

Operating Instructions Air-to-Water Heatpump



Model No.

INDOOR UNIT

Air-to-Water Heatpump

(Type W1)

S-80MW1E5
S-125MW1E5

- Connectable outdoor unit lineup
This booklet is the operating instructions for indoor unit. Regarding the outdoor unit, see the operating instructions supplied with the outdoor unit.

OUTDOOR UNIT

3WAY VRF (Type MF2)



ENGLISH

2 ~ 13

Before operating the unit, read these operating instructions thoroughly and keep them for future reference.

E_{NGLISH}

FRANÇAIS

14 ~ 25

Avant d'utiliser l'appareil, lisez ce mode d'emploi dans son intégralité et conservez-le pour toute référence ultérieure.

F_{RANÇAIS}

ESPAÑOL

26 ~ 37

Antes de operar la unidad, lea atentamente estas instrucciones de funcionamiento y guárdelas para futuras consultas.

E_{SPAÑOL}

DEUTSCH

38 ~ 49

Bevor Sie das Gerät in Betrieb nehmen, lesen Sie bitte diese Bedienungsanleitung aufmerksam durch und bewahren Sie sie für die künftige Verwendung auf.

D_{EUTSCH}

ITALIANO

50 ~ 61

Prima di utilizzare l'unità, leggere a fondo queste istruzioni per l'uso e conservarle come riferimento futuro.

I_{TALIANO}

NEDERLANDS

62 ~ 73

Lees deze gebruiksinstructies goed door voor u het apparaat gebruikt en bewaar ze voor toekomstig gebruik.

N_{EDERLANDS}

PORTUGUÊS

74 ~ 85

Antes de utilizar o aparelho, leia completamente este manual de instruções e guarde-o para futuras referências.

P_{ORTUGUÊS}

ΕΛΛΗΝΙΚΑ

86 ~ 97

Πριν θέσετε τη μονάδα σε λειτουργία, διαβάστε πολύ καλά αυτές τις οδηγίες χρήσης και διατηρήστε τις για μελλοντική αναφορά.

E_{ΛΛΗΝΙΚΑ}

БЪЛГАРСКИ

98 ~ 109

Преди да започнете експлоатация на този уред, прочетете внимателно тези инструкции и ги запазете, за да можете да правите справки с тях и в бъдеще.

B_{ЪЛГАРСКИ}

TÜRKÇE

110 ~ 121

Üniteyi çalıştırmadan önce bu çalıştırma talimatlarını iyice okuyun ve gelecekte başvurmak için saklayın.

T_{ÜRKÇE}

Thank you for purchasing this Panasonic product.
 This product is a commercial Air-to-Water unit.
 Installation Instructions attached.

Be sure to read the operating instructions relevant to the VRF system connected to this Air-to-Water and all appliances connected to the VRF system.

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Product Information

If you have problems or questions concerning your Air-to-Water, you will need the following information. Model and serial numbers are on the nameplate on the lid of the electrical component box.

Model No.	
Serial No.	
Date of purchase	
Dealer's address	
Phone number	


Safety Precautions

The following symbols used in this manual, alert you to potentially dangerous conditions to users, service personnel or the appliance:


 WARNING	This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.
 CAUTION	This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.
 Prohibited matters	 Matters to be observed

- Read these Operating Instructions carefully before using this Air-to-Water. If you still have any difficulties or problems, consult your dealer for help.
- This Air-to-Water is designed to give you comfortable room conditions. Use this only for its intended purpose as described in these Operating Instructions.

! WARNING


 Confirm to authorized dealer or specialist on usage of specified refrigerant type. Using of refrigerant other than the specified type may cause product damage, burst and injury etc.


This Air-to-Water has no ventilator for intaking fresh air from outdoors. You must open doors or windows frequently when you use gas or oil heating appliances in the same room, which consume a lot of oxygen from the air. Otherwise there is a risk of suffocation in an extreme case.

 Never use or store gasoline or other flammable vapor or liquid near the Air-to-Water — it is very dangerous.


Do not use this appliance in a potentially explosive atmosphere.


Never touch the unit with wet hands.

Do not insert your fingers or other objects into the Air-to-Water indoor or outdoor unit, rotating parts may cause injury. 

 If the refrigerant comes in contact with a flame, it produces a toxic gas.


For safety, be sure to turn the Air-to-Water off and also to disconnect the power before cleaning or servicing.

Pull off the power plug from a receptacle, or switch off the breaker, or switch off the power disconnecting mean to isolate the Air-to-Water from the main power supply in case of emergency. 

 Do not clean inside the indoor and outdoor units by users. Engage authorized dealer or specialist for cleaning.

In case of malfunction of this appliance, do not repair by yourself. Contact to the sales dealer or service dealer for a repair.


CAUTION

 Provide a power outlet to be used exclusively for each unit, and a power supply disconnect, Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) for overcurrent protection should be provided in the exclusive line.


