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Split Hydro Unit
AE090JNYDEH
AE090JNYDGH
AE160JNYDEH
AE160JNYDGH

# Air to Water Heat Pump -Split Hydro Unit

## user manual

imagine the possibilities

Thank you for purchasing this Samsung product.

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EN ES FR IT PT DE DB68-05130A-06

# Features of your Air to water heat pump

## Running Costs-Reduction of Up to 33.5 %

Samsung EHS, known for its world class efficiency (12 kW floor heating system with COP of 4.63), can reduce 33.5 % of your running costs as compared to a gas boiler.

## High Performance at Low Temperature

Samsung EHS is made up of an inverter compressor optimally operated according to the outdoor temperature, offering heating performance of 90 % at -10 ℃ and reliable frost protection at -25 ℃.

✻ At the temperature -25 ℃ ~ -20 ℃, operation is available but capacity cannot be guaranteed.

# Contents



***Correct Disposal of This Product***
***(Waste Electrical & Electronic Equipment)***

***(Applicable in countries with separate collection systems)***

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

For information on Samsung's environmental commitments and product specific regulatory obligations e.g. REACH visit: samsung.com/uk/aboutsamsung/samsungelectronics/corporatecitizenship/data_corner.html

# Safety precautions

Before using your new Air to Water Heat pump, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your Air to Water Heat pump may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

## Important safety symbols and precautions:

| | |
|---|---|
| ⚠ **WARNING** | Hazards or unsafe practices that may result in **severe personal injury or death.** |
| ⚠ **CAUTION** | Hazards or unsafe practices that may result in **minor personal injury or property damage.** |

| | |
|---|---|
|  | Follow directions. |
|  | Do NOT attempt. |
|  | Make sure the machine is grounded to prevent electric shock. |
|  | Unplug the power plug from the wall socket. |
|  | Do NOT disassemble. |

# Safety precautions

## FOR INSTALLATION | ⚠ WARNING

**Use the power line with the power specifications of the product or higher and use the power line for this appliance only. In addition, do not use an extension line.**

- ▶ Extending the power line may result in electric shock or fire.
- ▶ Do not use an electric transformer. It may result in electric shock or fire.
- ▶ If the voltage/frequency/rated current condition is different, it may cause fire.

**The installation of this appliance must be performed by a qualified technician or service company.**

- ▶ Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury.

**Install a switch and circuit breaker dedicated to the Air to Water Heat pump.**

- ▶ Failing to do so may result in electric shock or fire.

**Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.**

- ▶ Failing to do so may result in electric shock or fire.

**Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.**

- ▶ This may result in electric shock or fire.

**Never install the outdoor unit in a location such as on a high external wall where it could fall.**

- ▶ If the outdoor unit falls, it may result in injury, death or property damage.

**This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.**

- ▶ Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.
- ▶ Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.



## FOR INSTALLATION ⚠ CAUTION

**Install your appliance on a level and hard floor that can support its weight.**

- ▶ Failing to do so may result in abnormal vibrations, noise, or problems with the product.

**Install the draining hose properly so that water is drained correctly.**

- ▶ Failing to do so may result in water overflowing and property damage.

**When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.**

- ▶ The water generated during the heating operation by the outdoor unit may overflow and result in property damage. In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

## Safety precautions

▶ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units'components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

**Do not disassemble and alter the heater at your own discretion.**

**FOR POWER SUPPLY** | **⚠ WARNING**

**When the circuit breaker is damaged, contact your nearest service center.**

**Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.**

▶ This may result in electric shock or fire.

**FOR POWER SUPPLY** | **⚠ CAUTION**

**When not using the Air to Water Heat pump for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.**

▶ Failing to do so may result in electric shock or fire.

**If the appliance is flooded, please contact your nearest service center.**

▶ Failing to do so may result in electric shock or fire.

**If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service center.**

▶ Failing to do so may result in electric shock or fire.

**In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line. Do not touch the appliance or power line.**

▶ Do not use a ventilating fan.

▶ A spark may result in an explosion or fire.

**To reinstall the Air to Water Heat pump, please contact your nearest service center.**

▶ Failing to do so may result in problems with the product, water leakage, electric shock, or fire.

▶ A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.

▶ Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.

## Safety precautions

**Do not touch the circuit breaker with wet hands.**

▶ This may result in electric shock.

**Do not turn the Air to Water Heat pump off with the circuit breaker while it is operating.**

▶ Turning the Air to Water Heat pump off and then on again with the circuit breaker may cause a spark and result in electric shock or fire.

**After unpacking the Air to Water Heat pump, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.**

▶ If a child places a bag over its head, it may result in suffocation.

**Do not insert your fingers or foreign substances into the outlet when the Air to Water Heat pump is operating.**

▶ Take special care that children do not injure themselves by inserting their fingers into the product.

**Do not insert your fingers or foreign substances into the air inlet/ outlet of the Air to Water Heat pump.**

▶ Take special care that children do not injure themselves by inserting their fingers into the product.

**Do not strike or pull the Air to Water Heat pump with excessive force.**

▶ This may result in fire, injury, or problems with the product.

**Do not place an object near the outdoor unit that allows children to climb onto the machine.**

▶ This may result in children seriously injuring themselves.

**Do not use this Air to Water Heat pump for long periods of time in badly ventilated locations or near infirm people.**

▶ Since this may be dangerous due to a lack of oxygen, Open a window at least once an hour.

**If any foreign substance such as water has entered the appliance, cut the power by unplugging the power plug and turning the circuit breaker off and then contact your nearest service center.**

▶ Failing to do so may result in electric shock or fire.

**Do not attempt to repair, disassemble, or modify the appliance yourself.**

▶ Do not use any fuse (such as cooper, steel wire, etc.)other than the standard fuse.

▶ Failing to do so may result in electric shock, fire, problems with the product, or injury.



## FOR USING ⚠ CAUTION

**Check that the installation frame of the outdoor unit is not broken at least once a year.**

▶ Failing to do so may result in injury, death or property damage.

**Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.**

**Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**

▶ This may result in electric shock, fire, problems with the product, or injury.

**Do not operate the appliance with wet hands.**

▶ This may result in electric shock.

**Do not spray volatile material such as insecticide onto the surface of the appliance.**

▶ As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

**Do not drink the water from the Air to Water Heat pump.**

▶ The water may be harmful to humans.

**Do not apply a strong impact to the remote controller and do not disassemble the remote controller.**

**Do not touch the pipes connected with the product.**

▶ This may result in burns or injury.

**Do not use this Air to Water Heat pump to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.**

▶ This may result in property damage.

**Avoid directly exposing humans, animals or plants from the air flow from the Air to Water Heat pump for long periods of time.**

▶ This may result in harm to humans, animals or plants.

**This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

**For use in Europe : 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. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.**

## FOR CLEANING | ⚠ WARNING

**Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner or alcohol to clean the appliance.**

- ▶ This may result in discoloration, deformation, damage, electric shock or fire.

**Before cleaning or performing maintenance, unplug the Air to Water Heat pump from the wall socket and wait until the fan stops.**

- ▶ Failing to do so may result in electric shock or fire.

## FOR CLEANING | ⚠ CAUTION

**Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**

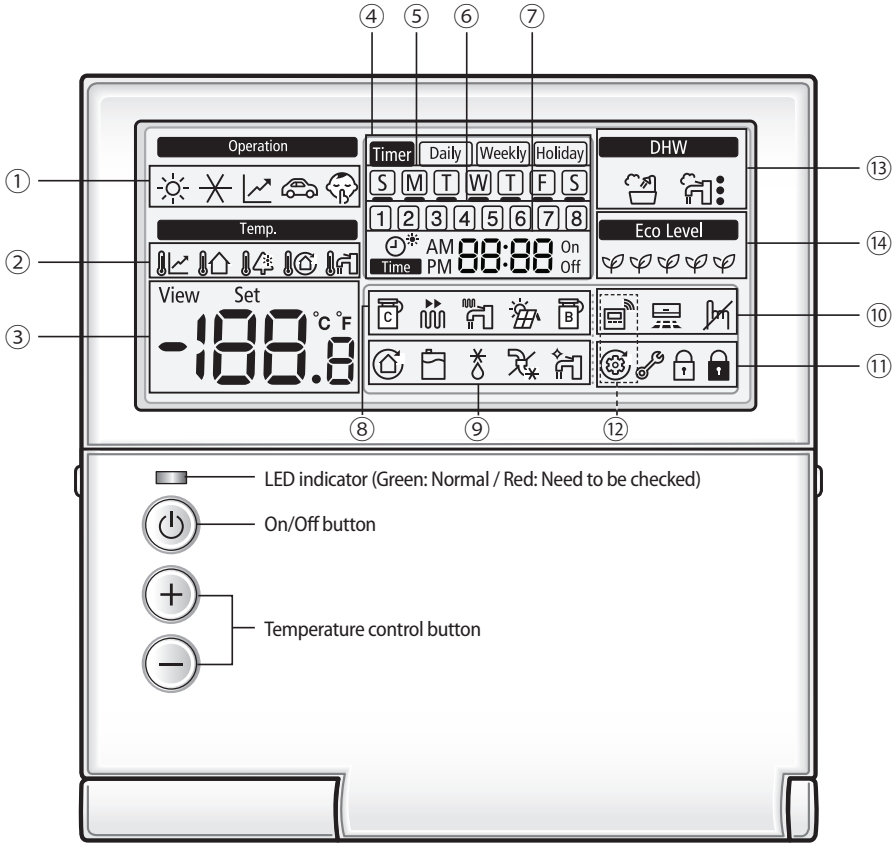
- ▶ To avoid cutting your fingers, wear thick cotton gloves when cleaning it.

**Do not clean the inside of the Air to Water Heat pump by yourself.**

- ▶ For cleaning inside the appliance, contact your nearest service center.
- ▶ When cleaning the internal filter, refer to the descriptions in the 'Cleaning the Air to Water Heat pump' section.
- ▶ Failure to do may result in damage, electric shock or fire.

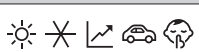
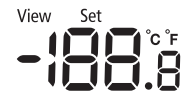
# Description of each icon

## Display



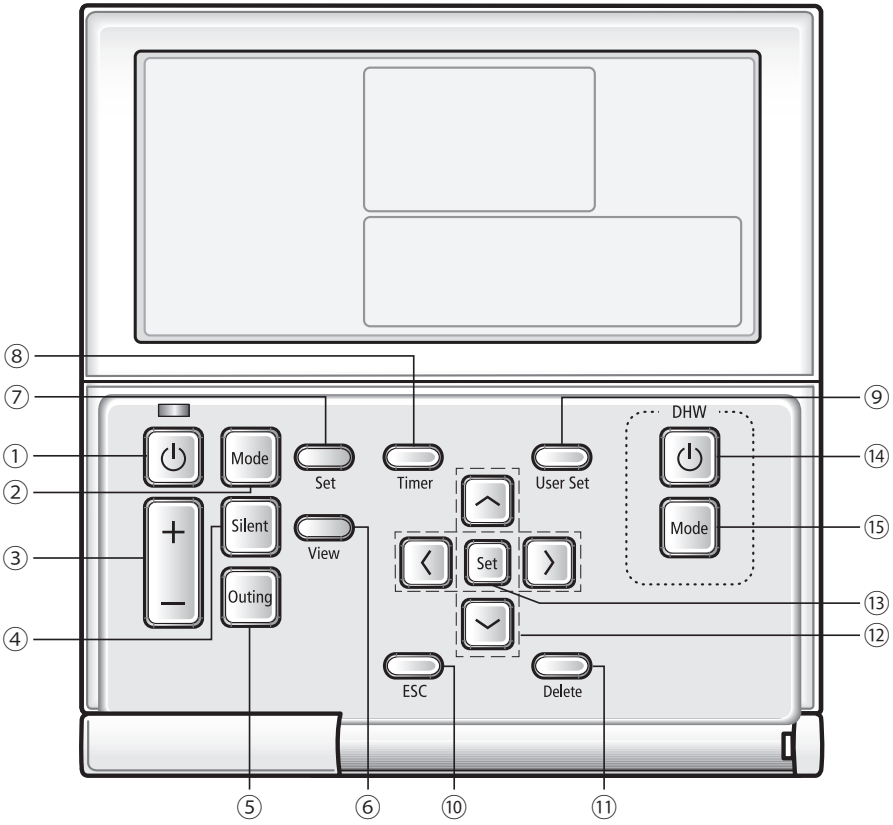

NOTE

- Without opening the cover of your wired remote controller, you can turn Hydro unit on or off or set the desired temperature.

| Classification | | Indication | Function |
|---|---|---|---|
| Hydro unit | ① |  | Hydro unit operation (heat/cool/auto/outing/silent) |
| | ② |  | System temperature (water Law temp./indoor temp./ outdoor temp./discharge water temp./hot water temp.) |
| | ③ |   | Temperature (current/desired) |
| Timer | ④ |   | Timer (Daily/Weekly/Holiday) |
| | ⑤ |   | Current day or timer function |
| | ⑥ |   | Timer number |
| | ⑦ |   | Current time/summer time/ On or Off time |
| General function | ⑧ |   | Operation status (COMP operation/Back up heater/Booster heater/Solar/Back up boiler) |
| | ⑨ |  | Operation status (water pump/water tank/defrost operation/freezing control/water tank sterilization operation) |
| | ⑩ |  | Indoor thermostat installation(connection) status/air to air operation/no function |
| | ⑪ |  | Trial operation/check/partial lock/all lock |
| | ⑫ |  | Centralized control |
| Hot water mode(DHW) | ⑬ |   | DHW (economic/standard/power/forced) |
| ECO level information | ⑭ |   | ECO level operation (Step 1~5) |

# Description of each control

## Buttons



| Classification | | Button | Function |
|---|---|---|---|
| Basic operation button | ① |  | Turn Hydro unit on or off |
| | ② |  | Select operation mode (Cool/Heat/Auto) |
| | ③ |  | Select desired temperature (discharge water/indoor/hot water) |
| | ④ |  | Outdoor unit silent operation mode |
| | ⑤ |  | Select outing mode |
| | ⑥ |  | Check current temperature of the system |
| | ⑦ |  | Set desired temperature of the system |
| | ⑧ |  | Select timer setting mode |
| | ⑨ |  | Select user setting mode |
| | ⑩ |  | Exit to normal mode when setting timer or detailed setting |
| | ⑪ |  | Delete a set timer |
| | ⑫ |  | Move to another section or change section value. |
| | ⑬ |  | Save settings |
| Hot water function button (DHW) | ⑭ |  | Turn hot water mode on or off |
| | ⑮ |  | Select hot water mode (economic/standard/power/forced) |

NOTE

- When pressing a button that is not supported by your model, will be displayed.

# Operating basic mode of Hydro unit

Operate basic mode by pressing the [Mode] button.

## Water Law

Hydro unit will automatically adjust the temperature of discharge water with auto mode for indoor heating.

NOTE

- When "Water Law" is active, the target supply water temperature will be determined automatically depending on the outdoor temperature: For heating mode, colder outdoor temperatures will result in warmer water.

## Cool

You can adjust cooling temperature as you like with cool mode to cool indoor place.

► When selecting the heat mode during the cool mode, the cool mode will be canceled.

## Heat

Floor heating is available with heat mode by providing hot water in the spring, autumn and winter.

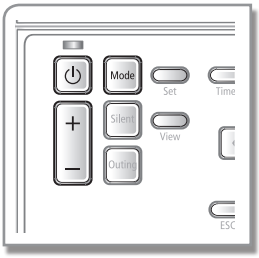
► Frost removal indicator ( )

- The frost removal indication will be displayed when the frost formed around the outdoor unit starts being removed during the heat mode and then the indication will disappear when the frost removal is finished. (When frost is being removed, hot water does not come out from Hydro unit.)

► When selecting cool mode during the heat mode, heat mode will be canceled.

NOTE

- When setting standard cooling & heating temperature as indoor temperature, auto mode cannot be selected.




**Start Hydro unit operation by pressing the button.**

**Select the mode you want to operate by pressing the button.**

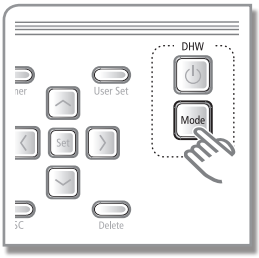

**Adjust desired temperature by pressing the button.**

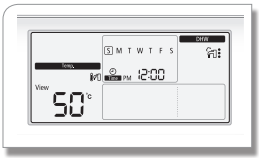
| | |
|---|---|
| **Temperature of cooling discharge water** | You can adjust the desired temperature by 0.5 °C. |
| **Indoor cooling temperature** | You can adjust the desired temperature by 0.5 °C. |
| **Temperature of heating discharge water** | You can adjust the desired temperature by 0.5 °C. |
| **Indoor heating temperature** | You can adjust the desired temperature by 0.5 °C. |

# DHW mode of Hydro unit

You can adjust temperature of hot water tank by providing hot water.

**Press the Mode button in DHW.**




▶ Select (economic), (standard), and (power), (forced) by pressing the **Mode** button in DHW section.

NOTE

- To operate hot water mode, you need to set the hot water function 'Yes' in the field specification setting mode(#3011) of wired remote controller and connect the temperature sensor of hot water tank.
- When cool/heat mode and DHW mode are selected at the same time, the heat/cool mode and DHW mode will operate alternately.
- (power) for DHW mode cannot be used when the Booster heater is not in use.

❋ Forced DHW mode

- If you want to enjoy a leisurely bath or need a lot of warm water urgently, select the Forced DHW mode.
- When this mode is enabled, it is assured that the full capacity of the heat pump is only delivered for domestic water heating.

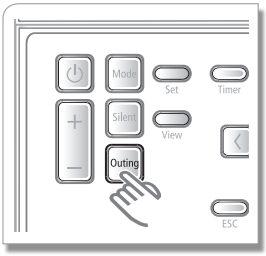
CAUTION

- By default field setting value option, this function will not be turned off automatically.
- If you want a Forced DHW function for a certain amount of duration time, change the field setting value of remote controller.

# Outing mode

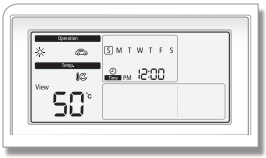
Heating can operate at low temperature while you are out with outing mode.

**Select outing mode by pressing the Outing button.**




▶ will be displayed and outing mode will operate.

**Cancel** Press any button on the remote controller.



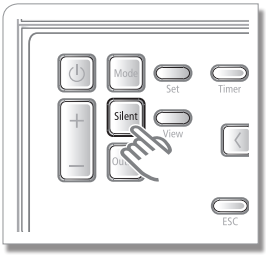

NOTE

- When pressing the **Outing** button while Hydro unit stops its operation, indication will appear.

# Silent mode

Noise from operation can be reduced with the Silent mode.

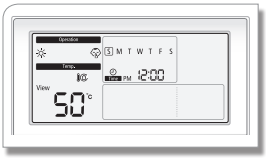
**Press the Silent button to operate the Silent mode.**




▶ will be displayed and Silent mode will operate.

▶ Current set temperature will be maintained.

**Cancel** Press the **Silent** button once again.



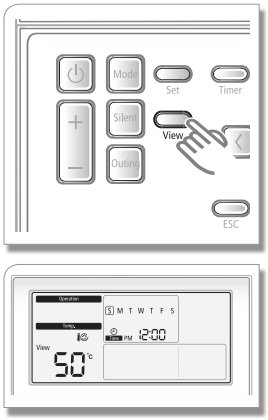

NOTE

- If you press the **Silent** button while the unit is not in operation, will be displayed.
- If the Silent mode operates by outdoor unit external contact, will be displayed but **Silent** button on the wired remote controller will not work. If you press the **Silent** button on the wired remote controller, will be displayed.
- In Silent mode, the capacity of the product may be less than rated capacity.

# Checking current temperature

You can check current temperature.

**Check the current temperature by pressing the View button.**

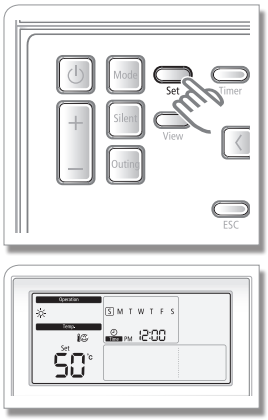



- Current temperature can be checked in order of (indoor) → (outdoor) → (discharge water) → (hot water)by pressing the **View** button.
- The temperature which a connected indoor unit does not support will not be displayed.
- After 10 seconds from current temperature display, the set desired temperature will appear.

# Checking set temperature

You can check the set temperature of current operation mode by the set temperature check function.

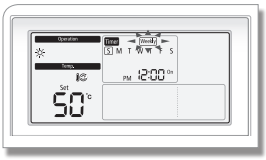
**Check the set temperature by pressing the Set button.**




- The set temperature of basic operation mode and hot water mode can be checked by pressing the **Set** button repeatedly.
- When either basic operation mode or hot water mode is in operation, the set temperature of the mode in operation will be displayed.

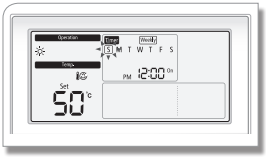
# Setting weekly timer

You can operate or stop a desired mode on the day and time you reserve.



1. **Press the Timer button.**

▶ (Timer) will be displayed and then select 'Weekly' among 'Daily', 'Weekly', or 'Holiday' by pressing the [∧]/[∨] button.

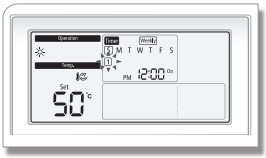


2. **After pressing the [>] button, select the 'Day' you want to reserve.**

▶ Select the day you want to reserve (Sun~Sat) by pressing the [∧]/[∨] button.

NOTE

- You can set multiple timers by selecting multiple days and when multiple timers are set, you will move on to the time setting for the timer.



3. **Select 'Timer number' by pressing the [>] button until timer number is displayed. (When entering, the last available number for timer setting is set.)**

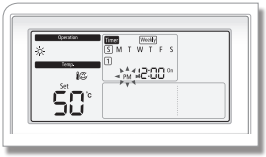
▶ The timer already set is assigned with number in time sequence order.

▶ You can select timer number(1~8) by pressing the [∧]/[∨] button.

▶ If there is no timer, the edge of the box for the timer number and the timer number will blink.

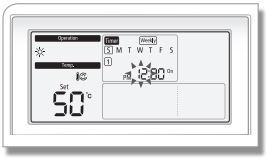
NOTE

- If the timer is already set, the square box surrounding the timer number will blink. If you want to change it, select the set timer number and change it.



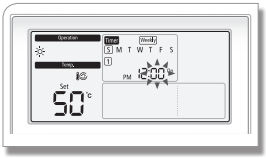
4. **After pressing the [>] button, select 'AM/PM'.**

▶ You can select AM or PM by pressing the [∧]/[∨] button.



5. **After pressing the [>] button, select 'Hour'.**

▶ You can set hour by pressing the [∧]/[∨] button.

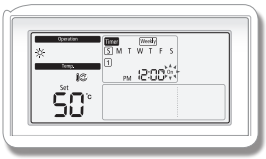


6. **After pressing the [>] button, select 'Minute'.**

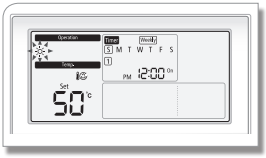
▶ You can select minute by pressing the [∧]/[∨] button.

NOTE

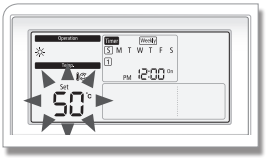
- If the time setting is set as 24 hours a day, AM/PM setting will be omitted.



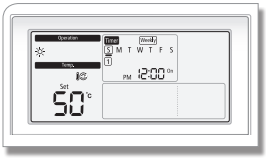
7. **After pressing the [＞] button, select 'On/Off' timer.**
   - ▶ You can select On or Off by repeatedly pressing the **[∧]/[∨]** button.
   - ▶ When selecting 'Off', follow 10 or 11.



8. **After pressing the [＞] button, select the operation mode.**
   - ▶ It is available only for setting Hydro unit On timer.
   - ▶ You can set operation mode by pressing the **[∧]/[∨]** or **Mode** button.



9. **After pressing the [＞] button, select the desired temperature.**
   - ▶ It is available only for setting Hydro unit On timer.
   - ▶ You can adjust temperature by 0.5 ℃ unit by pressing the **[∧]/[∨]** or **[+]/[-]** button.



10. **Complete timer function by pressing the Set button.**
    - ▶ The reserved day will be displayed with '_' and be saved in 3 seconds.
      [e.g. When Monday is reserved ( M )]
    - ▶ When additional timer is needed, re-select the setting from daily timer or weekly timer.

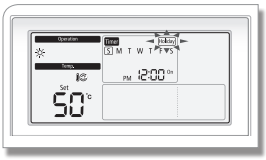
11. **Press the ESC button to exit normal mode.**

NOTE

- When canceling the setting during the weekly timer setting, press the **ESC** button to exit.

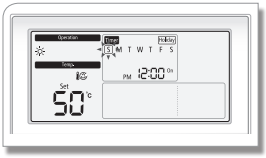
# Setting a holiday with weekly timer

You can set a holiday with the weekly timer. The set weekly timer will not function when holiday setting is applied.



1. **Press the Timer button.**

▶ (Timer) is displayed and then select 'Holiday' among 'Daily', 'Weekly', or 'Holiday' by pressing the [∧]/[∨] button.

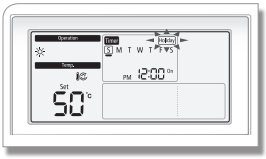


2. **After pressing the [>] button, select the 'day' you will set as holiday.**

▶ You can select the holiday (Sun~Sat) by pressing the [∧]/[∨] button.

NOTE

- Multiple settings are available by selecting many days.



3. **Complete the holiday setting with the weekly timer by pressing the Set button.**

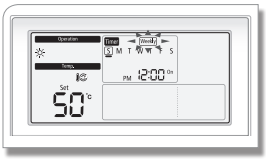
4. **Press the ESC button to exit normal mode.**

NOTE

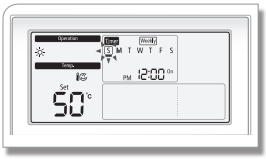
- If you want to cancel your holiday with the weekly timer while you are setting them, press the **ESC** button.
- The weekly timer indicator '_' of the dates set as holidays will disappear on the display.

# Canceling a weekly timer

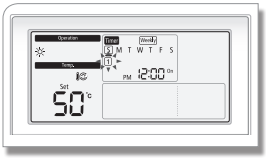
You can cancel weekly timer function.



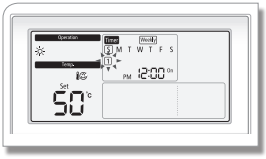
1. **Press the Timer button.**
▶ (Timer) is displayed and (Weekly) will blink.



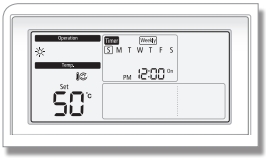
2. **After pressing the [>] button, select the 'Day' you want to cancel.**
▶ Select a reserved day by pressing the **[∧]/[∨]** button.



3. **After pressing the [>] button, select a 'timer number' to cancel.**
▶ Select a timer number(1~8) by pressing the **[∧]/[∨]** button.
▶ The square box around the selected number will blink.



4. **Cancel the weekly timer setting by pressing the Delete button.**
▶ The canceled weekly timer number and the box for the number will blink.

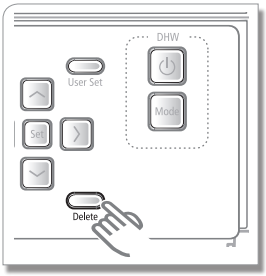


5. **Save the weekly timer cancel setting by pressing the Set button.**

6. **Press the ESC button to exit to general mode.**

# Initializing a weekly timer

You can initialize all the weekly timer set with the wired remote controller.



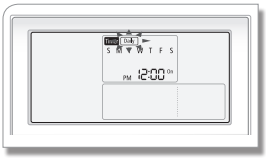

1. **Press the Delete button for 5 seconds.**
▶ All the weekly timer settings will be deleted.

NOTE

- You can't restore your old settings after deleting the weekly timer by pressing the **Delete** button, so be careful when you use this function.

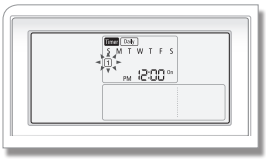
# Setting daily timer

Hydro unit can operate or stop at the time you reserve every day. (Silent mode and DHW mode can be reserved.) The reservation time for Silent mode and DHW mode should be different.



1. **Press the Timer button.**

▶ (Timer) will be displayed and then select 'Daily' among 'Daily', 'Weekly', or 'Holiday' by pressing the **[∧]/[∨]** button.



2. **Select 'timer number' until the timer number is displayed by pressing the [>] button. (When entering, the last available number for timer setting is set.)**

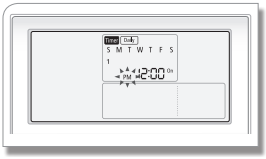
▶ The timer already set is assigned with number in time sequence order.

▶ You can select timer number(1~8) by pressing the **[∧]/[∨]** button.

▶ If there is no timer, the edge of the box for the timer number and the timer number will blink.

