OPERATION MANUAL

Thank you very much for purchasing our product. Before using your unit, please read this manual carefully and keep it for future reference.

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wire controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

Restore initialization

If the user accidentally sets the display language of the wire controller to a language that the user does not know, the following three steps can be used to restore the wire controller to the factory setting and reset the display language:

1)Power off the wireline controller and power it on again. Press and hold 🖨 + 🔿 + 🔒 to enter the following page within 60 seconds.



3)Power off the wireline controller and power it on again. The display language will be reset. Press "A"" "" " " " be "to select the language of the remote controller. After the language setting is completed, click " " " " be" to select "YES", and then click " " to enter the SETTING ADDRESS interface. After setting SETTING ADDRESS, click" to enter GENERAL SETTING. Then after setting GENERAL SETTING, click " " .

Contents

1 Safety Precautions	1
2 Overview of Wired Controller	3
3 Function Introduction	8
4 Attached Table 1: Outdoor unit errors and protection codes	38
5 Attached Table About Modbus	42

1 Safety Precautions

The product and Operation and Installation Instructions record the following content, including the operation method, how to prevent harms to others and property losses, and how to use the product correctly and safely. Read the text after understanding the content (identification and marker maps) below carefully, and observe the precautions below.

A Caution

Read the safety precautions carefully prior to installation. The important safety precautions are provided below and must be observed. Meanings of marks:

A Caution Means improper handling may lead to personal injuries or material damages.

A Warning Means improper handling may lead to death or serious injury. After the installation work is completed, confirm that the trial operation is normal and hand over the manual to the customer for keeping.

[Note]: So-called "injuries" mean the harms not requiring hospitalization or long-term treatment, generally referring to wounds, burns, or electric shocks. Material damages refer to property and material losses.

1 Safety Precautions

lcon	Name
\otimes	It indicates "prohibited". The specific content of prohibition is provided using graphics or text in the icon or nearby.
()	It indicates "mandatory". The specific mandatory content is provided using graphics or text in the icon or nearby.

! Warning	Entrusted installation	Entrust your distributor or a professional to install the product. The installation operator must have acquired the relevant professional knowledge. In case of independent installation, wrong operations will lead to a fire, electric shock, or injury.	
\otimes	Prohibited	Do not spray combustible spray to the wired controller directly; otherwise a fire may be caused.	
Caution in Use	Prohibited	Do not perform operations with a wet hand or allow water to enter the wired controller; otherwise the wired controller will be damaged.	

▲ Caution

• Do not install the product at a place where flammable gas easily leaks. Once flammable gas leaks and stays around the wired controller, a fire may be caused.

2 Overview of Wired Controller

Basic using conditions:

1)Power range: power input: AC 8V \sim 12V;

2)Operating temperature: -20 $^\circ\!C\sim\!60\,^\circ\!C$;

Operating humidity: RH40%~RH90%;

Where: HP-HEAT PUMP;CO-ONLY COOLING;FC-FREE COOLING.

It's a general manual. The functions of different models are different. The wired controller automatically recognizes and hides irrelevant interfaces. Please set and inquire related parameters according to the outunit model.

2.1 Operation Interface Description



2 Overview of Wired Controller



Set temperature:TWS/T5S:SETTING TEMPERATURE;TW:TOTAL OUTLET WATER TEMPERATURE, T5:TANK TEMPERATURE;TSF:SAFE TEMPERATURE;



DAILY TIMER / WEEKLY SCHEDULE / ERROR / LOCK

3 Function Introduction

Power on for the first time or restore factory settings, you need to preset: SETTING ADDRESS and GENERAL SETTING. Click " I after setting. Please follow the interface prompts.

3.1 Unlocking/Locking Operation

When the wired controller is locked, press and hold the " 🔒 " button for 3s to unlock it. Then the lock icon is not displayed and the wired controller can be operated.

When the wired controller is unlocked, press and hold the " a" button for 3s to unlock it. Then the lock icon is displayed and the wired controller cannot be operated. When there is no operation for continuous 60s on any page, the wired controller returns to the home page and automatically locks, displaying the lock icon.

Note: It can only be locked by long pressing the " 🔒 " button for 3s under the main page, and it is invalid under the " 🖨 " page.

12/04/2019 MON 10:35A	12/04/2019 MON 10:35A
COOL 7 °C ONLINE 16	xy xx CCOL 7°C 0NLINE 16 ON
45% <u>0</u> 60% 🖑	45% 🛕 60% 😽

3.2 Power-on/off

When the wired controller is unlocked and the unit is on, "U" can be pressed to power off the unit under the home page only. And it can be pressed to power on the unit when the unit is off.

In the unlocked state, the set temperature can be adjusted by pressing▲▼button. And you need to Press "→"button to confirm after setting. It's invalid without confirmation within 5s.

	LOCK	UNLOCK: ON	UNLOCK: OFF
HP-COOLING	12/04/2019 MIX 10:35A → TTS TT 9 × CORL 1 7 ℃ ORLINE 16 OR 0 ↔ →	12/94/2019 WKN 10:35A COOL 1 7 °C ORLINE 16 ON 1 ORLINE 16 OR 1 0695	12/04/2019 MW 10:354
CO-COOLING	12/04/2019 MON 10:35A →→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→	12/04/2019 M2N 10:35A MMH TRS TR 9 ℃ COOL 7 ℃ TSF 5 ℃ (NLINE 16 GN 605 &	12/04/2019 MON 10:35A ***
FC-COOLING			1200-0009 WE IDAA
HP-HEATING	12/04/2019 MIX 10:354 ★ TRS TF 40 °C HEAT 55 °C ORLINE 16 OK 6 6 6	12/04/2019 MOR 10:35A ★ TRS TH 40 ℃ HEAT 55 ℃ ONLINE 16 ON 46% ▲ ROK ◆	12/04/2019 MEN 10:35A * TWS TW 40 °C MEAT 555 °C ORLINE 16
HP-HOTWATER	12/04/2019 MON 10:35A TES T5 40 ℃ REW 60 ℃ OKLINE 16 OKLINE 16 455 ▲ 055 &	12/04/2019 M0N 10:35A TES T5 40 ℃ ERV 60 ℃ ORLINE 16 (N 45% 20% 2%	12/04/2019 MIN 10:35A ★★ TSS TS 40 °C DERV 60 °C ORELINE 16 458 € 058 \$

3.3 Mode Setting







Cycle: Cooling-->Heating-->DHW-->Cooling. Skip the mode cycle when there is no corresponding mode. The DHW mode is divided into single pump (no need to select the address) and multiple pumps (need to select address 00-15, and the address of the unit without DHW function is directly skipped).

Only Tws/T5s and address can be set in cooling, heating and DHW mode. Tw/T5 can only be displayed but not be set. DHW can only be power on/off under the MODE setting.