Provide a power outlet exclusively for each unit, and full disconnection means having a contact separation in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.

To prevent possible hazards from insulation failure, the unit must be grounded.



 Do not use modified cord, joint cord, extension cord or unspecified cord to prevent overheating and fire.




 Stop using the product when any abnormality/failure occurs and disconnect the power plug or turn off the power switch and breaker. (Risk of smoke/fire/electric shock)

Examples of abnormality/failure:

- The ELCB trips frequently.
- The product sometimes does not start when turned on.
- The power is sometimes disconnected when the cord is moved.
- Burnt odor or abnormal noise is detected during operation.
- The body is deformed or abnormally hot.
- Water leaks from the indoor unit.
- Power cord or plug becomes abnormally hot.
- Fan speed cannot be controlled.
- The unit stops running immediately even if it is switched on for operation.
- The fan does not stop even if the operation is stopped.


Contact immediately your local dealer for maintenance/repair.

 This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Keep the fire alarm and the air outlet at least 1.5m away from the unit.

Do not cool or heat the room too much if babies or invalids are present.

 Do not turn the Air-to-Water on and off from the power mains switch. Use the ON/OFF operation button.

Do not stick anything into the air outlet of the outdoor unit. This is dangerous because the fan is rotating at high speed.



Do not touch the air inlet or the sharp aluminum fins of the outdoor unit. You may get injured.



Do not sit or step on the unit. You may fall down accidentally.



Do not stick any object into the FAN CASE. You may be injured and the unit may be damaged.



NOTICE

- The compressor may occasionally stop during thunderstorms. This is not a mechanical failure. The unit automatically recovers after a few minutes.
- The English text is the original instructions. Other languages are translation of the original instructions.

Important Information Regarding The Refrigerant Used

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. Do not vent gases into the atmosphere.

Refrigerant type: R410A

GWP⁽¹⁾ value: 1975

⁽¹⁾ GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation. Please contact your local dealer for more information.

Precautions for Use

Installation

- This Air-to-Water must be installed properly by qualified installation technicians in accordance with the Installation Instructions provided with the unit.
- Before installation, check that the voltage of the electric supply in your home or office is the same as the voltage shown on the nameplate.

WARNING

Avoid the following locations for installation.

- Locations where smoke or combustible gas exists. Also locations of extremely high temperature such as a greenhouse.
- Locations where excessively high heat-generating objects are placed.

Attention:

- Avoid installing the outdoor unit where salty sea water can splash directly onto it or in sulphurous air near a spa. (To protect the Air-to-Water from heavy corrosion)

Wiring

- All wiring must conform to the local electrical codes. (Consult your dealer or a qualified electrician for details.)
- Each unit must be properly grounded with a ground (or earth) wire or through the supply wiring.
- Wiring must be done by a qualified electrician.

Operation Preparation

Turn the power mains on 5 hours before the start of operation.

(For warm-up)

- Leave the power mains ON for continuous use.



NOTE

Pull off the power plug from a receptacle, or switch off the breaker, or switch off the power disconnecting mean to isolate the Air-to-Water from the main power supply when not in use for a long time.

Tips for Energy Saving

■ Avoid

- Do not block the air intake and outlet or water intake and outlet of the unit. (If either is obstructed, the unit will not function well, causing malfunction.)
- During cooling operation, use sunshades, blinds or curtains to prevent direct sunlight from entering the room.

■ Do

- Always keep the water clean. (A lack of water flow will impair the performance of the unit.) → "Maintenance" (P.12)
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

Operation Condition

Use this Air-to-Water under the following temperature range.

Outdoor Unit	Indoor (water) temperature range	Outdoor temperature range
3WAY (Type MF2)		
Cooling*1	14°C ~ 25°C (5°C ~ 20°C)	-10°C ~ 46°C (*DBT)
Heating	15°C ~ 30°C (25°C ~ 45°C)*2	-20°C ~ 35°C (*WBT)
Cooling & Heating	—	-10°C ~ 35°C (*DBT)

*DBT: Dry bulb temperature *WBT: Wet bulb temperature

*1: Make sure to install the 2-way Valve in case that radiator/floor heater is installed in the cooling circuit. If dew is condensed on the radiator/floor heater at defrosting operation, turn on the Air-to-Water in heating mode to prevent condensation.

*2: When the water temperature is less than 25°C, preheat the water over 25°C (operate only Air-to-Water unit).