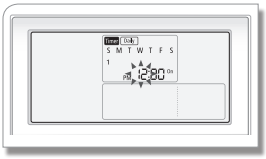
NOTE

- If the timer is already set, then the square box surrounding the timer number will blink. If you want to change it, then select a timer number and change it.



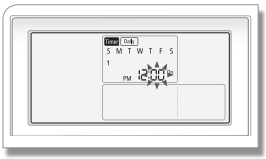
3. **After pressing the [>] button, select 'AM/PM'.**

▶ You can select AM or PM by pressing the **[∧]/[∨]** button.



4. **After pressing the [>] button, select 'Hour'.**

▶ You can select hour by pressing the **[∧]/[∨]** button.

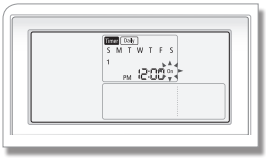


5. **After pressing the [>] button, select 'Minute'.**

▶ You can select minute by pressing the **[∧]/[∨]** button.

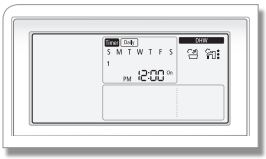
NOTE

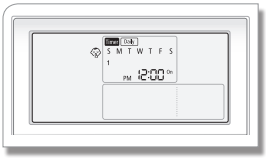
- If the time setting is set as 24 hours a day, AM/PM setting is omitted.



6. **After pressing the [>] button, select 'On/Off' timer.**

▶ You can select On or Off by repeatedly pressing the **[∧]/[∨]** button.

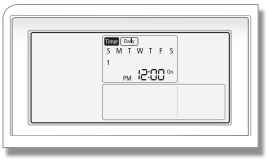



7. **After pressing the [>] button, select the reservation for DHW mode or Silent mode. Press the up or down button to select the DHW or Silent mode.**

NOTE

- You cannot use timer function for hot water mode(economic/standard/ power) when you select the use of hot water function as no use in the field specification setting with installation of an wired remote controller or when DHW thermostat is used (FSV Code: 3061 is set as "2".)
- When the use of booster heater has selection 'no use' in the field specification setting with the installation of a wired remote controller, you cannot use timer function for power hot water mode(DHW).




8. **Complete timer function by pressing the Set button.**

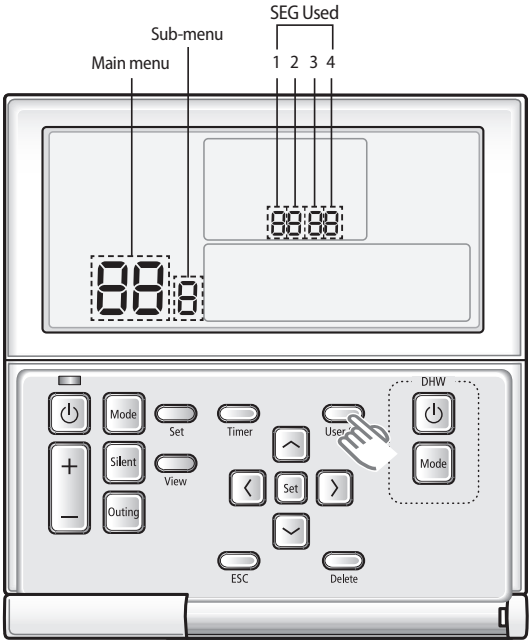
▶ When additional timer is needed, re-select the setting from daily timer or weekly timer.

9. **Press the ESC button to exit normal mode.**

NOTE

- If you want to cancel daily timer while you are setting them, press the **ESC** button.

# How to set the detailed setting (User setting mode)




1. **If you want to enter the user set mode, press the User set button.**

► You will enter the User Set mode, and the 'main menu' will be displayed.

2. **Refer to the Wired Remote Controller's User Set list on the next page to select the desired menu.**

► By using the [∧]/[∨] buttons, select a main menu number and press the [>] button to enter the sub-menu setting screen.

► By using the [∧]/[∨] buttons, select a sub-menu number and press the [>] button to enter the data setting screen.

► Once you have entered the setting screen, the current setting value will be displayed.

► Refer to the chart for data setting.

► By using the [∧]/[∨] buttons, change the setting value and press the [>] button to move to the next setting value.

► Press the **Set** button to save the setting value and exit to the sub-menu setting screen.

► Press the **ESC** button to exit to general mode.

NOTE

- While setting the data, you can use the [<]/[>] buttons to move the range of SEG used.
- While configuring the setting, if you press the **ESC** button to exit, you will move to the sub-menu setting screen without saving the setting value.
- If you don't press any button for more than 3 minutes, general mode will appear.
- If you don't use summer time, you don't need to set year/month/day.

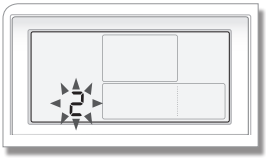
## User setting mode

| Main menu | Sub-menu | Function | | SEG number | Default | Range | Unit |
|---|---|---|---|---|---|---|---|
| 1 | 1 | All lock | | 1 | 0 | 0-Unlock, 1-Lock | - |
| | 2 | Partial key lock | Operation On/Off key lock | 1 | 0 | 0-Unlock, 1-Lock | |
| | | | Operation selection key lock | 2 | 0 | 0-Unlock, 1-Lock | |
| | | | Temperature setting key lock | 3 | 0 | 0-Unlock, 1-Lock | |
| | | | Timer setting key lock | 4 | 0 | 0-Unlock, 1-Lock | |
| 2 *1) | 1 | Current time setting(year) | | 12/34 | 20** | 2000~2099 | Year |
| | 2 | Current time setting(month/date) | | 12/34 | **/** | 1~12/1~31 | Month, Date |
| | 3 | Current time setting (day/hour/minute) | | Day, AM/PM, 24, 12/34 | (*,*,*/*) | Sun~Sat/ AM~PM/ 0~12/0~60 | Day, hour, minute |
| 3 | 1 | Summer time use and setting methods | Use of summer time (Y/N) | 1 | 0 | 0- Disuse 1- Use | - |
| | | Summer time application method | Summer time application method | 2 | 0 | 0- Weekly 1- Daily | - |
| | 2 | Summer time use (weekly) Start (? month, ? th Sunday) | | 12, 4 | 03, F | Jan~Dec month 1~4, F(last week) th week | - |
| | 3 | Summer time use (weekly) End (? month, ? th Sunday) | | 12, 4 | 10, F | Jan~Dec month 1~4, F(last week) th week | - |
| | 4 | Summer time use (daily) Start (? month, ? date) | | 12, 34 | 0322 | Jan~Dec / 1~31st day | Month, date |
| | 5 | Summer time use (daily) End (? month, ? date) | | 12, 34 | 0922 | Jan~Dec / 1~31st day | Month, date |
| 4 | | Backlight time Setting/Checking | | 12 | 5 | 0~30 sec. | 1 sec |
| | | Use of LED(Green) (Y/N) | | 3 | 1 | 0- Disuse 1- Use | |
| | | Use of LED (Red) (Y/N) | | 4 | 1 | 0- Disuse 1- Use | |
| 0 | | Reset to user mode defaults (except the current time) | | 1 | 0 | 0- Disuse 1- Reset | |

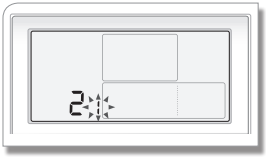
*1) Arbitrary value can be displayed.

# How to set the detailed setting (User setting mode)

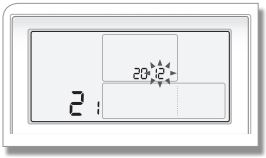
## Setting current time (example)



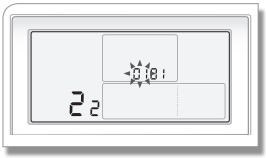
1. **Press the User Set button.**
   ▶ 'Main Menu' will be displayed and current time can be set by pressing the [∧]/[∨] buttons and selecting No.2.



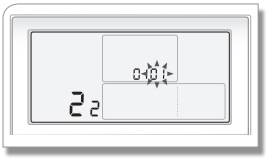
2. **Select the number to set 'year, month, date' in sub-menu by pressing the [>] button.**
   ▶ You can select 'year, month and date' by pressing the [∧]/[∨] buttons and selecting No.1.



3. **Select the 'year' you want to set by pressing the [>] button.**
   ▶ You can select 'year(2000~2099)' by pressing the [∧]/[∨] buttons.



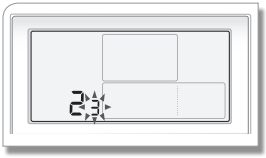
4. **Select the 'month' you want to set by pressing the [>] button.**
   ▶ You can select 'month(01~12)' by pressing the [∧]/[∨] button.



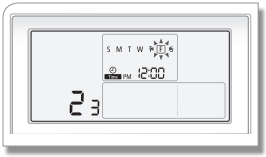
5. **Select the 'date' you want to set by pressing the [>] button.**
   ▶ You can select 'Date(01~31)' by pressing the [∧]/[∨] button.

6. **Complete the setting for 'year, month, and date' by pressing the Set button.**
   ▶ The setting value will be applied and you can exit to the sub-menu.

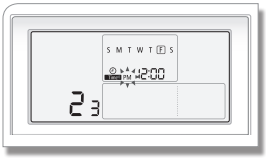
NOTE
- When not using the summer time function, you don't need to set "Year", "Month" and "Day".



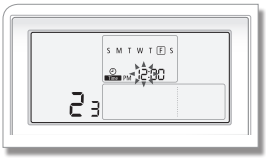
7. **Select 'day, AM/PM, hour, and minute' in the 'sub-menu'.**
   ▶ You can set 'day, AM/PM, hour, and minute' by pressing the [∧]/[∨] buttons and selecting No.3.



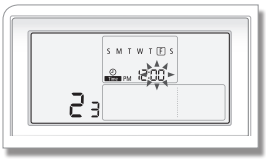
8. **Select the 'day' you want to set by pressing the [>] button.**
   ▶ You can select 'Day(Sun~Sat)' by pressing the [∧]/[∨] buttons.



9. **Select the 'AM/PM' you want to set by pressing the [>] button.**
   ▶ You can select 'AM/PM/ AM & PM' by pressing the [∧]/[∨] buttons. 'AM & PM' is 24 hours a day setting mode.



10. **Select the 'Hour' you want to set by pressing the [>] button.**
    ▶ You can select 'Hour(01~12)' by pressing the [∧]/[∨] buttons. When it is 24 hours a day setting mode, 0~23 setting is available.



11. **Select the 'Minute' you want to set by pressing the [>] button.**
    ▶ You can select 'Minute(00~59)' by pressing the [∧]/[∨] buttons.

12. **Complete the current time setting by pressing the Set button.**
    ▶ The setting value will be applied and you can exit to the sub-menu.

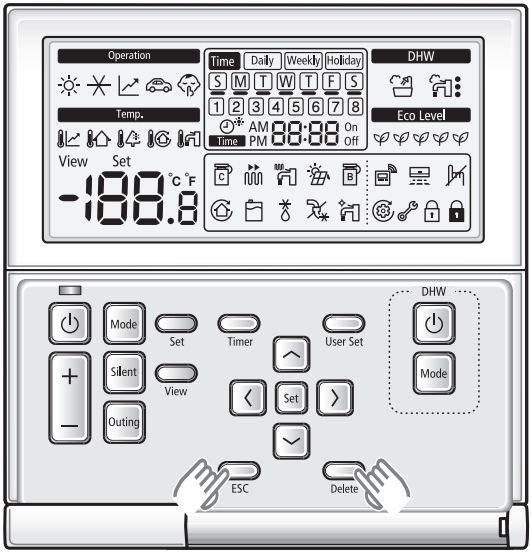
13. **Whenever you press the ESC button, you will exit to general mode from sub-menu.**

# Wired remote controller installation

## Initializing your wired remote controller communication

1. **Press the Esc and Delete buttons at the same time for more than 5 seconds.**

► The communication of your wired remote controller will be initialized, and the device will search for the Hydro unit connected to your wired remote controller again.




## Error display on the wired remote controller

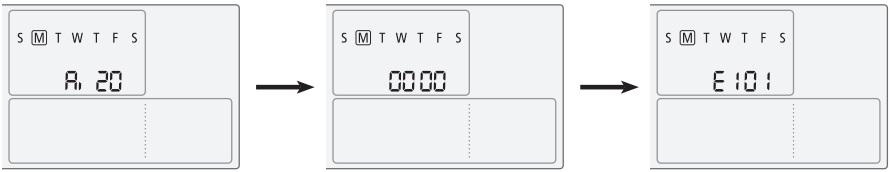
✻ The address of Hydro unit is displayed "200000"

► Error codes for the wired remote controller and the product connected to your wired remote controller will be displayed in the LCD display.

**Error indications are displayed as seen below.**

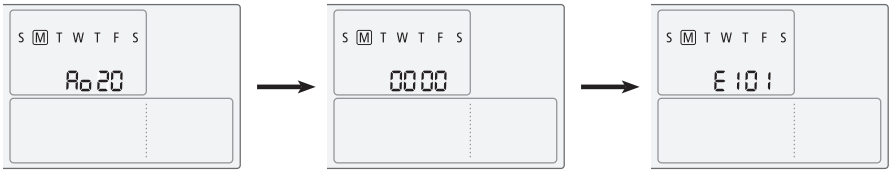
1) Hydro unit error

► The address of Error, "Ai" and the error code will be displayed alternately on the remote controller display.



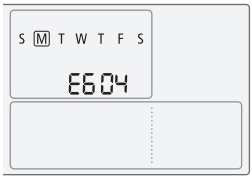
2) Outdoor unit error

▶ The address of Error, "Ao" and error code will be displayed alternately on the remote controller display.



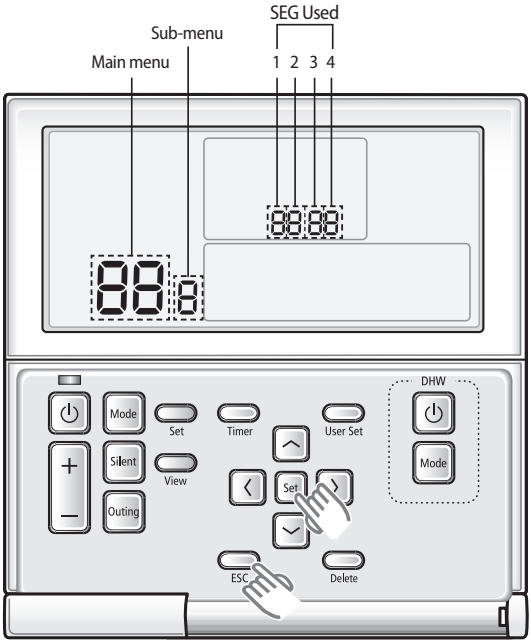

3) Wired remote controller error

▶ The error code will blink at 0.5 second interval on the remote controller display and the address of error will not be displayed.



# Use of wired remote controller installation / service mode

## Use of installation/service mode




1. **If you want to use the installation/service mode for your wired remote controller, press the Set and ESC buttons at the same time for more than 3 seconds.**

► You will enter the installation/service settings, and the 'main menu' will be displayed.

2. **Refer to the list of installation / service setting mode for your wired remote controller on the next page, and select the desired menu.**

► Using the [∧]/[∨] buttons, select a main menu number and press the [>] button to enter the sub-menu setting screen.

► Using the [∧]/[∨] buttons, select a sub-menu number and press the [>] button to enter data setting screen.

► When you enter the setting stage, the current setting value will be displayed.

► Refer to the chart for data settings.

► Using the [∧]/[∨] buttons, change the setting value. Press the [>] button to move to the next setting value.

► Press the **Set** button to save the setting value and exit to the sub-menu setting screen.

► Press the **ESC** button to exit to normal mode.

NOTE

- When setting the data, you can move SEG range with [<]/[>] buttons.
- While configuring the setting, press the **ESC** button to exit to the sub-menu setting screen without saving your changes.
- When you don't enter any buttons for more than 3 minutes, you will be back to normal mode.

## Installation/Service mode

NOTE

- 'NONE' will be displayed for the menu that setting modes don't support. In some cases, the setting may not be possible or it may not be applied though it is set on the unit.
- If communication initialization is needed after saving the setting, the system will reset automatically and communication will be initialized.

| Main Menu | Sub Menu | Function | | SEG number | Default | Range | Unit |
|---|---|---|---|---|---|---|---|
| 1 | 1 | Wired remote controller's option function set / Check 1 | Cooling support Y / N | 1 | 0 | 0 – Both cooling & heating<br>1 – Heating Only | - |
| | | | Selecting the standard temperature of cooling and heating | 2 | 0 | 0-Water Outlet temperature<br>1-Indoor temperature | - |
| | | | Selecting a standard sensor of indoor temperature | 3 | 0 | 0-Temperature sensor of wired remote controller 1-External temperature sensor | - |
| | | | Selecting Master/Slave | 4 | 0 | 0-Master, 1-Slave | - |
| | 2 | Wired remotecontroller's option function set / Check 2 | Checking current sensor temperature value | 123 | 0 | -9~40˚C | - |
| | 3 | | Setting compensation temperature value | 123 | 0 | -9.9~9.9˚C | 0.1 ˚C |
| | 4 | Checking the number of connected devices | The number of connected device | 1,2 | 0 | 0~16 | 1 |
| | 5 | Setting desired temperature unit (Available only when the temperature display is °C) | | 1 | 1 | 0-1˚C, 1-0.5˚C, 2-0.1˚C | - |
| | 0 | Reset to option setting default value of wiredremote controller | | 1 | 0 | 0-Disuse, 1-Reset | - |
| 2 | 1 | Checking Micom code of wired remote controller | | 1234, 4 | - | Micom code | - |
| | 2 | Checking version information of wired remote controller | | 1234, 34 | - | Revision date | - |
| 3 *1) | 1 | Setting Hydro unit option | Hydro unit address Set/ Check | 1234 | - | *2) | |
| | 2 | | Basic Option Set/Check | 1234, 12 | - | Option code | |
| | 3 | | Install Option Set/Check | 1234, 12 | - | Option code | |
| | 4 | | Install(2) Option Set/Check | 1234, 12 | - | Option code | |
| 4 | 1 | View Master Set/ Check | Hydro unit View Master Set/ Check | 1234, 34 | - | Address | |
| | 2 | Master Hydro unit Set/Check | Check the Master Hydro unit address | 1234, 34 | - | Address | |
| | 3 | | Master Hydro unit Set | 1 | - | 0-Disuse, 1-Use, 2-Reset | |
| 0 | 1 | Reset | Wired remote controller factory Reset | 1 | 0 | 0-Disuse, 1-Reset | - |
| | 2 | | Power Master Reset | 1 | 0 | 0-Disuse, 1-Reset | - |
| | 3 | | Addressing Reset(Outdoor unit Reset) | 1 | 0 | 0-Disuse, 1-Reset | - |

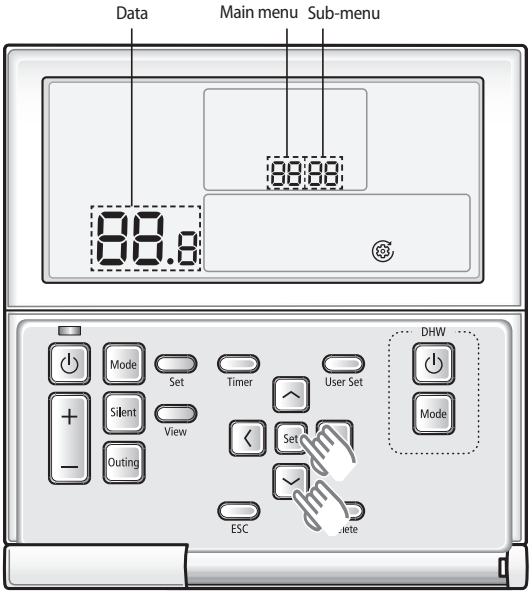
*1) When entering the main menu 3, set and check the unit address and then move to the sub menu.
The unit address will be displayed by blinking SEG 34 (Device ID) and SEG 1234 (Control Layer, Set Layer address).

*2) 1. Reservation No. 1 display, Main address setting and checking: Range of current main address (SEG 1, 2) and main address setting: 0x00 ~ 0x4F (hexadecimal)

2. Reservation No. 2 display, Group address setting and checking: Range of current group address (SEG 1, 2) and group address setting: 0x00 ~ 0xFE (hexadecimal)

# Field specification setting mode of wired remote controller

## Use of field specification setting mode




1. **If you want to use the field specification setting mode for your wired remote controller, press the Set and [∨] buttons at the same time for more than 3 seconds.**

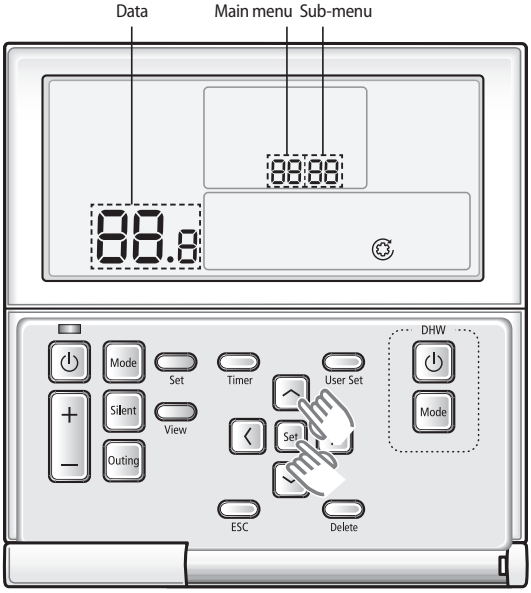
2. **Refer to the list of field specification for your wired remote controller on the next page, and select the desired menu.**

- ► Using the **[∧]/[∨]** buttons, select a main menu number and press the **[>]** button to enter the sub-menu setting screen.
- ► Using the **[∧]/[∨]** buttons, select a sub-menu number and press the **[>]** button to enter data setting screen.
- ► When you enter the setting stage, the current setting value will be displayed.
- ► Refer to the chart for data settings.
- ► Using the **[∧]/[∨]** buttons, change the setting value and press the Set button to save the setting value. Setting value will be displayed when it is saved.
- ► Press the **[<]** button to move previous setting value.
- ► While configuring the sub manu setting, press the **ESC** button to exit to normal menu.

NOTE

- While configuring the setting, press the **ESC** button to exit to the sub-menu setting screen without saving your changes.
- When you don't enter any buttons for more than 3 minutes, you will be back to normal mode.

## Use of field specification checking mode




1. **If you want to use the field specification checking mode for your wired remote controller, press the Set and [∧] buttons at the same time for more than 3 seconds.**

2. **Refer to the list of field specification for your wired remote controller on the next page, and select the desired menu.**

- ▶ Using the [∧]/[∨] buttons, select a main menu number and press the [>] button to enter the sub-menu checking screen.
- ▶ Using the [∧]/[∨] buttons, select a sub-menu number and press the [>] button to enter data checking screen.
- ▶ When you enter the checking stage, the current setting value will be displayed.
- ▶ Press the [<] button to move previous setting value.
- ▶ While configuring the sub manu setting, press the ESC button to exit to normal menu.

NOTE
- While configuring the checking, press the ESC button to exit to the sub-menu setting screen.
- When you don't enter any buttons for more than 3 minutes, you will be back to normal mode.

# Field setting mode

## Field Setting Value (FSV) Table

NOTE

- Reset the power after changing the Field Setting Value.

- Code 10✳✳ : Upper and lower temperature limits of each operation mode of wired remote controller Heating(Water Out, Room), Cooling(Water Out, Room), DHW(Tank)
- Code 20✳✳ : Water law design and external room thermostat Heating(2 WL's for floor & FCU), Cooling(2 WL's for floor & FCU), WL & Thermostat types

| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| Remote Controller Setting Range Code 10✳✳ | Water Out Temp for Cooling | Max | ✳✳11 | 25 | 18 | 25 | 1 | ℃ |
| | | Min | ✳✳12 | 16 | 5 | 18 | 1 | ℃ |
| | Room Temp for Cooling | Max | ✳✳21 | 30 | 28 | 30 | 1 | ℃ |
| | | Min | ✳✳22 | 18 | 18 | 28 | 1 | ℃ |
| | Water Out Temp for Heating | Max | ✳✳31 | 55 | 37 | 55 | 1 | ℃ |
| | | Min | ✳✳32 | 25 | 15 | 37 | 1 | ℃ |
| | Room Temp for heating | Max | ✳✳41 | 30 | 18 | 30 | 1 | ℃ |
| | | Min | ✳✳42 | 16 | 16 | 18 | 1 | ℃ |
| | DHW Tank Temp | Max | ✳✳51 | 50 | 50 | 70 | 1 | ℃ |
| | | Min | ✳✳52 | 40 | 30 | 40 | 1 | ℃ |
| Water Law Code 20✳✳ | Outdoor Temp for Water Law (Heating) | Point ① | ✳✳11 | -10 | -20 | 5 | 1 | ℃ |
| | | Point ② | ✳✳12 | 15 | 10 | 20 | 1 | ℃ |
| | Water Out Temp for WL1 Heating (WL1-Floor) | Point ① | ✳✳21 | 40 | 17 | 55 | 1 | ℃ |
| | | Point ② | ✳✳22 | 25 | 17 | 55 | 1 | ℃ |
| | Water Out Temp for WL2 Heating (WL2-Fan Coil Unit) | Point ① | ✳✳31 | 50 | 17 | 55 | 1 | ℃ |
| | | Point ② | ✳✳32 | 35 | 17 | 55 | 1 | ℃ |
| | Heating Water Law for Auto Mode | WL Type | ✳✳41 | 1(WL1) | 1 | 2 | - | - |
| | Outdoor Temp for Water Law (Cooling) | Point ① | ✳✳51 | 30 | 25 | 35 | 1 | ℃ |
| | | Point ② | ✳✳52 | 40 | 35 | 45 | 1 | ℃ |
| | Water Out Temp for WL1 Cooling (WL1-Floor) | Point ① | ✳✳61 | 25 | 5 | 25 | 1 | ℃ |
| | | Point ② | ✳✳62 | 18 | 5 | 25 | 1 | ℃ |
| | Water Out Temp for WL2 Cooling (WL2-Fan Coil Unit) | Point ① | ✳✳71 | 18 | 5 | 25 | 1 | ℃ |
| | | Point ② | ✳✳72 | 5 | 5 | 25 | 1 | ℃ |
| | Cooling Water Law for Auto Mode | WL Type | ✳✳81 | 1(WL1) | 1 | 2 | - | - |
| | External Thermostat Application | #1(Floor) | ✳✳91 | 0(No) | 0 | 2 | 1 | - |
| | | #2(FCU) | ✳✳92 | 0(No) | 0 | 2 | 1 | - |

- Code 30✳✳ : User's options for domestic hot water(DHW) tank heating
  - 3011 : Application of DHW tank in user's system
  - 302✳ : Heat pump variables for tank temp. control and combination with booster heater
  - 303✳ : Booster heater variables for combination with heat pump
  - 304✳ : Periodical disinfection heating of water tank
  - 305✳ : Off timer for power DHW mode by Forced DHW of wired remote controller
  - 3061 : "1"Combination of external field solar panel for with heat pump for DHW heating
    "2"Application of DHW Tank thermostat in user's system
  - 307✳ : Default direction of the DHW valve or Zone #1, #2 valve
    When the 3way valve is applied to DHW Valve terminal block instead of 2way valve, default direction is Space Heating (Room)

| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| DHW Code 30✳✳ | Domestic Hot Water Tank | Application | ✳✳11 | 0(No) | 0 | 1(Yes) | - | - |
| | Heat Pump | Max Temp | ✳✳21 | 50 | 45 | 50 | 1 | ˚C |
| | | Stop | ✳✳22 | 2 | 2 | 10 | 1 | ˚C |
| | | Start | ✳✳23 | 5 | 5 | 20 | 1 | ˚C |
| | | Min. Space heating operation time | ✳✳24 | 5 | 1 | 20 | 1 | min |
| | | Max. DHW operation time | ✳✳25 | 30 | 5 | 95 | 5 | min |
| | | Max. Space heating operation time | ✳✳26 | 3 | 0.5 | 10 | 0.5 | hour |
| | Booster Heater | Application | ✳✳31 | 1(On) | 0(Off) | 1 | - | - |
| | | Delay Time | ✳✳32 | 20 | 20 | 95 | 5 | min |
| | | Overshoot | ✳✳33 | 0 | 0 | 4 | 1 | ˚C |
| | | Compensation Temp | ✳✳34 | 10 | 0 | 20 | 1 | ˚C |
| | Disinfection | Application | ✳✳41 | 1(On) | 0(Off) | 1 | - | - |
| | | Interval | ✳✳42 | Fri(5) | Sun(0) | All(7) | 1 | day |
| | | Start Time | ✳✳43 | 23 | 0 | 23 | 1 | o'clock |
| | | Target Temp | ✳✳44 | 70 | 40 | 70 | 5 | ˚C |
| | | Duration | ✳✳45 | 10 | 5 | 60 | 5 | min |
| | | Max time | ✳✳46 | 8 | 1 | 24 | 1 | hour |
| | Forced DHW operation | Timer OFF Function | ✳✳51 | 0(No) | 0 | 1(Yes) | - | - |
| | | Timer Duration | ✳✳52 | 6 | 3 | 30 | 1 | (x10) min |
| | Solar Panel/DHW Thermostat | H/P Combination | ✳✳61 | 0(No) | 0 | 2 | 1 | - |
| | Direction of DHW valve | DHW Tank | ✳✳71 | 0(Room) | 0 | 1(Tank) | - | - |

