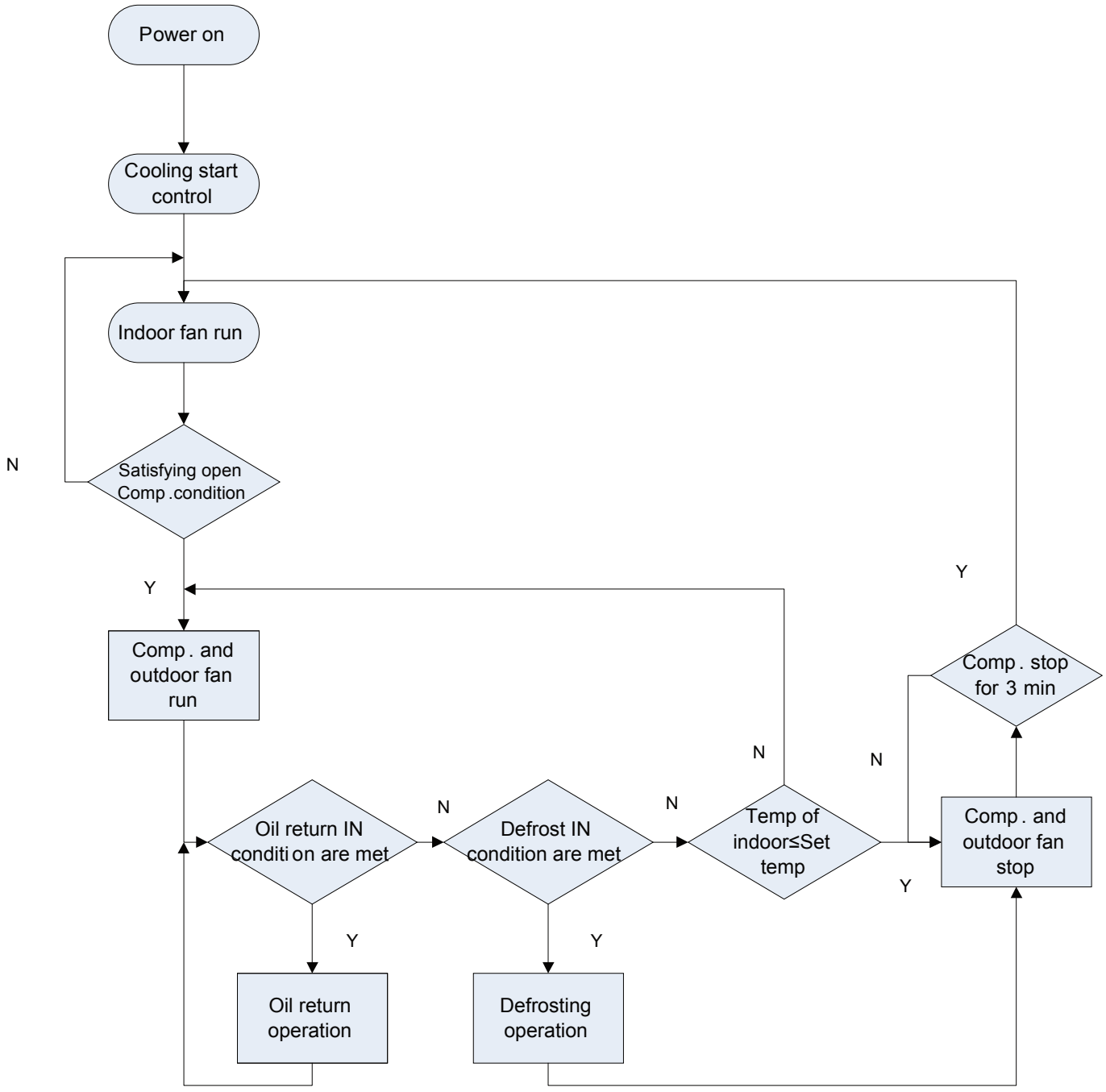