Information for Users on Collection and Disposal of Old Equipment and Used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



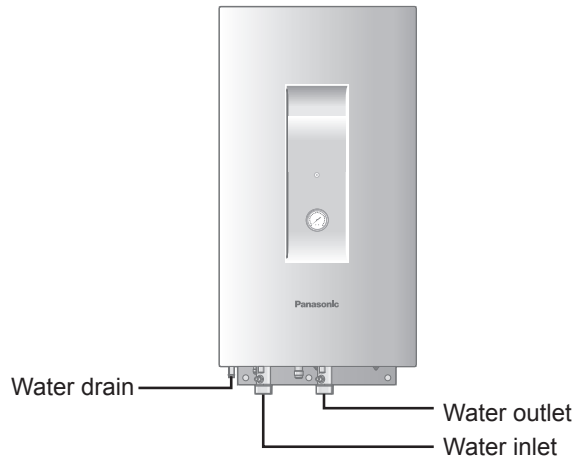
Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.



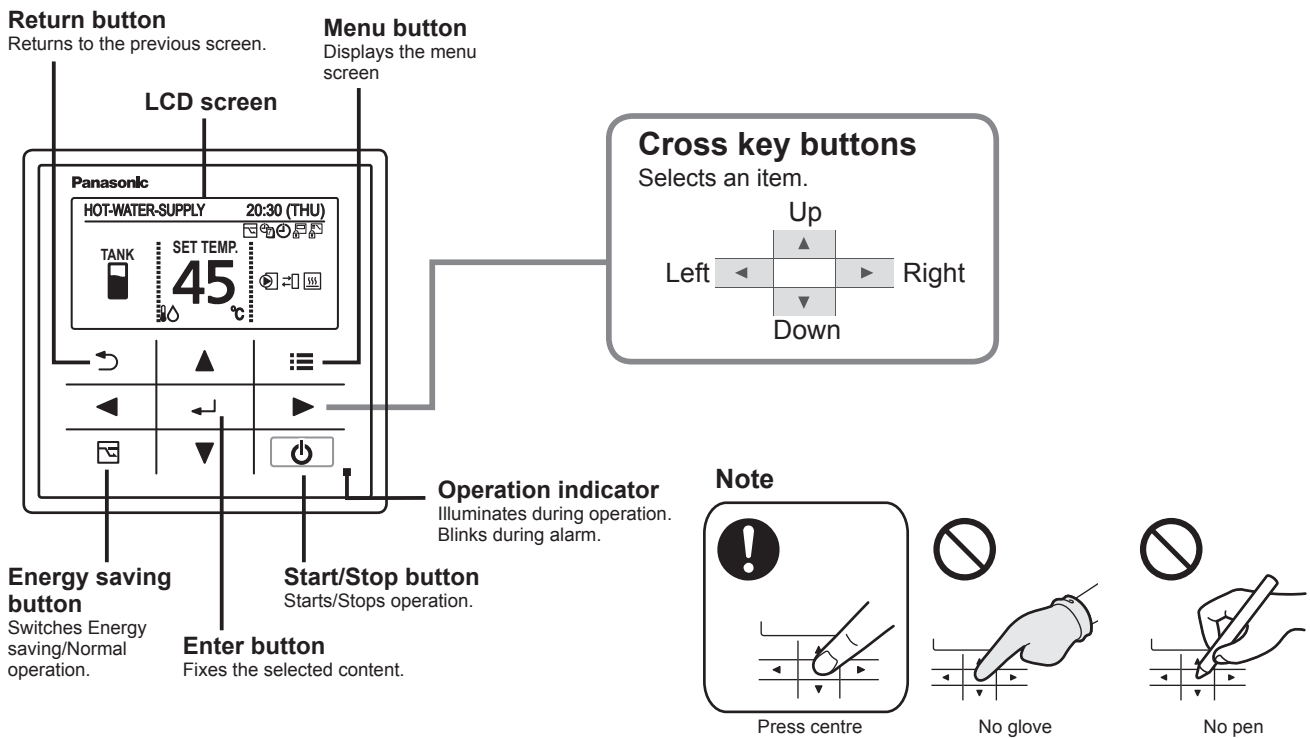
Names of Parts

INDOOR UNIT

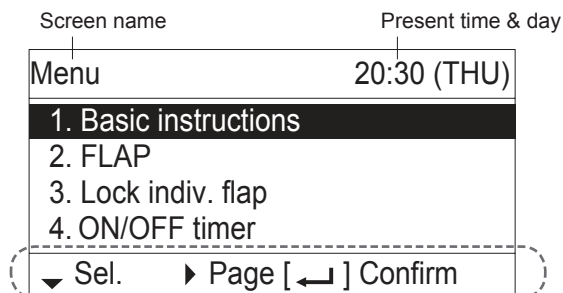


E
NGLISH

High-spec Wired Remote Controller (Optional: Model No. CZ-RTC5)



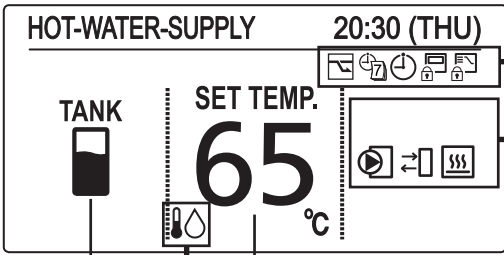
Menu screen



- Operation guide** The currently operable content is simply displayed.
- ▲▼◀▶: Cross key buttons
 - ↵: Enter button

Names of Parts

TANK mode



Operation mode

Set temperature (water)

Icon	Description
	It is able to set Water Out Temperature.