HP-Cooling setting range lower limit is subject to the low water outlet control setting under SERVICE MENU. CO/FC-Cooling setting range lower limit is subject to the lowest outlet water temperature set by antifreeze ratio under PROJECT MENU.

Note: When the setting temperature is lower than 5 C, the water-side system must increase more than 15% of antifreeze, otherwise there will be a risk of damage to the unit.

Press " $_$ " to save the settings after setting and back to homepage. Or press" $_$ " to back. When there is no operation for continuous 60s, it will save the settings and back to homepage.

3.4 Menu Setting





The default selection is "MODE" and choose the menu you need by pressing "▲▼". Press "↓" to enter its submenu or back to homeage by " △". Back to homepage if there is no operation for 60s under menu page.

Note: the mode menu is invalid when the unit is controlled by modbus or host computer and display as above.

4.3.6.1 USER MENU

Select "USER MENU" to enter the user menu. The interface display is as follows:

USER MENU	
QUERY	
TIMER	
GENERAL SETTING	
DOUBLE SETPOINT	
0K 1/2	\$

USER MENU
SNOW-BLOWING SWITCH
SILENT SWITCH
DHW SWITCH
OK 2/2 ♦

Users choose functions by "▲ ▼".

Select "QUERY" in the "USER MENU" interface to access the query function. The interface display and operation are as follows:

QUERY	
STATE QUERY	
TEMP QUERY	
HISTORY ERRORS QUERY	
OK	\$

State query Select "STATE QUERY" and press" ____ ". Display as follows:

STATE QUERY	
SELECT ADDESS	 11 ▶ #
OPERATION STATE	STANDBY
RUNNING MODE	COOL
CURREN SLIENT	NIGHT
MODE	SILENT1
BACK	₽

Select address by pressing " \blacktriangleleft ", " \blacktriangleright " "to view the status of the unit at that address. Back to upper menu by " \bigcirc ".

TEMP QUERY	
SELECT ADDESS	 ◆ 11 ▶ #
INLET WATER TEMP	25
OUTLET WATER TEMP	25
TOTAL OUTWATER TEMP	25
AMBIENT TEMP	25
BACK	•

Select address by pressing " \blacktriangleleft ", " \blacktriangleright " to view the temperature of the unit at that address. Back to upper menu by " \bigtriangleup ".

History errors query

Select "HISTORY ERRORS QUERY" and press" 🔶 ". Display as follows:



Select address by pressing " ◀", " ▶" to view the history errors of the unit at that address. Press "▲" "▼" to choose the history error that you want and the number of errors that can be viewed is 16.

Timer setting

TIMER DAILY TIMER		TIMER DAILY TIMER (DISABLE)
WEEKLY SCHEDULE		WEEKLY SCHEDULE (DISABLE)
OK	•	OK

Note: After MODBUS control and the remote control of the external machine are used, the daily and weekly time settings of the wired controller are invalid, and users cannot enter the timing menu for setting.

When MODBUS control and the remote control of the external machine are invalid. Select "DAILY TIMER" and press" —]". Display as follows:

DAILY TIMER	
TIMER	4 1 ▶ #
ACT	▲ OFF ▶
TIME ON	▲ 10:00 ▶ A
TIME OFF	◀ 10:00 ► A
MODE	▲ HEAT ▶
0K 1/2	\$ ↔

DAILY TIMER	
TWS	 40 ▶°C
SILENT MODE	◆NIGHT ▶
	SILENT1
OK 2/2	\$ 0

Only one setting is enabled between "DAILY TIMER" and "WEEKLY SCHEDULE". If any of the pattern in "WEEKLY SCHEDULE" is set to ON, "DAILY TIMER" is disabled. "DAILY TIMER" can be set across days, but "WEEKLY SCHEDULE" can't.

Users can set up to two timers, and set the ON or OFF time (set the interval of time to 10 minutes), operation mode(there are heating, cooling and DHW modes for single pump; only cooling and heating modes can be selected for multiple pumps, and it cannot be set as DHW mode) and temperature setting for each segment of timer.

It's invalid if the ON and OFF time are same. Display as follows:



Operating Introduction:

Press "▲" "▼" to select TIMER, ACT, TIME ON, TIME OFF, MODE, TWS or SILENT MODE. When the cursor stays at "TIMER ", press "◄" and "▶" to select "TIMER 1" or "TIMER 2". When it stays at other items, we can also use " ◀", " ▶" to adjust corresponding settings.

After setting, press " \leftarrow " to confirm saving, or press " \bigcirc " to cancel setting and return to the previous interface.

If Time1 T.ON is set the same as Time1 T.OFF, then the setting is invalid, the ACT option for the timer of this segment jumps to "OFF", the setting of Timer2 is the same as that of Timer1, and the timing interval of Time2 can cross with that of Time1.

For example, if Timer1 T.ON is set to 12:00 and Timer1 T.OFF is set to 15:00, then the values of Timer2 T.ON and Time2 T.OFF can be set in the range of 12:00-15:00. If the time interval crosses, the machine will be powered on at the time T.ON which is set in Timer1 or Timer2, and will be powered off at the time T.OFF which is set in Timer1 or Timer2.

After the daily timer function setting is enabled, there will be corresponding prompts displayed on

the homepage.

When two timers overlap, the second setting takes precedence.

Weekly schedule setting:

Select "WEEKLY SCHEDULE" and press" . Display as follows:

WEEKLY SCHEDULE	
WEEKLY SCHEDULE	▲ MON ▶
WEEKLY SWITCH	 ● 0FF ●
OK	\$ ₽

MONDAY TIMER	
TIMER	4 1 ▶ #
ACT	 ● 0FF ▶
TIME ON	▲ 10:00 ▶ A
TIME OFF	◀ 10:00 ► A
MODE	HEAT ►
0K 1/2	\$ ↔



Press "▲" and "▼" buttons to select "WEEKLY SCHEDULE" or "WEEKLY SWITCH". And press "◀ "or" ▶" buttons to select Monday to Sunday.

There can be up to 2 timings in a day of weekly timing, and each timing needs to be set on and off time (set interval is 10 minutes).

Operating Introduction:

Press "▲" and "▼" to select "WEEKLY SCHEDULE". Select the day you need by " ◀ " or " ▶ ", and press " ↓ " to enter it. Then you can switch between TIMER, ACT, TIME ON, TIME OFF, MODE, TWS and SILENT MODE by "▲" and "▼". Refer to the operating introduction of "DAILY TIMER". General setting:

Select "GENERAL SETTING" and press" ____ ". Display as follows:

GENERAL SETTING	
YEAR	4 2020 ▶
MONTH	4 12 ▶
DAY	4 10 ▶
12-24HOUR	4 12 ▶
HOUR	▲ 10 ▶
0K 1/2	\$ ₽

GENERAL SETTING		
MINUTE	 55 	•
AMPM	 AM 	
LANGUAGE	ENGLISH	
BACKLIGHT OFF DELAY(s)	• 20	•
OK 2/2	\$	4Þ

Press "▲" and "▼" to select the date, time, and time format to be set. Adjust their parameters by " ◀ " or " ▶", and press "↓ " to save. The backlight time setting range is 10-1200s, the default is 60s, and each adjustment is 10s.