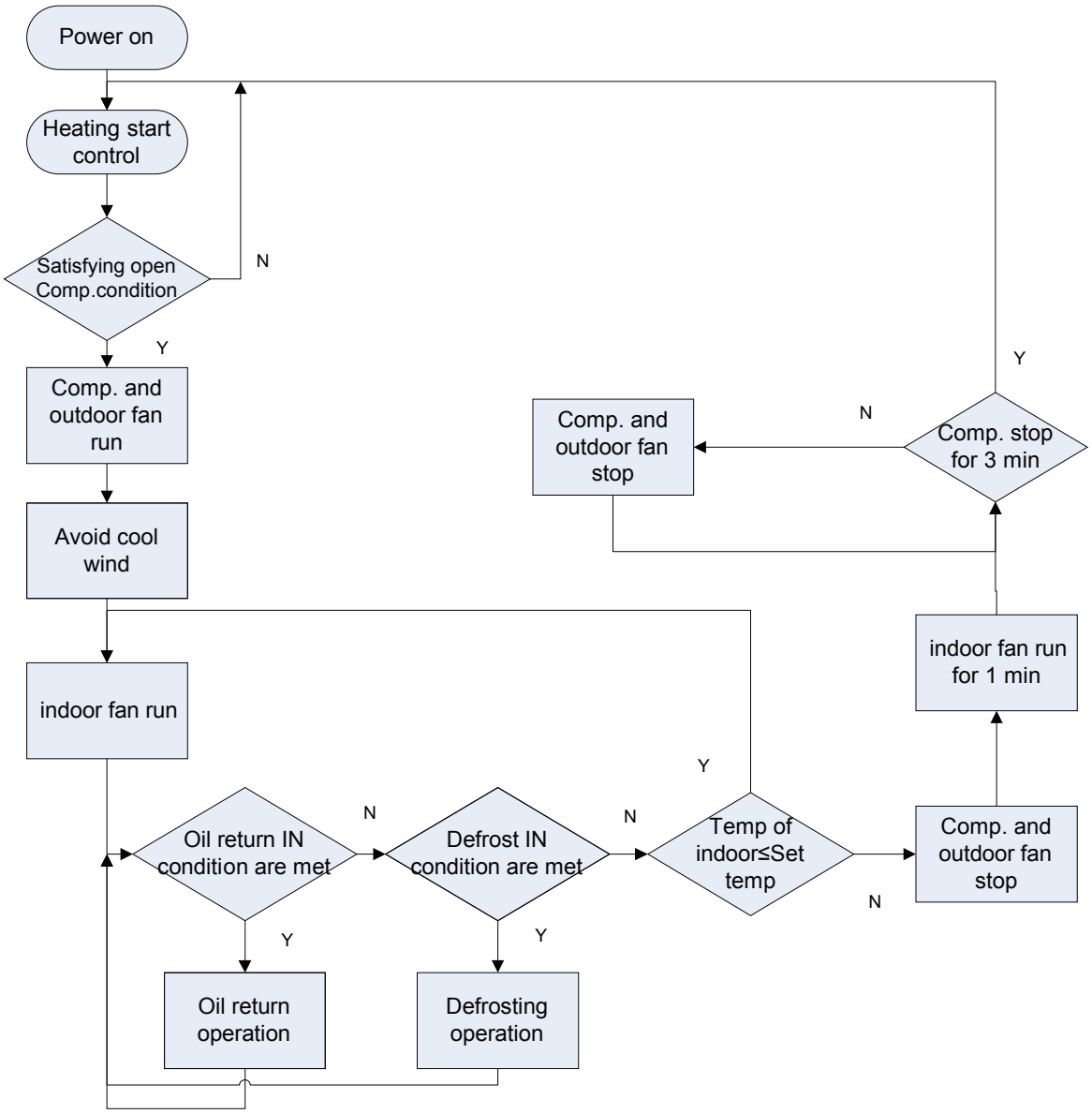
2. Control

