



Forest*Air Series Versati Air-to-Water Heat Pump*

Operation Manual

IMPORTANT: Please read this manual carefully before running this unit, and save it for future reference.

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GRFA-OM-ATW-3694 - v1.5 - 06/2019

FOREWORD

Air conditioners, heat pumps and dehumidifiers are pieces of high value. In order to ensure your lawful rights and interests, if you are not familiar with the installation of this type of appliance, please have a professional technician do the installation for you. This instruction manual is the universal-purpose version for the *ForestAir series VERSATI Split Air-to-Water Heat Pump* manufactured by Gree. The appearance of the unit that you have purchased may differ from the ones seen in this manual, however it does not change the basic instructions on how to operate and use the appliance.

To ensure satisfactory operation for many years to come, this manual should be read carefully before installing the appliance. After reading, store in a safe place. Please refer to the manual for questions on use or in the event that any irregularities occur.

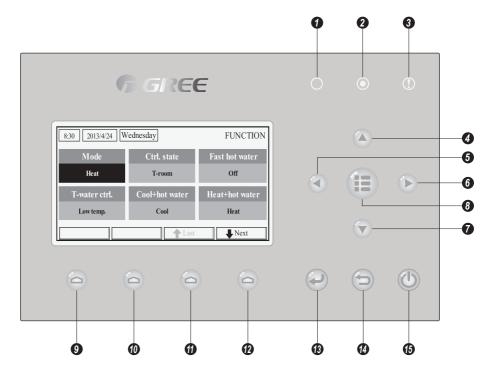
SAFETY PRECAUTIONS

A	CAUTION
(1)	Make sure the control is installed in a location where it will not be subjected to electromagnetic interference. Shielded twisted pairs should be used for signal lines and other communication lines.
1	Be sure the communication lines are wired to the correct ports, otherwise normal communications will fail.
0	Do not expose the control to direct sunlight.
0	Do not install the control in a damp area.
0	Do not beat or toss the control.
0	Avoid frequently disassembling and reassembling the control.
0	Do not operate the control with wet hands.

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1.1. CONTROL PANEL KEYS AND INDICATORS



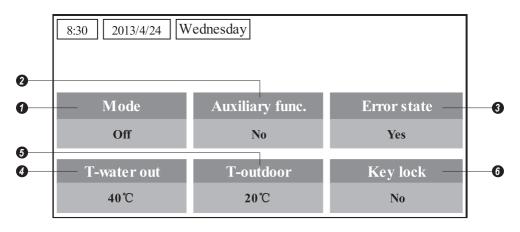
Note: This illustration is for reference only.

#	ICO	ON	KEY/INDICATOR	DESCRIPTION
0	மு	0	Running indicator (green)	Lights on/off when the unit is turned on/off.
2	\oplus	•	Power indicator (yellow)	Lights on/off when the unit is powered on/off.
3	(D	Error indicator (red)	Lights on when some fault occurs.
4	(Left key	Moves the selection left.
6	(2		Up key	Modifies the setting or value of the selected parameter.
6	0		Right key	Moves the selection right.
0	6		Down key	Modifies the setting or value of the selected parameter.
8			Menu key	Calls out the main menu or returns to the home page.
9	(2		Function 1 key	
0			Function 2 key	Performs different functions at difference pages.
0	(2		Function 3 key	renomis unterent functions at uniterence pages.
Ø	6		Function 4 key	
®	4		OK key	Saves the setting or enters a submenu.
•			Cancel / Return key	Returns to a higher menu level or cancels saving.
ø			ON / OFF key	Turns the unit on or off.

Note: The key icons is for reference only. The icons on the actual unit always prevails.

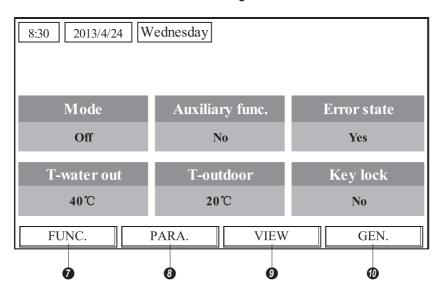
1.2. INTERFACE STANDBY AND HOME PAGES

Standby Page



#	ITEM	DESCRIPTION
0	Mode	Displays the currently running mode.
0	Auxiliary Function	Indicates whether there are any auxiliary functions currently set.
3	Error State	Indicates whether there is any error currently affecting the system.
4	T-Water Out	Displays the current leaving water temperature.
6	T-Outdoor	Displays the current outdoor ambient temperature.
6	Key Lock	Indicates whether the key lock function is on or off.

Home Page



#	ITEM	DESCRIPTION	
0	FUNCTION	Allows access to the Function page.	
8	PARAMETER	Allows access to the <i>Parameter</i> page.	
9	VIEW	Allows access to the View page.	
0	GENERAL	Allows access to the General page.	

2.1. POWER ON/OFF

Allows to turn the appliance on or off.



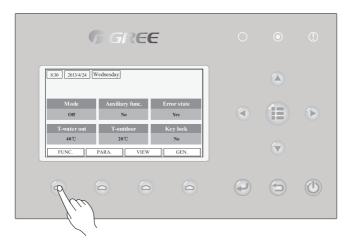
Operation Instructions

On the **HOME** page, press the **Power** we key to turn the unit on or off. When the unit is turned on, the running indicator located in the upper right corner of the control panel turns green. When the unit is turned off, the running indicator lights off.

- The unit is *OFF* by default when energized for the first time.
- The unit can only be switched on or off on the **HOME** or **STANDBY** page.
- If *Holiday* or *Emergency* modes are enabled, the *Power* (1) key becomes inoperative.
- When the Forced Heating or Forced Cooling modes are activated, they can only be deactivated by pressing the Power (1) key. Press the button again to turn the unit on.
- The ON/OFF Memory setting of the power function can be changed on the **GENERAL** setting page. In the event of a power failure, if set to ON, the unit will resume operation once the power is restored. If set to OFF, the unit will remain off.
- On the HOME page, the Power key is used to turn the unit on and off, if applicable. The Function keys 1 to 4 correspond to the FUNCTION, PARAMETER, VIEW and GENERAL pages respectively.
- On the **STANDBY** page, the *Menu* (iii) key is used to return to the **HOME** page, the *Power* (10) key is used to turn the unit on or off, if applicable, and all other keys are inoperative.
- The interface automatically returns to the HOME page if there is no activity for 10 consecutive minutes.

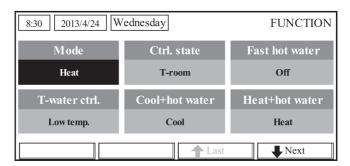
2.2. FUNCTIONS

Allows the user to set each function.



Operation Instructions

1. On the **HOME** page, press the *Function 1* he key to access the **FUNCTION** page.



- 2. Once on the **FUNCTION** page, move the selection to the desired function using the **Left** and **Right** keys. Use the **Function 3** and **Function 4** keys to move to subsequent pages and access more functions. Once located, modify the setting using the **Up** and **Down** keys.
- 3. Once the setting changes are completed, press the *Menu* (ii) key to return to the **HOME** page, or the *Return* (iii) key to return to a higher menu level.

- Some functions have submenus that must be accessed in order to change parameters. The option "Enter" will appear in the lower left corner of the interface screen when such a function is selected. To enter the submenu, simply press the **OK** key.
- When the setting of a function is changed, it is automatically memorized to allow its recovery following a power failure, unless otherwise specified.