Back to previous page by " $\dot{}$ ') " after setting. Only English is supported now. Double Setpoint

Select "DOUBLE SETPOINT" and press" ". Display as follows:

DOUBLE SETPOINT	
DOUBLE SETPOINT	◆DISABLE ▶
SETPOINT COOL_1	4 16 ▶ °C
SETPOINT COOL_2	4 20 ▶ °C
SETPOINT HEAT_1	4 16 ▶ °C
SETPOINT HEAT_2	 4 25 ▶ °C
OK	‡ ⊕

Press "▲" and "▼" to select items and " ◀ " or " ▶" to adjust parameters.

the lower limit of the set range of HP refrigeration is subject to the low water outlet control set under SERVICE MENU, and the lower limit set for CO/FC refrigeration is subject to the minimum water outlet set under the antifreeze ratio set under PROJECT MENU.

Snow-Blowing switch

Select "SNOW-BLOWING SWITCH" under "USER MENU" page and press" ". Display as follows:

SNOW-BLOWING SWITCH	
SNOW-BLOWING SWITCH YES	
OK	•

Press "▲" and "▼" to select "YES" or "NO" and press " ← 」 " to confirm. "YES" means the function is valid, "NO" means invalid.

Note:Some models do not have this function. Please refer to the instructions of the outdoor machine for whether they have anti-snow control function.

Silent mode:

Select "SILENT SWITCH" and press" ____ ". Display as follows:

SILENT SWITCH	
SELECT SILENT	 NIGHT ► SILENT1
CURRENT SILENT	NIGHT SILENT1
OK	¢

Press "▲" and "▼" to select "SELECT SILENT", press" ◀ " or " ▶" to select the mode you need (7 types: NIGHT SILENT1-4, STANDARD, SILENT and SUPER SILENT), and press " ← " to save. Users can check whether it is the mode they want here and press " ← " to back if there is no problem. Once the silent mode turned on, in homepage light up.

NIGHT SILENT 1	6/10h
NIGHT SILENT 2	6/12h
NIGHT SILENT 3	8/10h
NIGHT SILENT 4	8/12h

Note: Night Silent1-4 is only available for MC-SU **-RN8L-B series models.

DHW SWITCH

Press "▲" and "▼" to select "DHW SWITCH" under "USER MENU" page and press "↓". Display as follows:

DWH SWITCH		
SELECT ADDESS	• 11	▶ #
DWH SWITCH	 YES 	•
DHW FIRST	 YES 	•
00 01 02 03 04	05 06	07
08 09 10 11 12	13 14	15
OK	E	•

Press "▲" and "▼" to switch between SELECT ADDRESS, DHW SWITCH and DHW FIRST. Then press" ◀ " or " ▶" to adjust parameters.

Only when DHW SWITCH selects YES, the following can be set.

Note: DHW SWITCH is only available for custom made DHW models.

Water Coil Control

Press "▲" and "▼" to select "WATER COIL CONTROL" and press "← ". Display as follows:

WATER COIL CONTROL		
COIL CONTROL	▲AUTO	•
OK		40

Press "▲" and "▼" to select "COIL CONTROL" and press " ◀ " or " ▶" to select control mode: AUTO (automatically control), MANUALON (with water coil), MANUALOFF (without water coil). Press " ← J" to save. Press " ← J" to exit this page. Note: Water Coil Control is only applicable to FC models.

4.3.6.2 SERVICE MENU SETTING

Password input: Please contact us

SERVICE MENU	
PLEASE INPUT THE PASSWORD	
0 0 0	
ОК	€ ⊕

Press "▲" and "▼" buttons to change the number to enter, and Press "◀" and "▶" buttons to change the bit code to enter. After the number is entered, the display is not changed. After entering the password, Press " ← I" button to enter the interface or Press " Ć " button to go back to the previous interface.

Display as follows if the input is incorrect:



Enter setting page as follows if the input is correct:

SERVICE MENU	
STATE QUERY	
CLEAR HISTORY ERRORS	
SETTING ADDRESS	
HEAT CONTROL	
0K 1/3	¢

SERVICE MENU	
TMEPERATURE COMPENSATION	
PUMP CONTROL	
MANUAL DEFROST	
LOW OUTLET WATER CONTROL	
OK 2/3 €	

SERVICE	MENU	
VACUUM	SWITCH	
ENERGY	SAVING SWITCH	
DHW ENA	BLE	
FACTORY	DATA RESET	
OK	3/3	ŧ

State query

Press [']"▲^{*} or "▼" to select "STATE QUERY" under "SERVICE MENU" page. Then press " ← I " to enter submenu.

STATE QUERY			
SELECT ADDRESS	•	07	• #
ODU MODEL		130	k₩
COMP FREQUENCE		50	Hz
COMP1 CURRENT		20	A
COMP2 CURRENT		20	Α
BACK		E	•

STATE QUERY	
H-P PRESSURE	3.83 MPa
L-P PRESSURE	1.00 MPa
TP1 DISCHARGE TEMP	30 °C
TP2 DISCHARGE TEMP	30 °C
TH SUCTION TEMP	-20 °C
OK 2/9	ŧ

OK 2/	9
STATE QUERY	
FAN1 SPEED	850 RPM
FAN2 SPEED	850 RPM
FAN3 SPEED	850 RPM
EXV A	1800 P
EXV B	1800 P
BACK 5/	9

STATE QUERY	
TZ TEMP	-20°C
T3 TEMP	-20°C
T4 TEMP	-20°C
T6A TEMP	40°C
T6B TEMP	40°C
BACK 3/9	¢

STATE QUERY		
TFIN1 TEMP	60 "(2
TFIN2 TEMP	60 "(2
TDSH	30 "(2
TSSH	15 "	2
TCSH	15 °	С
BACK 4/9	E	

STATE QUERY			
TAF2 TEMP		30	°C
T5 TEMP		30	°C
COMP TIME1		120	MIN
COMP TIME2		120	MIN
COMP TIME3		120	MIN
BACK	7/9		¢

STATE QUERY		
COMP TIME		65535 H
FIX PUMP TIME		65535 H
INV PUMP TIME		65535 H
ODU SOFTWARE		V45
HMI SOFTWARE		V45
BACK	8/9	¢

STATE QUERY	
EXV C	1800P
Twi TEMP	30°C
Two TEMP	30°C
Tw TEMP	30°C
TAF1 TEMP	30°C
BACK 6/9	\$

STATE Q	JERY					
DEFROST	ENG S	TATE				
00 01	02	03	04	05	06	07
08 09	10	11	12	13	14	15
E2 SOFTW	ARE V	/45				
END						
OK		ç	9/9		E	•

Press " ◀" or " ▶" to select the address of module to view (the offline address is skipped automatically). There are 9 pages and 41 state values. Press " ▲" or " ▼" buttons to select the different page. Clear history errors:

Press "▲" or "▼" to select "CLEAR HISTORY ERRORS" and confirm by "▲____".