2.1 Operation Mode

2.1.1 Cooling Mode



2.1.2 Heating Mode



2.2 Control Mode

2.2.1 Based Control

2.2.1.1 Compressor Control

When cooling or heating mode is turned on, indoor fan will run for a while before the compressor starts. Under different modes, the compressor can only be stopped after running for some time (special cases excluded). This is to protect the compressor from frequent start or stop. Once the compressor is stopped, it must not be restarted right away. Please wait for a few minutes.

2.2.1.2 EXV Control

When the unit is first started, the electronic expansion valve will reset control. During the process, the expansion valve will produce rattling sound. When cooling or heating mode is turned on, the valve will be open at a certain step before the compressor starts.

2.2.1.3 Outdoor Fan Control

This series air conditioner has two types of outdoor units: one with a single fan and the other with double fans. The outdoor fan can run at the highest level 10 and the lowest level 1. By controlling the speed of outdoor fan, the unit can achieve cooling at low temperature and heating at high temperature. In fan mode, outdoor fan will not work.

2.2.1.4 4-way Valve Control

After heating mode is turned on for a while, 4-way valve will be energized to change the direction of refrigerant flow so that the system can run in heating and the indoor unit will not blow cold air. Under other modes, the valve will not be energized.

To avoid the 4-way valve from incorrectly changing directions, when the unit stops in heating, due to a temperature point or other protection reasons, the 4-way valve will continue to function temporarily and lose power after a while.

There must be adequate differential pressure for the 4-way valve to change directions.

2.2.2 Special Control

2.2.2.1 Defrosting Control

ODU defrosting control in heating: Defrosting will start when the temperature sensed by outdoor tube temperature sensor reaches a preset value. During defrosting, the 4-way valve will switch to the cooling condition, and outdoor and indoor fans will both stop. When the temperature sensed by outdoor tube temperature sensor reaches the preset value of defrosting stop, system will quit defrosting. The 4-way valve will switch back to the heating condition, outdoor fan will start working first and indoor fan will resume its previous fan speed after performing cold air prevention.

2.2.2.2 Oil Return Control

If the unit is running at low frequency for a long time, system will enable oil return control. This is to lead oil in the pipeline back to the compressor so that the compressor will not be lack of oil. Generally, the oil return takes about 5min. The compressor running frequency will be raised to the preset oil return frequency.

2.2.2.3 Refrigerant Recovery Control

Enabling method: Remote controller and wired controller both use the same enabling method. That is, within 5min after power is connected, start cooling mode (turn on the unit) and set temperature at 16°C, then press "▲, ▼, ▲, ▼, ▲, ▼" (6 times of pressing) in 5s to enter the refrigerant recovery mode. If it is successfully enabled, the indoor unit will display the corresponding code E3.

After the refrigerant recovery mode is enabled, if remote controller or wired controller sends a signal or the refrigerant recovery mode has been enabled for 10min, system will exit from refrigerant recovery. If outdoor unit is shut down because of malfunction, refrigerant recovery will be stopped immediately.

Please note that refrigerant recovery mode cannot be enabled under the following conditions:

1. If temperature is shielded remotely, refrigerant recovery mode cannot be enabled. You need to first unlock the remote shield against temperature.

2. If temperature is higher than 16 degrees under energy-saving mode, refrigerant recovery mode cannot be enabled. You need to first turn off the energy-saving mode.

2.2.2.4 Forced Operation Control

This control is used to quickly check whether the unit can operate normally after installation. Wired controller has to be used to enable this control. For cassette type unit, you can enable the control through the light board.

Enabling method through the light board of cassette type unit: After the unit is installed and connected to power, press TEST button on the light board to enter forced operation mode. Short-press TEST button (less than 2s), cooling mode will be activated. Long-press TEST button (more than 2s), heating mode will be activated.

Enabling method through wired controller:

Under power-on status,

Forced cooling: press the "▼" button continuously for 5s to enter the forced test mode;

Forced heating: press the"▲"button continuously for 5s to enter the forced test mode.

During test mode, press any button to quit the test mode.

Note: Forced test mode can only be enabled when the unit is first turned on and not yet receives any remote controller signal or button control signal.

2.2.3 Protection Control

2.2.3.1 High Pressure Protection Control

System will enable high pressure protection control if the high pressure switch is detected open for continuously a little time. Under high pressure protection, system will be shut down and display error code E1.

When high pressure protection occurs for the first time, system will restore operation if the high pressure switch is detected to be reclosed for continuously a little time. When high pressure protection occurs for the second time in a certain time period, system will not restore operation. You need to manually turn off the unit and clear the error before restarting up the unit. (If high pressure protection occurs frequently, please send for professional personnel to repair.)

2.2.3.2 Low Pressure Protection Control

System will enable low pressure protection control if the low pressure switch is detected open for continuously a little time. Under low pressure protection, system will be shut down and display error code E3. When low pressure protection occurs, system will restore operation if the low pressure switch is detected to be reclosed within a few minutes after shutdown. If low pressure protection occurs for several times in a period of time, system will not restore operation automatically. You need to manually turn off the unit before restarting up the unit.