Setting information icons displayed on the top screen

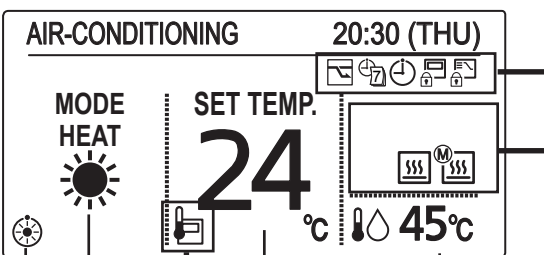
Icon	Description
	Switching operation modes is prohibited. (Switching to Auto mode is also prohibited.)
	Remote control operation is restricted by a central control device.
	[ON/OFF timer] is set.
	[Weekly timer] is set.
	Energy saving operation is in process.

Icon	Description
	Internal heater is active.
	Internal heater is abnormal.
	Internal heater is manually in process.
	Internal heater is not in process.
	Control to prevent water freezing is active.
	External device ready demand*1
	External device notice*2
	External pump is active.
	Water is under sterilization.

*1 When the heat capacity for Air-to-Water is insufficient, output signal is sent to the external device.

*2 When the notice is input from the external device, the icon appears on the wired remote controller.

Air-Conditioning mode



Operation mode

Set temperature

Water out temperature

The indoor unit is stopped or slight blow operation is in process.

Icon	Description
	It is able to set Water Out Temperature.
	It is able to set Room Temperature from thermo sensor (RC thermo or remote sensor thermo).
	Thermo sensor (RC thermo or remote sensor thermo) is abnormal.
	It is able to set Offset value of Heating Curve Function. (only heating mode)

Setting information icons displayed on the top screen

Icon	Description
	Switching operation modes is prohibited. (Switching to Auto mode is also prohibited.)
	Remote control operation is restricted by a central control device.
	[ON/OFF timer] is set.
	[Weekly timer] is set.
	Energy saving operation is in process.

Icon	Description
	Internal heater is active.
	Internal heater is abnormal.
	Internal heater is manually in process.
	Internal heater is not in process.
	Control to prevent water freezing is active.
	External pump is active.

Initial Settings

■ Clock ■ Clock type ■ Operation lock

When applying a power on for the first time, it is necessary to initialize the remote controller for Air-to-Water unit. Please refer to the installation instructions or consult the contractor.

1 Display the menu screen.

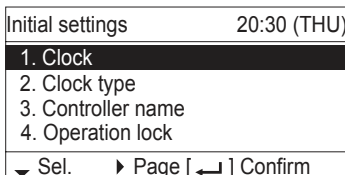
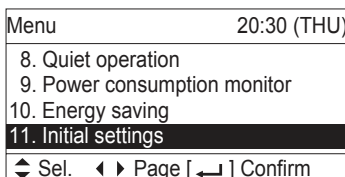


■ To return to the previous screen

Press .

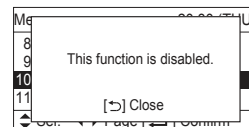
■ To return to the top screen

Press 2 times.



* The Air-to-Water function is not applicable to the feature list No.2, No.3, No.6, No.7, No.10, No.11 and No.12 at the Menu screen (in TANK mode and Air-Conditioning mode).

- 2. FLAP
- 3. Lock indiv. flap
- 6. Filter info
- 7. Outing function
- 10. Energy saving
- 11. Initial settings
 - Operation lock
 - Lock MODE (only TANK mode)
 - Lock FAN SPEED
 - Lock FLAP
 - Temp sensor
 - Main/sub
 - Vent output
- 12. Ventilation



2 Select [Initial settings].



3 Select the item to set.



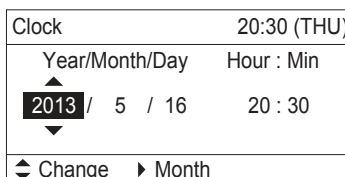
Clock

4 Set the date and time.



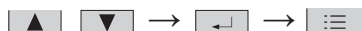
(Repeat)

(Press 2 times to finish.)

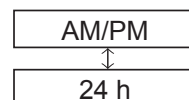
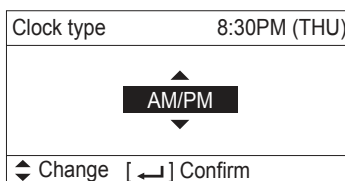


Clock type

4 Select the type to display.



(Press 2 times to finish.)