Press "▲" or "▼" to select "CLEAR UNIT HISTORY ERRORS" and press " ← I " to confirm. Display as follows:

CLEAR UNIT HIS ERRS	
SELECT ADDRESS	4 07 ▶
DO YOU WANT TO CLEAR?	 YES
OK	÷ •

Press"▲" or "▼" to select "SELECT ADDRESS" and press " ◀" or " ▶" to select address value. Press "▲" or "▼" to select clear or not, and press " ◀" or " ▶" to select YES or NO, and press " ↓" to confirm.

Press"▲" or "▼" to select "CLEAR ALL HIS ERRS" and press " ↓ " to confirm. Display as follows:

CLEAR ALL HIS ERRS		
DO YOU WANT TO	 YES 	•
CLEAR?		
		_
OK		4Þ

CLEAR LOCK ERR	
DO YOU WANT TO	
CLEAR?	
	_
OK	Þ

press " \blacktriangleleft " or " \blacktriangleright " to select YES or NO, and press " \blacksquare " to confirm.

Press"▲" or "▼" to select "CLEAR RUN TIME" and press " to confirm. Display as follows:

CLEAR RUN TIME	
SELECT ADDRESS	4 07 ▶
CLEAR COMP TIME?	◀ N0 ▶
CLEAR FIX PUMP TIME?	▲ N0 ▶
CLEAR INV PUMP TIME?	< N0 ▶
OK	\$ ₽

Press "▲" or "▼" to select "SELECT ADDRESS", press " ◀" or " ▶" to select address value. Press "▲" or "▼" to select clear or not, and press " ◀" or " ▶" to select YES or NO, and press " ◀ " or " ▶" to confirm.

Setting address :

Press ^{*}▲" or "▼" under "SERVICE MENU" page to select "SETTING ADDRESS" (Can also enter by combining buttons pressing " 🖨 ", " ▶" for 3s). Press "←」" and enter submenu.

SERVICE MENU
STATE QUERY
CLEAR HISTORY ERROR
SETTING ADDRESS
HEAT CONTROL
OK 1/3 ♦

SETTING ADDRESS	
CONTROLLER	4 10 ▶ #
ADDRESS	
CONTROL ENABEL	▲ NO ▶
MODBUS ENABLE	▲ NO ▶
MODBUS ADDRESS	4 10 ▶ #
OK	\$₽

Press "▲" or "▼" to select item and press " ◀" or " ▶" to set value. Then press "←¹" to confirm and " \bigcirc " to back.

Heat control

HEAT1 means pipe electric heating in cooling/heating mode. HEAT2 means tank electric heating in DHW mode.

Press "▲" or "▼" to select "HEAT CONTROL" under "SERVICE MENU" page. Press " ← I" and enter submenu.

SERVICE MENU
STATE QUERY
CLEAR HISTORY ERROR
SETTING ADDRESS
HEAT CONTROL
0K 1/3

HEAT CONTROL
HEAT1
HEAT2
FORCED HEAT2 OPEN
OK

÷

Press "▲" or "▼" to select item to be set. Press " and enter submenu.

HEAT1				
HEAT1 ENABLE		4	NO	•
TEMP-		4	07	• °C
AUXHEAT1-ON				
TW. HEAT1-ON		4	25	▶ °C
TW. HEAT1-OFF		4	45	▶ "C
OK	1/2			÷ •

HEAT2			
ALL HEAT2 DISABLE	٩	YES	٠
SELECT ADDRESS	٠	10	ŧ
HEAT2-ENABLE	4	NO	•
T-HEAT2-DELAY	4	190	► MIN
DT5-HEAT2-OFF	4	10	•°C
0K 1/2			*

HEAT2				
T4-HEAT2-ON		٠	10	▶ °C
00 01 02	03 04	05	06	07
08 09 10	11 12	13	14	15
OK	2/2		E	•

FORCED HEAT2 OPEN
SELECTED ADDRESS 10 #
FORCED HEAT2 OPEN NO
00 01 02 03 04 05 06 07
08 09 10 11 12 13 14 15
OK ♦ ●

Press "▲" or "▼" to select item and press " ◀" or " ▶" to set value. Then press " ← ↓" to confirm and " 🖒 " to back.

Temperature Compensation:

Press "▲" or "▼" to select "TEMPERATURE COMPENSATION" under "SERVICE MENU" page. Press " ← J " and enter submenu.

SERVICE MENU	TEMP COMPENSATION		TEMP COMPENSATION	
SERVICE MENU	COOL MODE ENABLE	 YES ▶ °C 	HEAT MODE ENABLE	 YES ▶ °C
TMEPERATURE COMPENSATION	T4 COOL-1	 4 15 ▶°C 	T4 HEAT-1	 4 15 ▶°C
PUMP CONTROL	T4 COOL-2	 ● 08 ● °C 	T4 HEAT-2	 ● 08 ● °C
MANUAL DEFROST	OFFSET-C	 10 ▶°C 	OFFSET-H	 10 ▶ °C
LOW OUTLET WATER CONTROL				
0K 2/3	0K 1/2	\$ ₽	OK 2/2	\$ 0

Press "▲" or "▼" to select item and press " ◀ " or " ► " to set value. Then press " ◀ " to confirm.

Pump Control:

SERVICE MENU
TMEPERATURE COMPENSATION
PUMP CONTROL
MANUAL DEFROST
LOW OUTLET WATER CONTROL
OK 2/3 ♦

PUMP CONTROL	
FORCED PUMP OPEN	
INV PUMP SETTING	
PUMP ON/OFF TIME	
OK	¢

Press "▲" or "▼ to select "FORCED PUMP OPEN" . Press " ₄ — I " and enter submenu.

FOECED PUMP OPEN			
SELECT ADDRESS	4	0	•
FORCED PUMP OPEN		NO	۲
OK		<	Þ 🗘

FORCED PUMP OPEN
Cannot control the pump before shutting down.

23

Under "INV PUMP OPEN" page, press "▲" or "▼" to select item and press " ◀ " or " ► " to set value. Press " ◀ " to confirm or " ΄) " to back.