# Field setting mode

- Code 40✳✳ : User's options for heating devices including internal backup heater and external boiler
  - 401✳ : Space/DHW heating priority and control variables
  - 402✳ : Backup/Booster heater priority and control variables
  - 403✳ : Additional backup boiler operating variables
- Code 50✳✳ : User's options for extra functions
  - 501✳ : New target temperatures of each mode by "Outgoing" hot key of remote controller
  - 5021 : Temperature difference between before & after values in "Economic" DHW mode
  - 504✳ : Power Peak control for Smart Grid

| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| Heating Code 40✳✳ | Heat Pump | Heating/DHW Priority | ✳✳11 | 0(DHW) | 0 | 1(Heating) | - | - |
| | | Outdoor Temp for Priority | ✳✳12 | 0 | -15 | 20 | 1 | ˚C |
| | | Heating Off | ✳✳13 | 35 | 14 | 35 | 1 | ˚C |
| | | Overshoot | ✳✳14 | 2 | 1 | 4 | 1 | ˚C |
| | Backup Heater | Application | ✳✳21 | 0(No) | 0 | 1(Yes) | - | - |
| | | BUH/BSH Priority | ✳✳22 | 0(Both) | 0 | 2(BSH) | 1 | - |
| | | Cold weather compensation | ✳✳23 | 1(Yes) | 0(No) | 1 | - | - |
| | | Threshold Temp | ✳✳24 | 0 | -15 | 35 | 1 | ˚C |
| | | Defrost Backup Temp. | ✳✳25 | 15 | 10 | 55 | 5 | ˚C |
| | Backup Boiler | Application | ✳✳31 | 0(No) | 0 | 1(Yes) | - | - |
| | | Boiler Priority | ✳✳32 | 0(No) | 0 | 1(Yes) | - | - |
| | | Threshold Temp | ✳✳33 | -15 | -20 | 5 | 1 | ˚C |
| | Mixing valve | Application | ✳✳41 | 0(No) | 0 | 2 | 1 | - |
| | | Target ΔT(Heating) | ✳✳42 | 10 | 5 | 15 | 1 | ˚C |
| | | Target ΔT(Cooling) | ✳✳43 | 10 | 5 | 15 | 1 | ˚C |
| | | Control factor | ✳✳44 | 2 | 1 | 5 | 1 | - |
| | | Control interval | ✳✳45 | 2 | 1 | 30 | 1 | min |
| | | Running Time | ✳✳46 | 9 | 6 | 24 | 3 | (x10) sec |
| | Inverter Pump | Application | ✳✳51 | 1(Yes) | 0 | 1(Yes) | - | - |
| | | Target ΔT | ✳✳52 | 5 | 2 | 8 | 1 | ˚C |
| | | Control factor | ✳✳53 | 2 | 1 | 3 | 1 | - |
| Others Code 50✳✳ | Outing | Water Out Temp for Cooling | ✳✳11 | 25 | 5 | 25 | 1 | ˚C |
| | | Room Temp for Cooling | ✳✳12 | 30 | 18 | 30 | 1 | ˚C |
| | | Water Out Temp for Heating | ✳✳13 | 15 | 15 | 55 | 1 | ˚C |
| | | Room Temp for Heating | ✳✳14 | 16 | 16 | 30 | 1 | ˚C |
| | | Auto Cooling WL1 Temp | ✳✳15 | 25 | 5 | 25 | 1 | ˚C |
| | | Auto Cooling WL2 Temp | ✳✳16 | 25 | 5 | 25 | 1 | ˚C |
| | | Auto Heating WL1 Temp | ✳✳17 | 15 | 15 | 55 | 1 | ˚C |
| | | Auto Heating WL2 Temp | ✳✳18 | 15 | 15 | 55 | 1 | ˚C |
| | | Target Tank Temp | ✳✳19 | 30 | 30 | 70 | 1 | ˚C |
| | DHW Saving Mode | Temp Difference | ✳✳21 | 5 | 0 | 40 | 1 | ˚C |
| | Power Peak Control | Application | ✳✳41 | 0(No) | 0 | 1(Yes) | - | - |
| | | Select forced off parts | ✳✳42 | 0(All) | 0 | 3 | 1 | - |
| | | Using input voltage | ✳✳43 | 1(High) | 0(Low) | 1 | - | - |
| | Frequency Ratio Control | | ✳✳51 | 0(No) | 0 | 1(Yes) | - | - |

• Code 5042

| [D-00] | Compressor | Back up heater | Booster heater |
|---|---|---|---|
| 0 (Default) | Permitted | Forced off | Permitted |
| 1 | Permitted | Forced off | Forced off |
| 2 | Forced off | Forced off | Permitted |
| 3 | Forced off | Forced off | Forced off |



## Remote Controller Setting Range : Code 10✳✳

| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| Remote Controller Setting Range Code 10✳✳ | Water Out Temp for Cooling | Max | ✳✳11 | 25 | 18 | 25 | 1 | ˚C |
| | | Min | ✳✳12 | 16 | 5 | 18 | 1 | ˚C |
| | Room Temp for Cooling | Max | ✳✳21 | 30 | 28 | 30 | 1 | ˚C |
| | | Min | ✳✳22 | 18 | 18 | 28 | 1 | ˚C |
| | Water Out Temp for Heating | Max | ✳✳31 | 55 | 37 | 55 | 1 | ˚C |
| | | Min | ✳✳32 | 25 | 15 | 37 | 1 | ˚C |
| | Room Temp for heating | Max | ✳✳41 | 30 | 18 | 30 | 1 | ˚C |
| | | Min | ✳✳42 | 16 | 16 | 18 | 1 | ˚C |
| | DHW Tank Temp | Max | ✳✳51 | 50 | 50 | 70 | 1 | ˚C |
| | | Min | ✳✳52 | 40 | 30 | 40 | 1 | ˚C |

**Space Cooling**

• Target water outlet temperature : Upper limit(#1011, Default 25ºC, Range : 18 ~ 25ºC),
Lower limit(#1012, Default 16ºC, Range : 5 ~ 18ºC)
- With this default FSV settings, user can change the target water outlet temperature within the range of 5 ~ 25ºC for cooling

• Target room temperature : Upper limit(#1021, Default 30ºC), Lower limit(#1022, Default 18ºC)
- With this default FSV settings, user can change the target room temperature within the range of 18 ~ 30ºC for cooling.

### Space Heating

• Target water outlet temperature : Upper limit(#1031, Default 55ºC, Range : 37 ~ 55ºC),
Lower limit(#1032, Default 25ºC, Range : 15 ~ 37ºC)
- With this default FSV settings, user can change the target water outlet temperature within the range of 25 ~ 55ºC for heating.

• Target room temperature : Upper limit(#1041, Default 30ºC), Lower limit(#1042, Default 16ºC)
- With this default FSV settings, user can change the target room temperature within the range of 16 ~ 30ºC for heating.

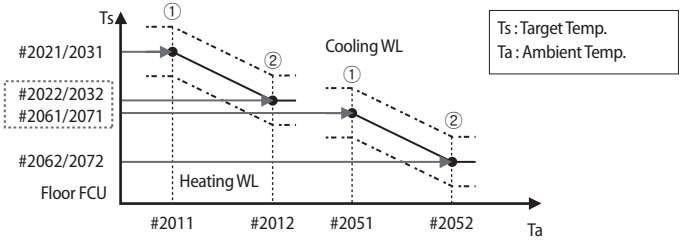
### DHW Heating

• Target DHW tank temperature : Upper limit(#1051, Default 50ºC, Range : 50 ~ 70ºC),
Lower limit(#1052, Default 40ºC, Range : 30 ~ 40ºC)
- With this default FSV settings, user can change the target tank temperature within the range of 40 ~ 50ºC for DHW heating.

NOTE
• The FSV #3011 in the wired remote controller should be set to "1(Yes)" to use DHW function.

# Field setting mode

## Water Law & Room Thermostat : Code 20✳✳




| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| Water Law Code 20✳✳ | Outdoor Temp for Water Law (Heating) | Point ① | ✳✳11 | -10 | -20 | 5 | 1 | ˚C |
| | | Point ② | ✳✳12 | 15 | 10 | 20 | 1 | ˚C |
| | Water Out Temp for WL1 Heating (WL1-Floor) | Point ① | ✳✳21 | 40 | 17 | 55 | 1 | ˚C |
| | | Point ② | ✳✳22 | 25 | 17 | 55 | 1 | ˚C |
| | Water Out Temp for WL2 Heating (WL2-Fan Coil Unit) | Point ① | ✳✳31 | 50 | 17 | 55 | 1 | ˚C |
| | | Point ② | ✳✳32 | 35 | 17 | 55 | 1 | ˚C |
| | Heating Water Law for Auto Mode | WL Type | ✳✳41 | 1(WL1) | 1 | 2 | - | - |
| | Outdoor Temp for Water Law (Cooling) | Point ① | ✳✳51 | 30 | 25 | 35 | 1 | ˚C |
| | | Point ② | ✳✳52 | 40 | 35 | 45 | 1 | ˚C |
| | Water Out Temp for WL1 Cooling (WL1-Floor) | Point ① | ✳✳61 | 25 | 5 | 25 | 1 | ˚C |
| | | Point ② | ✳✳62 | 18 | 5 | 25 | 1 | ˚C |
| | Water Out Temp for WL2 Cooling (WL2-Fan Coil Unit) | Point ① | ✳✳71 | 18 | 5 | 25 | 1 | ˚C |
| | | Point ② | ✳✳72 | 5 | 5 | 25 | 1 | ˚C |
| | Cooling Water Law for Auto Mode | WL Type | ✳✳81 | 1(WL1) | 1 | 2 | - | - |
| | External Thermostat Application | #1(Floor) | ✳✳91 | 0(No) | 0 | 2 | 1 | - |
| | | #2(FCU) | ✳✳92 | 0(No) | 0 | 2 | 1 | - |

**Water Law for Heating**

- Outdoor air temperature range : Lower limit ①(#2011, Default -10˚C, Range : -20 ~ 5˚C),
  Upper limit ②(#2012, Default 15˚C, Range : 10 ~ 20˚C)
  - With this default settings, the water outlet temperature by heating water law can be changed within the outdoor temperature range of -10 ~ 15˚C.
- Water out temperature range for floor/FCU applications respectively :
  Upper limit ①(#2021/2031, Default 40/50˚C, Range : 17 ~ 55˚C),
  Lower limit ②(#2022/2032, Default 25/35˚C, Range : 17 ~ 55˚C)
  - With this default settings, the water outlet temperature by heating water law can be changed within the range of 25/35 ~ 40/50˚C.
- Type of water law for according to heating devices(floor/FCU) : #2041(Default "1"(WL1 for floor)), "2"(WL2 for FCU or radiator)

**Water Law for Cooling**

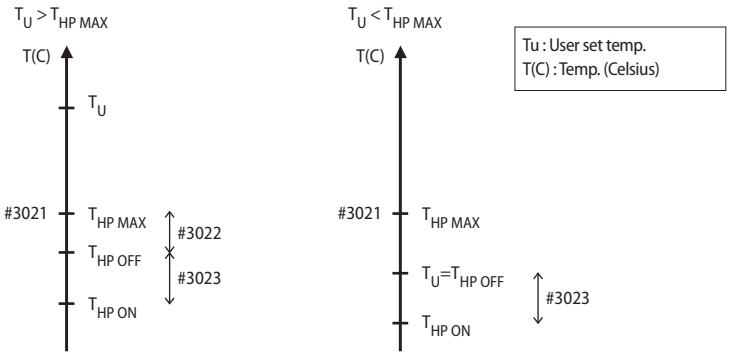
- Outdoor air temperature range : Lower limit ①(#2051, Default 30˚C, Range : 25 ~ 35˚C),
  Upper limit ②(#2052, Default 40˚C, Range : 35 ~ 45˚C)
  - With this default settings, the water outlet temperature by cooling water law can be changed within the outdoor temperature range of 30 ~ 40˚C.
- Water out temperature range for floor/FCU applications respectively :
  Upper limit ①(#2061/2071, Default 25/18˚C), Lower limit ②(#2062/2072, Default 18/5˚C)
  - With this default settings, the water outlet temperature by cooling water law can be changed within the range of 5/18 ~ 18/25˚C.
- Type of water law for according to cooling devices(floor/FCU) : #2081(Default "1"(WL1 for floor), "2"(WL2 for FCU or radiator)

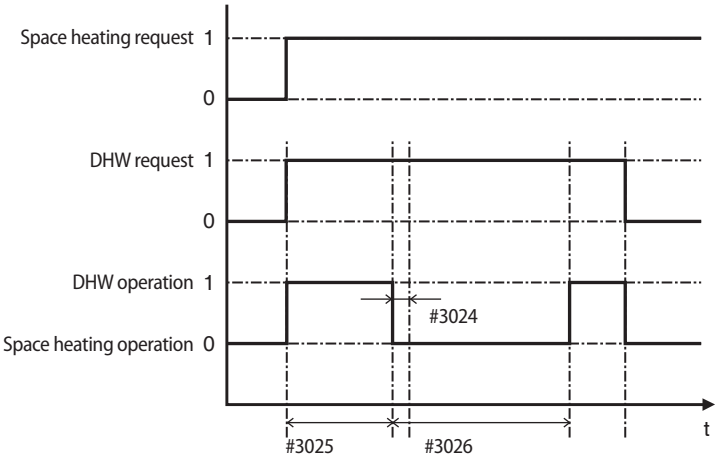
**External Room Thermostat (Field Option)**

- Terminal #1(#2091, Default "0" for no usage), #2(#2092, Default "0" for no usage)
  - To use wired remote controller for heating/cooling operation, both of the above settings should be set to "0" simultaneously. If not, thermostat controls system.
  - If set to #2091/#2092 1, the compressor can be turned on or off only by the thermostat.
  - If set to #2091/#2092 2, the compressor can be turned on or off by the thermostat or according to the WL discharged water temperature.
  - Types of water law used by room thermostat operation will follow the FSV settings defined in #2041(heating) and #2081(cooling) respectively.
  - During the thermostat operation, the user has the possibility to shift up or down the target water temperature within the range of -5 ~ +5˚C.
- When the remote controller is used, floor valve should be connected to zone #1 and the FCU valve should be separately connected to zone #2 of the Hydro Unit PBA.
- When only floor cooling/heating is installed and if the Water Law or outlet water temperature is too low, 2way valve may closed and E911 error may occur.
- When the floor and FCU units are installed together and operating in cooling mode, floor valve may close and E911 may occur to prevent floor condensation when the outlet water temperature is below 16°C. Therefore FCU should secure minimum value for the flow rate.
- Thermostat #2 which controls FCU has the priority for operation modes and the discharge water temperature.
- Samsung is not responsible for the accidents such as floor condensations which can occur by not connecting the valve to the zone #1 port of the Hydro Unit PBA.

# Field setting mode

## DHW Heating : Code 30✳✳



| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| DHW Code 30✳✳ | Domestic Hot Water Tank | Application | ✳✳11 | 0(No) | 0 | 1(Yes) | - | - |
| | Heat Pump | Max Temp | ✳✳21 | 50 | 45 | 50 | 1 | ˚C |
| | | Stop | ✳✳22 | 2 | 2 | 10 | 1 | ˚C |
| | | Start | ✳✳23 | 5 | 5 | 20 | 1 | ˚C |
| | | Min. Space heating operation time | ✳✳24 | 5 | 1 | 20 | 1 | min |
| | | Max. DHW operation time | ✳✳25 | 30 | 5 | 95 | 5 | min |
| | | Max. Space heating operation time | ✳✳26 | 3 | 0.5 | 10 | 0.5 | hour |
| | Booster Heater | Application | ✳✳31 | 1(On) | 0(Off) | 1 | - | - |
| | | Delay Time | ✳✳32 | 20 | 20 | 95 | 5 | min |
| | | Overshoot | ✳✳33 | 0 | 0 | 4 | 1 | ˚C |
| | | Compensation Temp | ✳✳34 | 10 | 0 | 20 | 1 | ˚C |
| | Disinfection | Application | ✳✳41 | 1(On) | 0(off) | 1 | - | - |
| | | Interval | ✳✳42 | Fri(5) | Sun(0) | All(7) | 1 | day |
| | | Start Time | ✳✳43 | 23 | 0 | 23 | 1 | o'clock |
| | | Target Temp | ✳✳44 | 70 | 40 | 70 | 5 | ˚C |
| | | Duration | ✳✳45 | 10 | 5 | 60 | 5 | min |
| | | Max time | ✳✳46 | 8 | 1 | 24 | 1 | hour |
| | Forced DHW operation | Timer OFF Function | ✳✳51 | 0(No) | 0 | 1(Yes) | - | - |
| | | Timer Duration | ✳✳52 | 6 | 3 | 30 | 1 | (x10)min |
| | Solar Panel/DHW Thermostat | H/P Combination | ✳✳61 | 0(No) | 0 | 2 | 1 | - |
| | Direction of DHW valve | DHW Tank | ✳✳71 | 0(Room) | 0 | 1(Tank) | - | - |

**DHW Application**

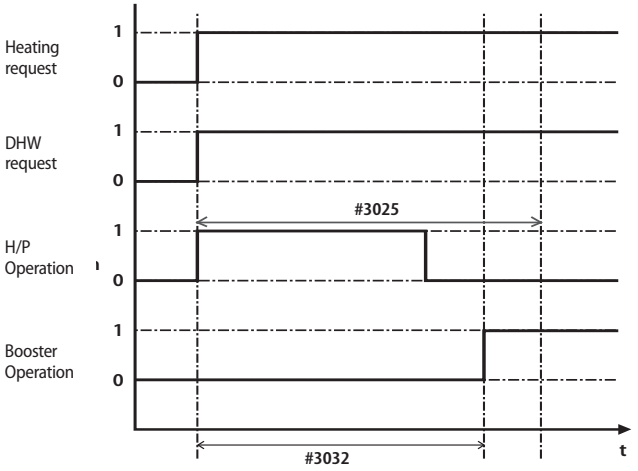
The FSV #3011 in the wired remote controller should be set to "1(Yes)" to use DHW function.

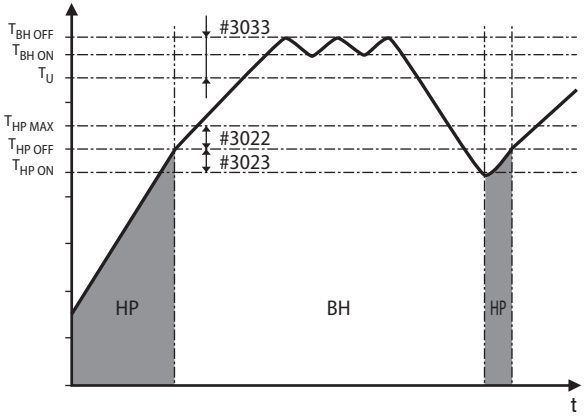
**Heat Pump Variables for Controlling DHW Tank**

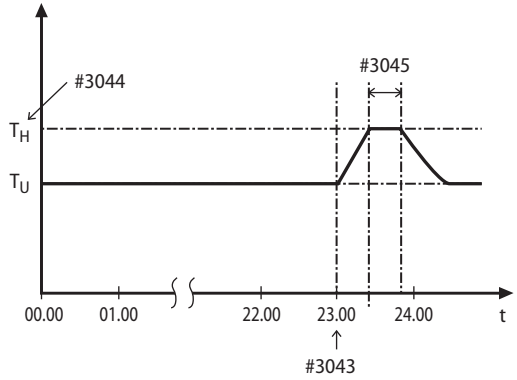
- Maximum DHW tank temperature with R-410A(refrigerant) heat pump operation : FSV #3021, Default 50˚C, Range : 45 ~ 50˚C.
- Temperature difference determining the heat pump OFF temperature : FSV #3022, Default 2˚C, Range : 2 ~ 10˚C.
- Temperature difference determining the heat pump ON temperature : FSV #3023, Default 5˚C, Range : 5 ~ 20˚C.
- DHW heating mode timer : Mode timer manage the operation terms when there are simultaneous requests of space heating/cooling and DHW.
  - FSV #3024(minimum Space heating operating time, Default 5 min., Range 1 ~ 20 min.), #3025(maximum DHW time, Default 30 min., Range 5 ~ 95 min.), #3026(maximum space heating operation time, Default 3 hour, Range 0.5 ~ 10 hour)
  - Maximum operation time is applied only when both DHW and Space heating request operation. DHW or Space heating operates continuously until reaching at target temperature without time limitation in the single operation.

NOTE

- The FSV #4011 for DHW priority should be set to "0(DHW)"(Default). Space heating gets a priority by setting FSV #4011 "1", but this is only valid when the outdoor temperature is lower than the specified temperature defined by FSV #4012.


Heating request
DHW request
H/P Operation
Booster Operation
1
0
#3025
#3032
t


T_BH OFF
T_BH ON
T_U
T_HP MAX
T_HP OFF
T_HP ON
#3033
#3022
#3023
HP
BH
HP
t


#3044
#3045
T_H
T_U
00.00
01.00
22.00
23.00
24.00
t
#3043

**Booster Heater Variables for Controlling DHW Tank**

- The FSV #3031 should be set to "1(On)"(Default) to use booster heater as an additional heat source for DHW tank.
- Booster heater startup delay timer : In case of DHW request, this timer will delay the operation of booster heater compared to heat pump.
  - FSV #3032(Default 20 min., Range 20 ~ 95 min.), In "Power" DHW mode, the delay timer will be neglected, and the booster starts immediately.
  - In "Economic" DHW mode, the DHW heating will be conducted only with heat pump.
  - #3032 should be smaller than the maximum H/P time(#3025). If the delay time is set too high, it might take very long time for DHW heating.
- Temperature difference determining the booster heater OFF temperature(T_BH OFF = Tu + #3033) : FSV #3033, Default 0˚C, Range : 0 ~ 4˚C.
- Temperature difference determining the booster heater ON temperature(T_BH ON = T_BH OFF - 2)
- DHW compensation temperature in case of space heating/cooling priority : FSV #3034 will be explained in next page.

NOTE
- The FSV #4022 for booster heater priority should be set to "0(both)"(Default) or "2"(booster) to use booster heater.
- If not(backup heater priority), the booster heater can be operated in case of no backup heater demand.

**Disinfection Function**

- The FSV #3041 should be set to "1(On)"(Default) to use disinfection function.
  - Scheduling : Day(#3042, Default "Friday"), starting time(#3043, Default "23:00"), target tank temp. (#3044, Default "70˚C"), duration(#3045, Default 10 min.)

NOTE
- Disinfection function is available only when a booster heater is connected.
- Check tank capacity, booster heater capacity, and booster heater for issues if disinfection operation does not work normally over the maximum operation time.

**Forced DHW by User's Input**

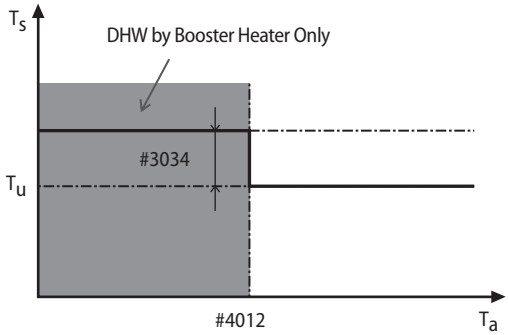
- Forced DHW mode can be activated by changing setting value from the default setting (#3011,"0"(No)).
- Forced DHW mode shall be working depending on Timer setting(#3051, #3052).

**Additional Solar panel/DHW thermostat Installation for DHW with Heat Pump (Field Option)**

- Solar panel and heat pump are able to operate simultaneously by default setting value. (FSV #3061, "1")
- When using DHW thermostat, set the FSV #3061, "2".
- Zone #1 and #2 valve always keep open except DHW mode in "ON" when the power is "ON" unless changing the FSV #3071. Default: Room direction valves are open and DHW valve is closed.
- Zone #1 and #2 can be open separately or simultaneously but all three zone valves can not be open or closed at the same time.
- There is one minute delay of 2-way valve closing whereas no delay of valve opening.
- Individual zone control is only available with external thermostat.

# Field setting mode

## Space Heating : Code 40✳✳




| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| Heating Code 40✳✳ | Heat Pump | Heating/DHW Priority | ✳✳11 | 0(DHW) | 0 | 1(Heating) | - | - |
| | | Outdoor Temp for Priority | ✳✳12 | 0 | -15 | 20 | 1 | ˚C |
| | | Heating Off | ✳✳13 | 35 | 14 | 35 | 1 | ˚C |
| | | Overshoot | ✳✳14 | 2 | 1 | 4 | 1 | ˚C |
| | Backup Heater | Application | ✳✳21 | 0(No) | 0 | 1(Yes) | - | - |
| | | BUH/BSH Priority | ✳✳22 | 0(Both) | 0 | 2(BSH) | 1 | - |
| | | Cold weather compensation | ✳✳23 | 1(Yes) | 0(No) | 1 | - | - |
| | | Threshold Temp | ✳✳24 | 0 | -15 | 35 | 1 | ˚C |
| | | Defrost Backup Temp. | ✳✳25 | 15 | 10 | 55 | 5 | ˚C |
| | Backup Boiler | Application | ✳✳31 | 0(No) | 0 | 1(Yes) | - | - |
| | | Boiler Priority | ✳✳32 | 0(No) | 0 | 1(Yes) | - | - |
| | | Threshold Temp | ✳✳33 | -15 | -20 | 5 | 1 | ˚C |
| | Mixing valve | Application | ✳✳41 | 0(No) | 0 | 2 | 1 | - |
| | | Target ΔT(Heating) | ✳✳42 | 10 | 5 | 15 | 1 | ˚C |
| | | Target ΔT(Cooling) | ✳✳43 | 10 | 5 | 15 | 1 | ˚C |
| | | Control factor | ✳✳44 | 2 | 1 | 5 | 1 | - |
| | | Control interval | ✳✳45 | 2 | 1 | 30 | 1 | min |
| | | Running Time | ✳✳46 | 9 | 6 | 24 | 3 | (x10) sec |
| | Inverter Pump | Application | ✳✳51 | 1(Yes) | 0 | 1(Yes) | - | - |
| | | Target ΔT | ✳✳52 | 5 | 2 | 8 | 1 | ˚C |
| | | Control factor | ✳✳53 | 2 | 1 | 3 | 1 | - |

**Heat Pump Variables for Space Heating**

- FSV #4011 for DHW priority is set to "0(DHW)"(Default) as a default. Space heating gets a priority by setting FSV #4011 "1", but this is only valid when the outdoor temperature is lower than the specified temperature defined by FSV #4012.
- Cold weather compensation is applied when the space heating gets a priority (FSV #4011=1). It is due to position of heating coil and booster heater in the water tank. Heating coil is at the bottom part of the water tank and the booster heater is located at the middle part of the tank. So the heating coil is efficient to heat the whole water in the tank. Chances that hot water flows through the heating coil decrease with the space heating priority. And lower part of water in the tank might not get enough heat with the booster heater. Cold weather compensation is raising the booster heater target temperature by temperature of FSV #3034 (default=10°C) higher than the user setting.
- Space heating off temperature(FSV #4013, Default "35˚C", Range 14 ~ 35˚C):
  At high outdoor temperature above this value, the space heating will be turned off, to avoid overheating.
- Overshoot temperature(FSV #4014, Default "2˚C", Range 1 ~ 4˚C): N/A yet

**Backup Heater Variables for Space Heating**

- The FSV #4021 should be set to 1(Yes) to use 2-stage electric backup heater in hydro unit as an additional heat source.
- To compensate the lowered heat pump heating performance under very cold weather conditions, the FSV #4023 should be set to "1(On)"(Default).
  - The threshold temperature to use backup heater for cold weather compensation:
    FSV #4024, Default "0˚C", Range -15 ~ 35˚C
  - The backup heater operation is restricted to save energy in the threshold temperature range.
- The FSV #4022 for backup heater priority should be set to "0(both)"(Default) or "1"(backup) to use backup heater. If not(booster heater priority), the backup heater can be operated in case of no booster heater demand.
- The threshold temperature for backup heater operation during defrost mode to prevent cold draft because of chilled water can be controlled by adjusting FSV #4025. Under FSV #4025 of water outlet temperature, backup heater Will be turned on.

NOTE
- To use both heaters together at the same time, please check the capacity of the power circuit breaker of your house before use.

**External Backup Boiler for Space Heating (Field Option)**

- The FSV #4031 should be set to "1(Yes)" to use a backup boiler as an additional heat source. (default: "0 (No installation)")
- Priority of backup boiler and heat pump is defined by FSV #4032 (default: "0(OFF)")
- To compensate the lowered heat pump heating performance under very cold weather conditions, the backup boiler operates instead of heat pump under the threshold temperature (FSV #4033, Default "-15˚C", Range -20 ~ 5˚C).

