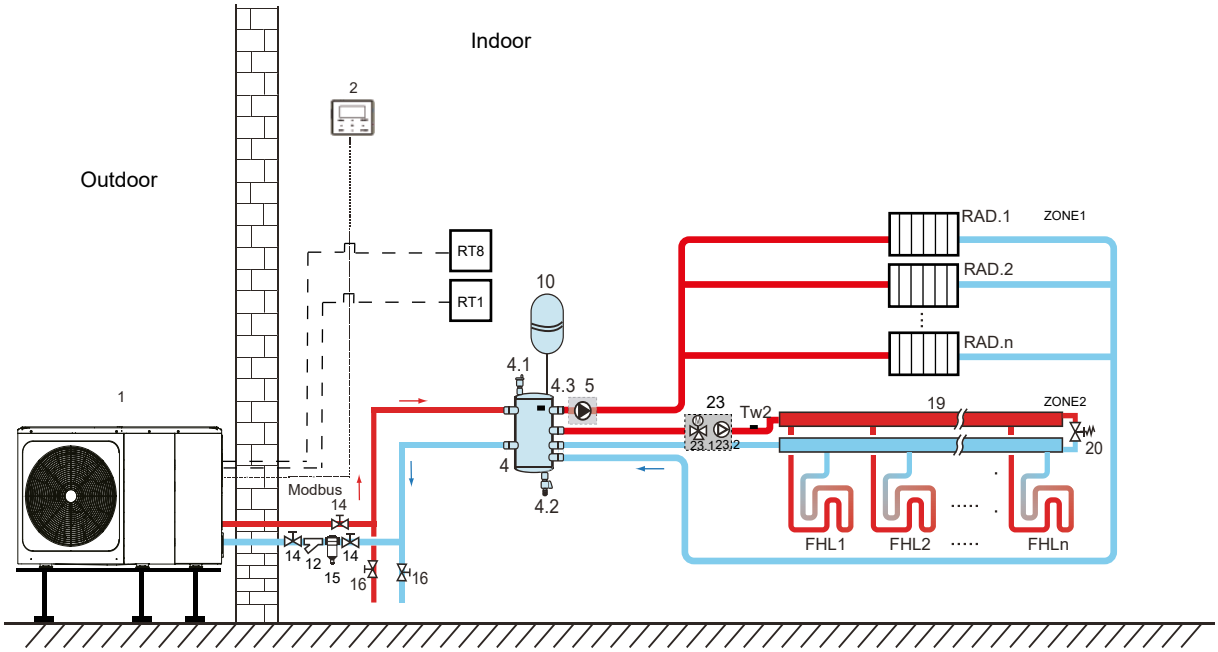
8.2.3 Double zone control



Code	Assembly unit	Code	Assembly unit
1	Main unit	19	Collector/distributor (Field supply)
2	User interface	20	Bypass valve (Field supply)
4	Balance or buffer tank (Field supply)	23	Mixing station (Field supply)
4.1	Automatic air purge valve	23.1	SV3: Mixing valve (Field supply)
4.2	Drainage valve	23.2	P_c: zone 2 circulation pump (Field supply)
5	P_o: zone 1 circulation pump (Field supply)	RT 1	Low voltage room thermostat (Field supply)
10	Expansion vessel (Field supply)	RT8	High voltage room thermostat (Field supply)
12	Filter (Accessory)	Tw2	Zone 2 water flow temperature sensor (Optional)
14	Shut-off valve (Field supply)	FHL 1…n	Floor heating loop (Field supply)
15	Magnetic filter (Field supply)	RAD. 1...n	Radiator (Field supply)
16	Drainage valve (Field supply)		

- **Space heating**
  Zone1 can operate in cooling mode or heating mode, while zone2 can only operate in heating mode; While installation, for all thermostats in zone1, only “H、L” terminals need to be connected. For all thermostats in zone2, only “C、L” terminals need to be connected.
  1) The ON/OFF of zone1 is controlled by the room thermostats in zone1. When any “HL” of all thermostats in zone1 closes, zone1 turns ON. When all “HL” turn OFF, zone1 turns OFF; Target temperature and operation mode are set on the user interface.
  2) In heating mode, the ON/OFF of zone2 is controlled by the room thermostats in zone2. When any ”CL” of all thermostats in zone2 closes, zone2 turns ON. When all “CL” open, zone2 turns OFF. Target temperature is set on the user interface; Zone 2 can only operate in heating mode. When cooling mode is set on the user interface, zone2 keeps in OFF status.

- **The circulation pump operation**
  When zone 1 is ON, P_o starts running; When zone 1 is OFF, P_o stops running;
  When zone 2 is ON, SV3 switches between ON and OFF according to the set TW2 , P_C keeps ON; When zone 2 is OFF, SV3 is OFF, P_c stops running.
  The floor heating loops require a lower water temperature in heating mode compared to radiators or fan coil unit.To achieve these two set points, a mixing station is used to adapt the water temperature according to requirements of the floor heating loops. The radiators are directly connected to the unit water circuit and the floor heating loops are after the mixing station. The mixing station is controlled by the unit.

⚠ CAUTION

1) Make sure to connect the SV2/SV3 terminals in the wired controller correctly,please refer to 9.7.6/2) for 3-way valve SV1,SV2,SV3.

2) Thermostat wires to the correct terminals and to configure the ROOM THERMOSTAT in the wired controller correctly . Wiring of the room thermostat should follow method A/B/C as described in 9.7.6 "Connection for other components /5) For room thermostat".