INV PUMP SETTING	
SELECT ADDRESS	4 07 ▶ #
SWITCH ON THE PUMP	▲ N0 ▶
RATIO PUMP	▲ 100 ▶ #
OK	4 ≑

Note: Can only be set under a single pump, The setting range of RATIO-PUMP is 30%-100%. It should ensure its flow meet the requirement of whole unit, otherwise the unit may be damaged.

PUMP ON/OFF TIME	
PUMP ON TIME	◀ 05 ► MIN
PUMP OFF TIME	4 05 ► MIN
OK	<▶ \$

Parameter setting requirements are as follows:

	Set range	Default value	Adjustment range
PUMP ON TIME	5~60min	5	5
PUMP OFF TIME	0~60min	0	5

Manual Defrost

Press " \blacktriangle " or " \blacktriangledown " to select "MANUAL DEFROST" under "SERVICE MENU" page. Press " \checkmark " and enter submenu.

SERVICE MENU	MANUAL DEFROST	
TMEPERATURE COMPENSATION	SELECT ADDRESS	4 07 ▶ ;
PUMP CONTROL	MANUAL DEFRIOST	◀ NO ▶
MANUAL DEFROST		
LOW OUTLET WATER CONTROL		
OK 2/3	OK	•

Press "▲" or "▼" to select item to be set and press " ◀ " or " ▶ " to set value. Press " ◀ " to confirm or " ⊃ " to back.

If the external unit successfully enters the defrost mode after the "MANUAL DEFROST" is turned on, the defrost icon will be displayed at homepage of the wired controller.

Low outlet water temperature control

Press "▲" or "▼" to select "LOW OUTLETWATER CONTROL" under "SERVICE MENU" page. Press

SERVICE MENU
TMEPERATURE COMPENSATION
PUMP CONTROL
MANUAL DEFROST
LOW OUTLET WATER CONTROL
ОК 2/3 €

LOW OUTLET WATER CTRL	
MIN TEMP FOR COOL	4 50°C ▶
HISTORICAL SETTING	
04/06/2020 11:30A	5°C
04/06/2020 11:30A	5°C
04/06/2020 11:30A	5°C
OK	¢

Press " \blacktriangleleft " or " \blacktriangleright " to set value. Press " \bigstar " to confirm or " \bigcirc " to back. At this page, the historical minimum water outlet temperature setting (setting range 0-20 °C) can be viewed. When the setting temperature is less than 5 °C, a prompt box will pop up:

LOW OUTLET WATRER CONTROL
The setting temp is below 5 degrees. please confirm whether it is an antifreeze system?
OK 🗘 🕈

Note: Only applicable to MC-SU **-RN8L-B series models.For other models, please refer to the instructions of the outdoor machine.

Vacuum mode

Press "▲" or "▼" to select "VACUUM SWITCH" under "SERVICE MENU" page. Press " ← " and enter submenu.

SERVICE MENU
VACUUM SWITCH
ENERGY SAVING SWITCH
DHW ENABLE
FACTORY DATA RESET
OK 3/3 ♦

VACUUM SWITCH	
VACUUM SWITCH	◀ NO ▶
OK	¢

Press " ◀ " or " ▶ " to set YES or NO. Then press " ◀ 」" to confirm. Power off and restart is required to exit it.

Note: Only applicable to MC-SU **-RN8L-B series models.For other models, please refer to the instructions of the outdoor machine.

Energy saving mode

Press "▲" or "▼" to select "ENERGY SAVING SWITCH" under "SERVICE MENU" page. Press " ← " and enter submenu.

PUMP OFF TIME PUMP DOWN TIME 0~60min

SERVICE MENU
VACUUM SWITCH
ENERGY SAVING SWITCH
DHW ENABLE
FACTORY DATA RESET
OK 3/3 ♦

ENERGY SAVING SWITCH				
SAVING SWITCH				
HISTORICAL SETTING				
04/06/2020 11:30A	80%			
04/06/2020 11:30A	80%			
04/06/2020 11:30A	80%			
OK	¢			

press " <" or " +" to set value. Press " <- 1" to confirm or " ' ' to back. Note: Only applicable to MC-SU **-RN8L-B series models. For other models, please refer to the instructions of the outdoor machine.

DHW ENABLE

Press "▲" or "▼" to select "DHW ENABLE" under "SERVICE MENU" page. Press " ← " and enter submenu.

DHW ENABLE		
DHW ENABLE	 NO 	
OK ●		

Press "▲" or "▼" to set YES or NO. Press " ← I " to confirm or " ⁽) " to back. Note: DHW ENABLE is only available for custom made DHW models.

Factory data reset:

Press ^{*}▲" or "▼" to select "FACTORY DATA RESET" under "SERVICE MENU" page. Press ^{*} _▲ [⊥] " and enter submenu.

FACTORY DATA RESET		
DO YOU WANT TO	 YES 	•
RESET?		
08		
UN		κD.

Press "▲" or "▼" to select corresponding item and press " ◀" or " ▶" to select restore or not. Press " ◀— " to confirm or " _ " to back.

4.3.6.3 PROJECT MENU SETTING

Password input: Please contact us.

Select "PROJECT MENU" and press "

shown in the figure below:



The initial password must be obtained by a professional. Press the " \blacktriangle " or " \forall " buttons to change the number to enter, and press the " \blacktriangleleft " or " \blacktriangleright " buttons to change the bit code to enter. After the number is entered, the display is not changed. After entering the password, press the " \checkmark " button to enter the interface; press the " \bigtriangleup " button to go back to the previous interface; the display is as follows if the input is incorrect:



The query interface as follows is displayed if the input is correct:

PROJECT MENU	
SET UNIT AIRCONDITIONING	
SET PARALLEL UNIT	
SET UNIT PROTECTION	
SET DEFROSTING	
0K 1/3	¢

PROJECT MENU	
SET DHW TIME	
SET E9 TIME	
INV PUMP RATIO	
CHECK PARTS	
OK	2/3

PROJECT MENU			
PERCENT OF GLYO	OL		
WATER COIL CONT	ROL		
OK	3/3		¢

Unit Setting:

SET UNIT			
TWO_COOL_DIFF	4	2	▶ "C
TWO_HEAT_DIFF	4	2	▶ "C
DT5_ON	4	8	▶ "C
DTIS5	4	10	▶ "C
DtTws	4	1	▶ °C
OK			\$ 4 >

SET UNIT			
Dtmix	۰	2	▶ "C
FCoffset		2	▶ "C
FChyser	4	1	▶ "C
OK			\$ ₽

Press "▲" or "▼" to select item and press " ◀" or " ▶" to set suitable temperature or time. Press " ◀ " to confirm. Back to homepage if there is no operation within 60s.