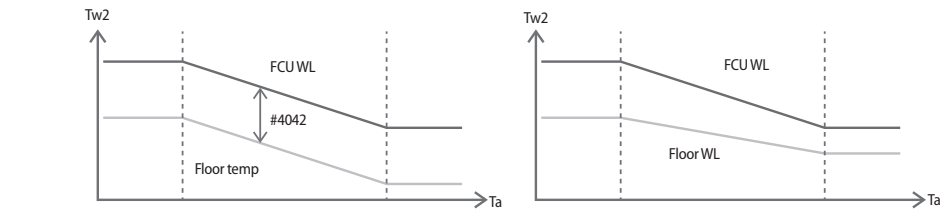
**Mixing vavle Installation(Field Option)**

- The FSV #4041 should be set to "1 or 2" to use mixing valve.

❋ 4041 =1 : Controlled based on the temperature difference (4042, 4043)

❋ 4041 =2 : Controlled based on the temperature difference of the WL value

**ex) Heating** <#4041=1> <#4041=2>




- FSV #4042/#4043 is for adjusting temperature difference between Tw3(Tw2) and Tw4.
- When using mixing valve, FSV #4046 should be matched with mixing valve running time charateristic.

**Inverter Pump Installation(Field Option)**

- FSV #4052 is for adjusting temperature difference between Tw2 and Tw1.

NOTE
- Tw1(Inlet Water Temp), Tw2(Discharge Water Temp), Tw3(Backup Heater oulet Water Temp), Tw4(Mixing valve Temp.)

# Field setting mode

## Others : Code 50✳✳

| Field Setting Value | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Main Menu & Code | Sub Menu Function | Description | Sub Code | Default | Min | Max | Step | Unit |
| Others Code 50✳✳ | Outing | Water Out Temp for Cooling | ✳✳11 | 25 | 5 | 25 | 1 | ˚C |
| | | Room Temp for Cooling | ✳✳12 | 30 | 18 | 30 | 1 | ˚C |
| | | Water Out Temp for Heating | ✳✳13 | 15 | 15 | 55 | 1 | ˚C |
| | | Room Temp for Heating | ✳✳14 | 16 | 16 | 30 | 1 | ˚C |
| | | Auto Cooling WL1 Temp | ✳✳15 | 25 | 5 | 25 | 1 | ˚C |
| | | Auto Cooling WL2 Temp | ✳✳16 | 25 | 5 | 25 | 1 | ˚C |
| | | Auto Heating WL1 Temp | ✳✳17 | 15 | 15 | 55 | 1 | ˚C |
| | | Auto Heating WL2 Temp | ✳✳18 | 15 | 15 | 55 | 1 | ˚C |
| | | Target Tank Temp | ✳✳19 | 30 | 30 | 70 | 1 | ˚C |
| | DHW Saving Mode | Temp Difference | ✳✳21 | 5 | 0 | 40 | 1 | ˚C |
| | Power Peak Control | Application | ✳✳41 | 0(No) | 0 | 1(Yes) | - | - |
| | | Select forced off parts | ✳✳42 | 0(All) | 0 | 3 | 1 | - |
| | | Using input voltage | ✳✳43 | 1(High) | 0(Low) | 1 | - | - |
| | Frequency Ratio Control | | ✳✳51 | 0(No) | 0 | 1(Yes) | - | - |

**Outing Mode (Hot Key of Wired Remote Controller)**

- All the target temperatures – space heating and cooling, water law, DHW, Room temperature – are set to the values defined in the above table under the holiday mode (outing hot key)

NOTE

- With the lowered target temperatures (FSV #5011 ~ #5019), the system operates normally.

**Economic DHW Heating**

- DHW heating only by the heat pump to save energy. Target DHW temperature is lower than the temperature set by user. The temperature difference is defined by FSV #5021. (default: 5°C)
  - If user sets the temperature 45°C, the system sets the target temperature 40°C with the default setting.

**Peak Power Control**

- If users make contracts with local electric power company for limiting the amount of power consumption when a surge in power usage, users can set FSV of "Forced off".
- According to FSV (#5041), Default is Non-usage. And According to FSV (#5042), If input is "0(default)", Back up heater (BUH) is unavailable while external contact is high.
  If input is " 1", Only Compressor(Heat Pump) is available.
  If input is " 2", Only Booster Heater (BSH) is available.
  If input is "3", nothing is available.
- Applying the control when power voltage of input contact is high is default. According to FSV (#5043), it is available to adopt this logic in low condition exceptionally.
- When applying to this logic, SAMSUNG controller come to get "Thermo off" condition for all operation.
- If not used for a long time, anti-freeze fluid shall be used for preventing damage to the unit in cold condition.

# Maintaining the unit



## Maintenance activities

- In order to ensure optimal availability of the unit, a number of checks and inspections on the unit and the field wiring have to be carried out at regular intervals, preferably yearly.
  This maintenance should be carried out by SAMSUNG local technician. Besides keeping the remote controller clean by means of a soft damp cloth, no maintenance is required by the operator.

⚠ WARNING

- During longer periods of standstill, e.g. during summer with a heating only application, it is very important NOT TO SWITCH OFF THE POWER SUPPLY towards the unit.
- Switching off the power supply stops the automatic repetitive movement of the motor in order to prevent it from getting jammed.

## This product contains fluorinated greenhouse gases covered by the Kyoto Protocol.

Refrigerant type: R-410A

GWP(1) value: 2088 (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.

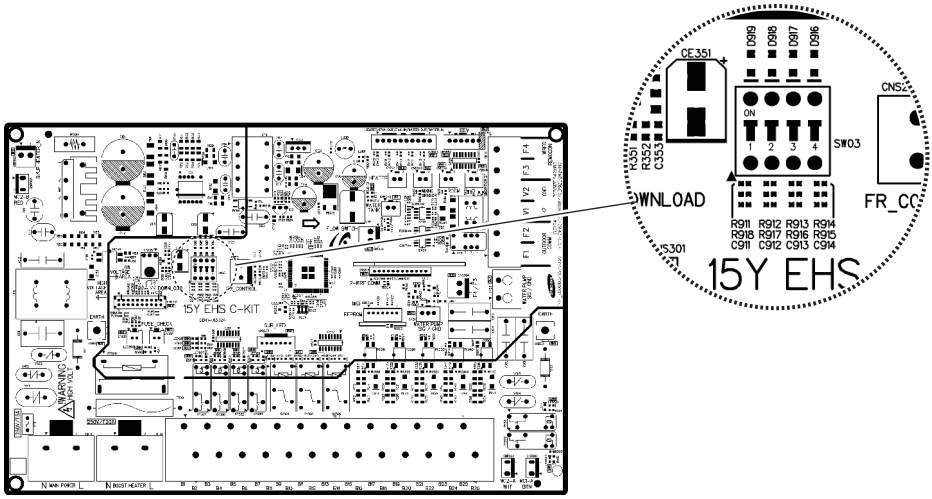
## Emergency heating / Emergency hot water supply

<Emergency heating_(when using #4021)>

- Heating function is performed only by the backup heater if the outdoor unit malfunctions (available only when a backup heater is connected).
- Enabling the function : Turn off the Control kit Dip S/W #1, and then turn the power off and on.
- Disabling the function : Turn on the Control kit Dip S/W #1, and then turn the power off and on.
- Default operation : Automatic heating is performed at a set temperature of 35°C.

<Emergency hot water supply_(when using FSV #3011, 3031)>

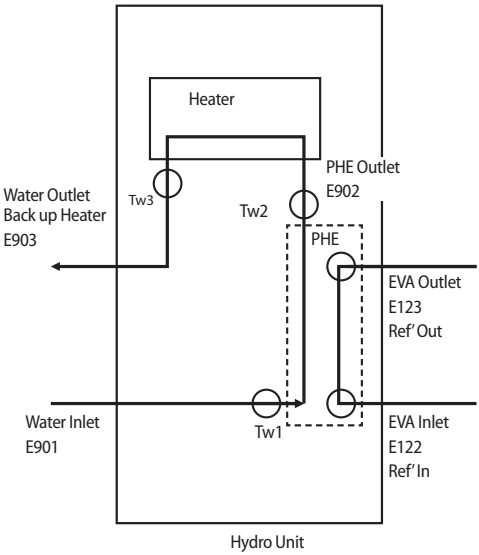
- Hot water is supplied only by the booster heater if the outdoor unit malfunctions.
- Enabling the function : Turn off the Control kit Dip S/W #2, and then turn the power off and on.
- Disabling the function : Turn on the Control kit Dip S/W #2, and then turn the power off and on.
- Default operation : Automatic hot water supply is performed at a set temperature of 50°C.



# Troubleshooting tips

If the unit has some problem to work properly, error codes will be displayed on the wired remote controller. The following table describes the explanation of the error codes.

| Display | Explanation |
|---|---|
| E122 | EVA Inlet temp sensor SHORT or OPEN |
| E123 | EVA Outlet temp sensor SHORT or OPEN |
| E653 | Wired remote controller temp sensor SHORT or OPEN |
| E901 | Water Inlet temp sensor SHORT or OPEN |
| E902 | PHE Outlet temp sensor SHORT or OPEN |
| E903 | Water outlet (Back up Heater) temp sensor SHORT or OPEN |
| E904 | Water TANK temp sensor SHORT or OPEN |
| E916 | Mixing valve temp sensor SHORT or OPEN(When FSV #4041 "1 or 2") |



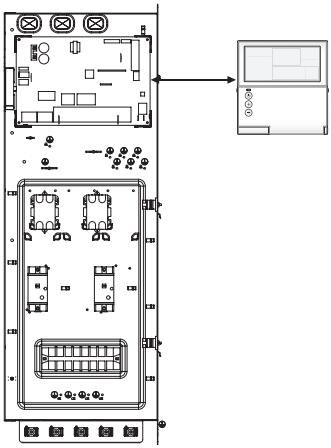

Wired remote controller
temp sensor
E653

Water tank temp sensor
E904

## Communication

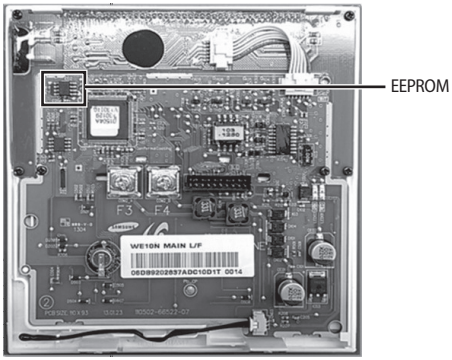
| Display | Explanation |
|---|---|
| E601 | Communication error between remote controller and the Hydro unit |
| E604 | Tracking error between remote controller and the Hydro unit |
| E654 | Memory(EEPROM) Read/Write Error(Wired remote Controller data error) |

**E601, E604**



**E654**

- MEMORY(EEPROM) Read/Write Error (Wired controller data error)



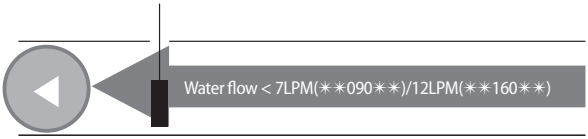
# Troubleshooting tips

## Water pump & Flow S/W

| Display | Explanation |
|---|---|
| E911 | Flow S/W OFF error<br>In case of flow S/W OFF in 30sec during water pump signal is ON(Starting)<br>In case of flow S/W OFF in 15sec during water pump signal is ON (After starting) |
| E912 | Flow S/W ON error<br>In case of flow S/W ON in 10min during water pump signal is OFF |

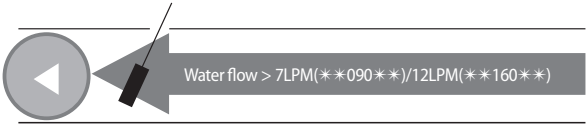
**E911**

- Water pump ON ( Flow S/W off )
- Water pump ON ( Flow S/W off ) : NOT enough water flow




**E912**

- Water pump OFF ( Flow S/W on )



# Error codes

If the unit has some problems and does not work normally, error code is shown on the OUTDOOR UNIT main PBA or LCD of the wired remote controller.

| Display | Explanation | Error Source |
|---|---|---|
| 101 | Hydro Unit / OUTDOOR UNIT wire connection error | Hydro Unit, OUTDOOR UNIT |
| 122 | EVA Inlet temp sensor SHORT or OPEN | Hydro Unit |
| 123 | EVA Outlet temp sensor SHORT or OPEN | Hydro Unit |
| 162 | EEPROM Error | Hydro Unit |
| 198 | Error of Terminal Block's Thermal Fuse(Open) | Hydro Unit |
| 201 | Hydro Unit/OUTDOOR UNIT communication error (Matching error) | Hydro Unit, OUTDOOR UNIT |
| 202 | Hydro Unit/OUTDOOR UNIT communication error (3 min) | Hydro Unit, OUTDOOR UNIT |
| 203 | Communication error between INVERTER and MAIN MICOM (6 min) | OUTDOOR UNIT |
| 221 | OUTDOOR UNIT temperature sensor error | OUTDOOR UNIT |
| 231 | condenser temperature sensor error | OUTDOOR UNIT |
| 251 | Discharge temperature sensor error | OUTDOOR UNIT |
| 320 | OLP sensor error | OUTDOOR UNIT |
| 403 | Detection of OUTDOOR UNIT compressor freezing (During cooling operation) | OUTDOOR UNIT |
| 404 | Protection of OUTDOOR UNIT when it is overload (during Safety Start, Normal operation state) | OUTDOOR UNIT |
| 407 | Comp down due to high pressure | OUTDOOR UNIT |
| 416 | Discharge of a compressor is overheated | OUTDOOR UNIT |
| 419 | OUTDOOR UNIT EEV operation error | OUTDOOR UNIT |
| 425 | Power source line missing error (only for 3-phase model) | OUTDOOR UNIT |
| 440 | Heating operation blocked (outdoor temperature over 35°C) | OUTDOOR UNIT |
| 441 | Cooling operation blocked (outdoor temperature under 9°C) | OUTDOOR UNIT |
| 458 | OUTDOOR UNIT fan1 error | OUTDOOR UNIT |
| 461 | [Inverter] Compressor startup error | OUTDOOR UNIT |
| 462 | [Inverter] Total current error/PFC over current error | OUTDOOR UNIT |
| 463 | OLP is overheated | OUTDOOR UNIT |
| 464 | [Inverter] IPM over current error | OUTDOOR UNIT |
| 465 | Compressor V limit error | OUTDOOR UNIT |
| 466 | DC LINK over/low voltage error | OUTDOOR UNIT |
| 467 | [Inverter] Compressor rotation error | OUTDOOR UNIT |
| 468 | [Inverter] Current sensor error | OUTDOOR UNIT |
| 469 | [Inverter] DC LINK voltage sensor error | OUTDOOR UNIT |

# Error codes

| Display | Explanation | Error Source |
|---|---|---|
| 470 | Outdoor unit EEPROM Read/Write error (H/W) | OUTDOOR UNIT |
| 471 | Outdoor unit EEPROM Read/Write error (Option) | OUTDOOR UNIT |
| 474 | IPM(IGBT Module) or PFCM temperature sensor Error | OUTDOOR UNIT |
| 475 | OUTDOOR UNIT fan2 error | OUTDOOR UNIT |
| 484 | PFC Overload Error | OUTDOOR UNIT |
| 485 | Input current sensor error | OUTDOOR UNIT |
| 500 | IPM is overheated | OUTDOOR UNIT |
| 554 | Gas leak error | OUTDOOR UNIT |
| 590 | Inverter EEPROM Checksum error | OUTDOOR UNIT |
| 601 | Communication error between the Hydro Unit and wired remote controller | Wired Remote Controller |
| 604 | Communication tracking error between the Hydro Unit and wired remote controller | Hydro Unit, Wired Remote Controller |
| 653 | Wired remote controller temp sensor SHORT or OPEN | Hydro Unit, Wired Remote Controller |
| 654 | Memory(EEPROM) Read/Write Error(Wired remote Controller data error) | Hydro Unit, Wired Remote Controller |
| 901 | Water inlet (PHE) temperature sensor error(open/short) | OUTDOOR UNIT |
| 902 | Water outlet (PHE) temperature sensor error(open/short) | OUTDOOR UNIT |
| 903 | Water outlet (backup heater) temperature sensor error. | Hydro Unit |
| 904 | DHW tank temperature sensor error | Hydro Unit |
| 906 | Refrigerant gas inlet (PHE) temperature sensor (open/short) | OUTDOOR UNIT |
| 911 | Flow switch and water pump error | Hydro Unit |
| 912 | Flow switch and water pump error | Hydro Unit |
| 916 | Mixing valve sensor (Tw4) error (Short/Open) | Hydro Unit |

NOTE

- When the product does not work during or after the concrete curing function and it displays "CC" on the wired remote controller, contact the installer to cancel the concrete curing function.

# Product Specification

| Indoor | | AE090JNYDEH/EU | AE160JNYDEH/EU | AE090JNYDGH/EU | AE160JNYDGH/EU |
|---|---|---|---|---|---|
| Weight(net/gross) | kg | 45.0/55.0 | 45.0/55.0 | 46.5/56.0 | 46.5/56.0 |
| Dimensions(net) | mm | 850 x 510 x 315 | 850 x 510 x 315 | 850 x 510 x 315 | 850 x 510 x 315 |

| Outdoor | | AE040JXEDEH/EU | AE090JXEDEH/EU | AE120JXEDEH/EU | AE140JXEDEH/EU | AE160JXEDEH/EU |
|---|---|---|---|---|---|---|
| | | AE060JXEDEH/EU | AE090JXEDGH/EU | AE120JXEDGH/EU | AE140JXEDGH/EU | AE160JXEDGH/EU |
| Weight(net/gross) | kg | 48.5/51.5 | 68.0/78.0 | 100.0/109.5 | 100.0/109.5 | 100.0/109.5 |
| | | | 76.0/84.5 | 101.5/111.0 | 101.5/111.0 | 101.5/111.0 |
| Dimensions(net) | mm | 880 x 638 x 310 | 940 x 998 x 330 | 940 x 1,420 x 330 | 940 x 1,420 x 330 | 940 x 1,420 x 330 |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

## ECODESIGN REQUIREMENTS FOR SPACE HEATER [II)]

| | |
|---|---|
| A | Model(s) : AE040JXEDEH/AE090JNYDEH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| Item [J] | | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated [as] | 4 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 3.5 | kW |
| - | Tj = +2 °C | Pdh | 2.2 | kW |
| - | Tj = +7 °C | Pdh | 1.4 | kW |
| - | Tj = +12 °C | Pdh | 0.6 | kW |
| T | Tj = bivalent temperature | Pdh | 4.0 | kW |
| U | Tj = operation limit temperature | Pdh | 4.0 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable [AM] | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 40/61 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | - | | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| Item [J] | | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 126 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd [S] | 1.92 | - |
| - | Tj = +2 °C | COPd [S] | 3.13 | - |
| - | Tj = +7 °C | COPd [S] | 3.90 | - |
| - | Tj = +12 °C | COPd [S] | 6.90 | - |
| T | Tj = bivalent temperature | COPd [S] | 2.05 | - |
| U | Tj = operation limit temperature | COPd [S] | 2.05 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd [S] | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc [AA] | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 40 | $m^3/h$ [AO] |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ [AO] |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AZ | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| BA | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BB | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BC | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

| | |
|---|---|
| A | Model(s) : AE060JXEDEH/AE090JNYDEH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated (o) | 5 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 4.0 | kW |
| | Tj = +2 °C | Pdh | 2.4 | kW |
| | Tj = +7 °C | Pdh | 1.6 | kW |
| | Tj = +12 °C | Pdh | 0.7 | kW |
| T | Tj = bivalent temperature | Pdh | 4.5 | kW |
| U | Tj = operation limit temperature | Pdh | 4.5 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable (AM) | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 40/61 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | | - | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 126 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd (S) | 1.94 | - |
| | Tj = +2 °C | COPd (S) | 3.10 | - |
| | Tj = +7 °C | COPd (S) | 3.90 | - |
| | Tj = +12 °C | COPd (S) | 6.90 | - |
| T | Tj = bivalent temperature | COPd (S) | 1.90 | - |
| U | Tj = operation limit temperature | COPd (S) | 1.90 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd (S) | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc (AA) | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 43 | $m^3/h$ (AO) |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ (AO) |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

## ECODESIGN REQUIREMENTS FOR SPACE HEATER [II)]

| | |
|---|---|
| A | Model(s) : AE090JXEDEH/AE090JNYDEH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| Item [J] | | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated [(a)] | 6 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 5.5 | kW |
| - | Tj = +2 °C | Pdh | 3.3 | kW |
| - | Tj = +7 °C | Pdh | 2.1 | kW |
| - | Tj = +12 °C | Pdh | 1.0 | kW |
| T | Tj = bivalent temperature | Pdh | 6.2 | kW |
| U | Tj = operation limit temperature | Pdh | 6.2 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable [(AM)] | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 40/64 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | - | | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| Item [J] | | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 128 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd [(5)] | 1.93 | - |
| - | Tj = +2 °C | COPd [(5)] | 3.11 | - |
| - | Tj = +7 °C | COPd [(5)] | 4.30 | - |
| - | Tj = +12 °C | COPd [(5)] | 6.64 | - |
| T | Tj = bivalent temperature | COPd [(5)] | 1.72 | - |
| U | Tj = operation limit temperature | COPd [(5)] | 1.72 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd [(5)] | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc [(AA)] | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 53 | $m^3/h$ [(AO)] |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ [(AO)] |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

| | |
|---|---|
| A | Model(s) : AE090JXEDGH/AE090JNYDGH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| Item (J) | | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated (o) | 6 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 5.7 | kW |
| | Tj = +2 °C | Pdh | 3.4 | kW |
| | Tj = +7 °C | Pdh | 2.2 | kW |
| | Tj = +12 °C | Pdh | 1.0 | kW |
| T | Tj = bivalent temperature | Pdh | 6.4 | kW |
| U | Tj = operation limit temperature | Pdh | 6.4 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable (AM) | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 40/64 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | | - | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| Item (J) | | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 131 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd (S) | 2.10 | - |
| | Tj = +2 °C | COPd (S) | 3.19 | - |
| | Tj = +7 °C | COPd (S) | 4.24 | - |
| | Tj = +12 °C | COPd (S) | 6.37 | - |
| T | Tj = bivalent temperature | COPd (S) | 1.74 | - |
| U | Tj = operation limit temperature | COPd (S) | 1.74 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd (S) | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc (AA) | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 53 | $m^3/h$ (AO) |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ (AO) |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| | |
|---|---|
| A | Model(s) : AE120JXEDEH/AE160JNYDEH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item [J] | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated [G] | 8 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 7.1 | kW |
| | Tj = +2 °C | Pdh | 4.3 | kW |
| | Tj = +7 °C | Pdh | 2.8 | kW |
| | Tj = +12 °C | Pdh | 1.2 | kW |
| T | Tj = bivalent temperature | Pdh | 8.0 | kW |
| U | Tj = operation limit temperature | Pdh | 8.0 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | POFF | 0.080 | kW |
| AG | Thermostat-off mode | PTO | 0.011 | kW |
| AH | Standby mode | PSB | 0.011 | kW |
| AI | Crankcase heater mode | PCK | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable [AM] | | |
| AP | Sound power level, indoors/ outdoors | LWA | 47/64 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | - | | |
| AV | Daily electricity comsumption | Qelec | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item [J] | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | ηs | 112 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd [S] | 1.77 | - |
| | Tj = +2 °C | COPd [S] | 2.74 | - |
| | Tj = +7 °C | COPd [S] | 4.51 | - |
| | Tj = +12 °C | COPd [S] | 7.02 | - |
| T | Tj = bivalent temperature | COPd [S] | 1.62 | - |
| U | Tj = operation limit temperature | COPd [S] | 1.62 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd [S] | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc [AA] | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 108 | m³/h [AO] |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | m³/h [AO] |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | ηwh | - | % |
| AW | Daily fuel consumption | Qfuel | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

| | |
|---|---|
| A | Model(s) : AE120JXEDGH/AE160JNYDGH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated (o) | 8 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 7.1 | kW |
| | Tj = +2 °C | Pdh | 4.3 | kW |
| | Tj = +7 °C | Pdh | 2.8 | kW |
| | Tj = +12 °C | Pdh | 1.2 | kW |
| T | Tj = bivalent temperature | Pdh | 8.0 | kW |
| U | Tj = operation limit temperature | Pdh | 8.0 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable (AM) | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 47/64 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | | - | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 112 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd (S) | 1.77 | - |
| | Tj = +2 °C | COPd (S) | 2.74 | - |
| | Tj = +7 °C | COPd (S) | 4.51 | - |
| | Tj = +12 °C | COPd (S) | 7.02 | - |
| T | Tj = bivalent temperature | COPd (S) | 1.62 | - |
| U | Tj = operation limit temperature | COPd (S) | 1.62 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd (S) | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc (AA) | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 108 | $m^3/h$ (AO) |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ (AO) |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| | |
|---|---|
| A | Model(s) : AE140JXEDEH/AE160JNYDEH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item [J] | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated [G] | 9 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 7.5 | kW |
| | Tj = +2 °C | Pdh | 4.6 | kW |
| | Tj = +7 °C | Pdh | 2.9 | kW |
| | Tj = +12 °C | Pdh | 1.3 | kW |
| T | Tj = bivalent temperature | Pdh | 8.5 | kW |
| U | Tj = operation limit temperature | Pdh | 8.5 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | POFF | 0.080 | kW |
| AG | Thermostat-off mode | PTO | 0.011 | kW |
| AH | Standby mode | PSB | 0.011 | kW |
| AI | Crankcase heater mode | PCK | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable [AM] | | |
| AP | Sound power level, indoors/ outdoors | LWA | 47/64 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | - | | |
| AV | Daily electricity comsumption | Qelec | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item [J] | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | ηs | 110 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd [S] | 1.83 | - |
| | Tj = +2 °C | COPd [S] | 2.33 | - |
| | Tj = +7 °C | COPd [S] | 4.47 | - |
| | Tj = +12 °C | COPd [S] | 6.94 | - |
| T | Tj = bivalent temperature | COPd [S] | 1.63 | - |
| U | Tj = operation limit temperature | COPd [S] | 1.63 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd [S] | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc [AA] | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 108 | $m^3/h$ [AO] |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ [AO] |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | ηwh | - | % |
| AW | Daily fuel consumption | Qfuel | - | kWh |

AY (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

AZ (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

BA 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product.