Function Setting Options

ITEM	RANGE	DEFAULT	REMARKS
Running Mode	Cool / Heat / Hot Water / Cool + Hot Water / Heat + Hot Water	Heat	If no water tank is available, Cool and Heat are the only options.
Control State	T-Water Out / T-Room	T-Water Out	<i>T-Room</i> is only available when the <i>Remote Sensor</i> is set to <i>With</i> .
Fast Hot Water	ON / OFF	OFF	If no water tank is available, this function will be marked as "Reserved".
T-Water Control	High / Normal	Normal	If Floor Config is set to With, this function is automatically set to Normal and cannot be modified. If Floor Config is set to Without, this function can be modified.
Cool + Hot Water	Cool / Hot Water	Cool	If no water tank is available, this function will be marked as "Reserved".
Heat + Hot Water	Heat / Hot Water	Heat	If no water tank is available, this function will be marked as "Reserved".
Quiet Mode	ON / OFF	OFF	1
Quiet Timer	ON / OFF	OFF	1
Weather-dependent Mode	ON / OFF	OFF	1
Holiday Release	ON / OFF	OFF	1
Disinfection	ON / OFF	OFF	If no water tank is available, this function will be marked as "Reserved".
Weekly Timer	ON / OFF	OFF	1
Clock Timer	ON / OFF	OFF	1
Temperature Timer	ON / OFF	OFF	1
Solar Kit	ON / OFF / Timer	OFF	If no water tank is available, this function will be marked as "Reserved". If set to ON, the solar kit will operate at all times, whether a timer has been set or not. If set to OFF, the solar heating function is unavailable. If set to Timer, the solar kit will only operate when activated by a ser timer.
Floor Debug	ON / OFF	OFF	1
Emergency Mode	ON / OFF	OFF	I
Holiday Mode	ON / OFF	OFF	1

Thermostat	Air / Without / Air + Hot Water	Without	This setting cannot be changed directly from <i>Air</i> to <i>Air</i> + <i>Hot Water</i> or vice versa. <i>Without</i> must first be selected after which the control will send out <i>Without</i> command for 40 consecutive seconds (longer than a communication error). Only after this delay can the <i>ON</i> command be executed. If set to <i>Air</i> + <i>Hot Water</i> , hot water can be performed even if the thermostat is off.
Assistant Heater	1/2/OFF	OFF	1
Other Heater	With / Without	Without	1
Chassis Heater	ON / OFF	OFF	1
Tank Heater	ON / OFF	OFF	If no water tank is available, this function will be marked as "Reserved". If a solar kit is available and this function is set to OFF, the water tank temperature can be adjusted. If a solar kit is unavailable, the top limit of the water tank temperature should be set to 50 °C (122 °F).
Solar Kit Antifreeze	ON / OFF	OFF	1
Water Tank	With / Without	Without	1
Tank Sensor	1/2	2	If no water tank is available, this function will be marked as "Reserved".
Solar Heater	With / Without	Without	1
Floor Config	With / Without	With	In heating mode, if set to <i>With, T-Water Control</i> is automatically set to <i>Normal</i> and cannot be modified. If set to <i>Without, T-Water Control</i> can be modified. In cooling mode, if set to <i>With</i> , the leaving water temperature can be adjusted within a range of 18 to 25 °C (64 to 77 °F), 18 °C (64 °F) being the default value. If set to <i>Without</i> , the leaving water temperature can be adjusted within a range of 7 to 25 °C (45 to 77 °F), 7 °C (45 °F) being the default value. This function is unavailable if the unit is turned off.
Remote Sensor	With / Without	Without	If set to Without, Control State is automatically changed to T-Water Out.
Air Removal	ON / OFF	OFF	1
Address	1–125 and 127–253	1	1
Gate-Controller	ON / OFF	OFF	1

2.2.1 – RUNNING MODE

Allows the user to select the operation mode of the unit.

If no water tank is available, the only allowed running modes will be Cooling and Heating. If a water tank is available and Water Tank has been set to With (see section 2.2.26), the allowed running modes will include Cooling, Heating, Hot Water, Heating + Hot Water, and Cooling + Hot Water. The priority order of operations of the combined running mode Heating + Hot Water or Cooling + Hot Water can be changed (see sections 2.2.5 and 2.2.6 for more details).

Operation Instructions

With the equipment turned off, access the FUNCTION page, then locate Mode. Select the desired running mode using the *Up* (A) and *Down* (V) keys.

Notes:

- Heating mode is set by default when the unit is first energized.
- The setting of this function can only be changed if the unit is turned off. If attempts to change the operation mode are done while the unit is running, the message "Please turn off the system first" will appear on screen.
- For the heat pump model, Cooling and Cooling + Hot Water modes are available, but not for the heating only model.
- This setting is memorized to allow its recovery following a power failure.

2.2.2 – CONTROL STATE

Allows the user to set the system's control state.

Operation Instructions

Access the **FUNCTION** page, then locate *Control State*. Set to *T-Water Out* or *T-Room* using the *Up* (A) and **Down** keys.



Notes:

- If Remote Sensor is set to With, both T-Water Out and T-Room will be available. If Remote Sensor is set to Without, only T-Water Out will be available.
- This setting is memorized to allow its recovery following a power failure.

2.2.3 – FAST HOT WATER

Allows the heat pump and the water tank heater to work together to generate sanitary hot water as quickly as possible to answer an urgent demand.

Operation Instructions

Access the **FUNCTION** page, then locate *Fast Hot Water*. Set to *ON* or *OFF* using the *Up* (A) and **Down** keys.

- This function only works if a water tank is available and Water Tank is set to With.
- This setting is memorized to allow its recovery following a power failure.

2.2.4 – T-WATER CONTROL

Allows to user to set system's water temperature control for heating.

Operation Instructions

After setting *Floor Config* to *Without* (see section 2.2.28), access the **FUNCTION** page, then locate *T-Water Control*. Set the temperature to *High* or *Normal* using the *Up* (and *Down* keys.

Notes:

- If Floor Config is left to With (see section 2.2.28), T-Water Control will be set to Normal water temperature by default and cannot be changed. If Floor Config is set to Without (see section 2.2.28), T-Water Control can be set to either High or Normal temperature.
- This unit can be connected to a floor coil, fan coil unit and radiator. When a fan coil is used for cooling, Floor Config should be set manually to Without to get lower leaving water temperature. When a radiator is used for heating, Floor Config should also be set manually to Without to get higher leaving water temperature.
- This setting is memorized to allow its recovery following a power failure.
- When this setting is changed, the following parameters return to their default values.

ITEM	DESCRIPTION DEFAULT		EFAULT
WOT-Cool	Landan da la manda de Carallea		7°C (45°F)
WO1-C001	Leaving water temperature for cooling.	Normal	18°C (64.8°F)
WOT-Heat	Locuing water temperature for heating	High	45°C (113°F)
WOT-neat	Leaving water temperature for heating.	Normal	35°C (95°F)
Hanna MT Hant	Upper limit of the leaving water temperature for heating in Weather-dependent mode.		48°C (118°F)
Upper WT-Heat			35°C (95°F)
Lower WT Heet	Lower limit of the leaving water temperature for heating in Weather-	High	40 °C (104 °F)
Lower WT-Heat	dependent mode.		29 °C (84 °F)

2.2.5 – COOLING AND HOT WATER

Allows the user to assign priority to the operating function of his choice, between cooling or heating water, when using the combined running mode *Cooling + Hot Water*.

Operation Instructions

Access the **FUNCTION** page, then locate *Cooling + Hot Water*. Set the priority to *Cooling* or *Hot Water* using the *Up* and *Down* keys.

- Hot Water can only be given priority if a water tank is available, otherwise it will be marked as "Reserved".
- This setting is memorized to allow its recovery following a power failure.

2.2.6 – HEATING AND HOT WATER

Allows the user to assign priority to the operating function of his choice, between cooling or heating water, when using the combined running mode *Heating + Hot Water*.

Operation Instructions

Access the **FUNCTION** page, then locate *Heating + Hot Water*. Set the priority to *Heating* or *Hot Water* using the *Up* \triangle and *Down* \bigcirc keys.

Notes:

- Hot Water can only be given priority if a water tank is available, otherwise it will be marked as "Reserved".
- This setting is memorized to allow its recovery following a power failure.