Detailed setup information:

Parameter	Setting range	Note
Two_COOL_DIFF	1∽5°C	
Two_HEAT_DIFF	1∽5°C	
dT5_ON	2∽10℃	DHW
Dt1s5	5∽20°C	

Parallel units setting:

Select "SET PARALLEL UNIT" and press " 🔶 " to entry. Display as follows:

SET PAPALLEL UNIT			
TIM_CAP_ADJ	4	180	► S
TW_COOL_DIFF	4	2	▶ °C
TW_HEAT_DIFF	4	2	▶ °C
RATIO_COOL_FIRST	4	0	، ♦
RATIO_HEAT_FIRST	4	50	▶%
OK			\$ ₽

Press "▲" or "▼" to select item to be set and press " ◀" or " ▶" to set value. Press " ← I" to confirm. Back to homepage if there is no operation within 60s. Detailed setup information:

Parameter	Setting range
Tim_Cap_Adj	60s∽360s
Tw_Cool_diff	1∽5℃
Tw_Heat_diff	1∽5°C
Ratio_cool_first	5∽100%
Ratio_heat_first	5∽100%

Unit protection setting:

Select "SET UNIT PROTECTION" and press " L " to entry. Display as follows:

SET UNIT PROTECTIO	ON
T_DIFF_PRO	 12 ▶ °C
TWI_O ABNORMAL	4 2 ▶ °C
OK	\$ •

Press "▲" or "▼" to select item to be set and press " ◀ " or " ▶ " to set value. Press

" 🚽 " to confirm. Back to homepage if there is no operation within 60s.

Detailed setup information:

Parameter	Setting range
T_DIFF_PRO	8 ∽1 5 ℃
T_DIFF_PRO	1∽5°C

Defrosting Setting:

Select "SET DEFROSTING" and press " " to entry. Display as follows:

SET DEFROSTING	
T_FROST	 4 35 ▶ min
T_DEFROST_IN	4 0 ▶ °C
T_FROST_OUT	4 0 ▶ °C
OK	\$ *

Press "▲" or "▼" to select item to be set and press " ◄" or " ▶" to set value. Press " ← " to confirm. Back to homepage if there is no operation within 60s. Detailed setup information:

Parameter	Setting range
T_FROST	20∽120min
T_DEFROST_IN	-5∽5℃
T_FROST_OUT	-10∽10℃

DHW time setting:

Select "SET DHW TIME" and press " to entry. Display as follows:

SET DHW TIME		SET DHW TIME	
SELECT ADDRESS	 • 07 ▶ # 	DHW MIN TIME	4 0.5 ▶ h
COOL MAX TIME	4 08 ▶ h	DHW MAX TIME	4 08 ▶ h
COOL MIN TIME	 ● 0.5 ● h 		
HEAT MAX TIME			
HEAT MIN TIME	 ● 0.5 ▶ h 		
0K 1/2	‡ ₽	0K 2/2	\$ +>

Press "▲" or "▼" to select item to be set and press " ◀" or " ▶" to set value. Press " ◀ " " to confirm. Back to homepage if there is no operation within 60s. Detailed setup information:

Parameter	Setting range
SELECT ADDRESS	0∽15
COOL MIN TIME	0.5~24h
COOL MAX TIME	0.5~24h
HEAT MIN TIME	0.5~24h
HEAT MAX TIME	0.5~24h
DHW MIN TIME	0.5~24h
DHW MAX TIME	0.5~24h

E9 Error time setting:

Select "SET E9 TIME" and press " 🚽 " to entry. Display as follows:

0 • S
1 •#

Inverter pump output setting:

Select "INV PUMP RATIO" and entry the following page to select pump: Use in the case of multiple pumps, do not send instructions for single pump.

INV PUMP RATIO	
MIN RATIO	4 70 ▶%
MAX RATIO	4 100 ▶%
OK	÷ •

Press "▲" or "▼" to select item to be set and press" ◀ " or " ▶ " to set value. Press " ◀ " to confirm. Back to homepage if there is no operation within 60s. MINRATIO setting should ensure its flow meet the requirement of the whole unit, otherwise the unit may be damaged.

MIN RATIO	MINIMUM RATIO	40∽MAX RATIO
MAX RATIO	MAXIMUM RATIO	Max (70%, MIN RATIO) ∽100%

CHECK PARTS

Select "CHECK PARTS" and press "

CHECK PARTS	
SELECT ADDRESS	 4 07 ▶ #
FIX PUMP STATE	OFF
INV PUMP STATE	80%
FOUR-WAY VALVE	OFF
SV1 STATE	OFF
BACK 1/3	40 ¢

CHECK PARTS		
SV2 STATE		OFF
SV4 STATE		OFF
SV5 STATE		OFF
SV6 STATE		OFF
SV8A STATE		OFF
BACK	2/3	\$

CHECK PARTS		
SV8B STATE		OFF
HEAT1 STATE		OFF
HEAT2 STATE		OFF
COIL VALVE		OFF
BACK	3/3	\$ Φ

Press "▲" or "▼" to view 13 state. Press " ← " to return to the previous page.

PERCENT OF GLYCOL

Select "PERCENT OF GLYCOL" and press " 🚽 " to entry submenu. Display as follows:

PRECENT OF GLYCOL	
GLYCOL TYPE	I ETHE ►
SET THE PRECENT	4 70 ▶%
TSAFE	5°C
PAF	0.7MPa
△PAF	4 0 ▶ MPa
BACK 1/2	\$

PRECENT OF GLYCOL	
HISTORICAL SETTING	
04/06/2020 11:30A	80 9
0K 2/2	ŧ

Press "▲" or "♥" to select item to be set and press " ◀ " or " ▶ " to set value. Press " ◀ " to confirm. Back to homepage if there is no operation within 60s. Up to 16 historical setting records.

Parameter	Setting range	
GLYCOL TYPE	ETHE/PROP	
SET THE PERCENT	0∽50%	
TSAFE	DISPLAY	
PAF	DISPLAY	
△PAF	0∽0.2MPa	
HISTORICAL SETTING	04/06/2020 12:00A	
HISTORICAL SETTING	04/06/2020 12:00A	
HISTORICAL SETTING	04/06/2020 12:00A	

Water Coil Control

Press "▲" and "▼" to select "WATER COIL CONTROL" and press "▲____". Display as follows:

WATER COIL CONTROL	
COIL CONTROL	▲AUTO ▶
OK	•

Press "▲" and "▼" to select "COIL CONTROL" and press " ◀ " or " ▶" to select control mode: AUTO (automatically control), MANUALON (with water coil), MANUALOFF (without water coil). Press " 🚽 " to save. Press " 🖕 " to exit this page.

Note: Water Coil Control is only applicable to FC models.