2.2.3.3 High Temperature Prevention Control

Under heating mode, system will enable high temperature prevention control if the temperature sensed by indoor tube temperature sensor reaches a certain value. When high temperature prevention control is enabled, outdoor fan will slow down.

2.3 Functions

2.3.1 Setting of Filter Cleaning Reminder

When setting washing remind function, the timer area will display 2–bit number that means the pollution level, then press “▲” and “▼” buttons to select, and press “SWING/ENTER” button to confirm the setting. Conversion relation between the displayed pollution level and accumulative operating time are as the following list. After setting, when it reaches the washing time, “CLEAN” icon will flash and remind, if you press “▲” and “▼” buttons to adjust the level, and press “SWING/ENTER” button, then the accumulative time for filter washing remind will not be reset; if the time after adjustment is larger than the current accumulative time, then “CLEAN” icon will stop flashing; if the time after adjustment is less than the current accumulative time, then “CLEAN” icon will continue to flash.

The only method for cancelling the remind function is to press “FUNCTION” button to switch to “CLEAN” icon, and set the timer area to be “00”, and then press “SWING/ENTER” button, then the accumulative time of filter washing remind is reset.

Pollution Level	Accumulated Operating Time (hour)	Pollution Level	Accumulated Operating Time (hour)	Pollution Level	Accumulated Operating Time (hour)
10	5500	20	1400	30	100
11	6000	21	1800	31	200
12	6500	22	2200	32	300
13	7000	23	2600	33	400
14	7500	24	3000	34	500
15	8000	25	3400	35	600
16	8500	26	3800	36	700
17	9000	27	4200	37	800
18	9500	28	4600	38	900
19	10000	29	5000	39	1000

2.3.2 Low-temperature Drying Function

Under dry mode, when the setting temperature is 16°C, press "▼" button for twice, the setting temperature becomes 12°C, then the unit enters into low-temperature dry function.

When low-temperature dry function is turned on, directly press "▲" button or switch the mode can quit the function.

2.3.3 Child-lock Function

Without error, under ON or OFF status of unit, press "▲" and "▼" buttons simultaneously for 5 seconds can enter into child-lock function, the liquid crystal screen will display "🔒"; press "▲" and "▼" buttons simultaneously again for 5 seconds can quit the child-lock function.

Under child-lock status, no response for pressing any buttons. The unit will memorize the child-lock status after power failure and re-energizing the unit.

2.3.4 Memory Function

Under power-off status, press "MODE" and "▲" button simultaneously for 5 seconds can turn on or turn off memory function. When memory function is set, "MEMORY"displays.

If memory function has not been set, when the unit is re-energized after power failure, the unit is power-off status. If the memory function is set in wired controller, when the wired controller is re-energized after power failure, it will resume to the operating status before power failure.

2.3.5 Door Control Function

When door control function is selected, the wired controller will work when the room card is inserted and stop working when the room card is pulled out. When door control function senses the room card is not inserted.

The setting method please refer to Debugging Function (2.3.9).

Note:

① In long-distance monitoring or centralized control, no matter the room card is inserted or not, the ON/OFF of unit can be controlled. If long-distance monitoring or centralized control information is received when the room card is not inserted, the icon is cleared. When the card is reinserted, door control function is judged to be turned on. If long-distance monitoring or centralized control information is received when the room card is inserted, it will keep the original status.

② The unit can not be controlled by buttons when the card is not inserted.

2.3.6 Switch between Fahrenheit and Degree Celsius

Under power-off status, press “MODE” and “▼” buttons simultaneously for 5 seconds, display board will switch between degree Celsius and Fahrenheit.

2.3.7 Inquiry of Ambient Temperature

Under power-off or power-on status, press and hold “SWING/ENTER” button for 5 seconds to enter into ambient temperature inquiry interface, then timer area displays the ambient temperature type 01 or 02, and ambient temperature area displays the corresponding ambient temperature of corresponding type. In which, 01 refers to outdoor ambient temperature, 02 refers to indoor ambient temperature. Press “MODE” button can switch between type 01 and 02. Press buttons other than “MODE” or when the unit receives remote controller signal, it will quit the inquiry status. If there is no any operation for 20 seconds, it will quit automatically.