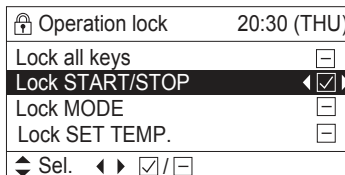
Operation lock

4 Select the type of lock and set to

.



(Press 2 times to finish.)

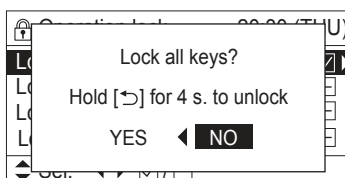


■ To cancel lock

Select [-] in step 4.

■ Only for [Lock all keys]

Select [YES].




ENGLISH



Operation

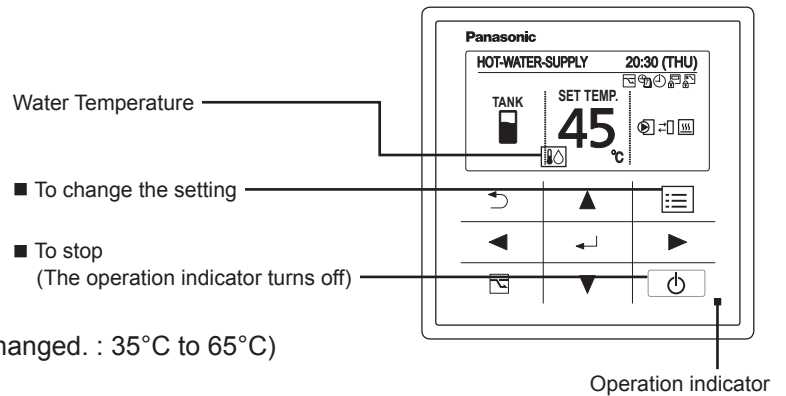
TANK mode

1 Start Operation

Press 
 (The operation indicator illuminates.)

2 Change the temperature setting

Press  
 (In TANK mode, only "SET TEMP." can be changed. : 35°C to 65°C)
 (The cursor disappears.)




Air-Conditioning mode

[Heating Curve Function] (Only heating mode)

Supply water temperature is adjusted automatically, according to outdoor temperature.
 Supply water temperature is able to adjust manually by changing offset value.

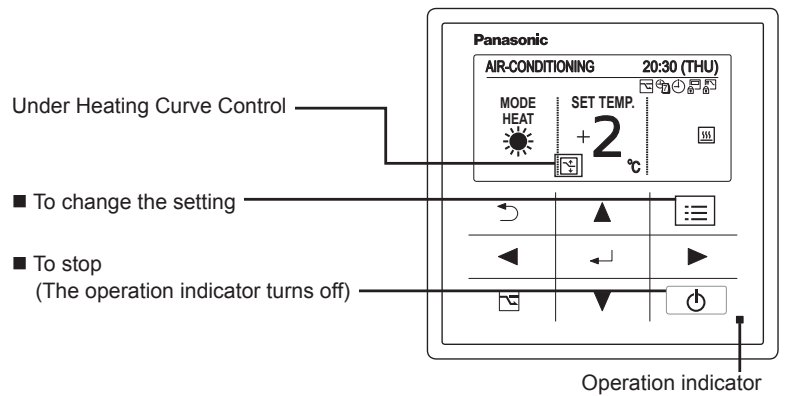
■ Case: With use of Heating Curve Function.

1 Start Operation


Press 
 (The operation indicator illuminates.)

2 Change the setting

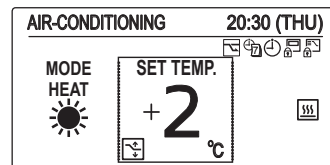
Press  



● Set temperature

Press 
 (When the cursor is not visible.)

Heat (With use of Heating Curve) : -5°C to +5°C (offset)




For cooling, see the note [Normal mode] below.

[Normal mode] With no use of Heating Curve Function.

Supply water temperature can be set.

■ Case: With no use of Heating Curve Function.

1 Start Operation

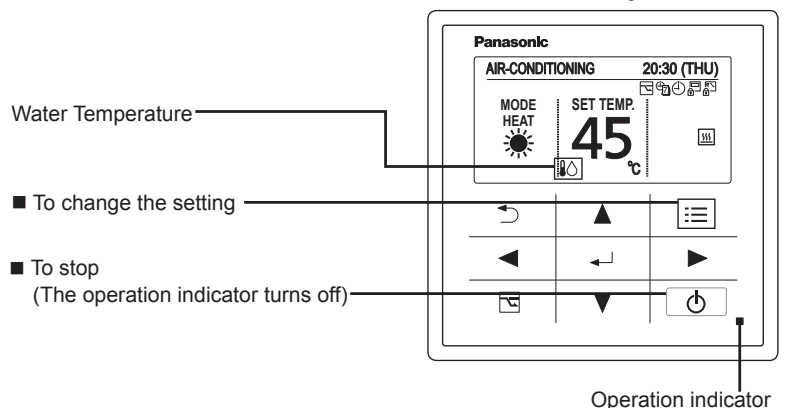
Press 
 (The operation indicator illuminates.)

