

Space 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) keeps 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) keep ON, SV3(23.1) switches between ON and OFF according to the set Tw2.

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.

AHS control

AHS should be set via the dip switches on main board; 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 for 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 ambient temperature is too low, the target leaving water temperature is too high, AHS will be turned on automatically.

2) When the AHS is set valid for 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 heating mode, if T5 or 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 not be turned on by closing M1M2.

TBH control

TBH should be set via the dip switches on main board. TBH is only controlled by master unit.

1) When the TBH is set to be valid, TBH can be turned on via TANKHEATER function on the user interface; In DHW mode, TBH will be turned on automatically when the initial domestic water temperature T5 is too low or the target domestic water temperature is too high at low ambient temperature.

2) When the TBH is set to be valid, M1M2 can be set to be valid on the user interface. TBH will be turned on if MIM2 dry contact closes.

Solar energy control

Solar energy is only controlled by master.

Hydraulic module recognizes solar energy signal by judging Tsolar or receiving SL1SL2 signal from user interface. The recognition method can be set via SOLAR INPUT on the user interface.

1) When Tsolar is set to be valid, Solar energy turns ON when Tsolar is high enough, P_s starts running; Solar energy turns OFF when Tsolar is low, P_s stops running.

2) When SL1SL2 control is set to be valid, Solar energy turns ON after receiving Solar kit signal from user interface, P_s starts running; Without solar kit signal. Solar energy turns OFF, P_s stops running.