2.2.7 – QUIET MODE

Allows the unit to reduce operation noise.

Operation Instructions

Access the **FUNCTION** page, then locate *Quiet Mode*. Set to *ON* or *OFF* using the *Up* (a) and *Down* (b) keys.

Notes:

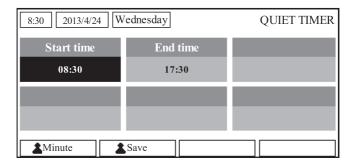
- If activated, the sound level of both the compressor and fan will be reduced, however the capacity of the unit will also decrease as a result.
- This function can be set ON or OFF whether the unit is running or not.
- Once activated, it can only be deactivated manually or through the use of the Quiet Timer function.
- This setting is memorized to allow its recovery following a power failure.
- Turning off the unit will deactivate this function.

2.2.8 – QUIET TIMER

Allows the activation of *Quiet Mode* at specific periods of the day when operation noise need to be reduced.

Operation Instructions

- 1. Access the **FUNCTION** page, then locate *Quiet Timer*. Enter the submenu by pressing the **OK** (a) key.
- 2. In the submenu, select the parameter *Start Time* or *End Time* using the *Left* and *Right* keys, then set the time value using the *Up* and *Down* keys.



- 3. When finished, save by pressing the Function 2 key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the **OK** we key. If not, press the Cancel (key.
- 4. Once the settings are saved, the interface will return to the **FUNCTION** page with the selection on Quiet Timer. Set to ON or OFF using the Up (A) and Down () keys.

Notes:

- Once activated, it can only be deactivated manually.
- This setting is memorized to allow its recovery following a power failure.
- Start Time and End Time parameters are memorized to allow their recovery following a power failure.
- This function can be set to ON or OFF whether the unit is running or not.

2.2.9 – WEATHER-DEPENDENT MODE

Allows the unit to automatically adjusts the leaving water and room temperature based on the outside temperature when living in areas with significant temperature variations throughout the day.

Operation Instructions

Access the **FUNCTION** page, then locate Weather-dependent mode. Set to ON or OFF using the Up (A) and **Down** keys. See section 2.3.2 for more details on this function.

Notes:

- Once activated, it can only be deactivated manually.
- This setting is memorized to allow its recovery following a power failure.
- Once enabled, it is possible to check the temperature setpoint of the Weather-dependent mode on the **PARAMETER** view page.
- Once successfully set, the function will automatically adjust the room temperature. The temperature setpoint will be ignored. If the function is deactivated, the unit will revert to normal operation according to the temperature setpoint.
- This function can be set ON or OFF whether the unit is running or not, but will only take effect once the unit is in operation.
- This function only works in Heating or Cooling running modes.

2.2.10 - HOLIDAY RELEASE

Allows to pause the unit's operation at specific periods when the user is absent.

Operation Instructions

Access the **FUNCTION** page, then locate *Holiday Release*. Set to *ON* or *OFF* using the *Up* (A) and **Down** keys.

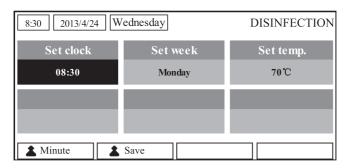
- If this function is enabled and a day of the week is set to Holiday when setting a Weekly Timer, the timer will be disabled for that particular day.
- This setting is memorized to allow its recovery following a power failure.

2.2.11 - DISINFECTION

Allows the weekly sanitization of the water tank by raising the water temperature to 70 °C (158 °F) effectively killing legionella bacterias.

Operation Instructions

- 1. Access the FUNCTION page, then locate Disinfection. Enter the submenu by pressing the OK @ key.
- In the submenu, select the desired parameter using the Left and Right keys, then modify the setting using the Up and Down keys.



- 3. When finished, save by pressing the Function 2 key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the OK key. If not, press the Cancel key.
- 4. Once the settings are saved, the interface will return to the FUNCTION page with the selection on Disinfection. Set to ON or OFF using the Up and Down keys.

ITEM	DESCRIPTION	DEFAULT	RANGE
Set Temp	Water temperature for sanitization	70°C (158°F)	45 °C – 70 °C (113 – 158 °F)

- This function only works if a water tank is available and Water Tank is set to With.
- This function can be set ON or OFF no matter if the unit is running or not.
- Once successfully set, Emergency, Holiday and Floor Debug modes cannot be activated. If attempts
 to activate these functions are made while the unit is running in Disinfection mode, the message
 "Please disable the Disinfection Mode!" will appear on screen.
- Even if *Disinfection* is activated, water heating functions always takes precedence.
- Once enabled, "Disinfection" will show on the **HOME** page of the interface until the process is completed. If the process fails to complete normally, the warning "Disinfect fail" will appear on screen. Press any key to clear this message.
- If an indoor unit communication error or water tank heater error occurs during the sanitization process, the function will be automatically interrupted.

2.2.12 – WEEKLY TIMER

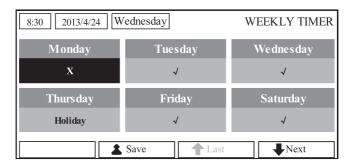
Allows the user to set a specific operation mode for defined periods within a week according to his preferences.

Operation Instructions

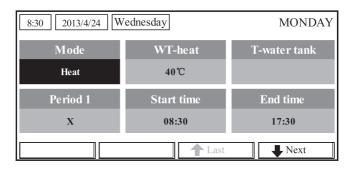
- 1. Access the FUNCTION page, then locate Weekly Timer. Enter the submenu by pressing the OK element (A) key.
- 2. In the submenu, select the desired day of the week using the Left and Right keys. Set the day to Enabled (√), Disabled (X) or Holiday using the Up and Down keys. When finished, press the OK key to enter the submenu of the selected day.

Notes:

- Enabled (√): If Weekly Timer is activated, the timer for that specific day will be operative and will not be affected by Holiday Release.
- Disabled (X): Even if Weekly Timer is activated, the timer for that specific day will be inoperative.
- Holiday: If Weekly Timer is activated, but Holiday Release is not, then the timer for that specific day
 will be operative as normal. However, if Holiday Release is also activated, then the timer for that day
 will be inoperative.



3. In the submenu, set the appropriate running mode (Mode), temperature setpoint (WT-Heat) and water tank temperature (T-Water Tank). The running modes include Heating, Cooling, Hot Water, Heating + Hot Water, Cooling + Hot Water (the last three being only available if a water tank is available and Water Tank is set to With). There are a total of five programmable periods for each day, and each period can be set to Enabled (√) or Disabled (X) depending on the need. Each period can be attributed a Start Time and End Time parameter.



8:30 2013/4/24 W	MONDAY			
Period 2	Start time	End time		
X	08:30	17:30		
Period 3	Start time	End time		
X	08:30	17:30		
↑ Last • Next				

8:30 2013/4/24 W	MONDAY		
Period 4	Start time	End time	
X	08:30	17:30	
Period 5	Start time	End time	
X	08:30	17:30	
↑ Last Next			

- 4. When finished, save by pressing the Function 2 key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the OK key. If not, press the Cancel key.
- 5. Once the settings are saved, the interface will return to the FUNCTION page with the selection on Weekly Timer. Set to ON or OFF using the Up and Down keys.