BB 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com

| | |
|---|---|
| A | Model(s) : AE140JXEDGH/AE160JNYDGH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated (o) | 9 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 7.5 | kW |
| | Tj = +2 °C | Pdh | 4.6 | kW |
| | Tj = +7 °C | Pdh | 2.9 | kW |
| | Tj = +12 °C | Pdh | 1.3 | kW |
| T | Tj = bivalent temperature | Pdh | 8.5 | kW |
| U | Tj = operation limit temperature | Pdh | 8.5 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable (AM) | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 47/64 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | | - | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 110 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd (S) | 1.83 | - |
| | Tj = +2 °C | COPd (S) | 2.33 | - |
| | Tj = +7 °C | COPd (S) | 4.47 | - |
| | Tj = +12 °C | COPd (S) | 6.94 | - |
| T | Tj = bivalent temperature | COPd (S) | 1.63 | - |
| U | Tj = operation limit temperature | COPd (S) | 1.63 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd (S) | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc (AA) | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 108 | $m^3/h$ (AO) |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ (AO) |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| | |
|---|---|
| A | Model(s) : AE160JXEDEH/AE160JNYDEH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item [J] | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated [o] | 10 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 8.4 | kW |
| | Tj = +2 °C | Pdh | 5.1 | kW |
| | Tj = +7 °C | Pdh | 3.3 | kW |
| | Tj = +12 °C | Pdh | 1.5 | kW |
| T | Tj = bivalent temperature | Pdh | 9.5 | kW |
| U | Tj = operation limit temperature | Pdh | 9.5 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable [AM] | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 47/66 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | | - | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item [J] | Symbol [K] | Value [L] | Unit [M] |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 108 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd [S] | 1.83 | - |
| | Tj = +2 °C | COPd [S] | 2.37 | - |
| | Tj = +7 °C | COPd [S] | 3.84 | - |
| | Tj = +12 °C | COPd [S] | 6.94 | - |
| T | Tj = bivalent temperature | COPd [S] | 1.63 | - |
| U | Tj = operation limit temperature | COPd [S] | 1.63 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd [S] | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc [AA] | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 108 | $m^3/h$ [AO] |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ [AO] |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

| | |
|---|---|
| A | Model(s) : AE160JXEDGH/AE160JNYDGH |
| B | Air-to-water heat pump : yes |
| C | Water-to-water heat pump : no |
| D | Brine-to-water heat pump : no |
| E | Low-temperature heat pump : no |
| F | Equipped with a supplementary heater : no |
| G | Heat pump combination heater : no |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pump, parameters shall be declared for low-temperature application. |
| I | Parameters shall be declared for average climate conditions. |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| N | **Rated heat output(*)** | Prated (o) | 10 | kW |
| Q | **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | Pdh | 8.4 | kW |
| | Tj = +2 °C | Pdh | 5.1 | kW |
| | Tj = +7 °C | Pdh | 3.3 | kW |
| | Tj = +12 °C | Pdh | 1.5 | kW |
| T | Tj = bivalent temperature | Pdh | 9.5 | kW |
| U | Tj = operation limit temperature | Pdh | 9.5 | kW |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | Pdh | - | kW |
| W | Bivalent temperature | Tbiv | -10 | °C |
| Y | Cycling interval capacity for heating | Pcych | - | kW |
| AB | Degradation co-efficient(**) | Cdh | 0.9 | - |
| AD | **Power consumption in modes other than active mode** | | | |
| AF | Off mode | $P_{OFF}$ | 0.080 | kW |
| AG | Thermostat-off mode | $P_{TO}$ | 0.011 | kW |
| AH | Standby mode | $P_{SB}$ | 0.011 | kW |
| AI | Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| AK | **Other items** | | | |
| AL | Capacity control | variable (AM) | | |
| AP | Sound power level, indoors/ outdoors | $L_{WA}$ | 47/69 | dB |
| AQ | Emissions of nitrogen oxides | NOx | - | mg/kWh |
| AS | **For heat pump combination heater** | | | |
| AT | Declared load profile | | - | |
| AV | Daily electricity comsumption | $Q_{elec}$ | - | kWh |
| AX | **Contact details** | http://www.samsung.com | | |

| | Item (J) | Symbol (K) | Value (L) | Unit (M) |
|---|---|---|---|---|
| P | **Seasonal space heating energy efficiency** | $\eta_s$ | 108 | % |
| R | **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| - | Tj = -7 °C | COPd (S) | 1.83 | - |
| | Tj = +2 °C | COPd (S) | 2.37 | - |
| | Tj = +7 °C | COPd (S) | 3.84 | - |
| | Tj = +12 °C | COPd (S) | 6.94 | - |
| T | Tj = bivalent temperature | COPd (S) | 1.63 | - |
| U | Tj = operation limit temperature | COPd (S) | 1.63 | - |
| V | For air-to-water heat pumps Tj = -15 °C (if TOL < -20 °C) | COPd (S) | - | - |
| X | For air-to-water heat pumps: Operation limit temperature | TOL | -10 | °C |
| Z | Cycling interval efficiency | COPcyc (AA) | - | - |
| AC | Heating water operating limit temperature | WTOL | - | °C |
| AE | **Supplementary heater** | | | |
| N | Rated heat output(*) | Psup | - | kW |
| AJ | Type of energy input | | | |
| AK | **Other items** | | | |
| AN | For air-to-water heat pumps : Rated air flow rate, outdoors | - | 108 | $m^3/h$ (AO) |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | - | - | $m^3/h$ (AO) |
| AS | **For heat pump combination heater** | | | |
| AU | Water heating energy efficiency | $\eta_{wh}$ | - | % |
| AW | Daily fuel consumption | $Q_{fuel}$ | - | kWh |

| | |
|---|---|
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| No | English(EN) | Bulgarian(BG) | Spanish(ES) | Czech(CS) |
|---|---|---|---|---|
| I | COMMISSION REGULATION (EU) No 813/2013 | РЕГЛАМЕНТ (ЕС) № 813/2013 НА КОМИСИЯТА | REGLAMENTO (UE) No 813/2013 DE LA COMISIÓN | NAŘÍZENÍ KOMISE (EU) č. 813/2013 |
| II | ECODESIGN REQUIREMENTS FOR SPACE HEATER | Изискванията за екопроектиране на отоплителен топлоизточник | Los requisitos de diseño ecológico de aparato de calefacción | Požadavky na ekodesign pro vytápění vnitřních prostorů |
| A | Model(s): [information identifying the model(s) to which the information relates] | Модел/модели: [информация за определяне на модела(ите), за който(ито) тя се отнася] | Modelos: [Datos que identifican el modelo o modelos a que se refiere la información] | Model/y: [informace k určení modelu/ů, na který/é se informace vztahují] |
| B | Air-to-water heat pump: [yes/no] | Термопомпа „въздух-вода“: [да/не] | Bomba de calor aire-agua: [sí/no] | Tepelné čerpadlo vzduch-voda: [ano/ne] |
| C | Water-to-water heat pump: [yes/no] | Термопомпа „вода-вода“: [да/не] | Bomba de calor agua-agua: [sí/no] | Tepelné čerpadlo voda-voda: [ano/ne] |
| D | Brine-to-water heat pump: [yes/no] | Термопомпа „солов разтвор-вода“: [да/не] | Bomba de calor salmuera-agua: [sí/no] | Tepelné čerpadlo solanka-voda: [ano/ne] |
| E | Low-temperature heat pump: [yes/no] | Термопомпа за нискотемпературни приложения: [да/не] | Bomba de calor de baja temperatura: [sí/no] | Nízkoteplotní tepelné čerpadlo: [ano/ne] |
| F | Equipped with a supplementary heater: [yes/no] | Оборудвана с допълнителен подгревател: [да/не] | Equipado con un calefactor complementario: [sí/no] | Vybavenost přídavným ohřívačem: [ano/ne] |
| G | Heat pump combination heater: [yes/no] | Комбиниран термопомпен агрегат за отопление и БГВ: [да/не] | Calefactor combinado con bomba de calor: [sí/no] | Kombinovaný ohřívač s tepelným čerpadlem: [ano/ne] |
| H | Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application. | Параметрите се обявяват за среднотемпературни приложения, освен при термопомпите с нискотемпературни приложения. При термопомпите с нискотемпературни приложения параметрите се обявяват за нискотемпературните приложения. | Los parámetros se declararán para aplicaciones de media temperatura, excepto si se trata de bombas de calor de baja temperatura. En el caso de las bombas de calor de baja temperatura, los parámetros se declararán para aplicaciones de baja temperatura. | Parametry musí být uvedeny pro středněteplotní aplikaci, s výjimkou nízkoteplotních tepelných čerpadel. U nízkoteplotních tepelných čerpadel musí být parametry uvedeny pro nízkoteplotní aplikaci. |
| I | Parameters shall be declared for average climate conditions. | Параметрите се обявяват за средни климатични условия. | Los parámetros se indicarán para condiciones climáticas medias. | Parametry musí být uvedeny pro průměrné klimatické podmínky. |
| J | Item | Характеристика | Elemento | Položka |
| K | Symbol | Означение | Símbolo | Označení |
| L | Value | Стойност | Valor | Hodnota |
| M | Unit | Мерна единица | Unidad | Jednotka |
| N | Rated heat output(*) | Номинална топлинна мощност(*) | Potencia calorífica nominal (*) | Jmenovitý tepelný výkon (*) |
| O | Prated | Prated | Prated | Prated |
| P | Seasonal space heating energy efficiency | Сезонна енергийна ефективност при отопление | Eficiencia energética estacional de calefacción | Sezónní energetická účinnost vytápění |
| Q | Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj | Обявена отоплителна мощност за частичен товар при температура вътре 20 °C и външна температура Tj | Capacidad de calefacción declarada para una carga parcial a una temperatura interior de 20 °C y una temperatura exterior Tj | Deklarovaný topný výkon pro částečné zatížení při vnitřní teplotě 20 °C a venkovní teplotě Tj |
| R | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | Обявен коефициент на трансформация или коефициент на първичната енергия за частичен товар при температура вътре 20 °C и външна температура Tj | Coeficiente de rendimiento declarado o factor energético primario para una carga parcial a una temperatura interior de 20 °C y una temperatura exterior Tj | Deklarovaný topný faktor či koeficient primární energie pro částečné zatížení při vnitřní teplotě 20 °C a venkovní teplotě Tj |
| S | COPd or PERd | COPd или PERd | COPd o PERd | COPd nebo PERd |
| T | Tj = bivalent temperature | Tj = температура на включване на допълнително подгряване | Tj = temperatura bivalente | Tj = bivalentní teplota |
| U | Tj = operation limit temperature | Tj = гранична работна температура | Tj = temperatura límite de funcionamiento | Tj = mezní provozní teplota |
| V | For air-to-water heat pumps: Tj = – 15 °C (if TOL < – 20 °C) | За термопомпи „въздух-вода“: Tj = – 15 °C (ако TOL < – 20 °C) | Para bombas de calor aire-agua: Tj = – 15 °C (si TOL < – 20 °C) | U tepelných čerpadel vzduch-voda: Tj = – 15 °C (pokud TOL < – 20 °C) |
| W | Bivalent temperature | Температура на включване на допълнително подгряване | Temperatura bivalente | Bivalentní teplota |
| X | For air-to-water heat pumps: Operation limit temperature | За термопомпи „въздух-вода“: гранична работна температура | Para bombas de calor aire-agua: Temperatura límite de funcionamiento | U tepelných čerpadel vzduch-voda: mezní provozní teplota |
| Y | Cycling interval capacity for heating | Мощност при повторно-кратковременен режим на отопление | Eficiencia del intervalo cíclico para calefacción | Topný výkon v cyklickém intervalu |
| Z | Cycling interval efficiency | Ефективност при повторно-кратковременен режим | Eficiencia del intervalo cíclico | Účinnost v cyklickém intervalu |
| AA | COPcyc or PERcyc | COPcyc или PERcyc | COPcyc o PERcyc | COPcyc nebo PERcyc |
| AB | Degradation co-efficient(**) | Коефициент на влошаване на ефективността(**) | Coeficiente de degradación (**) | Koeficient ztráty energie (**) |
| AC | Heating water operating limit temperature | Гранична температура на загряваната вода | Temperatura límite de calentamiento de agua | Mezní provozní teplota ohřívané vody |

| No | English(EN) | Bulgarian(BG) | Spanish(ES) | Czech(CS) |
|---|---|---|---|---|
| AD | Power consumption in modes other than active mode | Консумирана мощност в режими, различни от работен режим | Consumo de electricidad en modos distintos del activo | Spotřeba elektrické energie v jiných režimech než aktivní režim |
| AE | Supplementary heater | Допълнителен подгревател | Calefactor complementario | Přídavný ohřívač |
| AF | Off mode | Режим „изключен" | Modo desactivado | Vypnutý stav |
| AG | Thermostat-off mode | Режим „термостатно изключен" | Modo desactivado por termostato | Stav vypnutého termostatu |
| AH | Standby mode | Режим „в готовност" | Modo de espera | Pohotovostní režim |
| AI | Crankcase heater mode | Режим „подгряване на картера на компресора" | Modo de calentador del cárter | Režim zahřívání skříně kompresoru |
| AJ | Type of energy input | Вид на постъпващата енергия | Tipo de insumo de energía | Energetický příkon |
| AK | Other items | Други характеристики | Otros elementos | Jiné položky |
| AL | Capacity control | Регулиране на мощността | Control de capacidad | Regulace výkonu |
| AM | fixed/variable | фиксирана/регулируема | fijo/variable | pevná/proměnná |
| AN | For air-to-water heat pumps: Rated air flow rate, outdoors | За термопомпи „въздух-вода": номинален дебит на въздуха (на открито) | Para bombas de calor aire-agua: Caudal de aire nominal (exterior) | U tepelných čerpadel vzduch-voda: jmenovitý průtok vzduchu ve venkovním prostoru |
| AO | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| AP | Sound power level, indoors/outdoors | Ниво на шума (вътре/на открито) | Nivel de potencia acústica (interior/exterior) | Hladina akustického výkonu ve vnitřním prostoru/venkovním prostoru |
| AQ | Emissions of nitrogen oxides | Емисии на азотни окиси | Emisiones de óxidos de nitrógeno | Emise oxidů dusíku |
| AR | For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | За термопомпи „вода/солов разтвор-вода": номинален дебит на соловия разтвор, или водата, външен топлообменник | Para bombas de calor agua/salmuera a agua: Caudal de salmuera o de agua nominal, intercambiador de calor de exterior | U tepelných čerpadel voda-voda/solanka-voda: jmenovitý průtok solanky nebo vody, venkovní výměník tepla |
| AS | For heat pump combination heater: | За комбиниран термопомпен агрегат за отопление и БГВ: | Para calefactores combinados con bomba de calor: | U kombinovaného ohřívače s tepelným čerpadlem: |
| AT | Declared load profile | Обявен товаров профил | Perfil de carga declarado | Deklarovaný zátěžový profil |
| AU | Water heating energy efficiency | Енергийна ефективност при подгряване на вода | Eficiencia energética de caldeo de agua | Energetická účinnost ohřevu vody |
| AV | Daily electricity consumption | Дневно електропотребление | Consumo diario de electricidad | Denní spotřeba elektrické energie |
| AW | Daily fuel consumption | Дневно потребление на гориво | Consumo diario de combustible | Denní spotřeba paliva |
| AX | Contact details | Координати за връзка | Datos de contacto | Kontaktní údaje |
| AY | (*) For heat pump space heaters and heat pump combination heaters, the rated that output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). | (*) За отоплителни термопомпени агрегати и комбинирани термопомпени агрегати, номиналната топлинна мощност Prated е равна на проектния отоплителен товар Pdesignh, а номиналната топлинна мощност на допълнителния подгревател Psup е равна на допълнителната отоплителна мощност sup(Tj) | (*) Para los aparatos de calefacción con bomba de calor y calefactores combinados con bomba de calor, la potencia calorífica nominal Prated es igual a la carga de calefacción de diseño Pdesignh, y la potencia calorífica nominal de un calefactor complementario Psup es igual a la capacidad complementaria de calefacción sup(Tj). | (*) U ohřívačů pro vytápění vnitřních prostorů s tepelným čerpadlem a kombinovaných ohřívačů s tepelným čerpadlem je jmenovitý tepelný výkon Prated roven návrhovému topnému zatížení Pdesignh a jmenovitý tepelný výkon přídavného ohřívače Psup je roven doplňkovému topnému výkonu sup(Tj). |
| AZ | (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9. | (**) Ако Cdh не е определен чрез измерване, съответната ориентировъчно приемана стойност за коефициента на влошаване на ефективността е Cdh = 0,9. | (**) Si no se determina Cdh por medición, el coeficiente de degradación predeterminado será Cdh = 0,9. | (**) Není-li koeficient ztráty energie Cdh stanoven měřením, má implicitní hodnotu 0,9. |
| BA | 1) Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product. | 1) Описаните в ръководството за монтиране/ръководството за потребителя предпазни мерки трябва да се спазват при сглобяване, монтиране и поддръжка на продукта. | 1) Deben tomarse las precauciones que se indican en el manual de instalación/usuario al montar e instalar el producto, así como al realizar tareas de mantenimiento. | 1) Při montáži, instalaci a údržbě tohoto produktu je třeba se řídit bezpečnostními opatřeními popsanými v instalační a uživatelské příručce. |
| BB | 2) If you are a professional looking for information on non-destructive disassembly and dismantling, please send an email to: erims.sec@samsung.com | 2) Ако сте професионалист и търсите информация относно възможностите за неразрушително разглобяване и демонтаж, моля, изпратете имейл на адрес: erims.sec@samsung.com | 2) Si Usted es un profesional que desea obtener información sobre el desmontaje y desmantelamiento no destructivo de este producto, por favor, diríjase a la siguiente dirección de correo electrónico: erims.sec@samsung.com | 2) Pokud jste odborným pracovníkem a hledáte informace ohledně bezpečné demontáže produktu, napište e-mail na adresu: erims.sec@samsung.com. |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| No | Danish(DA) | German(DE) | Estonian(ET) | Greek(EL) |
|---|---|---|---|---|
| I | KOMMISSIONENS FORORDNING (EU) Nr. 813/2013 | VERORDNUNG (EU) Nr. 813/2013 DER KOMMISSION | KOMISJONI MÄÄRUS (EL) nr 813/2013, | ΚΑΝΟΝΙΣΜΟΣ (ΕΕ) αριθ. 813/2013 ΤΗΣ ΕΠΙΤΡΟΠΗΣ |
| II | Kravene til miljøvenligt design af anlæg til rumopvarmning | Die Ökodesign-Anforderungen an Raumheizgerät | Ökodisaini nõuded ruumi kütmiseks | Οι απαιτήσεις οικολογικού σχεδιασμού για θερμαντήρας χώρου |
| A | Model(ler): [Information, som identificerer den eller de modeller, som oplysningerne vedrører] | Modell(e): (Angaben zur Bestimmung des Modells/der Modelle, auf das/die sich die Angaben beziehen) | Mudel(id): [mudelit (mudeleid) iseloomustavad näitajad] | Μοντέλο(-α): [πληροφορίες για την ταυτοποίηση του μοντέλου (των μοντέλων) που αφορούν οι πληροφορίες] |
| B | Luft-vand-varmepumpe: [ja/nej] | Luft-Wasser-Wärmepumpe: (Ja/Nein) | Õhu-vee-soojuspump: [jah/ei] | Αντλία θερμότητας αέρα-νερού: [ναι/όχι] |
| C | Vand-vand-varmepumpe: [ja/nej] | Wasser-Wasser-Wärmepumpe: (Ja/Nein) | Vee-vee-soojuspump: [jah/ei] | Αντλία θερμότητας νερού-νερού: [ναι/όχι] |
| D | Brine-vand-varmepumpe: [ja/nej] | Sole-Wasser-Wärmepumpe: (Ja/Nein) | Soojuskandja-vee-soojuspump: [jah/ei] | Αντλία θερμότητας άλμης-νερού: [ναι/όχι] |
| E | Lavtemperaturvarmepumpe: [ja/nej] | Niedertemperatur-Wärmepumpe: (Ja/Nein) | Külma kliima soojuspump: [jah/ei] | Αντλία θερμότητας χαμηλής θερμοκρασίας: [ναι/όχι] |
| F | Udstyret med supplerende forsyningsanlæg: [ja/nej] | Mit Zusatzheizgerät: (Ja/Nein) | Koos lisakütteseadmega: [jah/ei] | Εξοπλισμένος με συμπληρωματικό θερμαντήρα: [ναι/όχι] |
| G | Varmepumpeanlæg til kombineret rum- og brugsvandsopvarmning: [ja/nej] | Kombiheizgerät mit Wärmepumpe: (Ja/Nein) | Soojuspumbaga veesoojendi-kütteseade: [jah/ei] | Θερμαντήρας συνδυασμένης λειτουργίας με αντλία θερμότητας: [ναι/όχι] |
| H | Parametre skal angives for middeltemperaturanvendelse, dog ikke for lavtemperaturvarmepumper. For lavtemperaturvarmepumper angives parametre for lavtemperaturanvendelse. | Die Parameter sind für eine Mitteltemperaturanwendung anzugeben, außer für Niedertemperatur-Wärmepumpen. Für Niedertemperatur-Wärmepumpen sind die Parameter für eine Niedertemperaturanwendung anzugeben. | Näitajad esitatakse keskmise temperatuuriga kasutuse kohta, välja arvatud külma kliima soojuspumbad. Külma kliima soojuspumpade näitajad esitatakse madalatemperatuurilise kasutuse kohta. | Δηλώνονται οι παράμετροι για εφαρμογή μέσης θερμοκρασίας, εξαιρουμένων των αντλιών θερμότητας χαμηλής θερμοκρασίας. Για τις αντλίες θερμότητας χαμηλής θερμοκρασίας δηλώνονται οι παράμετροι για εφαρμογή χαμηλής θερμοκρασίας. |
| I | Parametre skal angives for gennemsnitlige klimaforhold. | Die Parameter sind für durchschnittliche Klimaverhältnisse anzugeben: | Näitajad esitatakse keskmiste kliimatingimuste kohta. | Δηλώνονται οι παράμετροι για μέσες κλιματικές συνθήκες. |
| J | Element | Angabe | Näitaja | Χαρακτηριστικό |
| K | Symbol | Symbol | Tähis | Σύμβολο |
| L | Værdi | Wert | Väärtus | Τιμή |
| M | Enhed | Einheit | Ühik | Μονάδα |
| N | Nominel nytteeffekt (*) | Wärmenennleistung (3) | Nimisoojusvõimsus (*) | Ονομαστική θερμική ισχύς (*) |
| O | Prated | Prated | Prated | Prated |
| P | Årsvirkningsgrad ved rumopvarmning | Jahreszeitbedingte Raumheizungs-Energieeffizienz | Kütmise sesoonne energiatõhusus | Ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου |
| Q | Angivet varmeydelse for dellast ved indetemperatur på 20 °C og udetemperatur på Tj | Angegebene Leistung für Teillast bei Raumlufttemperatur 20 °C und Außenlufttemperatur Tj | Esitatud soojusvõimsus ruumitemperatuurile 20 °C ja välistemperatuurile Tj vastaval (osalise koormuse) võimsustarbel | Δηλωμένη θερμαντική ισχύς για μερικό φορτίο σε θερμοκρασία εσωτερικού χώρου 20 °C και θερμοκρασία εξωτερικού χώρου Tj |
| R | Angivet effektfaktor eller primærenergi-effektfaktor for dellast ved indetemperatur på 20 °C og udetemperatur på Tj | Angegebene Leistungszahl oder Heizzahl für Teillast bei Raumlufttemperatur 20 °C und Außenlufttemperatur Tj | Esitatud soojustegur (primaarenergiategur) ruumitemperatuurile 20 °C ja välistemperatuurile Tj vastaval (osalise koormuse) võimsustarbel | Δηλωμένος συντελεστής απόδοσης ή λόγος πρωτογενούς ενέργειας σε θερμοκρασία εσωτερικού χώρου 20 °C και θερμοκρασία εξωτερικού χώρου Tj |
| S | COPd eller PERd | COPd oder PERd | COPd või PERd | COPd ή PERd |
| T | Tj = bivalenttemperatur | Tj = Bivalenztemperatur | Tj = tasakaalutemperatuur | Tj = δίτιμη θερμοκρασία |
| U | Tj = temperaturgrænse for drift | Tj = Betriebstemperaturgrenzwert | Tj = piirtöötemperatuur | Tj = οριακή θερμοκρασία λειτουργίας |
| V | For luft-vand-varmepumper: Tj = – 15 °C (hvis TOL < – 20 °C) | Für Luft-Wasser-Wärmepumpen: Tj = – 15 °C (wenn TOL < – 20 °C) | Õhu-vee-soojuspump: Tj = – 15 °C (kui TOL < – 20 °C) | Για αντλίες θερμότητας αέρα-νερού: Tj = – 15 °C (εάν TOL < – 20 °C) |
| W | Bivalenttemperatur | Bivalenztemperatur | Tasakaalutemperatuur | Δίτιμη θερμοκρασία |
| X | For luft-vand-varmepumper: Temperaturgrænse for drift | Für Luft-Wasser-Wärmepumpen: Betriebsgrenzwert-Temperatur | Õhu-vee-soojuspump: piirtöötemperatuur | Για αντλίες θερμότητας αέρα-νερού: Οριακή θερμοκρασία λειτουργίας |
| Y | Cyklusintervalydelse for opvarmning | Leistung bei zyklischem Intervall-Heizbetrieb | Tsükli soojusvõimsus | Θερμαντική ισχύς κατά τη διάρκεια ενός κύκλου |
| Z | Cyklusintervalydelse | Leistungszahl bei zyklischem Intervallbetrieb | Tsükli tõhusus või primaarenergiategur | Απόδοση κατά τη διάρκεια ενός κύκλου |
| AA | COPcyc eller PERcyc | COPcyc oder PERcyc | COPcyc või PERcyc | COPcyc ή PERcyc |
| AB | Koefficient for effektivitetstab (**) | Minderungsfaktor (4) | Kaotegur (**) | Συντελεστής υποβάθμισης (**) |
| AC | Temperaturgrænse for vandopvarmning | Grenzwert der Betriebstemperatur des Heizwassers | Küttevee piirtöötemperatuur | Οριακή θερμοκρασία λειτουργίας για θέρμανση νερού |
| AD | Elforbrug i andre tilstande end aktiv tilstand | Stromverbrauch in anderen Betriebsarten als dem Betriebszustand | Võimsustarve ajal, kui seade ei ole aktiivses seisundis | Κατανάλωση ισχύος σε καταστάσεις πλην της ενεργού κατάστασης |
| AE | Supplerende forsyningsanlæg | Zusatzheizgerät | Lisakütteseade | Συμπληρωματικός θερμαντήρας |