Note:

When the outdoor ambient temperature sensor detects the same temperature for 12 hours, it will shield the display of outdoor ambient temperature sensor.

2.3.8 Inquiry of Historical Malfunction

Under off or on state of the unit, continuously press Function and ▼ buttons for 5s to view historical malfunction.

In enquiry state, set temperature displaying zone displays “00”. Press ▲ and ▼ buttons to view the 5 malfunctions happened recently. The timer displaying position displays the specific error code. The 5th displayed malfunction is the last malfunction.

2.3.9 Debugging Function

Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust the setting items and press ▲ or ▼ button to set the actual value.

2.3.9.1 Setting ambient temperature sensor (dual ambient temperature sensors function)

Under debugging state, press Mode button to adjust to “00” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 3 selections:

(1) The ambient temperature at air return is set as indoor ambient temperature (timer zone displays 01)

(2) The temperature at wired controller is set as indoor ambient temperature (timer zone displays 02)

(3) Select the temperature sensor at air return in cooling, dry and fan mode; select the temperature sensor at wired controller in heating and auto mode.

2.3.9.2 Displaying setting of freeze protection error code

Under debugging state, press Mode button to adjust to “02” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Displayed (LCD displays 01).

(2) Not displayed (LCD displays 02).

It is defaulted to be not displayed for export unit and be displayed for domestic unit.

2.3.9.3 Setting refrigerant lacking protection function

Under debugging state, press Mode button to adjust to “04” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) With refrigerant lacking protection function (LCD displays 01).

(2) Without refrigerant lacking protection function (LCD displays 02).

2.3.9.4 Selecting blowing residual heating of indoor unit

Under debugging state, press Mode button to adjust to “05” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Mode 1 (LCD displays 00).

(2) Mode 2 (LCD displays 01).

Note: Blowing residual heating of indoor unit.

Mode 1: Unit stops when reaching temperature point and indoor fan motor does not stop in cooling mode; after unit stops when reaching temperature point in heating mode, duct type unit and floor ceiling unit blow residual heat for 60s and then stop indoor unit, while cassette type unit always operates in low fan speed and blows residual heat for 60s when there is malfunction.When the duct type unit and floor ceiling unit stop after reaching the temperature point in heating mode, the fan will blow residual heat for 60s and then the indoor fan will stop. From the time when the fan stops after blowing residual heat, in order to prevent heat accumulation, the indoor fan will start operation for a while and then stop if the indoor unit hasn't met the startup conditions for 15min. If the indoor unit still hasn't met the startup conditions, the above-mentioned heat accumulation prevention control will cycled.

Mode 2: After unit stops when reaching temperature point, the indoor fan motor stops operation with a 10s-delay no matter in cooling mode or in heating mode.

2.3.9.5 Mode selecting of compressor electric heating belt

Under debugging state, press Mode button to adjust to "06" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Mode 1 (LCD displays 00).

(2) Mode 2 (LCD displays 01).

Note:

Mode 1: Compressor electric heating belt starts when outdoor ambient temperature is below 35°C and stops when outdoor ambient temperature is above 37°C. When outdoor ambient temperature is within 35°C ~ 37°C, the belt will keep its previous operation state.

Mode 2: Compressor electric heating belt starts when outdoor ambient temperature is below -2°C and stops when outdoor ambient temperature is above 0°C. When outdoor ambient temperature is within -2°C ~0°C, the belt will keep its previous operation state.

2.3.9.6 Selecting low-power consumption mode

Under debugging state, press Mode button to adjust to "07" in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) With low-power consumption mode (LCD displays 00).

(2) Without low-power consumption mode (LCD displays 01).

2.3.9.7 Selecting door control function

Under debugging state, press Mode button to adjust to “08” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Without door control function (LCD displays 00).

(2) With door control function (LCD displays 01).

2.3.9.8 Selecting long-distance monitoring or centralized controller

Under debugging state, press Mode button to adjust to “10” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Centralized controller (LCD displays 00).

(2) Long-distance monitoring (LCD displays 01).

2.3.9.9 Selecting fan mode of indoor fan motor

Under debugging state, press Mode button to adjust to “11” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust.

a.There are 5 selections for low static pressure duct:

(1) P3 (LCD displays 03).

(2) P4 (LCD displays 04).

(3) P5 (LCD displays 05).

(4) P6 (LCD displays 06).