- A total of five periods can be set for each day. Each period's *Start Time* must be prior to its *End Time*. Similarly, the preceding period must be prior to the following period.
- Once successfully set, changing the setting of Floor Config, Water Tank, Control State or T-Water Control will automatically cause the temperature setpoint of the Weekly Timer to change to the previous setting. For example, if Weekly Timer Mode, Floor Config and WOT-Heat parameters are set to Heating With and 35°C (95°F) respectively, changing Floor Config to Without will cause the Weekly Timer WOT-Heat parameter to change to the previous setting. In this case, if Floor Config was previously set to Without, then WOT-Heat will automatically change to 45°C (113°F), the default value. Once activated, WOT-Heat can only be changed in Weekly Timer and no longer on the PARAMETER setting page.
- If a Weekly Timer using Hot Water, Heating + Hot Water or Cooling + Hot Water mode has been set and activated, and the Water Tank parameter is subsequently changed from With to Without, the control will automatically replace Hot Water and Heating + Hot Water with Heating and Cooling + Hot Water with Cooling in the timer settings.
- The control is able to decide the temperature type and temperature range based on the current Clock Timer, Floor Config, T-Water Control, and Control State settings. If set to Hot Water, the temperature setpoint will display nothing, indicating there is no need to set T-Water Out or T-Room, but requires the T-Water Tank parameter. If set to Cooling or Heating, then the water tank temperature will display nothing, indicating there is no need to set T-Water Tank.

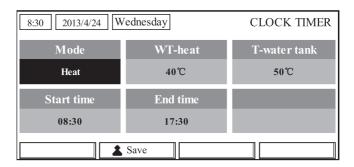
CONTROL STATE	MODE	DESCRIPTION	RANGE		DEFAULT	ACCURACY
	Cool	Leaving water temp.	w/o floor	7-25°C (45-77°F)	7°C (45°F)	1°
T Water Out	C001	for cooling (WT-Cool)	w/ floor	18-25°C (64-77°F)	18 °C (64 °F)	I
T-Water Out	Haat	Leaving water temp. for heating (WT-Heat)	High	25-55°C (77-131°F)	45 °C (113 °F)	1°
	Heat		Low	25-45°C (77-113°F)	35 °C (95 °F)	1°
T Dans	Cool	Room temperature for cooling (RT-Cool)	18-	18-30°C (64-86°F) 18-30°C (64-86°F)		1°
T-Room	Heat	Room temperature for heating (RT-Heat)	18-			1°

2.2.13 – CLOCK TIMER

Allows the user to set a specific operation mode for defined periods within a day according to his preferences.

Operation Instructions

1. Access the **FUNCTION** page, then locate *Clock Timer*. Enter the submenu by pressing the *OK* \bigcirc key.



- 2. In the submenu, select the desired parameter using the Left and Right keys, then modify the setting using the Up and Down keys.
- 3. When the setting involves a time value, press the *Function 1* key to set the hour and minute values alternatively. Modify the corresponding value using the *Up* and *Down* keys. Pressing and holding down either keys will continuously changed the value until release.
- 4. When finished, save by pressing the Function 2 key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the OK key. If not, press the Cancel key.
- 5. Once the settings are saved, the interface will return to the **FUNCTION** page with the selection on *Clock Timer*. Set to *ON* or *OFF* using the *Up* () and *Down* () keys.

- If both a Weekly Timer and Clock Timer are set for the same time period, the latter takes precedence.
- If a water tank is available, the allowed running modes include *Heating*, *Cooling*, *Hot Water*, *Heating* + *Hot Water* and *Cooling* + *Hot Water*.

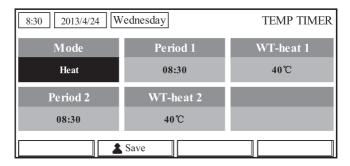
- If no water tank is available, the only allowed running modes are Heating and Cooling.
- If a Clock Timer has been already set and activated using Hot Water, Heating + Hot Water or Cooling + Hot Water modes, changing Water Tank from With to Without will cause the mode to be automatically changed to Heating or Cooling (depending on the mode set by the timer).

2.2.14 – TEMPERATURE TIMER

Allows the user to set a specific temperature for defined periods within a day according to his preferences.

Operation Instructions

Access the FUNCTION page, then locate Temp Timer. Enter the submenu by pressing the OK (with the property)



- In the submenu, select the desired parameter using the Left and Right keys, then modify the setting using the Up and Down keys.
- 3. When finished, save by pressing the *Function 2* key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the *OK* key. If not, press the *Cancel* key.
- 4. Once the settings are saved, the interface will return to the FUNCTION page with the selection on Temp Timer. Set to ON or OFF using the Up and Down keys.

- If a Weekly Timer, Clock Timer, and Temp Timer are set for the same time period, the latter takes precedence.
- This function will only be effective if the unit is running.
- The only allowed running modes for this function are *Heating* and *Cooling*.
- If the Start Time parameter of Period 2 is the same as Period 1, the temperature setpoint of Period 2 will take precedence.
- *Temp Timer* is judged by the timer value.
- During timer operation, the manually set temperature setpoint always takes precedence.

2.2.15 – SOLAR KIT

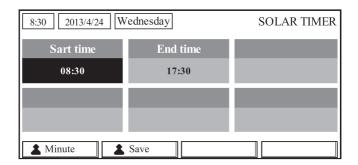
Allows the unit to decide whenever it is best to let operation to the solar system. The running of the solar system depends on the temperature difference between the solar panels and the water tank.

Operation Instructions

1. After setting *Water Tank* and *Solar Heater* to *With* (see sections 2.2.25 and 2.2.27), access the **FUNCTION** page, then locate *Solar Kit*. Set to *ON*, *OFF* or *Timer* using the *Up* (a) and *Down* (b) keys. If *Timer* is selected, enter the submenu by pressing the *OK* (a).

Notes:

- ON: Activates the solar kit when it meets the start-up conditions.
- OFF: Deactivates the solar kit.
- Timer: Activates the solar kit at a defined time.



ITEM	DESCRIPTION	RANGE	DEFAULT
Start Time	Start time of the solar kit	0:00-23:59	8:00
End Time	End time of the solar kit	0:00-23:59	18:00

- 2. In the *Solar Timer* submenu, select the parameter *Start Time* or *End Time* using the *Left* and *Right* keys, then set the time value using the *Up* and *Down* keys.
- 3. When finished, save by pressing the *Function 2* key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the *OK* key. If not, press the *Cancel* key.
- **4.** Once the settings are saved, the interface will return to the **FUNCTION** page with the selection on *Solar Kit.* Set to *ON* or *OFF* using the *Up* (a) and *Down* (b) keys.

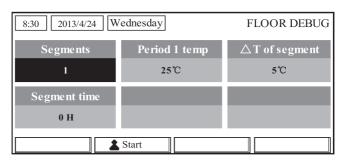
- Once a timer is enabled, it can only be disabled manually.
- Start Time and End Time parameters are memorized to allow their recovery following a power failure.
- This function can be set to ON or OFF no matter if the unit is running or not.

2.2.16 – FLOOR DEBUG

Allows the unit to periodically preheat the floor for initial start-up following installation of a floor coil.

Operation Instructions

1. Access to the **FUNCTION** page, then locate *Floor Debug*. Enter the submenu by pressing the **OK** element (e.g., and the submenu by pression (e.g., and the submenu by



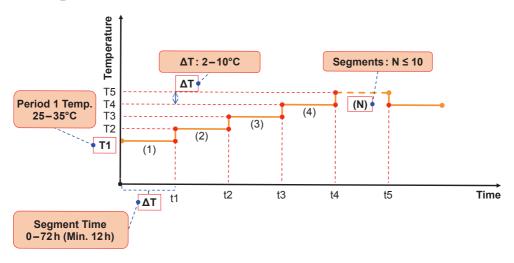
2. In the submenu, select the desired parameter using the *Left* and *Right* keys, then modify the setting using the *Up* and *Down* keys.

ITEM	DESCRIPTION	RANGE	DEFAULT	ACCURACY
Segments	Number of segments	1-10	1	1
Period 1 Temp	Initial temperature	25-35°C (77-95°F)	25 °C (77 °F)	1°
ΔT of Segment	Segment temperature difference	2-10°C (36-50°F)	5°C (41°F)	1°
Segment Time	Segment duration	0-72h	0	12 h

3. When finished, start the function by pressing the *Function 2* key. The message "Start the Floor Debug Mode now?" will appear on screen. Press the *OK* key. Once *Floor Debug* has been activated, it can be deactivated by pressing the *Function 2* key again. The message "Stop the Floor Debug Mode now?" will appear on screen. Confirm this action by pressing the *OK* key, or press the *Cancel* key to let the function as it is.