| No | Danish(DA) | German(DE) | Estonian(ET) | Greek(EL) |
|---|---|---|---|---|
| AF | Slukket tilstand | Aus-Zustand | Väljalülitatud seisund | Κατάσταση εκτός λειτουργίας |
| AG | Termostat fra-tilstand | Thermostat-aus-Zustand | Termostaadiga välja lülitatud seisund | Κατάσταση χωρίς λειτουργία θερμοστάτη |
| AH | Standbytilstand | Bereitschaftszustand | Ooteseisund | Κατάσταση αναμονής |
| AI | Krumtaphusopvarmningstilstand | Betriebszustand mit Kurbelgehäuseheizung | Kambrikütte seisund | Λειτουργία θερμαντήρα στροφαλοθαλάμου |
| AJ | Energiinputtype | Art der Energiezufuhr | Sisendenergia liik | Τύπος εισερχόμενης ενέργειας |
| AK | Andre elementer | Sonstige Angaben | Muud näitajad | Άλλα χαρακτηριστικά |
| AL | Ydelsesregulering | Leistungssteuerung | Võimsuse reguleerimine | Ρύθμιση ισχύος |
| AM | fast/variabel | fest/veränderlich | Muutumatu/muudetav | σταθερή/μεταβλητή |
| AN | For luft-vand-varmepumper: Nominel luftgennemstrømning, ude | Für Luft-Wasser-Wärmepumpen: Nenn-Luftdurchsatz, außen | Õhu-vee-soojuspump: õhu nimivooluhulk, väliskeskkonnas | Για αντλίες θερμότητας αέρα-νερού: Ονομαστική παροχή αέρα, εξωτερικού χώρου |
| AO | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| AP | Lydeffektniveau, inde/ude | Schallleistungspegel, innen/außen | Müravõimsustase, siseruumis/väliskeskkonnas | Στάθμη ηχητικής ισχύος, εσωτερικού/εξωτερικού χώρου |
| AQ | Emissioner af kvælstofilter | Stickoxidausstoß | Lämmastikoksiidide heide | Εκπομπές οξειδίων του αζώτου |
| AR | For vand/brine-vand-varmepumper: nominel brine- eller vandgennemstrømning, varmeveksler, ude | Für Wasser/Sole-Wasser-Wärmepumpen: Wasser- oder Sole-Nenndurchsatz | Vee-soojuskandja-vee-soojuspump: soojuskandja või vee nimivooluhulk, soojusvaheti väljas | Για αντλίες θερμότητας νερού-/άλμης-νερού: Ονομαστική παροχή άλμης ή νερού, εναλλάκτη θερμότητας εξωτερικού χώρου |
| AS | For varmepumpeanlæg til kombineret rum- og brugsvandsopvarmning: | Kombiheizgerät mit Wärmepumpe | Soojuspumbaga veesoojendi-kütteseade: | Για θερμαντήρα συνδυασμένης λειτουργίας με αντλία θερμότητας: |
| AT | Angivet forbrugsprofil | Angegebenes Lastprofil | Esitatud koormusprofiil | Δηλωμένο προφίλ φορτίου |
| AU | Energieffektivitet ved vandopvarmning | Warmwasserbereitungs-Energieeffizienz | Vee soojendamise kasutegur | Ενεργειακή απόδοση θέρμανσης νερού |
| AV | Dagligt elforbrug | Täglicher Stromverbrauch | Päevane elektrienergiatarve | Ημερήσια κατανάλωση ηλεκτρικής ενέργειας |
| AW | Dagligt brændselsforbrug | Täglicher Brennstoffverbrauch | Päevane kütteenergiatarve | Ημερήσια κατανάλωση καυσίμου |
| AX | Kontaktoplysninger | Kontakt | Kontaktandmed | Στοιχεία επικοινωνίας |
| AY | (*) For varmepumpeanlæg til rumopvarmning og varmepumpeanlæg til kombineret rum- og brugsvandsopvarmning er den nominelle nytteeffekt Prated lig med den dimensionerende last for opvarmning Pdesignh, og den nominelle nytteeffekt for et supplerende forsyningsanlæg Psup er lig med den supplerende varmeydelse sup(Tj). | (*) Für Heizgeräte und Kombiheizgeräte mit Wärmepumpe ist die Wärmenennleistung Prated gleich der Auslegungslast im Heizbetrieb Pdesignh und die Wärmenennleistung eines Zusatzheizgerätes Psup gleich der zusätzlichen Heizleistung sup(Tj). | (*) Soojuspumbaga kütteseadmete ja soojuspumbaga veesoojendite-kütteseadmete nimisoojusvõimsus Prated on võrdne arvutusliku soojusvõimsusega Pdesignh, lisakütteseadme Psup nimisoojusvõimsus on võrdne lisakütteseadme soojusvõimsusega sup(Tj). | (*) Για θερμαντήρες χώρου με αντλία θερμότητας και θερμαντήρες συνδυασμένης λειτουργίας με αντλία θερμότητας, η ονομαστική θερμική ισχύς Prated ισούται με το θερμαντικό φορτίο σχεδιασμού Pdesignh , και η ονομαστική θερμική ισχύς του συμπληρωματικού θερμαντήρα Psup ισούται με τη συμπληρωματική θερμαντική ισχύ sup(Tj). |
| AZ | (**) Hvis Cdh ikke bestemmes ved måling, er koefficienten for effektivitetstab som standard Cdh = 0,9. | (**) Wird der Cdh-Wert nicht durch Messung bestimmt, gilt für den Minderungsfaktor der Vorgabewert Cdh = 0,9. | (**) Kui tegur Cdh on määramata, võetakse vaikimisi Cdh = 0,9. | (**) Εάν ο Cdh δεν προσδιοριστεί με μέτρηση, ο εξ ορισμού συντελεστής υποβάθμισης είναι Cdh = 0,9. |
| BA | 1) Du skal tage de forholdsregler, der er beskrevet i installations-/brugervejledningen, når du samler, installerer og vedligeholder dette produkt. | 1) Beim Montieren, Installieren und Warten des Geräts müssen die im Installations-/Benutzerhandbuch beschriebenen Vorsichtsmaßnahmen eingehalten werden. | 1) Seadme kokkupanekul, paigaldamisel ja hooldusel tuleb rakendada paigaldus-/kasutusjuhendis kirjeldatud ettevaatusabinõusid | 1) Όταν συναρμολογείτε, εγκαθιστάτε και συντηρείτε αυτό το προϊόν, πρέπει να λαμβάνετε τις προφυλάξεις που περιγράφονται στο εγχειρίδιο εγκατάστασης/χρήσης. |
| BB | 2) Hvis du er en erhvervsdrivende, der søger information om, hvordan man afmonterer støvsugeren uden at ødelægge nogle dele, bedes du sende en e-mail til: erims.sec@samsung.com | 2) Wenn Sie als Fachkraft Informationen zu zerstörungsfreier Demontage und Zerlegung benötigen, schreiben Sie bitte eine E-Mail an: erims.sec@samsung.com. | 2) Kui olete professionaal, kes otsib teavet mittekahjustava lahtivõtmise ja demonteerimise kohta, saatke palun e-kiri aadressil: erims.sec@samsung.com. | 2) Εάν είστε επαγγελματίας και αναζητάτε πληροφορίες σχετικά με την αποσυναρμολόγηση χωρίς να προκληθούν καταστροφές, στείλτε μήνυμα ηλεκτρονικού ταχυδρομείου στη διεύθυνση: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| No | French(FR) | Croatian(HR) | Italian(IT) | Latvian(LV) |
|---|---|---|---|---|
| I | RÈGLEMENT (UE) No 813/2013 DE LA COMMISSION | UREDBA KOMISIJE (EU) br. 813/2013 | REGOLAMENTO (UE) N. 813/2013 DELLA COMMISSIONE | KOMISIJAS REGULA (ES) Nr. 813/2013 |
| II | Les exigences d'écoconception applicables aux dispositif de chauffage des locaux | Zahtjevi za ekološki dizajn grijač prostora | Le specifiche per la progettazione ecocompatibile per apparecchio il riscaldamento d'ambiente | Ekodizaina prasības par telpu sildītājs |
| A | Modèle(s): [informations d'identification du ou des modèles concernés] | Model(i): [informacije za identifikaciju modela na kojii(-e) se informacije odnose] | Modelli: [Informazioni per identificare i modelli cui sono riferibili le informazioni] | Modelis(-ļi): [informācija, ar ko identificē modeli(-ļus), uz kuru(-iem) informācija attiecas] |
| B | Pompes à chaleur air-eau: [oui/non] | Toplinska crpka zrak-voda: [da/ne] | Pompa di calore aria/acqua: [si/no] | Gaiss–ūdens siltumsūknis: [jā/nē] |
| C | Pompes à chaleur eau-eau: [oui/non] | Toplinska crpka voda-voda: [da/ne] | Pompa di calore acqua/acqua: [si/no] | Ūdens–ūdens siltumsūknis: [jā/nē] |
| D | Pompe à chaleur eau glycolée-eau: [oui/non] | Toplinska crpka slana voda-voda: [da/ne] | Pompa di calore salamoia/acqua: [si/no] | Sālsūdens–ūdens siltumsūknis: [jā/nē] |
| E | Pompes à chaleur basse température: [oui/non] | Niskotemperaturna toplinska crpka: [da/ne] | Pompa di calore a bassa temperatura: [si/no] | Zemas temperatūras diapazona siltumsūknis: [jā/nē] |
| F | Équipée d'un dispositif de chauffage d'appoint: [oui/non] | Opremljena dodatnim grijačem: [da/ne] | Con riscaldatore supplementare: [si/no] | Aprīkots ar papildu sildītāju: [jā/nē] |
| G | Dispositif de chauffage mixte par pompe à chaleur: [oui/non] | Kombinirani grijači s toplinskom crpkom: [da/ne] | Apparecchio misto a pompa di calore: [si/no] | Siltumsūkņa kombinētais sildītājs: [jā/nē] |
| H | Les paramètres sont déclarés pour l'application à moyenne température, excepté pour les pompes à chaleur basse température. Pour les pompes à chaleur basse température, les paramètres sont déclarés pour l'application à basse température. | Parametri se navode za uporabu pri srednjoj temperaturi, osim za niskotemperaturne toplinske crpke. Za niskotemperaturne toplinske crpke parametri se navode za uporabu pri niskoj temperaturi. | I parametri sono dichiarati per l'applicazione a temperatura media, tranne per le pompe di calore a bassa temperatura Per le pompe di calore a bassa temperatura, i parametri sono dichiarati per l'applicazione a bassa temperatura. | Parametrus deklarē izmantošanai vidējas temperatūras diapazonā, izņemot zemas temperatūras diapazona siltumsūkņiem. Zemas temperatūras diapazona siltumsūkņiem parametrus deklarē izmantošanai zemas temperatūras diapazonā. |
| I | Les paramètres sont déclarés pour les conditions climatiques moyennes. | Parametri se navode za prosječne klimatske uvjete. | I parametri sono dichiarati per condizioni climatiche medie. | Parametrus deklarē vidējiem klimatiskajiem apstākļiem. |
| J | Caractéristique | Stavka | Elemento | Pozicija |
| K | Symbole | Oznaka | Simbolo | Apzīmējums |
| L | Valeur | Vrijednost | Valore | Vērtība |
| M | Unité | Jedinica | Unità | Vienība |
| N | Puissance thermique nominale (*) | Nazivna toplinska snaga (*) | Potenza termica nominale (*) | Nominālā siltuma jauda (*) |
| O | Prated | Prated | Pnominale | Prated |
| P | Efficacité énergétique saisonnière pour le chauffage des locaux | Sezonska energetska učinkovitost grijanja prostora | Efficienza energetica stagionale del riscaldamento d'ambiente | Telpu apsildes sezonas energoefektivitāte |
| Q | Puissance calorifique déclarée à charge partielle pour une température intérieure de 20 °C et une température extérieure Tj | Deklarirani ogrjevni kapacitet za djelomično opterećenje pri unutarnjoj temperaturi od 20 °C i vanjskoj temperaturi Tj | Capacità di riscaldamento dichiarata a carico parziale, con temperatura interna pari a 20 °C e temperatura esterna Tj | Deklarētā jauda sildīšanai pie daļējas slodzes, ja temperatūra telpās ir 20 °C un ārgaisa temperatūra ir Tj |
| R | Coefficient de performance déclaré ou coefficient sur énergie primaire déclaré à charge partielle pour une température intérieure de 20 °C et une température extérieure Tj | Deklarirani koeficijent učinkovitosti ili omjer primarne energije za djelomično opterećenje pri unutarnjoj temperaturi od 20 °C i vanjskoj temperaturi Tj | Coefficiente di prestazione dichiarato o indice di energia primaria per carico parziale, con temperatura interna pari a 20 °C e temperatura esterna Tj | Deklarētais lietderības koeficients vai primārās enerģijas patēriņa rādītājs pie daļējas slodzes, ja temperatūra telpā ir 20 °C un ārgaisa temperatūra ir Tj |
| S | COPd ou PERd | COPd ili PERd | COPd oppure PERd | COPd vai PERd |
| T | Tj = température bivalente | Tj = bivalentna temperatura | Tj = temperatura bivalente | Tj = bivalentā temperatūra |
| U | Tj = température limite de fonctionnement | Tj = granična radna temperatura | Tj = temperatura limite di esercizio | Tj = darba režīma robežtemperatūra |
| V | Pour les pompes à chaleur air-eau: Tj = – 15 °C (si TOL < – 20 °C) | Za toplinske crpke zrak-voda: Tj = – 15 °C (ako je TOL < – 20 °C) | Per le pompa di calore aria/acqua: Tj = – 15 °C (se TOL < – 20 °C) | Gaiss–ūdens siltumsūkņiem: Tj = – 15 °C (ja TOL < – 20 °C) |
| W | Température bivalente | Bivalentna temperatura | Temperatura bivalente | Bivalentā temperatūra |
| X | Pour les pompes à chaleur air-eau: température limite de fonctionnement | Za toplinske crpke zrak-voda: Granična radna temperatura | Per le pompe di calore aria/acqua: temperatura limite di esercizio | Gaiss–ūdens siltumsūkņiem: darba režīma robežtemperatūra |
| Y | Puissance calorifique sur un intervalle cyclique | Ogrjevni kapacitet intervala ciklusa | Ciclicità degli intervalli di capacità per il riscaldamento | Cikliskā intervāla jauda sildīšanai |
| Z | Efficacité sur un intervalle cyclique | Učinkovitost intervala ciklusa | Efficienza della ciclicità degli intervalli | Cikliskā intervāla efektivitāte |
| AA | COPcyc ou PERcyc | COPcyc ili PERcyc | COPcyc oppure PERcyc | COPcyc vai PERcyc |
| AB | Coefficient de dégradation (**) | Koeficijent degradacije (**) | Coefficiente di degradazione (**) | Pazeminājuma koeficients (**) |
| AC | Température maximale de service de l'eau de chauffage | Granična radna temperatura za grijanje vode | Temperatura limite di esercizio di riscaldamento dell'acqua | Ūdens uzsildīšanas darba režīma robežtemperatūra |

| No | French(FR) | Croatian(HR) | Italian(IT) | Latvian(LV) |
|---|---|---|---|---|
| AD | Consommation d'électricité dans les modes autres que le mode actif | Potrošnja energije u načinima koji ne uključuju aktivni način rada | Consumo energetico in modi diversi dal modo attivo | Jauda režīmos, kas nav darba režīms |
| AE | Dispositif de chauffage d'appoint | Dodatni grijač | Riscaldatore supplementare | Papildu sildītājs |
| AF | Mode arrêt | Stanje isključenosti | Modo spento | Izslēgts režīms |
| AG | Mode arrêt par thermostat | Stanje isključenosti termostata | Modo termostato spento | Izslēgta termostata režīms |
| AH | Mode veille | Stanje mirovanja | Modo stand-by | Gaidstāves režīms |
| AI | Mode résistance de carter active | Način rada grijača kućišta | Modo riscaldamento del carter | Kartera sildītāja režīms |
| AJ | Type d'énergie utilisée | Vrsta utrošene energije | Tipo di alimentazione energetica | Pievadītās enerģijas veids |
| AK | Autres caractéristiques | Druge stavke | Altri elementi | Citas pozīcijas |
| AL | Régulation de la puissance | Upravljanje kapacitetom | Controllo della capacità | Jaudas regulēšana |
| AM | fixe/variable | fiksno/promjenjivo | fisso/variabile | fiksēta/maināma jauda |
| AN | Pour les pompes à chaleur air-eau: débit d'air nominal, à l'extérieur | Za toplinsku crpku zrak-voda: Nazivna stopa protoka zraka, na otvorenom | Per le pompe di calore aria/acqua: portata d'aria, all'esterno | Gaiss–ūdens siltumsūkņiem: nominālā gaisa caurplūde, ārpus telpām |
| AO | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| AP | Niveau de puissance acoustique, à l'intérieur/à l'extérieur | Razina zvučne snage, unutra/vani | Livello della potenza sonora, all'interno/ all'esterno | Akustiskās jaudas līmenis telpās/ārpus telpām |
| AQ | Émissions d'oxydes d'azote | Emisija dušikovog oksida | Emissioni di ossidi di azoto | Slāpekļa oksidu emisijas |
| AR | Pour les pompes à chaleur eau-eau ou eau glycolée-eau: débit nominal d'eau glycolée ou d'eau, échangeur thermique extérieur | Za toplinske crpke voda/slana voda-voda: Nazivna stopa protoka slane vode ili vode, na vanjskom izmjenjivaču topline | Per le pompe di calore acqua/acqua e salamoia/acqua: flusso di salamoia o acqua nominale, scambiatore di calore all'esterno | Ūdens vai sālsūdens–ūdens siltumsūkņiem: nominālā sālsūdens vai ūdens caurplūde, ārtelpu siltummainis |
| AS | Pour les dispositifs de chauffage mixtes par pompe à chaleur: | Za kombinirane grijače s toplinskom crpkom: | Per gli apparecchi di riscaldamento misti a pompa di calore: | Siltumsūkņa kombinētajam sildītājam: |
| AT | Profil de soutirage déclaré | Deklarirani profil opterećenja | Profilo di carico dichiarato | Deklarētais slodzes profils |
| AU | Efficacité énergétique pour le chauffage de l'eau | Energetska učinkovitost zagrijavanja vode | Efficienza energetica di riscaldamento dell'acqua | Ūdens uzsildīšanas energoefektivitāte |
| AV | Consommation journalière d'électricité | Dnevna potrošnja električne energije | Consumo quotidiano di energia elettrica | Dienas elektroenerģijas patēriņš |
| AW | Consommation journalière de combustible | Dnevna potrošnja goriva | Consumo quotidiano di combustibile | Dienas kurināmā patēriņš |
| AX | Coordonnées de contact | Podaci za kontakt | Recapiti | Kontaktinformācija |
| AY | (*) Pour les dispositifs de chauffage des locaux par pompe à chaleur et les dispositifs de chauffage mixtes par pompe à chaleur, la puissance thermique nominale Prated est égale à la charge calorifique nominale Pdesignh et la puissance thermique nominale d'un dispositif de chauffage d'appoint Psup est égale à la puissance calorifique d'appoint sup(Tj). | (*) Za toplinske crpke za grijanje prostora i kombinirane grijače s toplinskom crpkom nazivna toplinska snaga Prated jednaka je projektnom ogrjevnom opterećenju Pdesignh, a nazivna toplinska snaga dodatnog grijača Psup jednaka je dodatnom ogrjevnom kapacitetu sup(Tj). | (*) Per gli apparecchi a pompa di calore per il riscaldamento d'ambiente e gli apparecchi di riscaldamento misti a pompa di calore, la potenza termica nominale Pnominale è pari al carico teorico per il riscaldamento Pdesignh e la potenza termica nominale di un riscaldatore supplementare Psup è pari alla capacità supplementare di riscaldamento sup(Tj). | (*) Siltumsūkņa telpu sildītājiem un siltumsūkņa kombinētajiem sildītājiem nominālā siltuma jauda Prated ir vienāda ar aprēķina slodzi sildīšanai Pdesignh un papildu sildītāja nominālā siltuma jauda Psup ir vienāda ar sildīšanas papildu jaudu sup(Tj). |
| AZ | (**) Si le Cdh n'est pas déterminé par des mesures, le coefficient de dégradation par défaut est Cdh = 0,9. | (**) Ako Cdh nije određen mjerenjem, standardni koeficijent degradacije je Cdh = 0,9. | (**) Se Cdh non è determinato mediante misurazione, il coefficiente di degradazione è Cdh = 0,9. | (**) Ja Cdh nenosaka, izmantojot mērījumus, tad standarta pazeminājuma koeficients ir Cdh = 0,9. |
| BA | 1) Des précautions, comme décrit dans le manuel d'installation/d'utilisation, doivent être prises lors du montage, de l'installation et de l'entretien de l'appareil. | 1) Prilikom sastavljanja, instalacije i održavanja proizvoda potrebno je poduzeti mjere opreza navedene u priručniku za instalaciju / korisničkom priručniku. | 1) Durante l'assiemaggio, l'installazione e la manutenzione di questo apparecchio vanno poste in atto tutte le avvertenze e le precauzioni che sono indicate nei manuali di installazione e per l'utente. | 1) Montāža un produkta apkope jāveic saskaņā ar montāžas/lietošanas instrukciju. |
| BB | 2) Si vous êtes un professionnel à la recherche des informations sur le démontage et le démantèlement, veuillez envoyer un e-mail à l'adresse: erims.sec@samsung.com | 2) Ako ste stručnjak u potrazi za informacijama o nerazornom rastavljanju i rasklapanju, pošaljite elektroničku poruku na adresu: erims.sec@samsung.com | 2) Se sei un tecnico e vuoi sapere come smontare in modo accurato e non distruttivo il prodotto, invia una email all'indirizzo: erims.sec@samsung.com | 2) Ja esat meistars, kas meklē informāciju, kā demontēt un izjaukt ierīci, to nesabojājot, sūtiet e-pasta vēstuli uz adresi: erims.sec@samsung.com. |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| No | Lithuanian(LT) | Hungarian(HU) | Maltese(MT) | Dutch(NL) |
|---|---|---|---|---|
| I | KOMISIJOS REGLAMENTAS (ES) Nr. 813/2013 | A BIZOTTSÁG 813/2013/EU RENDELETE | REGOLAMENT TAL-KUMMISSJONI (UE) Nru 813/2013 | VERORDENING (EU) Nr. 813/2013 VAN DE COMMISSIE |
| II | Ekologinio projektavimo reikalavimai už patalpų šildytuvas | A környezettudatos tervezésére vonatkozó követelményeket helyiségfűtő berendezés | Rekwiżiti tal-ekodisinn għall ħiter tal-post | De eisen inzake ecologisch ontwerp voor ruimteverwarmingstoestel |
| A | Modelis (-iai) [modelio (-ų), kuriam (-iems) taikoma informacija, identifikavimo duomenys] | Modell(ek): [az információk tárgyát képező modell(ek) megjelölése] | Mudell(i): [tagħrif li bih jiġi identifikat il-mudell/jiġu identifikati l-mudelli li magħhom huwa relatat dan it-tagħrif] | Model(len): [informatie ter bepaling van het model waarop de informatie betrekking heeft] |
| B | Oro-vandens šilumos siurblys [taip / ne] | Levegő–víz típusú hőszivattyú: [igen/nem] | Pompa tas-sħana arja-ilma: [iva/le] | Lucht/water-warmtepomp: [ja/neen] |
| C | Vandens-vandens šilumos siurblys [taip / ne] | Víz–víz típusú hőszivattyú: [igen/nem] | Pompa tas-sħana ilma-ilma: [iva/le] | Water/water-warmtepomp: [ja/neen] |
| D | Tirpalo-vandens šilumos siurblys [taip / ne] | Sós víz–víz típusú hőszivattyú: [igen/nem] | Pompa tas-sħana salmura-ilma: [iva/le] | Pekel/water-warmtepomp: [ja/neen] |
| E | Žematemperatūris šilumos siurblys [taip / ne] | Alacsony hőmérsékletű hőszivattyú: [igen/nem] | Pompa tas-sħana b'temperatura baxxa: [iva/le] | Lagetemperatuurwarmtepomp: [ja/neen] |
| F | Ar yra papildomas šildytuvas [taip / ne] | Rendelkezik-e kiegészítő fűtőberendezéssel: [igen/nem] | Mgħammar b'ħiter supplimentari: [iva/le] | Uitgerust met aanvullend verwarmingstoestel: [ja/neen] |
| G | Kombinuotasis šildytuvas su šilumos siurbliu [taip / ne] | Hőszivattyús kombinált fűtőberendezés: [igen/nem] | Ħiter ikkombinat b'pompa tas-sħana: [iva/le] | Combinatieverwarmingstoestel met warmtepomp: [ja/neen] |
| H | Pateikiami naudojimo esant vidutinei temperatūrai parametrai, išskyrus atvejus, kai teikiama informacija apie žematemperatūrius šilumos siurblius. Žematemperatūrių šilumos siurblių atveju pateikiami naudojimo esant žemai temperatūrai parametrai. | A paramétereket az alacsony hőmérsékletű hőszivattyúk kivételével a közepes hőmérsékletű használatra vonatkozóan kell megadni. Az alacsony hőmérsékletű hőszivattyúk esetében a paramétereket az alacsony hőmérsékletű használatra vonatkozóan kell megadni. | Il-parametri għandhom jingħataw għal applikazzjoni b'temperatura medja, filwaqt li għall-pompi tas-sħana b'temperatura baxxa. Għall-pompi tas-sħana b'temperatura baxxa, il-parametri għandhom jingħataw għal applikazzjoni b'temperatura baxxa. | Parameters moeten worden opgegeven voor toepassing op middelhoge temperatuur, uitgezonderd voor lagetemperatuurwarmtepompen. Voor lagetemperatuurwarmtepompen moeten parameters worden opgegeven bij toepassing op lage temperatuur. |
| I | Pateikiami naudojimo vidutinėmis klimato sąlygomis parametrai. | A paramétereket az átlagos éghajlati viszonyokra vonatkozóan kell megadni. | Il-parametri għandhom jingħataw għall-kundizzjonijiet klimatiċi medji. | Parameters moeten worden opgegeven voor gemiddelde klimaatomstandigheden. |
| J | Parametras | Elem | Fattur | Kenmerk |
| K | Sutartinis ženklas | Jel | Simbolu | Symbool |
| L | Vertė | Érték | Valur | Waarde |
| M | Vienetai | Mértékegység | Unità | Eenheid |
| N | Vardinis šilumos atidavimas (*) | Mért hőteljesítmény (*) | Potenza termika nominali (*) | Nominale warmteafgifte (*) |
| O | Prated | Prated | Prated | Prated |
| P | Sezoninis energijos patalpoms šildyti vartojimo efektyvumas | Szezonális helyiségfűtési hatásfok | Effiċjenza enerġetika staġonali tat-tisħin tal-post | Seizoensgebonden energie-efficiëntie van ruimteverwarming |
| Q | Deklaruotasis šildymo pajėgumas su daline apkrova, esant 20 °C patalpų temperatūrai ir lauko temperatūrai Tj. | Névleges fűtőteljesítmény részterhelés mellett, 20 °C beltéri és Tj kültéri hőmérsékleten: | Kapaċità tat-tisħin iddikjarata għal tagħbija parzjali b'temperatura ta' ġewwa ta' 20 °C u temperatura ta' barra ta' Tj | Opgegeven verwarmingsvermogen voor deellast bij een binnentemperatuur van 20 °C en een buitentemperatuur Tj |
| R | Deklaruotasis veiksmingumo koeficientas arba pirminės energijos santykis su daline apkrova, esant 20 °C patalpų temperatūrai ir lauko temperatūrai Tj. | Névleges fűtési jóságfok vagy primerenergia-hányados részterhelés mellett, 20 °C beltéri és Tj kültéri hőmérsékleten | Koeffiċjent iddikjarat tal-prestazzjoni jew proporzjon iddikjarat tal-enerġija primarja għal tagħbija parzjali b'temperatura ta' ġewwa ta' 20 °C u temperatura ta' barra ta' Tj | Opgegeven prestatiecoëfficiënt of primaire-energie-verhouding voor deellast bij een binnentemperatuur van 20 °C en buitentemperatuur Tj |
| S | COPd arba PERd | COPd vagy PERd | COPd jew PERd | COPd or PERd |
| T | Tj = perėjimo į dvejopo šildymo režimą temperatūra | Tj = bivalens hőmérséklet | Tj = temperatura bivalenti | Tj = bivalente temperatuur |
| U | Tj = ribinė veikimo temperatūra | Tj = megengedett üzemi hőmérséklet | Tj = temperatura tal-limitu tat-tħaddim | Tj = uiterste bedrijfstemperatuur |
| V | Oro-vandens šilumos siurblių atveju – Tj = – 15 °C (jei TOL < – 20 °C) | Levegő–víz típusú hőszivattyúk esetében: Tj = – 15 °C (ha TOL < – 20 °C) | Għall-pompi tas-sħana arja-ilma: Tj = – 15 °C (jekk TOL < – 20 °C) | Voor lucht/water-warmtepompen: Tj = – 15 °C (als TOL < – 20 °C) |
| W | Perėjimo į dvejopo šildymo režimą temperatūra | Bivalens hőmérséklet | Temperatura bivalenti | Bivalente temperatuur |
| X | Oro-vandens šilumos siurblių atveju – Ribinė veikimo temperatūra | Levegő–víz típusú hőszivattyúk esetében: Megengedett üzemi hőmérséklet | Għall-pompi tas-sħana arja-ilma: Temperatura tal-limitu tat-tħaddim | Voor lucht/water-warmtepompen: uiterste bedrijfstemperatuur |
| Y | Ciklinis pajėgumas šildymo režimu | Fűtési ciklusteljesítmény | Kapaċità tal-intervall ċikliku għat-tisħin | Cyclisch-intervalvermogen voor verwarming |
| Z | Ciklinis efektyvumas | Ciklikus jóságfok | Effiċjenza tal-intervall ċikliku | Cyclisch-intervalefficiëntie |
| AA | COPcyc arba PERcyc | COPcyc vagy PERcyc | COPcyc jew PERcyc | COPcyc or PERcyc |
| AB | Blogėjimo koeficientas (**) | Degradációs tényező (**) | Koeffiċjent ta' degradazzjoni (**) | Verliescoëfficiënt (**) |
| AC | Šildymo vandens ribinė veikimo temperatūra | Fűtővíz megengedett üzemi hőmérséklete | Temperatura limitu tat-tħaddim għall-ilma tat-tisħin | Uiterste bedrijfstemperatuur van sanitair water |

| No | Lithuanian(LT) | Hungarian(HU) | Maltese(MT) | Dutch(NL) |
|---|---|---|---|---|
| AD | Vartojamoji galia ne aktyviaja veiksena | Energiafogyasztás a főfunkción kívüli üzemmódokban | Konsum tal-enerġija fil-modalitajiet minbarra dik attiva | Elektriciteitsverbruik in andere standen dan de actieve modus |
| AE | Papildomas šildytuvas | Kiegészítő fűtőberendezés | Ħiter supplimentari | Aanvullend verwarmingstoestel |
| AF | Išjungties veiksena | Kikapcsolt üzemmód | Modalità Mitfi | Uit-stand |
| AG | Termostato išjungties veiksena | Termosztát által kikapcsolt üzemmód | Modalità bit-termostat mitfi | Thermostaat-uit-stand |
| AH | Budėjimo veiksena | Készenléti üzemmód | Modalità Stennija | Stand-by-stand |
| AI | Karterio šildymo veiksena | Forgattyúház-fűtési üzemmód | Modalità tal-ħiter tal-kisi tal-krank | Carterverwarming-stand |
| AJ | Tiekiamos energijos rūšis | Energiabevitel jellege | Tip ta' kontribut tal-enerġija | Soort energie-input |
| AK | Kiti parametrai | További elemek | oġġetti oħra | Andere kenmerken |
| AL | Pajėgumo valdymas | Teljesítményszabályozás | Kontroll tal-kapaċità | Vermogenscontrole |
| AM | pastovus/kintamas | rögzített/állítható | fiss/varjabbli | vast/variabel |
| AN | Oro-vandens šilumos siurblių atveju – vardinis oro srautas (lauke) | Levegő–víz típusú hőszivattyúk esetében: Mért légtömegáram, kültéri | Għall-pompi tas-sħana arja-ilma: Rata nominali ta' fluss tal-arja fuq barra | Voor lucht/water-warmtepompen: nominaal luchtdebiet, buiten |
| AO | $m^3/h$ | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| AP | Garso galios lygis (patalpoje/lauke) | Hangteljesítményszint, beltéri/kültéri | Livell ta' qawwa tal-ħoss, fuq barra/fuq ġewwa | Geluidsvermogensniveau, binnen/buiten |
| AQ | Išmetamų azoto oksidų kiekis | Nitrogén-oxid-kibocsátás | Emissjonijiet tal-ossidi tan-nitroġenu | Emissies van stikstofoxiden |
| AR | Vandens-vandens ir tirpalo-vandens šilumos siurblių atveju – vardinis tirpalo arba vandens srautas (lauko šilumokaityje) | Víz–/sós víz–víz típusú hőszivattyúk esetében: Mért sósvíz- vagy vízáramlási sebesség, kültéri hőcserélővel | Għall-pompi tas-sħana ilma-/salmura-ilma: Rata nominali ta' fluss tal-ilma jew tas-salmura, skambjatur tas-sħana li jkun jinsab fuq barra | Voor water/water- en pekel/water-warmtepompen: nominaal pekel- of waterdebiet, warmtewisselaar buiten |
| AS | Kombinuotojo šildytuvo su šilumos siurbliu atveju | Hőszivattyús kombinált fűtőberendezés esetében: | Għall-ħiters ikkombinati b'pompa tas-sħana: | Voor combinatieverwarmingstoestellen met warmtepomp: |
| AT | Deklaruotasis apkrovos profilis | Névleges terhelési profil | Profil tat-tagħbija ddikjarat | Opgegeven capaciteitsprofiel |
| AU | Energijos vandeniui šildyti vartojimo efektyvumas | Vízmelegítési hatásfok | Effiċjenza enerġetika tat-tishin tal-ilma | Energie-efficiëntie van waterverwarming |
| AV | Elektros energijos suvartojimas per parą | Napi villamosenergia-fogyasztás | Konsum ta' kuljum tal-elettriku | Dagelijks elektriciteitsverbruik |
| AW | Kuro suvartojimas per parą | Napi tüzelőanyag-fogyasztás | Konsum ta' kuljum tal-fjuwil | Dagelijks brandstofverbruik |
| AX | Kontaktiniai duomenys | Elérhetőség | Dettalji ta' kuntatt | Contactgegevens |
| AY | (*) Patalpų šildytuvų su šilumos siurbliu ir kombinuotųjų šildytuvų su šilumos siurbliu atveju vardinis šilumos atidavimas Prated lygus projektinei apkrovai šildymo režimu Pdesignh, o papildomo šildytuvo vardinis šilumos atidavimas Psup lygus papildomam šildymo pajėgumui sup(Tj). | (*) Hőszivattyús helyiségfűtő berendezések és hőszivattyús kombinált fűtőberendezések esetében a Prated mért hőteljesítmény egyenlő a Pdesignh tervezési fűtési terheléssel, emellett a kiegészítő fűtőberendezés Psup mért hőteljesítménye megegyezik a sup(Tj) kiegészítő fűtőteljesítménnyel. | (*) Għall-ħiters tal-post b'pompa tas-sħana u għall-ħiters ikkombinati b'pompa tas-sħana, il-potenza termika nominali, Prated, hija daqs it-tagħbija tad-disinn għat-tisħin, Pdesignh, u l-potenza termika nominali ta' ħiter supplimentari, Psup, hija daqs il-kapaċità supplimentari tat-tisħin, sup(Tj). | (*) Voor ruimteverwarmingstoestellen met warmtepomp en combinatieverwarmingstoestellen met warmtepomp, is de nominale warmteafgifte Prated gelijk aan de ontwerpbelasting voor verwarming Pdesignh, en is de nominale warmteafgifte van een aanvullend verwarmingstoestel Psup gelijk aan het aanvullend vermogen voor verwarming sup(Tj). |
| AZ | (**) Jei Cdh nenustatomas matuojant, naudojama numatytoji blogėjimo koeficiento vertė Cdh = 0,9. | (**) Amennyiben a Cdh értékét nem méréssel állapítják meg, akkor az alapértelmezett degradációs tényező: Cdh = 0,9. | (**) Jekk il-koeffiċjent ta' degradazzjoni, Cdh, ma jiġix stabbilit bil-kejl, b'mod awtomatiku jitqies li huwa ta' Cdh = 0,9. | (**) Als Cdh niet door meting is bepaald, is de standaardwaarde van de verliescoëfficiënt Cdh = 0,9. |
| BA | 1) Atliekant montavimo ir aptarnavimo darbus privaloma laikytis atsargumo priemonių, nurodytų diegimo/vartotojo vadove. | 1) A termék összeszerelése, telepítése és a karbantartása során tartsa be a telepítési/használati útmutatóban leírt óvintézkedéseket. | 1) Prekawzjonijiet kif deskritt fl-installazzjoni u l-utent manwali għandhom jittieħdu meta jlaqqa 'installazzjoni, u ż-żamma dan il-prodott | 1) De voorzorgsmaatregelen die in de gebruikershandleiding worden beschreven, moeten in acht worden genomen bij montage, installatie en onderhoud van dit product. |
| BB | 2) Jei esate specialistas ir ieškote informacijos kaip išardyti įrangą jos nepažeidžiant, parašykite el. laišką adresu: erims.sec@samsung.com | 2) Ha Ön szakember, és információt keres az ártalmatlan szétszereléssel és bontással kapcsolatban, kérjük, küldjön egy e-mailt az: erims.sec@samsung.com címre. | 2) Jekk inti persuna professionali u qed tfittex informazjoni fuq armar u zarmar li ma jaghmilx danni, jekk joghbok ibaghat email fuq: erims.sec@samsung.com | 2) Als u als professional op zoek bent naar informatie over de niet--destructieve demontage en ontmanteling, stuur dan een e-mail naar: erims.sec@samsung.com |

