20	Bypass valve (Field supply)	25	Water manometer (Field supply)	ZONE1	The space operate cooling or heating mode
23	Mixing station (Field supply)	TW2	Zone2 water flow temperature sensor (Optional)	ZONE2	The space only operate heating mode
23.1	SV3:Mixing valve (Field supply)	FCU1…n	Fan coil unit(Field supply)	AHS	Auxiliary heat source (Field supply)
23.2	P_C:Zone2 circulation pump (Field supply)	FHL1…n	Floor heating loop (Field supply)		
24	Automatic air purge valve (Field supply)	K	Contactor (Field supply)		

- **Domestic water heating**

  Only master unit (1.1) can operate in DHW mode. T5S is set on the user interface (2). In DHW mode, SV1(3) keeps ON. When master unit operated in DHW mode, slave units can operate in space cooling/heating mode.

- **Slave heating**

  All slave units can operate in space heating mode. The operation mode and setting temperature are set on the user interface (2). Due to changes of the outdoor temperature and the required load indoors, multiple outdoor units may operate at different times.
  In cooling mode, SV3(23.1)and P_C (23.2)keep OFF, P_O (5) keeps ON;
  In heating mode, when both ZONE 1 and ZONE 2 work, P_C (23.2)and P_O (5) keep ON, SV3 (23.1) switches between ON and OFF according to the set TW2;
  In heating mode, when only ZONE 1 works, P_O (5) keep ON, SV3 (23.1) and P_C (23.2) keep OFF.
  In heating mode, when only ZONE 2 works, P_O (5) keep OFF, P_C (23.2) keeps ON, SV3 (23.1) switches between ON and OFF according to the set TW2;

- **AHS(Auxiliary heat source) Control**

  AHS should be set via the dip switches on main board (refer to 10.1); AHS is only controlled by master unit. When master unit operates in DHW mode, AHS can only be used for producing domestic hot water; when master unit operates in heating mode, AHS can only be used for heating mode.
  1)When AHS is set valid only in heating mode, it will be turned on in following conditions:
  a.Turn on BACKUPHEATER function on user interface;
  b.Master unit operates in heating mode. When inlet water temperature is too low, or while ambient temperature is too low, the target leaving water temperature is too high, AHS will be turned on automatically.
  2)When AHS is set valid in heating mode and DHW mode, it will be turned on in following conditions:
  When master unit operates in heating mode, conditions of turning on AHS is same as 1); When master unit operates in DHW mode, if T5 is too low or when ambient temperature is too low, target T5 temperature is too high, AHS will be turned on automatically.
  3)When AHS is valid, and the operation of AHS is controlled by M1M2. When M1M2 closes, AHS is turned on. When master unit operates in DHW mode, AHS can't be turned on by closing M1M2.

- **TBH (Tank booster heater) Control**

  TBH should be set via the dip switches on main board (refer to 10.1). TBH is only controlled by master unit. Please refer to 8.1 for specific TBH control.

- **Solar energy Control**

  Solar energy is only controlled by master unit. Please refer to 8.1 for specific solar energy Control.