(5) P7 (LCD displays 07).

Note: You can select P03, P04, P05, P06, P07 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory defaulted mode is P05. You can set the mode through wired controller. S01, S02, S03……S12, S13 means the rotation speed of indoor unit is from low to high.

Combination relationship of P03, P04, P05, P06, P07.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P03	S09	S08	S07	S06	S05	S04	S03	S02	S01
P04	S10	S09	S08	S07	S06	S05	S04	S03	S02
P05	S11	S10	S09	S08	S07	S06	S05	S04	S03
P06	S12	S11	S10	S09	S08	S07	S06	S05	S04
P07	S13	S12	S11	S10	S09	S08	S07	S06	S05

b.There are 9 selections for high static pressure duct:

(1) P1 (LCD displays 01).

(2) P2 (LCD displays 02).

(3) P3 (LCD displays 03).

(4) P4 (LCD displays 04).

(5) P5 (LCD displays 05).

(6) P6 (LCD displays 06).

(7) P7 (LCD displays 07).

(8) P8 (LCD displays 08).

(9) P9 (LCD displays 09).

Note: You can select P01, P02, P03, P04, P05, P06, P07, P08, P09 in fan mode of indoor fan motor, which means different fan mode combinations are corresponding to different static pressure. Ex-factory defaulted mode is P05. You can set the mode through wired controller. S01, S02, S03……S12, S13 means the rotation speed of indoor unit is from low to high.

Combination relationship of P01, P02, P03, P04, P05, P06, P07, P08, P09.

Static pressure selection	Super high speed	High speed	Medium high speed	Medium speed	Medium low speed	Low speed	Quiet R1 speed	Quiet R2 speed	Quiet R3 speed
P1	S05	S03	S02	S02	S01	S01	S01	S01	S01
P2	S06	S04	S03	S03	S02	S02	S02	S02	S02
P3	S07	S05	S04	S04	S03	S03	S03	S03	S03
P4	S08	S06	S05	S05	S04	S04	S04	S04	S04
P5	S09	S07	S06	S06	S05	S05	S05	S05	S05
P6	S10	S08	S07	S07	S06	S06	S06	S06	S06
P7	S11	S09	S08	S08	S07	S07	S07	S07	S07
P8	S12	S10	S09	S09	S08	S08	S08	S08	S08
P9	S13	S11	S10	S10	S09	S09	S09	S09	S09

2.3.9.10 Selecting compensation of temperature sensor at air return

Under debugging state, press Mode button to adjust to “12” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 16 selections:

(1) Compensate 0°C (LCD displays 00).

(2) Compensate 1°C (LCD displays 01).

(3) Compensate 2°C (LCD displays 02).

(4) Compensate 3°C (LCD displays 03).

(5) Compensate 4°C (LCD displays 04).

(6) Compensate 5°C (LCD displays 05).

(7) Compensate 6°C (LCD displays 06).

(8) Compensate 7°C (LCD displays 07).

(9) Compensate 8°C (LCD displays 08).

(10) Compensate 9°C (LCD displays 09).

(11) Compensate 10°C (LCD displays 10).

(12) Compensate 11°C (LCD displays 11).

(13) Compensate 12°C (LCD displays 12).

(14) Compensate 13°C (LCD displays 13).

(15) Compensate 14°C (LCD displays 14).

(16) Compensate 15°C (LCD displays 15).

Note: Indoor ambient temperature compensation can be set through the wired controller (E.g.: If 02 is selected, it indicates the compensation temperature is 2°C. If the indoor ambient temperature detected by the temperature sensor at air return is 29°C, the ambient temperature after compensation is 29°C-2°C=27°C).

After finishing setting, press Enter/Cancel button to save and exit setting. After entering this interface, the system will exit this menu if there is no operation on the button within 20s. Normal off state interface will be displayed and present setting will not be saved.

2.3.9.11 Auto mode selection

Under debugging state, press Mode button to adjust to “16” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Auto mode 1, the set temperature under auto mode can’t be adjusted (LCD displays 01).

(2) Auto mode 2, the set temperature can be adjusted under auto mode (LCD displays 02).

2.3.9.12 Defrost mode selection

Under debugging state, press Mode button to adjust to “17” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Defrost mode 1 (LCD displays 01).

(2) Defrost mode 2 (LCD displays 02).