2 Select the item to set

Press  

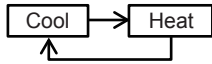
3 Change the setting

Press  



● **Operation mode (e.g. Cool, Heat)**

Press 



● **Set temperature**

Press 

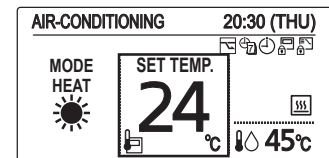
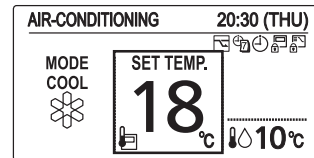
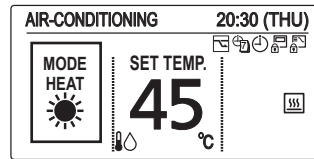
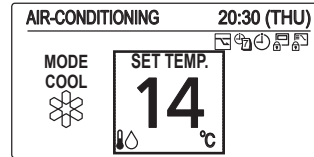
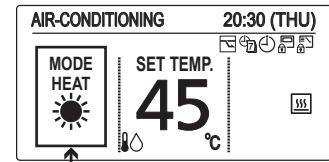
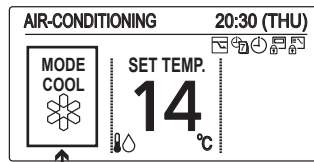
(When the cursor is not visible.)

Water temperature
Cool : 5°C to 20°C

Heat (With no use of Heating Curve) : 25°C to 45°C

Room temperature (With use of remote controller thermo)

Cool : 18°C to 30°C
Heat : 16°C to 30°C



NOTE

- Group control function cannot be used for the Air-to-Water unit.
 Be sure to confirm the individual remote controller connection is used for each Air-to-Water unit.
- If your heating appliance is a radiator or floor heating, dew may be condensed on the appliance during defrosting operation.
 In that case, turn on the Air-to-Water in heating mode to prevent condensation.

Operation Mechanism

■ **Heating Performance**

- Since this Air-to-Water utilizes outside air for heating, its heating performance deteriorates as outdoor temperature decreases. (Due to heat pump system) Information called "External device ready demand" is outputted from terminal of electrical component box.
 Use another heating appliance using this information, etc.
- It will take some time until the supplied water temperature becomes warmer after heating operation started.

■ **Defrosting**

- This appliance may start defrosting operation to melt frost form in the outdoor unit during long hour heating operation mode.
 The indoor unit including Air-to-Water will stop for about 5 to 10 minutes at this time.

■ **Heating Standby**

The remote controller shows "⊙" (Heating standby) on the display in the following mode and heating capacity will be limited.

- When operation started
- When Thermostat activated
- When defrosting

■ **When Heating Operation Started (Only 3WAY VRF)**

When changed to heating mode from stopped or cooling operation mode, the unit does not work for about 3 minutes for the sake of self-protection.
 It may take about 5 to 10 minutes until the hot water is delivered after starting the heating operation.

■ **Oil Recovery**

The water pump may run at a slow speed in order to recover the oil in the system every 1 to 3 hours during cooling or heating operation.
 The unit will automatically resume the original operation after about 5 to 10 minutes.

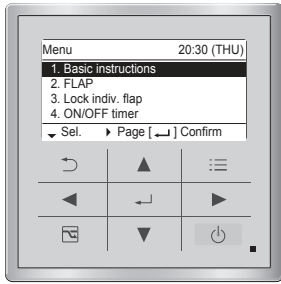
■ **Remote Control Sensor**

The temperature sensor in the Air-to-Water normally senses the water temperature and can also sense the ambient temperature of the remote controller. (room temperature)
 For the details, consult the shop you purchased.

■ **Should the power failure occurs while the unit is running**

When the unit automatically resumes operation after temporary power failure, it uses the same settings before the power was cut off.

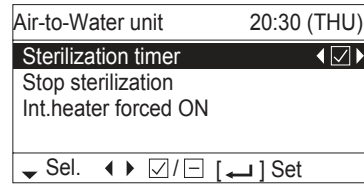
Function of Air-to-Water Unit



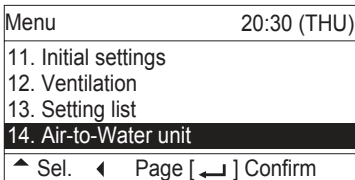
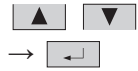
1 Display the menu screen.