- The setting of this function can only be changed if the unit is turned off. If attempts to activate *Floor Debug* are made while the unit is running, the message "Please turn off the system first!" will appear on screen.
- Once this function is enabled, the power function becomes inoperative. If the **Power** (1) key is pressed, the message "Please disable the Floor Debug Mode!" will appear on screen.
- Once activated, any Weekly Timer, Clock Timer and Temp Timer currently set will be deactivated.
- Once successfully set, Emergency, Disinfection and Holiday modes cannot to be activated. If attempts
 to activate these functions are made while the unit is running in Floor Debug mode, the message
 "Please disable the Floor Debug Mode!" will appear on screen.
- In the event of a power failure, this function will be disabled and any remaining running time will be cleared
- While in the *Floor Debug* submenu, the interface will not automatically return to the **HOME** page after a certain time. Pressing the *Return* \bigcirc or *Menu* \bigcirc key is required.

- If enabled, it is possible to check the temperature setpoint and running time on the PARAMETER view page.
- Before activating *Floor Debug*, make sure no period parameters has been left without a setting, otherwise the message "Wrong Floor Debug time!" will appear on screen. To clear this message, press the *OK* Pkey and correct the issue.



2.2.17 – EMERGENCY MODE

Allows the unit to run in *Heating* or *Hot Water* mode using the auxiliary heater and the water tank heater when the compressor is not operating correctly due to malfunctions.

Operation Instructions

- 2. Next, locate *Emergency*. Set to *ON* or *OFF* using the *Up* (A) and *Down* (V) keys.

- Once activated, Auxiliary Function on the HOME page will display "Emergency Mode".
- If *Emergency* mode is enabled, but neither *Heating* or *Hot Water* have be set as the running mode, the message "Wrong running mode!" will appear on screen. By pressing the *OK* we key, the interface will move to the *Mode* function setting so the running mode can be corrected. By pressing the *Cancel* key, the interface will move to the *Emergency* function setting so that it can be disabled.
- If a water flow switch protection error, an indoor unit assistant heater welding protection error or leaving water temperature sensor error occurs while the unit is performing *Heating* in *Emergency* mode, the function will be automatically interrupted and activation will not be allowed until the problems are resolved.
- If a water tank heater welding error or water tank temperature sensor error occurs while the unit is performing *Hot Water* in *Emergency* mode, the function will be automatically interrupted and activation will not be allowed until the problems are resolved.
- While in *Emergency* mode, the running mode setting and power function are inoperative, *Quiet* and *Weather-dependent* modes cannot be enabled, nor can any timer functions.

- While in *Emergency* mode, commands from the thermostat are ineffective.
- The only running mode allowed in *Emergency* mode is *Heating* and *Hot Water*.
- The setting of this function can only be changed if the unit is turned off. If attempts to activate
 Emergency mode are made while the unit is running, the message "Please turn off the system first!" will
 appear on screen.
- Once successfully set, Floor Debug, Disinfection and Holiday modes cannot be activated. If attempts
 to activate these functions are made while the unit is running in Emergency mode, the message
 "Please disable the Emergency Mode!" will appear on screen.
- In the event of a power failure, this function will be disabled.

2.2.18 – HOLIDAY MODE

Allows the unit to maintain the leaving water and room temperature within a certain range to avoid freezing damage to the water system in winter when the user is absent for a prolonged period of time.

Operation Instructions

Access the **FUNCTION** page, then locate *Holiday*. Set to *ON* or *OFF* using the *Up* (A) and *Down* (V) keys.

Notes:

- Once activated, both the running mode setting and power function are inoperative.
- Once successfully set, any Weekly Timer, Clock Timer and Temp Timer currently set will be deactivated.
- In *Holiday* mode, if *Control State* is set to *T-Room*, the recommended temperature setpoint should be 10 °C (50 °F). If set to *T-Water Out*, then the temperature setpoint should be 30 °C (86 °F).
- This setting is memorized to allow its recovery following a power failure.
- The setting of this function can only be changed if the unit is turned off and the running mode is set to Heating. If attempts to activate Holiday mode are made while the unit is running, the message "Please turn off the system first!" will appear on screen. If the running mode is anything other than Heating, the message "Wrong running mode!" will appear on screen.
- Settings made from the thermostat and those provided by Holiday mode cannot take effect simultaneously.
- Once successfully set, Floor Debug, Disinfection and Emergency modes cannot be activated. If
 attempts to activate these functions are made while the unit is running in Holiday mode, the message
 "Please disable the Holiday Mode!" will appear on screen.

2.2.19 – THERMOSTAT

Allows the use of a thermostat, depending on the availability of the equipment. The thermostat can be used to control the operation mode of the unit (*Heating* and *Cooling* modes only).

Operation Instructions

Access the **FUNCTION** page, then locate *Thermostat*. Set to *Air*, *Without* or *Air* + *Hot Water* using the *Up* and *Down* keys. If set to *Air*, the control uses the running mode set by the thermostat and is not allowed to change it. If set to *Without*, the control uses the running mode set by itself.

- If no water tank is available, Air + Hot Water cannot be set.
- If Floor Debug or Emergency mode is activated, the control will no longer receive signals from the thermostat.

- If Thermostat is set to Air, the control will automatically deactivate any timer functions and run in accordance with the mode set by the thermostat. The running mode setting and power function of the wired controller are inoperative.
- This setting is memorized to allow its recovery following a power failure.
- If set to Air + Hot Water, the unit can perform water heating operations even if the thermostat is off. The priority order of operations of the combined running modes Heating + Hot Water or Cooling + Hot Water can be changed (see sections 2.2.5 and 2.2.6 for more details).
- This function can be set ON or OFF no matter if the unit is running or not.

2.2.20 – ASSISTANT HEATER

Allows the use of up to two auxiliary heaters.

Operation Instructions

Access the **FUNCTION** page, then locate Assistant Heater. Set to 1, 2 or OFF using the Up (a) and **Down** keys.

Note: This setting is memorized to allow its recovery following a power failure.

2.2.21 – OTHER HEATER

Allows the use of an additional heater, depending on the availability of the equipment.

Operation Instructions

Access the **FUNCTION** page, then locate *Other Heater*. Set to *With* or *Without* using the *Up* (A) and **Down** keys.

Note: This setting is memorized to allow its recovery following a power failure.

2.2.22 - CHASSIS HEATER

Allows the use of the chassis heater. In low ambient temperature, it is generally recommended to active this function along with *Heating* or *Hot Water* mode to prevent freezing damage to the chassis.

Operation Instructions

Access the **FUNCTION** page, then locate *Chassis Heater*. Set to *ON* or *OFF* using the *Up* (A) and **Down** keys.

Note: This setting is memorized to allow its recovery following a power failure.

2.2.23 – TANK HEATER

Allows the use of the water tank heater. If a water tank is available, it is recommended to activate this function. This will allow the water tank to go into standby and start only when the control has made this decision based on the actual demand and ambient temperature.

keys.

Operation Instructions Access the **FUNCTION** page, then locate *Tank Heater*. Set to *ON* or *OFF* using the *Up* (and *Down* ()

Note: This setting is memorized to allow its recovery following a power failure.

2.2.24 – SOLAR ANTIFREEZE

Allows the use of the solar system freezing protection. It is generally recommended to enable this function.

Operation Instructions

Access the **FUNCTION** page, then locate *Solar Antifreeze*. Set to *ON* or *OFF* using the *Up* (a) and *Down* (b) keys.

Note: This setting is memorized to allow its recovery following a power failure.

2.2.25 – WATER TANK

Allows the use of a water tank, depending on the availability of the equipment.