# COMMISSION REGULATION (EU) No 813/2013 [I)]

| No | Polish(PL) | Portuguese(PT) | Romanian(RO) | Slovak(SK) |
|---|---|---|---|---|
| I | ROZPORZĄDZENIE KOMISJI (UE) NR 813/2013 | REGULAMENTO (UE) N.o 813/2013 DA COMISSÃO | NARIADENIE KOMISIE (EÚ) č. 813/2013 | NARIADENIE KOMISIE (EÚ) č. 813/2013 |
| II | Wymogi dotyczące ekoprojektu dla ogrzewaczy pomieszczeń | Os requisitos de conceção ecológica para aquecedor de ambiente | Požiadavky na ekodizajn tepelný zdroj na vykurovanie priestoru | Požiadavky na ekodizajn tepelný zdroj na vykurovanie priestoru |
| A | Model(-e): [dane określające modele, do których odnoszą się informacje] | Modelo(s): [dados de identificação do(s) modelo(s) a que se refere a informação] | Model(-y): [informácie na určenie modelu(-ov), ktorého(-ých) sa informácie týkajú] | Model(-y): [informácie na určenie modelu(-ov), ktorého(-ých) sa informácie týkajú] |
| B | Pompa ciepła powietrze/woda: [tak/nie] | Bomba de calor ar-água: [sim/não] | Tepelné čerpadlo vzduch – voda: [áno/nie] | Tepelné čerpadlo vzduch – voda: [áno/nie] |
| C | Pompa ciepła woda/woda: [tak/nie] | Bomba de calor água-água: [sim/não] | Tepelné čerpadlo voda – voda: [áno/nie] | Tepelné čerpadlo voda – voda: [áno/nie] |
| D | Pompa ciepła solanka/woda: [tak/nie] | Bomba de calor salmoura-água: [sim/não] | Tepelné čerpadlo slaná voda – voda: [áno/nie] | Tepelné čerpadlo studničná voda – voda: [áno/nie] |
| E | Niskotemperaturowa pompa ciepła: [tak/nie] | Bomba de calor de baixa temperatura: [sim/não] | Nízkoteplotné tepelné čerpadlo: [áno/nie] | Nízkoteplotné tepelné čerpadlo: [áno/nie] |
| F | Wyposażona w dodatkowy ogrzewacz: [tak/nie] | Equipada com um aquecedor suplementar: [sim/não] | Vybavené dodatočným tepelným zdrojom: [áno/nie] | Vybavené dodatočným tepelným zdrojom: [áno/nie] |
| G | Wielofunkcyjny ogrzewacz z pompą ciepła: [tak/nie] | Aquecedor combinado com bomba de calor: [sim/não] | Kombinovaný tepelný zdroj – tepelné čerpadlo: [áno/nie] | Kombinovaný tepelný zdroj – tepelné čerpadlo: [áno/nie] |
| H | Parametry podaje się dla zastosowań w średnich temperaturach, z wyjątkiem niskotemperaturowych pomp ciepła. W przypadku niskotemperaturowych pomp ciepła parametry podaje się dla zastosowań w niskich temperaturach. | Devem ser indicados parâmetros para aplicação a média temperatura, exceto para as bombas de calor de baixa temperatura. Para as bombas de calor de baixa temperatura, devem ser indicados parâmetros para aplicação a baixa temperatura. | Parametre sa deklarujú pre použitie pri stredných teplotách, okrem tepelných čerpadiel pre nízke teploty. V prípade tepelných čerpadiel pre nízke teploty sa parametre deklarujú pre použitie pri nízkych teplotách. | Parametre majú byť deklarované pre použitie pri stredných teplotách, okrem tepelných čerpadiel pre nízke teploty. V prípade tepelných čerpadiel pre nízke teploty sa parametre majú byť deklarované pre použitie pri nízkych teplotách. |
| I | Parametry są deklarowane dla warunków klimatu umiarkowanego. | Os parâmetros declarados devem corresponder a condições climáticas médias. | Parametre sa deklarujú pre priemerné klimatické podmienky. | Parametre majú byť deklarované pre priemerné klimatické podmienky. |
| J | Parametr | Elemento | Položka | Položka |
| K | Symbol | Símbolo | Symbol | Symbol |
| L | Wartość | Valor | Hodnota | Hodnota |
| M | Jednostka | Unidade | Jednotka | Jednotka |
| N | Znamionowa moc cieplna (*) | Potência calorífica nominal (*) | Menovitý tepelný výkon (*) | Menovitý tepelný výkon (*) |
| O | Prated | Prated | Prated | Prated |
| P | Sezonowa efektywność energetyczna ogrzewania pomieszczeń | Eficiência energética do aquecimento ambiente sazonal | Sezónna energetická účinnosť vykurovania | Sezónna energetická účinnosť vykurovania |
| Q | Deklarowana wydajność grzewcza przy częściowym obciążeniu w temperaturze pomieszczenia 20 °C i temperaturze zewnętrznej Tj | Capacidade declarada para aquecimento a carga parcial a uma temperatura interior de 20 °C e a uma temperatura exterior Tj | Deklarovaný tepelný výkon pre čiastočné zaťaženie pri vnútornej teplote 20 °C a vonkajšej teplote Tj | Deklarovaný tepelný výkon pre čiastočné zaťaženie pri vnútornej teplote 20 °C a vonkajšej teplote Tj |
| R | Deklarowany wskaźnik efektywności lub wskaźnik zużycia energii pierwotnej przy częściowym obciążeniu w temperaturze pomieszczenia 20 °C i temperaturze zewnętrznej Tj | Coeficiente de desempenho declarado ou rácio de energia primária a carga parcial a uma temperatura interior de 20 °C e a uma temperatura exterior Tj | Deklarovaný vykurovací súčiniteľ alebo súčiniteľ využitia primárnej energie pre čiastočné zaťaženie pri vnútornej teplote 20 °C a vonkajšej teplote Tj | Deklarovaný vykurovací súčiniteľ alebo súčiniteľ využitia primárnej energie pre čiastočné zaťaženie pri vnútornej teplote 20 °C a vonkajšej teplote Tj |
| S | COPd lub PERd | COPd ou PERd | COPd alebo PERd | COPd alebo PERd |
| T | Tj = temperatura dwuwartościowa | Tj = temperatura bivalente | Tj = bivalentná teplota | Tj = teplota bivalencie |
| U | Tj = graniczna temperatura robocza | Tj = temperatura-limite de funcionamento | Tj = prevádzková hraničná teplota | Tj = hraničná prevádzková teplota |
| V | Pompy ciepła powietrze/woda: Tj = – 15 °C (jeżeli TOL < – 20 °C) | Para bombas de calor ar-água: Tj = – 15 °C (se TOL < – 20 °C) | Pre tepelné čerpadlá vzduch – voda: Tj = – 15 °C (ak TOL < – 20 °C) | Pre tepelné čerpadlá vzduch – voda: Tj = – 15 °C (ak TOL < – 20 °C) |
| W | Temperatura dwuwartościowa | Temperatura bivalente | Bivalentná teplota | Teplota bivalencie |
| X | Pompy ciepła powietrze/woda: Graniczna temperatura robocza | Para bombas de calor ar-água: Temperatura-limite de funcionamento | Pre tepelné čerpadlá vzduch – voda: Hraničná prevádzková teplota | Pre tepelné čerpadlá vzduch – voda: Hraničná prevádzková teplota |
| Y | Wydajność w okresie cyklu w interwale dla ogrzewania | Capacidade de aquecimento em intervalo cíclico | Výkon v rámci cyklického intervalu pre vykurovanie | Výkon v rámci cyklického intervalu pre vykurovanie |
| Z | Wydajność w okresie cyklu w interwale | Eficiência em intervalo cíclico | Súčiniteľ v rámci cyklického intervalu | Súčiniteľ v rámci cyklického intervalu |
| AA | COPcyc lub PERcyc | COPcyc ou PERcyc | COPcyc alebo PERcyc | COPcyc alebo PERcyc |
| AB | Współczynnik strat (**) | Coeficiente de degradação (**) | Súčiniteľ straty účinnosti (**) | Súčiniteľ straty účinnosti (**) |
| AC | Graniczna temperatura robocza dla podgrzewania wody | Temperatura-limite de funcionamento para água de aquecimento | Hraničná prevádzková teplota pre ohrev úžitkovej vody | Hraničná prevádzková teplota pre ohrev vody |

| No | Polish(PL) | Portuguese(PT) | Romanian(RO) | Slovak(SK) |
|---|---|---|---|---|
| AD | Pobór mocy w trybach innych niż aktywny | Consumo energético em modos distintos do modo ativo | Electrický príkon v iných režimoch ako aktívny režim | Spotreba el. energie v iných režimoch ako aktívnych |
| AE | Ogrzewacz dodatkowy | Aquecedor suplementar | Dodatočný tepelný zdroj | Dodatočný tepelný zdroj |
| AF | Tryb wyłączenia | Modo desligado | Režim vypnutia | Režim vypnutia |
| AG | Tryb wyłączonego termostatu | Modo termóstato desligado | Režim vypnutia termostatu | Režim vypnutia termostatu |
| AH | Tryb czuwania | Modo de vigília | Pohotovostný režim | Pohotovostný režim |
| AI | Tryb włączonej grzałki karteru | Modo de resistência do cárter | Režim ohrevu kľukovej skrine | Režim nahrievania oleja |
| AJ | Rodzaj pobieranej energii | Tipo de alimentação de energia | Typ elektrického príkonu | Typ elektrického príkonu |
| AK | Inne parametry | Outros elementos | Alţi parametri | Iné položky |
| AL | Regulacja wydajności | Controlo de capacidade | Regulácia výkonu | Regulácia výkonu |
| AM | wydajność stała/zmienna | fixo/variável | Pevná/premenlivá | Pevná/premenlivá |
| AN | Pompy ciepła powietrze/woda: znamionowy przepływ powietrza na zewnątrz | Para bombas de calor ar-água: Caudal de ar nominal, exterior | Pre tepelné čerpadlá vzduch – voda: Menovitý prietok vzduchu, von | Pre tepelné čerpadlá vzduch – voda: Menovitý prietok vzduchu, exteriér |
| AO | m3/h | m³/h | m3/h | m3/h |
| AP | Poziom mocy akustycznej w pomieszczeniu/ na zewnątrz | Nível de potência sonora interior/exterior | Vnútorná/vonkajšia hladina akustického výkonu | Vnútorná/vonkajšia hladina akustického výkonu |
| AQ | Emisje tlenków azotu | Emissões de óxidos de azoto | Emisie oxidov dusíka | Emisie oxidov dusíka |
| AR | Pompy ciepła woda/solanka-woda: znamionowe natężenie przepływu solanki lub wody, zewnętrzny wymiennik ciepła | Para bombas de calor água/salmoura-água: Caudal nominal de salmoura ou água, permutador térmico exterior | Pre tepelné čerpadlá voda/slaná voda – voda: Menovitý prietok slanej vody alebo vody, vonkajší výmenník tepla | Pre tepelné čerpadlá voda/studničná voda – voda: Menovitý prietok studničnej vody alebo vody, vonkajší výmenník tepla |
| AS | Wielofunkcyjne ogrzewacze z pompą ciepła: | Para aquecedores combinados com bomba de calor: | Pre kombinovaný tepelný zdroj – tepelné čerpadlo: | Pre kombinovaný tepelný zdroj tepelného čerpadlo: |
| AT | Deklarowany profil obciążeń | Perfil de carga declarado | Deklarovaný profil zaťaženia | Deklarovaný profil zaťaženia |
| AU | Efektywność energetyczna podgrzewania wody | Eficiência energética do aquecimento de água | Energetická účinnosť prípravy teplej vody | Energetická účinnosť prípravy teplej vody |
| AV | Dzienne zużycie energii elektrycznej | Consumo diário de eletricidade | Denná spotreba elektrickej energie | Denná spotreba elektrickej energie |
| AW | Dzienne zużycie paliwa | Consumo diário de combustível | Denná spotreba paliva | Denná spotreba paliva |
| AX | Dane kontaktowe | Elementos de contacto | Kontaktné údaje | Kontaktné údaje |
| AY | (*) W przypadku ogrzewaczy pomieszczeń z pompą ciepła i wielofunkcyjnych ogrzewaczy z pompą ciepła znamionowa moc cieplna Prated jest równa obciążeniu obliczeniowemu dla trybu ogrzewania Pdesignh, a znamionowa moc cieplna ogrzewacza dodatkowego Psup jest równa dodatkowej wydajności grzewczej dla trybu ogrzewania sup(Tj). | (*) Para aquecedores de ambiente com bomba de calor e aquecedores combinados com bomba de calor, a potência calorífica nominal Prated é igual à carga de projeto para aquecimento Pdesignh e a potência calorífica nominal de um aquecedor suplementar Psupp é igual à capacidade de aquecimento suplementar sup(Tj). | (*) Pre tepelné zdroje na vykurovanie priestoru – tepelné čerpadlá a kombinované tepelné zdroje – tepelné čerpadlá sa menovitý tepelný výkon Prated rovná projektovanému vykurovaciemu zaťaženiu Pdesignh, a menovitý tepelný výkon dodatočného tepelného zdroja Psup sa rovná dodatočnému tepelnému výkonu sup(Tj). | (*) Pre tepelné zdroje na vykurovanie priestoru – tepelné čerpadlá a kombinované tepelné zdroje sa menovitý tepelný výkon Prated rovná projektovanému vykurovaciemu zaťaženiu Pdesignh a menovitý tepelný výkon dodatočného tepelného zdroja Psup sa rovná dodatočnému tepelnému výkonu sup(Tj). |
| AZ | (**) Jeżeli współczynnik Cdh nie został wyznaczony przez pomiar, współczynnik strat przyjmuje wartość domyślną Cdh = 0,9. | (**) Se não se determinar Cdh por medição, o coeficiente de degradação predefinido é Cdh = 0,9. | (**) Ak Cdh nie je určené meraním, implicitný súčiniteľ straty účinnosti je Cdh = 0,9. | (**) Ak Cdh nie je určené meraním, potom predvolený súčiniteľ straty účinnosti je Cdh = 0,9. |
| BA | 1) W trakcie montażu, instalacji i obsługi tego produktu należy zachować zasady bezpieczeństwa opisane w instrukcji instalacji/obsługi. | 1) As precauções descritas no manual de instalação/instruções dever ser adotadas durante a montagem, instalação ou manutenção do produto. | 1) Trebuie să fiţi precauţi conform manualului de utilizare/instalare în timpul asamblării, instalării şi întreţinerii acestui produs. | 1) Výstrahy ako sú popísané v inštalačnom/ užívateľskom manuáli musia byť uvážené pri montáži, inštalácii a starostlivosti o produkt. |
| BB | 2) Jeśli jesteś profesjonalistą szukającym informacji dotyczących nieniszczących metod demontażu i rozbiórki, uprzejmie prosimy o wysłanie wiadomości email na adres: erims.sec@samsung.com | 2) Se é um profissional e pretende obter informações sobre desmontagem e desmantelamento não destrutivos, envie um e-mail para: erims.sec@samsung.com | 2) Odborní pracovníci môžu získať informácie týkajúce sa nedeštruktívnej demontáže na nasledujúcej e-mailovej adrese: erims.sec@samsung.com. | 2) Odborní pracovníci môžu získať informácie týkajúce sa správnej demontáže na nasledujúcej e-mailovej adrese: erims.sec@samsung.com. |

# COMMISSION REGULATION (EU) No 813/2013 [l)]

| No | Slovenian(SL) | Finnish(FI) | Swedish(SV) |
|---|---|---|---|
| I | UREDBA KOMISIJE (EU) št. 813/2013 | KOMISSION ASETUS (EU) N:o 813/2013, | KOMMISSIONENS FÖRORDNING (EU) nr 813/2013 |
| II | Okoljsko primerno zasnovo zahteve za grelnik prostorov | Ekosuunnitteluvaatimukset varten tilalämmittimellä | Ekodesignkraven för rumsuppvärmning |
| A | Model(-i): [informacije za identifikacijo modela(-lov), na katere se informacije nanašajo] | Malli(t): [tiedot sen mallin (niiden mallien) yksilöimiseksi, joita tiedot koskevat] | Modell(er): [Information som identifierar den modell (de modeller) som informationen gäller] |
| B | Toplotna črpalka zrak–voda: [da/ne] | Ilma-vesi-lämpöpumppu: [kyllä/ei] | Luft-till-vatten-värmepump: [ja/nej] |
| C | Toplotna črpalka voda–voda: [da/ne] | Vesi-vesi-lämpöpumppu: [kyllä/ei] | Vatten-till-vatten-värmepump: [ja/nej] |
| D | Toplotna črpalka slanica–voda: [da/ne] | Suolavesi-vesi-lämpöpumppu: [kyllä/ei] | Saltlösning-till-vatten-värmepump: [ja/nej] |
| E | Nizkotemperaturna toplotna črpalka: [da/ne] | Matalan lämpötilan lämpöpumppu: [kyllä/ei] | Lågtemperaturvärmepump: [ja/nej] |
| F | Opremljena z dodatnim grelnikom: [da/ne] | Varustettu lisälämmittimellä: [kyllä/ei] | Utrustad med extra värmegenerator: [ja/nej] |
| G | Kombinirani grelnik s toplotno črpalko: [da/ne] | Lämpöpumppuyhdistelmälämmitin: [kyllä/ei] | Pannor med inbyggd tappvarmvattenberedning och med värmepump: [ja/nej] |
| H | Parametri se navedejo za uporabo pri srednji temperaturi, razen za nizkotemperaturne toplotne črpalke. Parametri za nizkotemperaturne toplotne črpalke se navedejo za uporabo pri nizki temperaturi. | Parametrit ilmoitetaan keskilämpötilan sovelluksesta, lukuun ottamatta matalan lämpötilan lämpöpumppuja. Matalan lämpötilan lämpöpumpuista parametrit ilmoitetaan matalan lämpötilan sovelluksesta. | Parametrar ska anges för mediumtemperaturtillämpning, utom för lågtemperaturvärmepumpar. För lågtemperaturvärmepumpar ska parametrarna anges för lågtemperaturapplikationer. |
| I | Parametri se navedejo za povprečne podnebne razmere. | Parametrit ilmoitetaan keskimääräisissä ilmasto-olosuhteissa. | Parametrarna ska anges för genomsnittliga klimatförhållanden. |
| J | Postavka | Kohta | Post |
| K | Oznaka | Symboli | Beteckning |
| L | Vrednost | Arvo | Värde |
| M | Enota | Yksikkö | Enhet |
| N | Nazivna izhodna toplota (*) | Nimellislämpöteho (*) | Nominell avgiven värmeeffekt (*) |
| O | Prated | Prated | Pmärk |
| P | Sezonska energijska učinkovitost ogrevanja prostorov | Tilalämmityksen kausittainen energiatehokkuus | Säsongsmedelverkningsgrad för rumsuppvärmning |
| Q | Prijavljena zmogljivost ogrevanja za delno obremenitev pri temperaturi v notranjih prostorih 20 °C in temperaturi na prostem Tj | Ilmoitettu lämmitysteho osakuormalla sisälämpötilassa 20 °C ja ulkolämpötilassa Tj | Deklarerad kapacitet för uppvärmning för delbelastning vid innetemperatur 20 °C och utetemperatur Tj |
| R | Prijavljen koeficient učinkovitosti ali razmerje primarne energije za delno obremenitev pri temperaturi v notranjih prostorih 20 °C in temperaturi na prostem Tj | Ilmoitettu lämpökerroin tai primäärienergiakerroin osakuormalla sisälämpötilassa 20 °C ja ulkolämpötilassa Tj | Deklarerad värmefaktor eller primärenergifaktor för delbelastning vid en inomhustemperatur på 20 °C och en utomhustemperatur Tj |
| S | COPd ali PERd | COPd tai PERd | COPd eller PERd |
| T | Tj = bivalentna temperatura | Tj = kaksiarvoinen lämpötila | Tj = bivalenttemperatur |
| U | Tj = mejna delovna temperatura | Tj = toimintarajalämpötila | Tj = gränstemperatur för drift |
| V | Za toplotne črpalke zrak–voda: Tj = – 15 °C (če je TOL < – 20 °C) | Ilma-vesi-lämpöpumput: Tj = – 15 °C (jos TOL < – 20 °C) | För luft-till-vatten-värmepumpar: Tj = – 15 °C (om TOL < – 20 °C) |
| W | Bivalentna temperatura | Kaksiarvoinen lämpötila | Bivalenttemperatur |
| X | Za toplotne črpalke zrak–voda: mejna delovna temperatura | Ilma-vesi-lämpöpumput: Toimintarajalämpötila | För luft-till-vatten-värmepumpar: Gränstemperatur för drift |
| Y | Zmogljivost intervala cikla za ogrevanje | Lämmityksen vuorottelujaksoteho | Cykelintervallets uppvärmningskapacitet |
| Z | Učinkovitost intervala cikla | Vuorottelujakson energiatehokkuus | Cykelintervallets verkningsgrad |
| AA | COPcyc ali PERcyc | COPcyc tai PERcyc | COPcyc eller PERcyc |
| AB | Koeficient degradacije (**) | Alenemiskerroin (**) | Degraderingskoefficient (**) |
| AC | Mejna delovna temperatura za ogrevanje vode | Lämmitysveden toimintarajalämpötila | Uppvärmningsvattnets gränstemperatur för drift |
| AD | Poraba energije v načinih, ki ne vključujejo načina aktivnega delovanja | Tehonkulutus muissa tiloissa kuin aktiivisessa toimintatilassa | Effektförbrukning i andra lägen än aktivt läge |
| AE | Dodatni grelnik | Lisälämmitin | Extra värmegenerator |
| AF | Stanje izključenosti | Pois päältä -tila | Frånläge |

| No | Slovenian(SL) | Finnish(FI) | Swedish(SV) |
|---|---|---|---|
| AG | Stanje izključenosti termostata | Termostaatti pois päältä -tila | Termostatfrånläge |
| AH | Stanje pripravljenosti | Valmiustila | Standbyläge |
| AI | Način grelnika ohišja | Kampikammion lämmitys -tila | Vevhusvärmarläge |
| AJ | Vrsta dovedene energije | Ottoenergian tyyppi | Typ av tillförd energi |
| AK | Druge postavke | Muut kohdat | Andra poster |
| AL | Upravljanje zmogljivosti | Tehonsäätö | Kapacitetsreglering |
| AM | stalna/spremenljiva | kiinteä/muuttuva | fast/variabel |
| AN | Za toplotne črpalke zrak–voda: nazivna stopnja pretoka zraka, zunanja | Ilma-vesi-lämpöpumput: nimellisilmavirta, ulkona | För luft-till-vatten-värmepumpar: Nominellt luftflöde (ute) |
| AO | $m^3/h$ | $m^3/h$ | $m^3/h$ |
| AP | Nivo zvokovne moči, v notranjih prostorih/ na prostem | Äänitehotaso, sisällä/ulkona | Ljudeffektnivå, inomhus/utomhus |
| AQ | Emisije dušikovih oksidov | Typen oksidien päästöt | Utsläpp av kväveoxider |
| AR | Za toplotne črpalke voda/slanica–voda: nazivna stopnja pretoka slanice ali vode, zunanji izmenjevalnik toplote | Vesi-/suolavesi-vesi-lämpöpumput: suolaveden tai veden nimellisvirtaus, ulkolämmönsiirrin | För vatten-/saltlösning-till-vatten-värmepumpar: Nominellt saltlösning- eller vattenflöde, värmeväxlare utomhus |
| AS | Za kombinirani grelnik s toplotno črpalko: | Lämpöpumppuyhdistelmälämmitin: | För pannor med inbyggd tappvarmvattenberedning och med värmepump: |
| AT | Določeni profil rabe | Ilmoitettu kuormitusprofiili | Deklarerad belastningsprofil |
| AU | Energijska učinkovitost ogrevanja vode | Vedenlämmityksen energiatehokkuus | Energieffektivitet vid uppvärmning av vatten |
| AV | Dnevna poraba električne energije | Vuorokautinen sähkönkulutus | Daglig elförbrukning |
| AW | Dnevna poraba goriva | Vuorokautinen polttoaineenkulutus | Daglig bränsleförbrukning |
| AX | Kontaktni podatki | Yhteystiedot | Kontakt |
| AY | (*) Za toplotne črpalke za ogrevanje prostorov in kombinirane grelnike s toplotno črpalko je nazivna izhodna toplota Prated enaka nazivni obremenitvi za ogrevanje Pdesignh, nazivna izhodna toplota dodatnega grelnika Psup pa je enaka dodatni zmogljivosti ogrevanja sup(Tj). | (*) Lämpöpumpputilalämmittimillä ja lämpöpumppuyhdistelmälämmittimillä nimellislämpöteho Prated on yhtä suuri kuin lämmityksen mitoituskuorma Pdesignh ja lisälämmittimen nimellislämpöteho Psup on yhtä suuri kuin lisälämmitysteho sup(Tj). | (*) För värmare med värmepump för rumsuppvärmning och pannor med inbyggd tappvarmvattenberedning och med värmepump är den nominella avgivna värmeeffekten Prated lika med den dimensionerade värmekapaciteten Pdesignh, och den nominella avgivna värmeeffekten hos en extra värmegenerator Psup är lika med den kompletterande uppvärmningskapaciteten sup(Tj). |
| AZ | (**) Če Cdh ni določen z meritvami, privzeti koeficient degradacije znaša Cdh = 0,9. | (**) Jos Cdh:n arvoa ei määritetä mittaamalla, alenemiskertoimen oletusarvo on Cdh = 0,9. | (**) Om Cdh inte bestäms genom mätningar ska degraderingskoefficienten vara Cdh = 0,9. |
| BA | 1) Pri sestavljanju, nameščanju ter vzdrževanju izdelka upoštevajte previdnostne ukrepe, ki so navedeni v priročniku za uporabo in namestitev. | 1) Asennus- tai käyttöoppaassa kuvattuja turvaohjeita on noudatettava laitteen kokoamisen, asentamisen ja huollon aikana. | 1) Försiktighetsåtgärderna som beskrivs i installationsmanualen/bruksanvisningen måste följas vid montering, installation och underhåll av denna produkt. |
| BB | 2) Če ste strokovnjak in iščete informacije o neporušitvenem razstavljanju in demontaži, pošljite e-poštno sporočilo na: erims.sec@samsung.com | 2) Jos olet ammattiasentaja ja haluat lisätietoja asennuksen turvallisesta purkamisesta, lähettäkää sähköpostia osoitteeseen erims.sec@samsung.com | 2) Om du är en professionell användare som letar efter information om icke-destruktiv demontering och isärtagande av dammsugaren, kan du skicka ett e-postmeddelande till: erims.sec@samsung.com |

# COMMISSION DELEGATED REGULATION (EU) No 811/2013 [i)]

## PRODUCT FICHE (ENERGY LABELLING OF SPACE HEATERS) [ii)]

| | | | | | |
|---|---|---|---|---|---|
| a | Supplier's name or trademark | | | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
| b | Supplier's model identifier | | | AE040JXEDEH/AE090JNYDEH | AE060JXEDEH/AE090JNYDEH |
| c | Seasonal space heating energy efficiency class | Medium-temperature [p)] | - | A++ | A++ |
| | | Low-temperature [q)] | - | A++ | A++ |
| d | Rated heat output (Average) | Medium-temperature [p)] | kW | 4 | 5 |
| | | Low-temperature [q)] | kW | 4 | 5 |
| e | Seasonal space heating energy efficiency (Average) | Medium-temperature [p)] | % | 126 | 126 |
| | | Low-temperature [q)] | % | 178 | 177 |
| f | Annual energy consumption (Average) | Medium-temperature [p)] | kWh | 1778 | 2006 |
| | | Low-temperature [q)] | kWh | 1387 | 1643 |
| g | $L_{WA}$ (sound power level, indoor) | | dB | 40 | 40 |
| h | Specific precautions [1)] | | - | | |
| i | Rated heat output (Colder) | Medium-temperature [p)] | kW | 4 | 4 |
| | | Low-temperature [q)] | kW | 4 | 4 |
| j | Rated heat output (Warmer) | Medium-temperature [p)] | kW | 4 | 5 |
| | | Low-temperature [q)] | kW | 4 | 5 |
| k | Seasonal space heating energy efficiency (Colder) | Medium-temperature [p)] | % | 100 | 99 |
| | | Low-temperature [q)] | % | 152 | 150 |
| l | Seasonal space heating energy efficiency (Warmer) | Medium-temperature [p)] | % | 153 | 157 |
| | | Low-temperature [q)] | % | 248 | 260 |
| m | Annual energy consumption (Colder) | Medium-temperature [p)] | kWh | 3024 | 3133 |
| | | Low-temperature [q)] | kWh | 2216 | 2346 |
| n | Annual energy consumption (Warmer) | Medium-temperature [p)] | kWh | 1389 | 1710 |
| | | Low-temperature [q)] | kWh | 950 | 1143 |
| o | $L_{WA}$ (sound power level, outdoor) | | dB | 61 | 61 |

r [1)] Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product.