2.3.9.13 Heat pump unit and cooling only unit selection

Under debugging state, press Mode button to adjust to “18” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

(1) Heat pump type unit (LCD displays 00).

(2) Cooling only unit (LCD displays 01).

After finishing setting, press Swing/Enter button to save and exit setting. After entering this interface, the system will exit this menu if there is no operation on the button within 20s. Normal off state interface will be displayed and present setting will not be saved.

Notice：

XK117 wired controller entry debugging function method: Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust the setting items and press ▲ or ▼ button to set the actual value.

XE71-42/G wired controller entry debugging function method: In the main interface, press the button of MENU/OK and "▼" at the same time for 5s, enter into the system function page. Press "∧" or "∨"buttons to select the item of DEBUG SET, and press MENU/OK to go into DEBUG SET page. In DEBUG SET page, press "∧" or "∨"buttons to select item，press "<" or ">" button to select the setting options shown as above, press MENU/OK to confirm and save the settings.

2.3.10 Setting of Master and Slave Wired Controller

Under off state of the unit, press Swing/Enter and Mode buttons at the same time for 5s to set master and slave wired controller. Then press ▲ or ▼ button to adjust the value,01 stands for the master wired controller and 02 stands for the slave wired controller. After finishing setting, press Swing/Enter button to save.

2.3.11 Connect to Interface of Centralized Controller

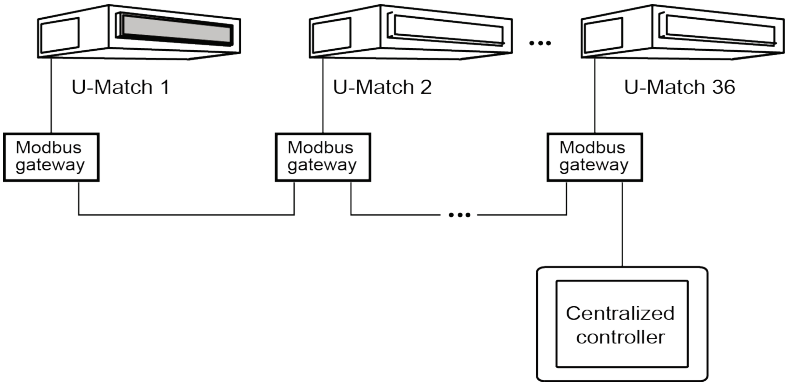
The indoor unit is with the interface of centralized controller. When centralized controller is connected, centralized controller of unit can be realized when the wired controller is not connected.

(1) Interface instruction:

1) The printing of interface on the indoor unit PCB is COM_BMS, before connecting the centralized controller, a gateway model ME50-00/EG(M) is required. The following figure shows an example.

2) Electrical characteristic: none.

3) Working principle: centralized control the communication of indoor main board and realize the unit control;



(2) Function instructions:

In order to achieve this function, set the address mode and address through wired controller. Please refer to Point 3 for the setting method. The address mode is defaulted to be connecting to centralized controller mode and the defaulted address is 1.

When the centralized controller is connected, centralized controller of the unit can be realized to control unit ON/OFF, operation mode, set fan speed/temperature and weekly timer.

(3) Setting method of Centralized control for up to 36 indoor units:

Firstly, set the address mode of wired controller into Long-distance control address mode. The setting method is:

Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust to “10” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

a. Centralized controller address mode (LCD displays 00).

b. Long-distance control address mode (LCD displays 01).

Choose the second selection and then press Swing/Enter button to save and exit setting. Now, the address of wired controller is set to match the address of centralized controller. The unit will memorize this setting status. The setting value will be memorized after power failure.

Address setting of each unit: when the address mode is set to be Long-distance control address mode. The address setting value range is 01~36. The setting method is:

Under off state of the unit, press Function and Mode buttons at the same time for 5s to enter setting interface of wired controller address. LCD displays address sequence. Press ▲ or ▼ button to adjust the address sequence and then press Swing/Enter button to confirm. The setting value will be memorized after power failure.

When the address is set, the wired controller can be removed and connect the centralized controller to the indoor mainboard. Then connect the required units to realize centralized control of these units.

Note:

① The unit addresses in the same network must be different, otherwise, communication malfunction will occur and the unit can not work normally.