• TANK mode



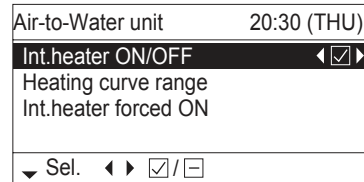
3 Select the item to set.



2 Select [14. Air-to-Water unit].



• Air-Conditioning mode

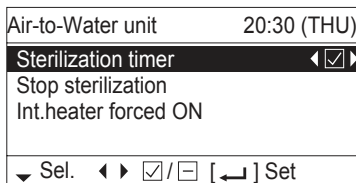


TANK mode

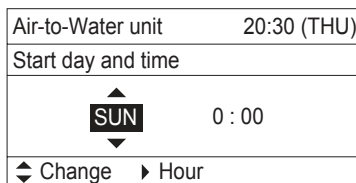
■ Sterilization timer

To prevent propagation of legionella bacterium in the tank, it is able to perform sterilization process once a week. While the sterilization process is performed, ☀ icon appears.

• Timer Setting



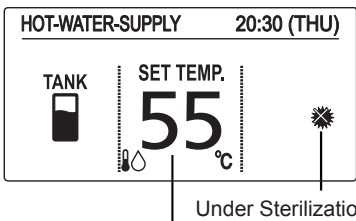
If “Sterilization timer” is enabled , the screen is switched to set the day of the week and time for sterilization process.



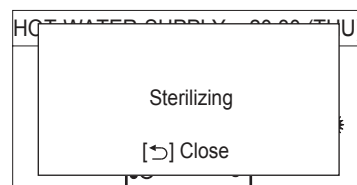
Set the day of the week and time for sterilization process.

Select the item by button and decide by button.

• Under Sterilization process



Under Sterilization



*Under sterilization, the set temperature cannot be changed.

Target water out temperature for sterilization (If the set temperature is higher than temperature for sterilization, the set temperature is displayed.)

* It takes a maximum of 4 hours to finish the sterilization process.

Caution: Be careful. Hot water may lead to a burn injury.

* It is recommended to set the time not to overlap with other timer such as weekly timer.

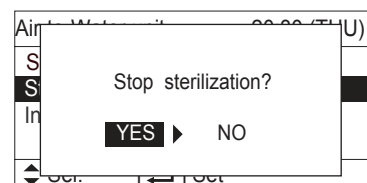
* In the centralized controller, the set temperature of normal operation is displayed even during sterilization.

Although it is able to change the set temperature or turn ON/OFF by the centralized controller, sterilization process will continue.

If the Air-to-Water unit is stopped by the centralized controller during sterilization process, the Air-to-Water unit will be stopped after sterilization process.


■ Stop sterilization

Under unavoidable circumstances, this function is enabled when the Air-to-Water unit must be stopped. The display on the right appears.



■ Int. heater forced ON


The internal heater of Air-to-Water unit can be turned ON manually.

When the internal heater is turned ON manually,  icon appears.

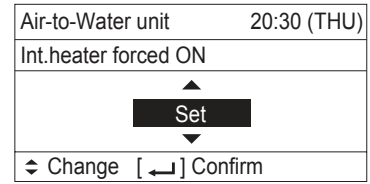
* This feature is for emergency operation when the outdoor unit has trouble.

Contact to service technician definitely before setting this function.

* Password will be required before setting this function.

Press ,  button and select "Set" for forced ON.


Press  button after checking the confirmation screen.



Air-Conditioning mode

■ Int. heater ON/OFF

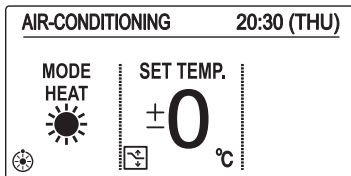
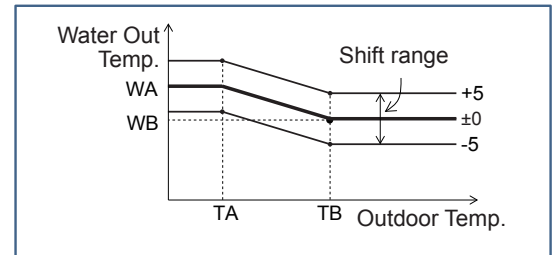
The internal heater of Air-to-Water unit can be disabled.

When the internal heater is disabled,  icon appears.

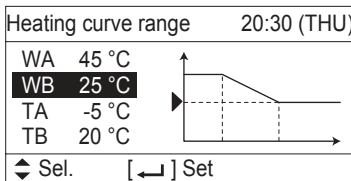
Press ,  button to switch ON/OFF.

■ Heating curve range



It is able to select Heating curve range to automatically adjust the water out temperature with the outdoor temperature.




The initial setting is "±0" as the set temperature. Water out temperature can be changed (shift) from '-5' to '+5' as the set temperature.