4.3.7 Power Failure Memory Function

The power supply to the system fails unexpectedly during operation. When the system is powered on again, the wired controller continues to operate according to the status before the last power failure, including the power-on/off status, mode, set temperature, failure, protection, wired controller address, timer, hysteresis, etc. However, the memorized content must be the content set at least 7s before the power failure.

4.3.8 Parallel Function of Wired Controller

Parallel function by MODBUS:

1) A maximum of 16 wired controllers can be connected in parallel, and the address can be set in the range of 0 to 15.

2) After multiple wired controllers are connected in parallel, data is shared among them, e.g., the power-on/off function, data settings (such as the water temperature and hysteresis) and other parameters will be kept consistent (note: The mode, temperature, and hysteresis settings can be shared only when the system is powered on).

3) Start point of data sharing: After the power-on/off button is pressed, data can be shared during parameter adjustment. The " \leftarrow " button must be pressed after parameters are adjusted, and the finally adjusted values will be shared.

4) Since the bus is processed in the polling mode, the data of the wired controller which is set last is valid if multiple wired controllers are operated at the same time in the same bus cycle (4s). Avoid the above situation during operation.

5) After any one of parallel wired controllers has been reset, the address of this wired defaults no address and needs to be set manually in order to enter into normal communication.

Parallel function by XYE:

1) A maximum of 16 wired controllers can be connected in parallel

2) The wired controller need to set to control/monitor controller. The former has control functions, while the latter has only viewing functions.

4.3.9 Upper Computer Communication Function

1) When communicating with the upper computer, the homepage displays: Communication

between the wired controller and the upper compute.

2) If the outdoor main control board is in the remote ON/OFF control mode and the wired controller icon flash. At this point, the upper computer network control setting line control mode switch machine is invalid.

4.3.10 Monitor Wired Controller Function

When the wired controller is set to monitor wired controller, press the "

CHECK MENU
QUERY
GENERAL SETTING
STATE QUERY
SETTING ASSRESS
0K 🗘

4 Attached Table 1:Outdoor unit errors and protection codes

No.	Error Code	Explanation	
1	E0	Main control EPROM error	
2	E1	Phase sequence error of main control board check	
3	E2	Main control and wired control transmission error	
4	E3	Total water outlet temperature sensor error (valid for the main unit)	
5	E4	Unit water outlet temperature sensor error	
6	1E5 2E5	Condenser tube temperature sensor T3A error Condenser tube temperature sensor T3B error	
7	E6	Water tank temperature sensor T5 error	
8	E7	Ambient temperature sensor error	
9	E8	Power supply phase sequence protector output error	
10	E9	Water flow detection error	
11	1Eb	Taf1 the pipe of the tank antifreeze protection sensor error	
	2Eb	Taf2 cooling evaporator low-temperature antifreeze protection sensor error	
12	EC	Slave unit module reduction	
13	Ed	system discharge temperature sensor error	
14	1EE	EVI plate heat exchanger refrigerant temperature T6A sensor error	
14	2EE	EVI plate heat exchanger refrigerant temperature T6B sensor error	
15	EF	Unit water return temperature sensor error	
16	EP	Discharge sensor error alarm	
17	EU	Tz sensor error	

No.	Error Code	Explanation	
10	P0	System high-presssure protection or discharge temperature protection	
18	1P0	Compressor module 1 high pressure protection	
	2P0	Compressor module 2 high pressure protection	
19	P1	System low pressure protection	
20	P2	Tz total cold outlet temperature too high	
21	P3	T4 ambient temperature is too high	
	1P4	System A current protection	
22	22 2P4 System A DC bus current protection		
	1P5	System B current protection	
23	2P5 System B DC bus current protection		
24	P6	Module error	
25	P7	High temperature protection of system condenser for 3 times in 60 minutes(power failure recovery)	
26	P9	Water inlet and outlet temperature difference protection	
27	PA	Abnormal water inlet and outlet temperature difference protection	
28	Pb	Winter antifreeze protection	
29	PC	Cooling evaporator pressure too low	
30	PE	Cooling evaporator low temperature antifreeze protection	
31	PH	Heating T4 too high temperature protection	
32	PL	Tfin module too high temperature protection [for 3 times in 60 minutes(power failure recovery)]	
33	1PU 2PU	DC fan A module protection DC fan B module protection	

No.	Error Code	Explanation	
34	H5	Voltage too high or low	
35	xH9	Drive model not matched (x=1or2)	
36	HC	High pressure sensor error	
	1HE	No inset A valve error 1HE	
37	2HE	No inset B valve error 2HE	
	3HE	No inset C valve error 3HE	
20	1F0	IPM module transmission error	
30	2F0	IPM module transmission error	
39	F2	Superheat insufficient	
	1F4	L0 or L1 protection occursfor 3 times in 60 minutes(power	
40		tailure recovery)	
	2F4	failure recovery)	
41	1F6	A system buss voltage error (PTC)	
	2F6	B system buss voltage error (PTC)	
42	Fb	Pressure sensor error	
43	Fd	Suction temperature sensor error	
44	1FF	DC fan A error	
44	2FF	DC fan B error	
45	FP	DIP switch inconsistency of multiple water pumps	
46	C7	3 times PL	
47	xL0	L0 module protection (x=1or2)	
48	xL1	L1 low-voltage protection (x=1or2)	
49	xL2	L2 high-voltage protection (x=1or2)	

No.	Error Code	Explanation	
51	xL4	L4 MCE error (x=1or2)	
52	xL5	L5 zero-speed protection (x=1or2)	
53	xL7	L7 phase loss (x=1or2)	
54	xL8	L8 frequency change over 15Hz $(x=1or2)$	
55	xL9	L9 frequency phase difference 15Hz $(x=1or2)$	
56	dF	Defrosting prompt	
57	1bH	Module 1 relay blocking or 908 chip self-check failed	
51	2bH	Module 2 relay blocking or 908 chip self-check failed	

Attached Table 2: Wired control errors and protection codes

No.	Error code	Explanation	Note
1	E2	Main control and wired control transmission error	Recovered upon error recovery
2	E1	Slave unit module reduction	

5 ATTACHED TABLE ABOUT MODBUS

5.1 Communication specification

Interface: RS-485, H1 on the back of the controller, H2 connected to the serial port of T/R- and T/R+, H1, H2 as the RS485 differential signal. The Upper computer is the host, and the slave machine is the wired controller.

The SETTING ADDRESS interface in the SERVICE MENU can set Modbus communication Address from 1 to 64.

The communication parameters are as follows:

- baud rate: 9600bps.
- Data length: 8 Data bits.
- check: None Parity.
- Stop bit: 1 stop bit.
- communication protocol: Modbus RTU.