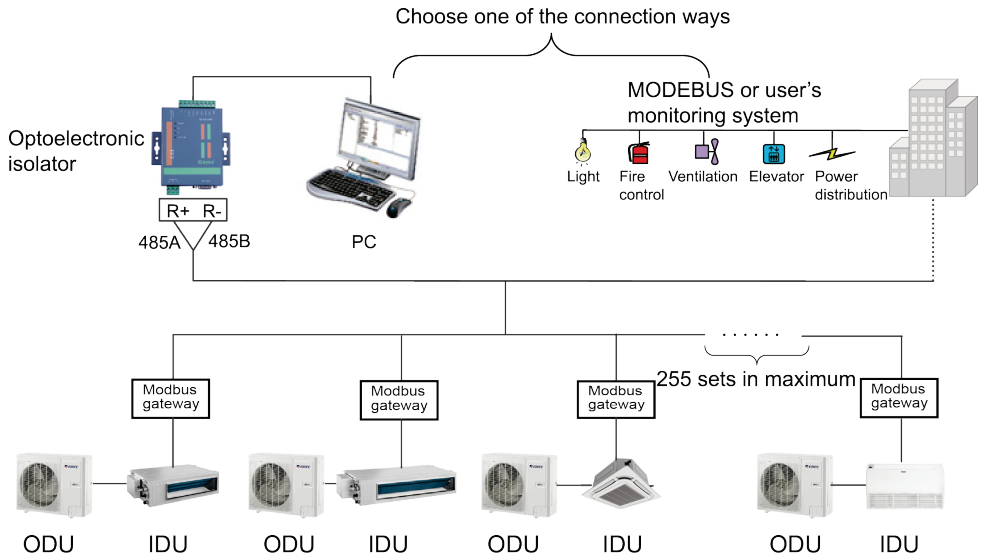
② When centralized controller is to be connected, the unit address range is 1-36. Only 36 sets of unit in maximum can be connected.

③ The code and model of wired controller is as below:

Name	Product code	Remark
Centralized controller CE52-24/F(C)	MC207052	Only 36 sets of unit in maximum can be connected to this controller

2.3.12 Connect to Interface of the MODBUS

The indoor unit of this series has MODBUS interface. If the user needs to connect the unit to the management system of the building, please enquire Gree for the MODBUS protocol.



(1) Interface instruction:

1) The Unit needs to be connected to the gateway ME50-00/EG(M) ,its printing is COM_BMS and interface type is B6B-XH-K3.

2) Electrical characteristic: baud rate: 9600bps; standard: RS485;

3) Working principle:

The indoor mainboard can send out the unit operation state through this interface and receive logical control information to realize control and monitor of the unit.

(2) Function instructions:

In order to achieve this function, set the address mode and address through wired controller. Please refer to Point 3 for the setting method. You must set the address mode into long-distance control address mode.

The address mode is defaulted to be connecting to centralized controller mode and the defaulted address is 1.

(3) Setting method:

Firstly, set the address mode of wired controller into centralized controller address mode. The setting method is:

Under off state of the unit, press Function and Timer buttons at the same time for 5s to go to the debugging menu. Press Mode button to adjust to “10” in temperature displaying zone. Timer zone displays setting state and press ▲ or ▼ button to adjust. There are 2 selections:

a. Centralized controller address mode (LCD displays 00)
b. Long-distance control address mode (LCD displays 01)

Choose the second selection and then press Swing/Enter button to save and exit setting. Now, the address of wired controller is set to match the address of long-distance control. The unit will memorize this setting status. The setting value will be memorized after power failure. Address setting of each unit: when the address mode is set to be long-distance control address mode. The address setting value range is 01~255. The setting method is:

Under off state of the unit, press Function and Mode buttons at the same time for 5s to enter setting interface of wired controller address. LCD displays address sequence. Press ▲ or ▼ button to adjust the address sequence and then press Swing/Enter button to confirm. The setting value will be memorized after power failure.

Notes:

① In order to realize the MODBUS interface function, the address mode of the unit must be set into long-distance control address mode; you can not set it into centralized control address mode, otherwise, this function can not be realized;

② The unit can not be connected to MODBUS and centralized controller at the same time; only one of them can be selected;

③ 255 sets of unit in maximum can be connected in the same network; the unit addresses in the same network must be different, otherwise, the unit control will be affected;

④ Perform wiring when the unit power is cut off.