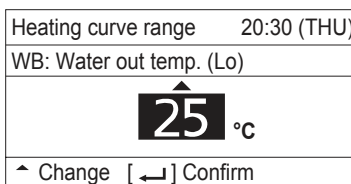


The Shape of Heating curve range is able to change at menu screen.

Select the temperature to change by ,  button.

Press  button, it is able to change the selected temperature.

Temperature range	
WA	25~45°C
WB	25~45°C
TA	-20~15°C
TB	15~25°C




The centralized controller displays the target water out temperature.

It is only displayed information. It is not able to change the target water out temperature by the centralized controller.

■ Int. heater forced ON

The internal heater of Air-to-Water unit can be turned ON manually.

When the internal heater is turned ON manually,  icon appears.

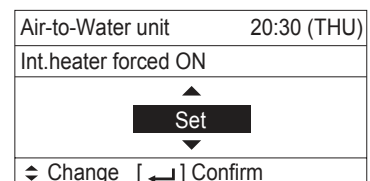
* This feature is for emergency operation when the outdoor unit has trouble.

Contact to service technician definitely before setting this function.

* Password will be required before setting this function.

Press ,  button and select "Set" for forced ON.

Press  button after checking the confirmation screen.



Maintenance

Do not attempt to clean inside the unit by yourself.

WARNING

- For safety, be sure to turn the Air-to-Water off and disconnect the power before cleaning. (Otherwise, electric shock or injury may result because the fan is rotating at high speed.)
- Do not pour water on the indoor unit excluding water circuit. (This may damage the internal components and cause an electric shock hazard.)


CAUTION

- Never use solvents or harsh chemicals. Also, do not wipe plastic parts using very hot water. (This may cause deformation or change in colour.)
- Some metal edges and fins are sharp. Be careful when you clean those parts. (Injury may result.)
- Use a firm stool or ladder when cleaning an indoor unit installed in high locations.

Before Requesting Services

Symptom	Cause	Action
The Air-to-Water unit does not operate although the power is turned on.	Power failure or after power failure	Press the power ON/OFF button on the remote controller.
	The operation (power) button is turned off.	<ul style="list-style-type: none"> • If the breaker is turned off, turn the power on. • If the breaker has been tripped, consult your dealer without turning it on.
	Fuse blow out.	Contact your dealer.
Poor cooling or heating performance	Water circuit of indoor unit is clogged with dust or obstacles.	Remove dust or obstruction.
	Water temperature is very cold (heating).	Preheat the water over 25°C. (operate only Air-to-Water unit)
	The air intake or air outlet of outdoor units is clogged with dust.	Remove the dust.
	Improper temperature settings	See "Tips for Energy Saving". (P.4)
	The room is exposed to direct sunlight in cooling mode.	
	Doors or windows are open.	
	Too many heat sources in cooling mode.	Use minimum heat sources and in a short time.
Too many people in the room in cooling mode.	Lower the temperature setting.	

If your Air-to-Water unit does not work properly even after checking each item of "Before Requesting Services" and "Troubleshooting"

- Stop the operation immediately and turn the power off. Then contact your dealer and report the serial number and symptom. You also report if the inspection mark  and the letters E, F, H, L, P in combination with numbers appear on the LCD of the remote controller.
- Never repair the Air-to-Water unit by yourself since it is very dangerous for you to do so.

Troubleshooting

Check before consulting or requesting services.

Symptom		Cause / Action
Indoor unit	Noise	<ul style="list-style-type: none"> • Sound like streaming water is heard during operation or after operation. • Sound of water flowing inside unit • Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
		Cracking noise is heard during operation or when operation stops.
	Dewdrops accumulate near bottom during cooling operation.	• Cold water accumulates dewdrop on the water piping.
Outdoor unit	No operation (When the power is turned on immediately / When operation is stopped and resumed immediately)	• Operation is not activated for the first approx. 3 minutes because the compressor protection circuit is activated.
	Noise occurs during heating operation.	• Defrost operation is in process.
	Steam comes out during heating operation.	
	The fan continues to rotate even after the operation is stopped using the remote controller.	• This is for smooth operation.

ENGLISH

■ Error code

Code		How to Release
E03	Remote controller communication error	Automatic
E04	Abnormal indoor/outdoor communication error	Automatic
F01	Abnormal refrigerant sensor 1 (E1)	Automatic
F02	Abnormal water outlet sensor 1 (E2)	Automatic
F03	Abnormal refrigerant sensor 2 (E3)	Automatic
F10	Abnormal water inlet sensor (TA)	Automatic
F11	Abnormal water outlet sensor 2 (BL)	Automatic
L13	Mismatched indoor unit	Reset (On and off of the power supply)
L16	Test run for water circuit is not finished	Do test run for water circuit
L25	Unmatched remote controller	Reset (On and off of the power supply)
P07	Abnormal Internal heater overload	Cancel from the remote controller
P09	Abnormal water flow	Re-run
P12	Abnormal water pump speed	Re-run