Operation Instructions

Access the **FUNCTION** page, then locate *Water Tank*. Set to *With* or *Without* using the *Up* (and *Down* (we keys.

Notes:

- This setting is memorized to allow its recovery following a power failure.
- The setting of this function can only be changed if the unit is turned off.

2.2.26 – TANK SENSOR

Allows the use of one or two water tank sensors. If a water tank has been installed, this will allow the sensor(s) to detect and control the water tank temperature.

Operation Instructions

Access the **FUNCTION** page, then locate *Tank Sensor*. Set to 1 or 2 using the **Up** (and **Down** wkeys.

Notes:

- This setting is memorized to allow its recovery following a power failure.
- If no water tank is available, this function will be marked as "Reserved".

2.2.27 – SOLAR HEATER

Allows the use of a solar heater, depending on the availability of the equipment.

Operation Instructions

Access the **FUNCTION** page, then locate *Solar Heater*. Set to *With* or *Without* using the *Up* (and *Down* (we keys.

Note: This setting is memorized to allow its recovery following a power failure.

2.2.28 – FLOOR CONFIG

Allows the use of a floor coil, depending on the availability of the equipment.

Operation Instructions

Access the **FUNCTION** page, then locate *Floor Config*. Set to *With* or *Without* using the *Up* (and Down weys.

Notes:

- This setting is memorized to allow its recovery following a power failure.
- In *Heating* mode, if set to *With*, *T-Water Control* will be set to *Normal* water temperature by default and cannot be changed. If set to *Without*, *T-Water Control* can be changed freely.
- In Cooling mode, if set to With, the leaving water temperature allowed range is 18 to 25°C (64 to 77°F), 18°C (64°F) being the default value. If set to Without, the allowed range is 7 to 25°C (45 to 77°F), 7°C (45°F) being the default value.
- The setting of this function can only be changed if the unit is turned off.
- This unit can be connected to a floor coil, fan coil unit and radiator. When a fan coil is used for cooling, Floor Config should be set manually to Without to get lower leaving water temperature. When a radiator is used for heating, Floor Config should also be set manually to Without to get higher leaving water temperature.

2.2.29 – REMOTE SENSOR

Allows the use a remote temperature sensor, depending on the availability of the equipment.

Operation Instructions

Access the **FUNCTION** page, then locate *Remote Sensor*. Set to *With* or *Without* using the *Up* (a) and *Down* (b) keys.

Notes:

- This setting is memorized to allow its recovery following a power failure.
- The Control State parameter T-Room can only be selected if Remote Sensor is set to With.

2.2.30 - AIR REMOVAL

Allows air inside the water system to be expelled using only the water pump in operation when installation of the unit is complete.

Operation Instructions

Access the **FUNCTION** page, then locate *Air Removal*. Set to *ON* or *OFF* using the *Up* (a) and *Down* (b) keys.

Notes:

- This setting is memorized to allow its recovery following a power failure.
- The setting of this function can only be changed if the unit is turned off.

2.2.31 – ADDRESS

Allows the user to assign an address to the control for identification in the central control system.

Operation Instructions

Access the **FUNCTION** page, then locate *Address*. Set to the desired address using the *Up* (a) and *Down* (b) keys.

- This address identifies the wired controller and is intended for the control group.
- This setting is memorized to allow its recovery following a power failure.
- The address range is 0 to 125 and 127 to 253.
- The default address is set to 1 for the initial use.

2.2.32 – GATE-CONTROLLER

Allows the use of a keycard to authorize operation of the control, depending on the availability of the equipment.

Operation Instructions

Access the **FUNCTION** page, then locate *Gate-Controller*. Set to *ON* or *OFF* using the *Up* (A) and *Down* (V) keys.

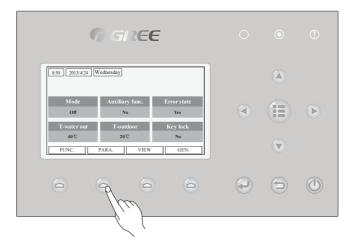
Notes:

- Once activated, the control will check whether a keycard is inserted or not. If inserted, the control will run normally. If not, the control will turn off the unit and the interface will return to the HOME page. If any attempts to use the control are made with no card inserted, the message "Keycard uninserted!" will appear on screen (combined key operations is still allowed, however).
- This setting is not memorized to allow its recovery following a power failure.

2.3. PARAMETER SETTING

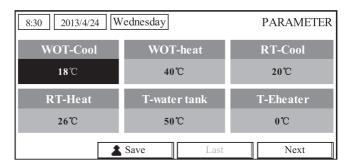
2.3.1 – USER PARAMETERS

Allows the user to set each parameter of the system, such as leaving water temperature for cooling, leaving water out temperature for heating, water tank temperature, etc.



Operation Instructions

1. On the **HOME** page, press the *Function* 2 key to access the **PARAMETER** setting page.



- Once on the PARAMETER page, select the desired parameter using the Left and Right keys, then modify the setting using the Up and Down keys. Pressing and holding down either keys will continuously changed the value until release.
- 3. When finished, save by pressing the *Function 2* key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the *OK* key. If not, press the *Cancel* key.

Note: For parameters whose default value varies according to different conditions, the default value will be set when the condition changes.

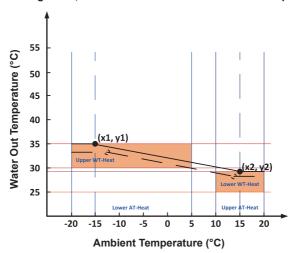
ITEM	DESCRIPTION		RANGE	DEFAULT
WOT-Cool	Loguing water temperature for goaling	w/o floor	7-25°C (45-77°F)	7 °C (45 °F)
VVO1-C001	Leaving water temperature for cooling	w/ floor	18-25°C (64-77°F)	18°C (64°F)
WOT-Heat	Loguing water temperature for heating	High	25-55°C (77-131°F)	45°C (113°F)
WOI-neat	Leaving water temperature for heating	Normal	25-45°C (77-113°F)	35°C (95°F)
RT-Cool	Room temperature for cooling	18	-30°C (64-86°F)	24 °C (75 °F)
RT-Heat	Room temperature for heating	18	-30°C (64-86°F)	20 °C (68 °F)
T-Water Tank	Water tank temperature	40-80°C (104-176°F)		50 °C (122 °F)
T-Eheater	Electronic heater ambient temperature	-22-18°C (-8-64°F)		-7 °C (19 °F)
T-Extraheater	Extra heater ambient temperature	-22-18°C (-8-64°F)		-15°C (5°F)
T-HP Max	Maximum heat pump leaving water temperature (no electronic heater)	40-50°C (104-122°F)		50°C (122°F)
Solarwater Max	Maximum solar kit water temperature	50-80°C (122-176°F)		80°C (176°F)
Lower AT-Heat	Lower limit of the ambient temperature for heating in Weather-dependent mode.	-20-5°C (-4-41°F)		-15°C (5°F)*
Upper AT-Heat	Upper limit of the ambient temperature for heating in Weather-dependent mode.	10-20°C (50-68°F)		15 °C (59 °F)*