5.2 Supported function coses and exception codes

Function code	Explain
03	Read Holding Registers Number of continuous read registers per pass ≤20
06	Write Single Register
16	Write multiple registers Number of continuous read registers per pass ≤20

Exception code specification

Exception code	MODBUS name	Remarks
01	illegal function code	Function code not supported by wired controller
02	illegal data address	The address sent in query or setting is undefined in the wired controller
03	illegal data values	The set parameter is an illegal value, which exceeds the reasonable set range

If 138 address of Modbus control switch is not written as "1", all but 138 addresses can not be written.

5.3 Address mapping in register of wired controller

Addresses below can be used as 03(Read Holding Registers) ,06(Write Single Register), 16(Write Multiple Registers)			
Data Content	Address of Register	Notes	
Modset	0	Normal Heat Pump: (1 Cooling、2 Heating、 4 DHW、8 Off) Read only while the host remote control state is enabled. Only Cool & Free Cooling:1 Cooling、8 Off	
Outlet water temp. set(Tws)	1	Only Cool & Free Cooling : (Max(-8, TSafe) ⊂ ~20 ⊂) Normal Heat Pump : (TwsMin ⊂ ~20 ⊂) HEAT MODE (25 ⊂ ~55 ⊂)	
Second target temp. set(Tws)	2	Only Cool & Free Cooling : (Max(-8, TSafe) ⊂ ~20 ⊂) Normal Heat Pump : (TwsMin ⊂ ~20 ⊂) HEAT MODE (25 ⊂ ~55 ⊂)	
Water Set Tempture T5S	4	30 ℃ ~60 ℃ (Available for single pump) For no DHW machine, any write operation on this register is invalid.	
Snow-blowing switch	7	1:Enable 2:Disable	

Silent Mode	100	1:Standard mode 2:Silent mode 3:Night silent mode 1 4:Night silent mode 2 5:Night silent mode 3 6:Night silent mode 4 7:Super silent mode	
DOUBLE SETPOINT	101	Enable/Disable 1/0	
SETPOINT COOL_1	102	Only Cool & Free Cooling : (Max(-8, TSafe) C ~20 C) Normal Heat Pump(TwsMin C ~20 C)	
SETPOINT COOL_2	103	Only Cool & Free Cooling : (Max(-8, TSafe) C ~20 C) Normal Heat Pump : (TwsMin C ~20 C)	
SETPOINT HEAT_1	104	(25~55 [°] C)	
SETPOINT HEAT_2	105	(25~55°C)	
DHW SWITCH	115	 Enable Disable (Available for single pump) For no DHW machine, any write operation on this register is invalid. 	

Modbus Control switch	138	1: Enable 0: Disable
LOW OUTLETWATER CONTROL	148	(0∽20℃)

Note: 06, 16 Write register, if the value is written beyond the scope of the note, the exception code is returned.

Addresses below can be used as 03(Read Holding Registers), 06(Write Single Register)

Data Content	Address of Register	Notes
FORCED HEAT2 ON	202+(Unit Address)*100	Enable/Disable 1/0(Available for multiple pump) Set as 1 is invalid before HEAT2 ENABLE is set as YES.
DHW SWITCH	206+(Unit Address)*100	Enable/Disable 1/0(Available for multiple pump)
DHW MODE ON/OFF	207+(Unit Address)*100	Enable/Disable Set as 1 is invalid before DHW SWITCH is set as YES. 1/0(Available for multiple pump)
Water Set T emperature of the selected unit	217+(Unit Address)*100	(30 ℃~60 ℃) (Available for multiple pump)

Note: 1. 06 Write register, if the value is written beyond the scope of the note, the exception code is returned.

2. Unit Address stands for machine address 0-15, 0 stands for host 0.

Addresses below can be used as 03(Read Holding Registers)			
Data Content	Address of Register	Notes	
Running Mode	240+(Unit Address)*100	1:OFF 2:Cooling Mode 3:Heating Mode 4:DHW Mode	
Current silent mode	241+(Unit Address)*100	1:Standard mode 2:Silent mode 3:Super silent mode 4:Night silent mode 1 5:Night silent mode 2 6:Night silent mode 3 7:Night silent mode 4	
DHW Set Temperature T5S	242+(Unit Address)*100	Uints∶1℃ Single pump:All units have same T5S Multiple pump:All units have individual T5S	
Unit inlet water temperature	244+(Unit Address)*100	Uints: 1C	
Unit outlet water temperature	245+(Unit Address)*100	Uints: 1°C	
Total outlet water temperature	246+(Unit Address)*100	Uints: 1℃ Only available on host unit	

Outdoor ambient temperature	247+(Unit Address)*100	Uints: 1°C
Compressor Speed	248+(Unit Address)*100	Uints: 1Hz
Fan1Speed	250+(Unit Address)*100	Uints: RPM
Fan2Speed	251+(Unit Address)*100	Uints: RPM
Fan3Speed	252+(Unit Address)*100	Uints: RPM
WATER PUMP STATE	261+(Unit Address)*100	0:OFF 1:ON
SV1 STATE	262+(Unit Address)*100	0:OFF 1:ON
SV2 STATE	263+(Unit Address)*100	0:OFF 1:ON
HEAT1 STATE	264+(Unit Address)*100	0:OFF 1:ON
HEAT2 STATE	265+(Unit Address)*100	0:OFF 1:ON
MainBoard Err or protect	272+(Unit Address)*100	Check the outdoor unit error list NO.

MainBoard Last Err or protect	273+(Unit Address)*100	Check the outdoor unit error list NO.		
HMI Software Version	274+(Unit Address)*100	HMI software version		
Wire Control Err	278+(Unit Address)*100	Check the wired-controller error list NO.		
Defrost	282+(Unit Address)*100	0:OFF 1:ON		
Anti-freezing electric heater	283+(Unit Address)*100	0:OFF 1:ON		
Remote control state	284+(Unit Address)*100	0:OFF 1:ON Only available on host unit		
Pump group status	286+(Unit Address)*100	1: Multiple pump 0: Single pump		
Tsafe	289+(Unit Address)*100	Uints: 1 [°] C (Available for Only Cool & Free Cooling)		
MainBoard Software Version	292+(Unit Address)*100	Mainboard software version(0 stands for the unit has no version data)		
MainBoard EEPROM Version	293+(Unit Address)*100	Mainboard software version(0 stands for the unit has no version data)		

Note: Unit Address stands for machine address 0-15, 0 stands for host 0.

Importer:

F.G. EUROPE S.A. 128, Vouliagmenis Ave. GR-166 74 Glyfada - Athens, Greece

Manufacturer:

GD Midea Heating & Ventilating Equipment Co.,Ltd. Penglai Industry Road,Beijiao, Shunde, Foshan, Guangdong,528311,P.R.China

16127100A09010 V1.0

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