffer tank

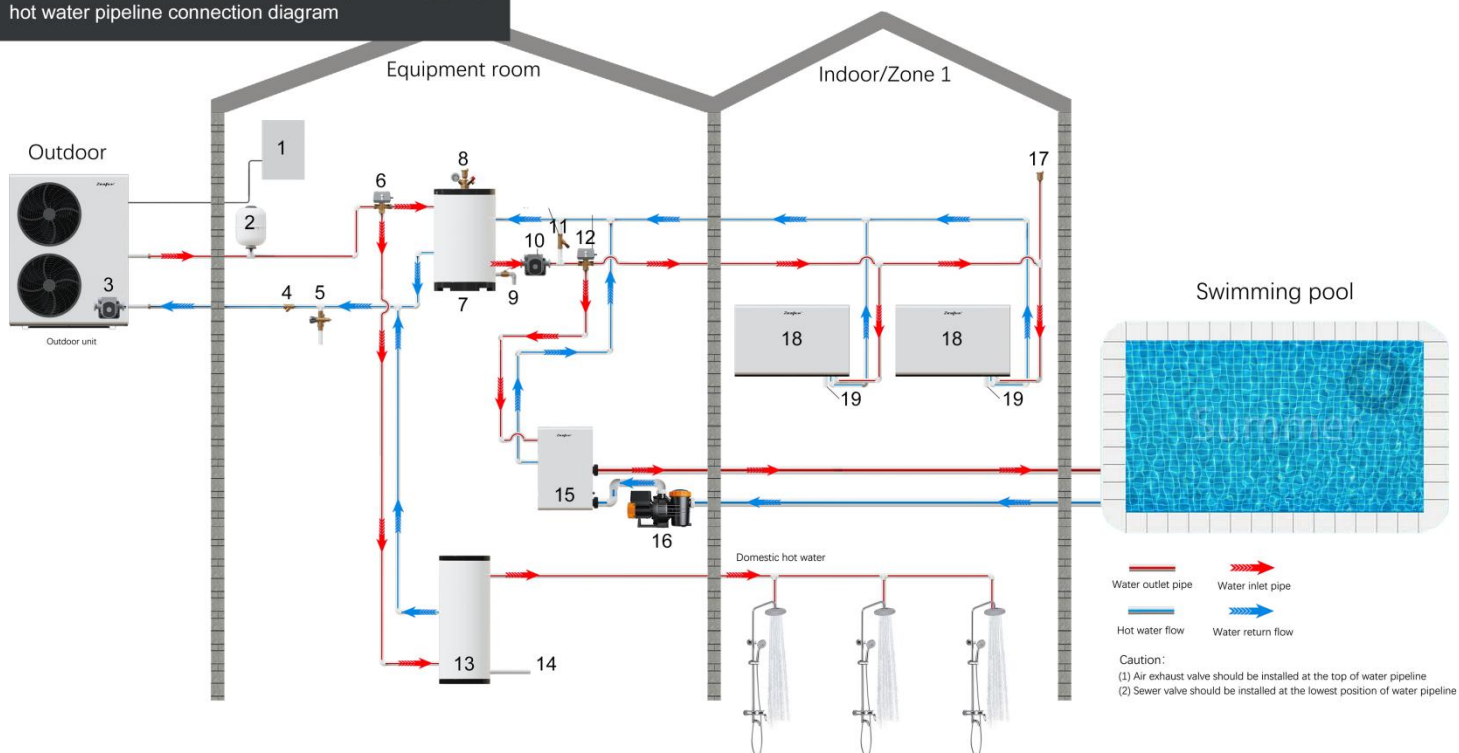
- 9. Drain outlet
- 10. Circulation water pump
- 11. Differential pressure bypass valve
- 12. 3 way electromagnetic valve
- 13. Hot water cylinder

- 14. City water
- 15. Air exhaust valve
- 16. Radiator and fan coil
- 17. Condensation hose

## Application 12

P20=7, Domestic water tank heating / space heating / cooling mode 

Dual water pumps heating+dual zones(swimming pool)  
hot water pipeline connection diagram



1. Electricity distribution box
2. Expansion vessel
3. Internal circulation water pump
4. Filter
5. Automatic water refill valve
6. 3 way electromagnetic valve
7. Buffer tank
8. Security device (Air release valve + Pressure gauge + Pressure release valve set)

9. Drain outlet
10. Circulation water pump
11. Differential pressure bypass valve
12. 3 way electromagnetic valve
13. Hot water cylinder
14. City water

15. Heat exchanger for pool
16. Inverter water pump
17. Air exhaust valve
18. Radiator and fan coil
19. Condensation hose