Upper RT-Heat	Upper limit of the room temperature for heating in Weather-dependent mode.	22-30°C (72-86°F)		24°C (75°F)*
Lower RT-Heat	Lower limit of the room temperature for heating in Weather-dependent mode.	18-21°C (64-70°F)		20°C (68°F)*
	Upper limit of the leaving water temperature for	High	46-55°C (115-131°F)	48 °C (118 °F)*
Upper WT-Heat	heating in Weather-dependent mode.	Normal	30-35°C (86-95°F)	35°C (95°F)*
Lower WT-Heat	Lower limit of the leaving water temperature for	High	36-45°C (97-113°F)	40 °C (104 °F)*
Lower WI-Heat	heating in Weather-dependent mode.	Normal	25-29°C (77-84°F)	29°C (84°F)*
Lower AT-Cool	Lower limit of the ambient temperature for cooling in Weather-dependent mode.	10	–25°C (50–77°F)	25°C (77°F)*
Upper AT-Cool	Upper limit of the ambient temperature for cooling in Weather-dependent mode.	26-	-48°C (79–118°F)	40°C (104°F)*
Upper RT-Cool	Upper limit of the room temperature for cooling in Weather-dependent mode.	24-30 °C (75-86 °F)		27°C (81°F)*
Lower RT-Cool	Lower limit of the room temperature for cooling in Weather-dependent mode.	18-23°C (64-73°F)		22°C (72°F)*
	Upper limit of the leaving water temperature for	w/o floor	15-25°C (59-77°F)	15°C (59°F)*
Upper WT-Cool	cooling in Weather-dependent mode.	w/ floor	22-25°C (72-77°F)	23°C (73°F)*
Lower WT-Cool	Lower limit of the leaving water temperature for		7-14°C (45-57°F)	7°C (45°F)*
Lower W1-Cool	cooling in Weather-dependent mode.	w/ floor	18-21°C (64-70°F)	18°C (64°F)*
ΔT-Cool	Temperature deviation for cooling	2-	-10°C (36-50°F)	5 °C (41 °F)
ΔT-Heat	Temperature deviation for heating	2-	-10°C (36-50°F)	10°C (50°F)
ΔT-Hot Water	Temperature deviation for water heating	2	-8°C (36-46°F)	5°C (41°F)
ΔT-Room Temp	Room temperature variation	1-5°C (36-41°F)		2°C (36°F)
Run Time	Running time	1–10 minutes		w/o: 3 minutes w/: 5 minutes
T-Solar Start	Solar kit start temperature variation	10-30°C (50-86°F)		15°C (59°F)
Reserved	Reserved	0:00-23:59		8:00
Reserved	Reserved		0:00-23:59	18:00

^{*} The temperature is set to the default value whenever the setting of *Weather-dependent* mode is changed.

2.3.2 – WEATHER-DEPENDENT PARAMETER GROUP

In heating mode, T-Water Out control state at normal temperature



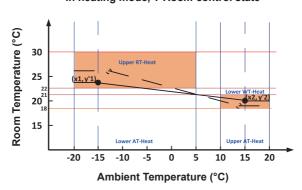
x1: Lower AT-Heat -20-5°C, default -15°C

y1: Upper WT-Heat 30-35°C, default 35°C

x2: Upper AT-Heat 10-20°C, default 15°C

y2: Lower WT-Heat 25-29 °C, default 29 °C

In heating mode, T-Room control state



x1: Lower AT-Heat -20-5°C, default -15°C

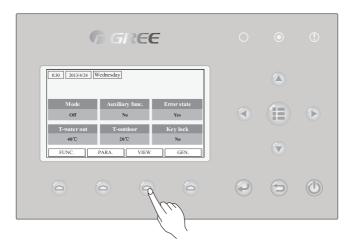
y'1: Upper WT-Heat 22-30°C, default 24°C

x2: Upper AT-Heat 10-20°C, default 15°C

y'2: Lower WT-Heat 18-21°C, default 20°C

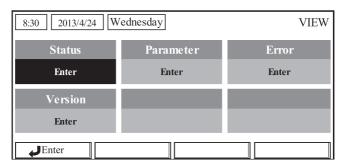
2.4. VIEW PAGE

Allows the user to view the unit's running state, running parameters, errors, the interface version of the wired controller, etc.



Operation Instructions

1. On the **HOME** page, press the *Function* 3 hey to access the **VIEW** page.



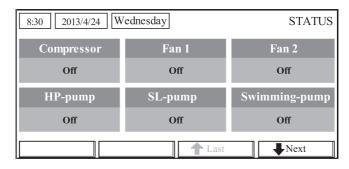
Once on the VIEW page, move the selection to the desired view page using the Left and Right keys.

2.4.1 - STATUS

Allows the user to view the running status of system components and devices, such as the compressor, fan motor, water pump, antifreeze, defrost, etc.

Operation Instructions

On the **VIEW** page, select *Status* using the **Left** and **Right** keys, then press the **OK** key. Once on the **STATUS** page, the current running status of all devices can be viewed.



Note: Since some devices are not available for this particular unit, the status for them is marked as "OFF" (ex: Swimming Pump, 3-Way Valve 1 and 2-Way Valve 2).

ITEM	DESCRIPTION	STATUS
Compressor	Compressor running state	ON / OFF
Fan 1	Fan motor 1 running state	ON / OFF
Fan 2	Fan motor 2 running state	ON / OFF
HP-pump	Heat pump water pump running state	ON / OFF
SL-pump	Solar water pump running state	ON / OFF
Swimming-pump (invalid)	Swimming pump running state (invalid)	ON / OFF
Tank heater	Tank heater running state	ON / OFF
3-way valve 1 (invalid)	Three-way valve 1 running state (invalid)	ON / OFF
3-way valve 2	Three-way valve 2 running state	ON / OFF
Crankc.heater	Crankcase heater running state	ON / OFF
Chassis heater	Chassis heater running state	ON / OFF
Reserved	Reserved	Reserved
Defrost	Defrost running state	ON / OFF
Oil return	Oil return running state	ON / OFF
Thermostat	Thermostat running state	OFF / Cool / Heat
Assist. Heater	Assistant heater running state	ON / OFF
2-way valve 1	Circulating two-way valve 1 running state	ON / OFF
2-way valve 2 (invalid)	Circulating two-way valve 2 running state (invalid)	ON / OFF
Gate-Ctrl.	Gate-controller running state	Card In / Card Out
Operation LED	Operation indicator running state	ON / OFF
Error LED	Error indicator running state	ON / OFF
4-way valve	Four-way valve running state	ON / OFF
Reserved	Reserved	Reserved
HP-heater 1	Heat pump auxiliary heater 1 running state	ON / OFF
HP-heater 2	Heat pump auxiliary heater 2 running state	ON / OFF
SL-Antifree	Solar kit freeze protection running state	ON / OFF
HP-Antifree	Heat pump freeze protection running state	ON / OFF

2.4.2 - PARAMETER

Allows the user to view the running parameters of the unit, such as the outdoor temperature, suction temperature, discharge temperature, entering water temperature, leaving water temperature, etc.

Operation Instructions

On the **VIEW** page, select *Parameter* using the *Left* and *Right* keys, then press the *OK* key. Once on the **PARAMETER** page, the current running parameters of all devices can be viewed.

8:30 2013/4/24 W	PARAMETER	
T-outdoor	T-suction	T-discharge
26℃	26℃	26℃
T-defrost	T-water in PE	T-waterout PE
26℃	26℃	26°C
	Last	■Next

ITEM	DESCRIPTION
T-Outdoor	Outdoor temperature
T-Suction	Suction temperature
T-Discharge	Discharge temperature
T-Defrost	Defrost temperature
T-Water In PE	Plate heat exchanger entering water temperature
T-Water Out PE	Plate heat exchanger leaving water temperature
T-Water Out EH	Electronic heater leaving water temperature
T-Tank Control	Water tank temperature setpoint
T-Tank Display	Water tank temperature display
T-Remote Room	Remote room temperature
T-SL Water In	Solar kit entering water temperature
T-SL Water Out	Solar kit leaving water temperature
T-SL Panel	Solar panel temperature
Dis. Pressure	Discharge pressure
Reserved	Reserved
Reserved	Reserved
T-Auto Mode	Temperature setpoint for Weather-dependent mode
T-Floor Debug	Temperature setpoint for Floor Debug mode
Debug Time	Time period for Floor Debug mode
T-Liquid	Liquid temperature
T-RGP	Rigid gas permeable temperature
T-Swimming (invalid)	Swimming pool water temperature (invalid)
T-Swimming In (invalid)	Swimming pool entering water temperature (invalid)
T-Swimming Out (invalid)	Swimming pool leaving water temperature (invalid)

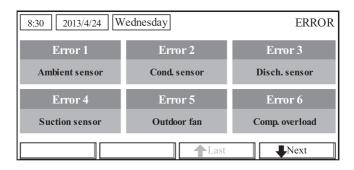
2.4.3 - ERROR

Allows the user to view any errors currently affecting the system.

Operation Instructions

On the **VIEW** page, select *Error* using the *Left* and *Right* keys, then press the *OK* key. Once on the **ERROR** page, any error currently affecting the unit will be listed to be viewed.

If the total number of errors exceed six, the remaining errors can be viewed by switching pages using the *Function 3* and *Function 4* keys.



ITEM	CODE	DESCRIPTION
Ambient Sensor	F4	Ambient temperature sensor error
Defro. Sensor	D6	Defrost temperature sensor error
Disch. Sensor	F7	Discharge temperature sensor error
Suction Sensor	F5	Suction temperature sensor error
Outdoor Fan	EF	Outdoor fan error
Comp. Overload	H3	Compressor internal overload protection
High Pressure	E1	High pressure protection
Low Pressure	E3	Low pressure protection
Hi-Discharge	E4	High discharge protection
Refri-Loss	P2	Refrigerant loss protection
HP-Pump	E0	Heat pump water pump protection
SL-Pump	EL	Solar kit water pump protection
Capacity DIP	C5	Incorrect capacity DIP switch setting
ODU-IDU Com.	E6	Communication error between indoor and outdoor unit
Drive Com.	1	Drive communication error
HI-Pre. Sens.	FC	High pressure sensor error
Temp-RLL	F1	Refrigerant liquid line temperature sensor error
Temp-RGL	F0	Refrigerant gas line temperature sensor error
SW-Water SW	F1	Swimming pool water flow switch error
Temp-HELW	F9	Heat exchanger leaving water temperature sensor error
Temp-AHLW	DH	Auxiliary heater leaving water temperature sensor error
Temp-HEEW	1	Heat exchanger entering water temperature sensor error
Tank Sens. 1	FE	Water tank water temperature sensor 1 error
Tank Sens. 2	1	Water tank water temperature sensor 2 error
T-SL Water Out	1	Solar kit entering water temperature sensor error

T-SL Water In	FH	Solar kit leaving water temperature sensor
T-Solar Battery	FF	Solar kit temperature sensor
T-Remote Air1	F3	Remote room sensor 1
T-Remote Air2	1	Remote room sensor 2
HP-Water SW	EC	Heat pump water flow switch
SL-Water SW	F2	Solar kit water flow switch
Auxi. Heater 1	EH	Welding protection of the auxiliary heater 1
Auxi. Heater 2	EH	Welding protection of the auxiliary heater 2
Auxi. WTH	EH	Welding protection of the water tank heater
DC Under-Vol.	PL	Under-voltage DC bus or voltage drop error
DC Over-Vol.	PH	Over-voltage DC bus
AC Curr. Pro.	PA	AC current protection (input side)
IPM Defective	H5	Intelligent power module defective
PFC Defective	HC	Power factor correction module defective
Start Failure	LC	Start failure
Phase Loss	LD	Phase loss
Drive-Main Com.	LE	Communication error
Driver Reset	P6	Drive module resetting
Com. Over-Cur.	P0	Compressor over-current
Overspeed	P5	Overspeed
Current Sen.	LF	Sensing circuit error or current sensor error
Desynchronize	PC	Desynchronizing
Comp. Stalling	H7	Compressor stalling
OvertempMod.	P8	Radiator or IPM or PFC module overtemperature
T-Mod. Sensor	P7	Radiator or IPM or PFC module temperature sensor error
Charge Circuit	PU	Charging circuit error
AC Voltage	PP	Incorrect AC voltage input
Temp-Driver	PF	Drive board temperature sensor error
AC Contactor	P9	AC contactor protection or input zero crossing error
Temp. Drift	PE	Temperature drift protection
Sensor Con.	PD	Current sensor connection protection (current sensor not connected to phase U/V)
ODU Com.	E6	Communication error to the outdoor unit
IDU Com.	E6	Communication error to the indoor unit
Driver Com.	E6	Communication error to the drive
Solarsuperheat	F6	Solar kit superheating
Swimming-Pump	1	Swimming pool water pump protection
T-Swimming In	1	Swimming pool entering water temperature sensor
T-Swimming Out	1	Swimming pool leaving water temperature sensor
T-Swimming	1	Swimming pool water temperature sensor

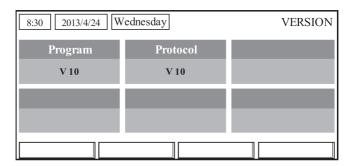
- Errors will appear in real-time on screen. Taking the above figure as an example, if *Error 2* is fixed, it will disappear from the list immediately. Any following errors will move up by one position.
- If an IDU auxiliary heater 1 error, IDU auxiliary heater 2 error or water tank heater error occurs, the control will beep until the error(s) has been resolved.
- Since some functions are not available for this particular unit, the error codes corresponding to these functions are also unavailable (example: swimming pool heating function).

2.4.4 VERSION

Allows the user to view the wired controller's program and protocol version.

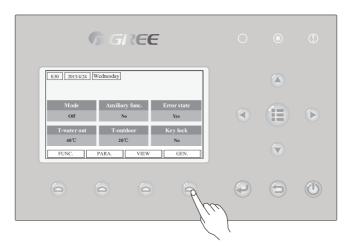
Operation Instructions

On the **VIEW** page, select *Version* using the *Left* and *Right* keys, then press the *OK* key. Once on the **VERSION** page, the program and protocol version of the control can be viewed.



2.5. GENERAL SETTING

Allows the user to set general parameters, such as the temperature measuring unit, the language of the interface, the ON/OFF memorization, the current time and date, etc.



Operation Instructions

- 1. On the **HOME** page, press the *Function 4* hey to access the **GENERAL** setting page.
- 2. Once on the **GENERAL** page, select the desired parameter using the **Left** and **Right** keys, then modify the setting using the **Up** and **Down** keys.

8:30 2013/4/24 W	GENERAL SET			
Temp. unit	Language	On/off memory		
Celsius	English	On		
Time&Date	Beeper	Back light		
Enter	Off	Lighted		

ITEM	DESCRIPTION	RANGE	DEFAULT
Temp. Unit	Temperature of the unit	Celsius / Fahrenheit	Celsius
Language	Language of the interface	English / Turkish	English
ON/OFF Memory	Memorization of the ON/OFF power function	ON / OFF	ON
Time&Date	Time and date of the unit	1	1
Beeper	Button pression beeping	ON / OFF	ON
Back Light	Screen illumination	ON* / Energy Saving*	Energy Saving

^{*} ON: The screen is always illuminated.

2.5.1 TIME AND DATE SETTING

Operation Instructions

1. Access the **GENERAL** setting page. Select *Time & Date* using the **Left** and **Right** keys, then press the **OK** key.

8:30 2013/4/24 Wednesday		Time&Date
Year	Mounth	Day
2013	4	25
Hour	Minute	
16	35	
▲ Save		

2. In the submenu, select the desired parameter using the *Left* and *Right* keys, then modify the setting using the *Up* and *Down*.

^{*} Energy Saving: The screen illumination turns off when there is no activity for a full minute, but turns on when there is key operations.

3. When finished, save by pressing the Function 2 key. A message will appear on screen asking if you are sure you want to save these settings. If you are, press the OK key. If not, press the Cancel key.

2.6. KEY LOCK

Allows the user to lock the wired controller's keys operation.

Operation Instructions

On the **HOME** page, hold down the **Up** and **Down** keys simultaneously for 5 seconds to activate or deactivate this function. Once enabled, the keys become inoperative and **Key Lock** on the **HOME** and **STANDBY** page will display "Yes".