## PRODUCT FICHE (ENERGY LABELLING OF PACKAGES OF SPACE HEATER) [iii)]

| | | | | |
|---|---|---|---|---|
| a | Supplier's name or trademark | | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
| b | Supplier's model identifier | | AE040JXEDEH/AE090JNYDEH | AE060JXEDEH/AE090JNYDEH |
| s | Seasonal space heating energy efficiency (Preferential space heater) | % | 128 | 128 |
| t | Factor for weighting the heat output (Preferential space heater) | - | 0 | 0 |
| u | Mathematical expression : 294 /(11 • Prated) [1)] | - | 6.7 | 5.3 |
| v | Mathematical expression : 115 /(11 • Prated) [2)] | - | 2.6 | 2.1 |
| w | The difference between the seasonal space heating energy efficiencies under average and colder climate conditions [3)] | % | 26 | 27 |
| x | The difference between the seasonal space heating energy efficiencies under warmer and average climate conditions [4)] | % | 27 | 31 |

y [1)] Whereby Prated is related to the preferential space heater.

z [2)] Whereby Prated is related to the preferential space heater.

aa [3),4)] For preferential heat pump space heaters.

## PRODUCT FICHE (ENERGY LABELLING OF TEMPERATURE CONTROLS) [iv)]

| | | | |
|---|---|---|---|
| a | Supplier's name or trademark | - | Samsung Electronics Co., Ltd. |
| b | Supplier's model identifier | - | AE090JNYDEH |
| ab | The class of the temperature control | - | Class II |
| ac | The contribution of the temperature control to seasonal space heating energy efficiency | % | 2 |

## PRODUCT FICHE (ENERGY LABELLING OF SPACE HEATERS) [ii)]

| a | Supplier's name or trademark | | | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
|---|---|---|---|---|---|---|---|
| b | Supplier's model identifier | | | AE090JXEDEH/ AE090JNYDEH | AE090JXEDGH/ AE090JNYDGH | AE120JXEDEH/ AE160JNYDEH | AE120JXEDGH/ AE160JNYDGH |
| c | Seasonal space heating energy efficiency class | Medium-temperature [p] | - | A++ | A++ | A+ | A+ |
| | | Low-temperature [q] | - | A++ | A++ | A++ | A++ |
| d | Rated heat output (Average) | Medium-temperature [p] | kW | 6 | 6 | 8 | 8 |
| | | Low-temperature [q] | kW | 7 | 7 | 11 | 11 |
| e | Seasonal space heating energy efficiency (Average) | Medium-temperature [p] | % | 128 | 131 | 112 | 112 |
| | | Low-temperature [q] | % | 178 | 180 | 180 | 180 |
| f | Annual energy consumption (Average) | Medium-temperature [p] | kWh | 2704 | 2732 | 4000 | 4000 |
| | | Low-temperature [q] | kWh | 2139 | 2178 | 3298 | 3298 |
| g | $L_{WA}$ (sound power level, indoor) | | dB | 40 | 40 | 47 | 47 |
| h | Specific precautions[1)] | | - | | | | |
| i | Rated heat output (Colder) | Medium-temperature [p] | kW | 5 | 5 | 8 | 8 |
| | | Low-temperature [q] | kW | 6 | 6 | 11 | 11 |
| j | Rated heat output (Warmer) | Medium-temperature [p] | kW | 6 | 6 | 8 | 8 |
| | | Low-temperature [q] | kW | 7 | 7 | 11 | 11 |
| k | Seasonal space heating energy efficiency (Colder) | Medium-temperature [p] | % | 108 | 112 | 107 | 107 |
| | | Low-temperature [q] | % | 154 | 162 | 169 | 169 |
| l | Seasonal space heating energy efficiency (Warmer) | Medium-temperature [p] | % | 154 | 132 | 157 | 157 |
| | | Low-temperature [q] | % | 238 | 252 | 232 | 232 |
| m | Annual energy consumption (Colder) | Medium-temperature [p] | kWh | 3875 | 3900 | 6292 | 6292 |
| | | Low-temperature [q] | kWh | 3164 | 3103 | 5275 | 5275 |
| n | Annual energy consumption (Warmer) | Medium-temperature [p] | kWh | 2255 | 2715 | 2992 | 2992 |
| | | Low-temperature [q] | kWh | 1694 | 1644 | 2752 | 2752 |
| o | $L_{WA}$ (sound power level, outdoor) | | dB | 64 | 64 | 64 | 64 |

| a | Supplier's name or trademark | | | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
|---|---|---|---|---|---|---|---|
| b | Supplier's model identifier | | | AE140JXEDEH/ AE160JNYDEH | AE140JXEDGH/ AE160JNYDGH | AE160JXEDEH/ AE160JNYDEH | AE160JXEDGH/ AE160JNYDGH |
| c | Seasonal space heating energy efficiency class | Medium-temperature [p] | - | A+ | A+ | A+ | A+ |
| | | Low-temperature [q] | | A++ | A++ | A++ | A++ |
| d | Rated heat output (Average) | Medium-temperature [p] | kW | 9 | 9 | 10 | 10 |
| | | Low-temperature [q] | kW | 12 | 12 | 13 | 13 |
| e | Seasonal space heating energy efficiency (Average) | Medium-temperature [p] | % | 110 | 110 | 108 | 108 |
| | | Low-temperature [q] | % | 179 | 179 | 178 | 178 |
| f | Annual energy consumption (Average) | Medium-temperature [p] | kWh | 4327 | 4327 | 4926 | 4926 |
| | | Low-temperature [q] | kWh | 3594 | 3594 | 3933 | 3933 |
| g | $L_{WA}$ (sound power level, indoor) | | dB | 47 | 47 | 47 | 47 |
| h | Specific precautions[1)] | | - | | | | |
| i | Rated heat output (Colder) | Medium-temperature [p] | kW | 9 | 9 | 10 | 10 |
| | | Low-temperature [q] | kW | 12 | 12 | 13 | 13 |
| j | Rated heat output (Warmer) | Medium-temperature [p] | kW | 9 | 9 | 10 | 10 |
| | | Low-temperature [q] | kW | 12 | 12 | 13 | 13 |
| k | Seasonal space heating energy efficiency (Colder) | Medium-temperature [p] | % | 109 | 109 | 113 | 113 |
| | | Low-temperature [q] | % | 170 | 170 | 173 | 173 |
| l | Seasonal space heating energy efficiency (Warmer) | Medium-temperature [p] | % | 155 | 155 | 150 | 150 |
| | | Low-temperature [q] | % | 233 | 233 | 222 | 222 |
| m | Annual energy consumption (Colder) | Medium-temperature [p] | kWh | 6538 | 6538 | 7074 | 7074 |
| | | Low-temperature [q] | kWh | 5669 | 5669 | 6076 | 6076 |
| n | Annual energy consumption (Warmer) | Medium-temperature [p] | kWh | 3392 | 3392 | 3883 | 3883 |
| | | Low-temperature [q] | kWh | 2978 | 2978 | 3380 | 3380 |
| o | $L_{WA}$ (sound power level, outdoor) | | dB | 64 | 64 | 66 | 66 |

r [1)] Precautions as described in the installation/user manual must be taken when assembling, installing and maintaining this product.

# COMMISSION DELEGATED REGULATION (EU) No 811/2013 [i)]

## PRODUCT FICHE (ENERGY LABELLING OF PACKAGES OF SPACE HEATER) [iii)]

| a | Supplier's name or trademark | | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
|---|---|---|---|---|---|---|
| b | Supplier's model identifier | | AE090JXEDEH/ AE090JNYDEH | AE090JXEDGH/ AE090JNYDGH | AE120JXEDEH/ AE160JNYDEH | AE120JXEDGH/ AE160JNYDGH |
| s | Seasonal space heating energy efficiency (Preferential space heater) | % | 130 | 133 | 114 | 114 |
| t | Factor for weighting the heat output (Preferential space heater) | - | 0 | 0 | 0 | 0 |
| u | Mathematical expression : 294 /(11 • Prated) [1)] | - | 4.5 | 4.5 | 3.3 | 3.3 |
| v | Mathematical expression : 115 /(11 • Prated) [2)] | - | 1.7 | 1.7 | 1.3 | 1.3 |
| w | The difference between the seasonal space heating energy efficiencies under average and colder climate conditions [3)] | % | 20 | 19 | 5 | 5 |
| x | The difference between the seasonal space heating energy efficiencies under warmer and average climate conditions [4)] | % | 26 | 1 | 45 | 45 |

| a | Supplier's name or trademark | | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
|---|---|---|---|---|---|---|
| b | Supplier's model identifier | | AE140JXEDEH/ AE160JNYDEH | AE140JXEDGH/ AE160JNYDGH | AE160JXEDEH/ AE160JNYDEH | AE160JXEDGH/ AE160JNYDGH |
| s | Seasonal space heating energy efficiency (Preferential space heater) | % | 112 | 112 | 110 | 110 |
| t | Factor for weighting the heat output of the preferential and supplementary heaters | - | 0 | 0 | 0 | 0 |
| u | Mathematical expression : 294 /(11 • Prated) [1)] | - | 3.0 | 3.0 | 2.7 | 2.7 |
| v | Mathematical expression : 115 /(11 • Prated) [2)] | - | 1.2 | 1.2 | 1.0 | 1.0 |
| w | The difference between the seasonal space heating energy efficiencies under average and colder climate conditions [3)] | % | 1 | 1 | 5 | 5 |
| x | The difference between the seasonal space heating energy efficiencies under warmer and average climate conditions [4)] | % | 45 | 45 | 42 | 42 |

y [1)] Whereby Prated is related to the preferential space heater.

z [2)] Whereby Prated is related to the preferential space heater.

aa [3),4)] For preferential heat pump space heaters.

## PRODUCT FICHE (ENERGY LABELLING OF TEMPERATURE CONTROLS) [iv)]

| a | Supplier's name or trademark | - | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. | Samsung Electronics Co., Ltd. |
|---|---|---|---|---|---|---|
| b | Supplier's model identifier | - | AE090JNYDEH | AE090JNYDGH | AE160JNYDEH | AE160JNYDGH |
| ab | The class of the temperature control | - | Class II | Class II | Class II | Class II |
| ac | The contribution of the temperature control to seasonal space heating energy efficiency | % | 2 | 2 | 2 | 2 |

| No | English(EN) | Bulgarian(BG) | Spanish(ES) | Czech(CS) |
|---|---|---|---|---|
| i | COMMISSION DELEGATED REGULATION (EU) No 811/2013 | ДЕЛЕГИРАН РЕГЛАМЕНТ (ЕС № 811/2013 НА КОМИСИЯТА | REGLAMENTO DELEGADO (UE) No 811/2013 DE LA COMISIÓN | NAŘÍZENÍ KOMISE V PŘENESENÉ PRAVOMOCI (EU) č. 811/2013 |
| ii | PRODUCT FICHE (ENERGY LABELLING OF SPACE HEATERS) | Продуктов фиш (енергийното етикетиране на отоплителни топлоизточници) | Ficha del producto (etiquetado energético de aparatos de calefacción) | Informační list výrobku (energie na energetických štítcích ohřívačů pro vytápění vnitřních prostorů) |
| iii | PRODUCT FICHE (ENERGY LABELLING OF PACKAGES OF SPACE HEATER) | Продуктов фиш (енергийното етикетиране на КОМПЛЕКТИ ОТ ОТОПЛИТЕЛЕН ТОПЛОИЗТОЧНИК) | Ficha del producto (etiquetado energético de EQUIPOS COMBINADOS DE APARATO DE CALEFACCIÓN) | Informační list výrobku (energie na energetických štítcích ohřívačů pro souprav sestávajících z ohřívače pro vytápění vnitřních prostorů) |
| iv | PRODUCT FICHE (ENERGY LABELLING OF TEMPERATURE CONTROLS) | Продуктов фиш (енергийното етикетиране на | Ficha del producto (etiquetado energético de CONTROLES DE TEMPERATURA) | Informační list výrobku (energie na energetických štítcích ohřívačů pro regulátoru teploty) |
| a | Supplier's name or trademark | наименование или търговска марка на доставчика | nombre o marca comercial del proveedor | název nebo ochranná známka dodavatele |
| b | Supplier's model identifier | идентификатор на доставчика за модела | identificador del modelo del proveedor | identifikační značka modelu používaná dodavatelem |
| c | Seasonal space heating energy efficiency class | класът на сезонна отоплителна енергийна ефективност | la clase de eficiencia energética estacional de calefacción | třída sezonní energetické účinnosti vytápění |
| d | Rated heat output (Average) | номиналната топлинна мощност (средни) | la potencia calorífica nominal (medias) | jmenovitý tepelný výkon (průměrných) |
| e | Seasonal space heating energy efficiency (Average) | сезонната енергийна ефективност при отопление (средни) | la eficiencia energética estacional de calefacción (medias) | sezonní energetická účinnost vytápění (průměrných) |
| f | Annual energy consumption (Average) | годишното потребление на енергия (средни) | el consumo anual de energía (medias) | roční spotřeba energie (průměrných) |
| g | $L_{WA}$ (sound power level, indoors) | $L_{WA}$ (нивото на звуковата мощност, на закрито) | LWA (el nivel de potencia acústica, en interiores) | $L_{WA}$ (případně hladina akustického výkonu, vnitřním prostoru) |
| h | Specific precautions[1)] | специфични предпазни[1)] | precauciones específicas[1)] | konkrétní preventivní opatření[1)] |
| i | Rated heat output (Colder) | номиналната топлинна мощност (по-студени) | la potencia calorífica nominal () | jmenovitý tepelný výkon (chladnějších) |
| j | Rated heat output (Warmer) | номиналната топлинна мощност (по-топли ) | la potencia calorífica nominal () | jmenovitý tepelný výkon (teplejších) |
| k | Seasonal space heating energy efficiency (Colder) | сезонната енергийна ефективност при отопление (по-студени) | la eficiencia energética estacional de calefacción (más frías) | sezonní energetická účinnost vytápění (chladnějších) |
| l | Seasonal space heating energy efficiency (Warmer) | сезонната енергийна ефективност при отопление (по-топли ) | la eficiencia energética estacional de calefacción (más cálidas) | sezonní energetická účinnost vytápění (teplejších) |
| m | Annual energy consumption (Colder) | годишното потребление на енергия (по-студени) | el consumo anual de energía (más frías) | roční spotřeba energie (chladnějších) |
| n | Annual energy consumption (Warmer) | годишното потребление на енергия (по-топли ) | el consumo anual de energía (más cálidas) | roční spotřeba energie (teplejších) |
| o | $L_{WA}$ (sound power level, outdoors) | $L_{WA}$ (нивото на звуковата мощност, на открито) | LWA (el nivel de potencia acústica, en exteriores) | $L_{WA}$ (případně hladina akustického výkonu, venkovním prostoru) |
| p | Medium-temperature | среднотемпературни | de temperatura media | středněteplotní |
| q | Low-temperature | нискотемпературни | de baja temperatura | nízkoteplotním |
| r | [1)] Precautions as described in the installation/ user manual must be taken when assembling, installing and maintaining this product. | [1)] Описаните в ръководството за монтиране/ ръководството за потребителя предпазни мерки трябва да се спазват при сглобяване, монтиране и поддръжка на продукта. | [1)] Las precauciones descritas en los manuales de usuario e intalación deber tomarse cuando se ensambla, instala y mantiene este producto | [1)] Při montáži, instalaci a údržbě tohoto produktu je třeba se řídit bezpečnostními opatřeními popsanými v instalační a uživatelské příručce. |
| s | Seasonal space heating energy efficiency (Preferential space heater) | сезонната енергийна ефективност при отопление (приоритетно използвания отоплителен топлоизточник) | la eficiencia energética estacional de calefacción (aparato de calefacción preferente) | Seasonal space heating energy efficiency (preferovaného ohřívače pro vytápění vnitřních prostorů) |
| t | Factor for weighting the heat output of the preferential and supplementary heaters | тегловният коефициент за претегляне на топлинната енергия, произведена от приоритетно използвания и от допълнителния подгревател на даден комплект | el factor de ponderación de la potencia calorífica de los calefactores preferente y complementario de un equipo combinado | faktor pro porovnání tepelného výkonu preferovaného ohřívače a přídavných ohřívačů soupravy |
| u | Mathematical expression : 294 /(11 • Prated) [1)] | математическия израз : 294 /(11 • Prated) [1)] | la expresión matemática : 294 /(11 • Prated) [1)] | hodnotu matematického výrazu : 294 /(11 • Prated) [1)] |
| v | Mathematical expression : 115 /(11 • Prated) [2)] | математическия израз : 115 /(11 • Prated) [2)] | la expresión matemática : 115 /(11 • Prated) [2)] | hodnotu matematického výrazu : 115 /(11 • Prated) [2)] |
| w | The difference between the seasonal space heating energy efficiencies under average and colder climate conditions [3)] | разликата между сезонната отоплителна енергийна ефективност при средни климатични условия и тази при по-студени климатични условия [3)] | **la diferencia entre las eficiencias energéticas estacionales de calefacción en condiciones climáticas medias y más frías, expresado en porcentaje** | rozdílu sezonních energetických účinností vytápění za průměrných a chladnějších klimatických podmínek [3)] |
| x | The difference between the seasonal space heating energy efficiencies under warmer and average climate conditions [4)] | разликата между сезонната отоплителна енергийна ефективност при по-топли климатични условия и тази при средни климатични условия [4)] | **la diferencia entre las eficiencias energéticas estacionales de calefacción en condiciones climáticas más cálidas y medias, expresado en porcentaje** | rozdílu sezonních energetických účinností vytápění za teplejších a průměrných klimatických podmínek [4)] |
| y | [1)] Whereby Prated is related to the preferential space heater. | [1)] където Prated е свързана с приоритетно използвания отоплителен топлоизточник | [1)] donde la Prated está relacionada con el aparato de calefacción preferente | [1)] přičemž Prated se vztahuje k preferovanému ohřívači pro vytápění vnitřních prostorů |
| z | [2)] Whereby Prated is related to the preferential space heater. | [2)] където Prated е свързана с приоритетно използвания отоплителен топлоизточник | [2)] donde la Prated está relacionada con el aparato de calefacción preferente | [2)] preferovanému ohřívači pro vytápění vnitřních prostorů |
| aa | [3),4)] For preferential heat pump space heaters | [3),4)] за приоритетно използвани отоплителни термопомпени агрегати | [3),4)] en lo que respecta a los aparatos de calefacción preferentes con bomba de calor | [3),4)] preferovaných ohřívačů pro vytápění vnitřních prostorů s tepelným čerpadlem navíc |
| ab | The class of the temperature control | класът на регулатора на температурата | la clase del control de temperatura | třída regulátoru teploty |
| ac | The contribution of the temperature control to seasonal space heating energy efficiency | приносът на регулатора на температурата към сезонната енергийна ефективност при отопление | la contribución del control de temperatura a la eficiencia energética estacional de calefacción | přínos regulátoru teploty k sezonní energetické účinnosti vytápění |

# COMMISSION DELEGATED REGULATION (EU) No 811/2013 [i)]

| No | Danish(DA) | German(DE) | Estonian(ET) | Greek(EL) |
|---|---|---|---|---|
| i | KOMMISSIONENS DELEGEREDE FORORDNING (EU) Nr. 811/2013 | DELEGIERTE VERORDNUNG (EU) Nr. 811/2013 DER KOMMISSION | KOMISJONI DELEGEERITUD MÄÄRUS (EL) nr 811/2013 | ΚΑΤ' ΕΞΟΥΣΙΟΔΟΤΗΣΗ ΚΑΝΟΝΙΣΜΟΣ (ΕΕ) αριθ. 811/2013 ΤΗΣ ΕΠΙΤΡΟΠΗΣ |
| ii | Produktdatablad (energimærkning af anlæg til rumopvarmning) | Produktdatenblatt (Energiekennzeichnung von Raumheizgeräten) | Tootekirjeldus (energiamärgistusega kohta kütteseadmest) | Δελτίο προϊόντος (ενεργειακή επισήμανση των θερμαντήρων χώρου) |
| iii | Produktdatablad (energimærkning af anlæg til pakker med anlæg til rumopvarmning) | Produktdatenblatt (Energiekennzeichnung von Verbundanlagen aus Raumheizgeräten) | Tootekirjeldus (energiamärgistusega kohta kütteseadme, komplekt ) | Δελτίο προϊόντος (ενεργειακή επισήμανση των των των συγκροτημάτων θερμαντήρα χώρου) |
| iv | Produktdatablad (energimærkning af anlæg til temperaturstyring) | Produktdatenblatt (Energiekennzeichnung von Temperaturreglern) | Tootekirjeldus (energiamärgistusega kohta temperatuuriregulaatorist) | Δελτίο προϊόντος (ενεργειακή επισήμανση των ρυθμιστή θερμοκρασίας) |
| a | leverandørens navn eller varemærke | Name oder Warenzeichen des Lieferanten | tarnija nimi või kaubamärk | το όνομα/η επωνυμία του προμηθευτή ή εμπορικό σήμα· |
| b | leverandørens modelidentifikation | Modellkennung des Lieferanten | tarnija mudelitähis | το αναγνωριστικό μοντέλου από τον προμηθευτή· |
| c | klasse for årsvirkningsgrad ved rumopvarmning fastslået | die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz | kütmise sesoonse energiatõhususe klass | η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου |
| d | den nominelle nytteeffekt (gennemsnitlige) | die Wärmenennleistung (durchschnittlichen) | nimisoojusvõimsus (keskmistel) | η ονομαστική θερμική ισχύς (μέσες) |
| e | årsvirkningsgraden ved rumopvarmning (gennemsnitlige) | die jahreszeitbedingte Raumheizungs-Energieeffizienz (durchschnittlichen) | kütmise sesoonne energiatõhusus (keskmistel) | η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου σε (μέσες) |
| f | det årlige energiforbrug (gennemsnitlige) | den jährlichen Energieverbrauch (durchschnittlichen) | aastane energiatarbimine (keskmistel) | ετήσια κατανάλωση ενέργειας (μέσες) |
| g | LWA (lydeffektniveauet, inde) | LWA (den Schallleistungspegel, in Innenräumen) | LWA (müravõimsustase, siseruumis) | LWA (η στάθμη ηχητικής ισχύος, εσωτερικού χώρου) |
| h | specifikke forholdsregler[1)] | besonderen Vorkehrungen[1)] | ettevaatusmeetmed kütteseadme koostamise[1)] | ειδικές προφυλάξεις [1)] |
| i | den nominelle nytteeffekt (koldere) | die Wärmenennleistung (kälteren) | nimisoojusvõimsus (külmema) | η ονομαστική θερμική ισχύς (ψυχρότερες) |
| j | den nominelle nytteeffekt (varmere) | die Wärmenennleistung (wärmeren) | nimisoojusvõimsus (soojema) | η ονομαστική θερμική ισχύς (θερμότερες) |
| k | årsvirkningsgraden ved rumopvarmning (koldere) | die jahreszeitbedingte Raumheizungs-Energieeffizienz (kälteren) | kütmise sesoonne energiatõhusus (külmema) | η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου σε (ψυχρότερες) |
| l | årsvirkningsgraden ved rumopvarmning (varmere) | die jahreszeitbedingte Raumheizungs-Energieeffizienz (wärmeren) | kütmise sesoonne energiatõhusus (soojema) | η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου σε (θερμότερες) |
| m | det årlige energiforbrug (koldere) | den jährlichen Energieverbrauch (kälteren) | aastane energiatarbimine (külmema) | ετήσια κατανάλωση ενέργειας (ψυχρότερες) |
| n | det årlige energiforbrug (varmere) | den jährlichen Energieverbrauch (wärmeren) | aastane energiatarbimine (soojema) | ετήσια κατανάλωση ενέργειας (θερμότερες) |
| o | LWA (lydeffektniveauet, ude) | LWA (den Schallleistungspegel, im Freien) | LWA (müravõimsustase, väljas) | LWA (η στάθμη ηχητικής ισχύος, εξωτερικού χώρου) |
| p | middeltemperatur | Mitteltemperatur | keskmisel temperatuuril | μέσης θερμοκρασίας |
| q | lavtemperatur | Niedertemperatur | külma kliima | χαμηλής θερμοκρασίας |
| r | [1)] Du skal tage de forholdsregler, der er beskrevet i installations-/brugervejledningen, når du samler, installerer og vedligeholder dette produkt. | [1)] Beim Montieren, Installieren und Warten des Geräts müssen die im Installations-/ Benutzerhandbuch beschriebenen Vorsichtsmaßnahmen eingehalten werden. | [1)] Toote kokkupanekul, installimisel ja hooldamisel järgige paigaldus-/kasutusjuhendis kirjeldatud ettevaatusabinõusid. | [1)] Όταν συναρμολογείτε, εγκαθιστάτε και συντηρείτε αυτό το προϊόν, πρέπει να λαμβάνετε τις προφυλάξεις που περιγράφονται στο εγχειρίδιο εγκατάστασης/χρήσης. |
| s | årsvirkningsgraden ved rumopvarmning (det primære anlæg til rumopvarmning) | Seasonal space heating energy efficiency (Vorzugsraumheizgerätes) | kütmise sesoonne energiatõhusus (põhikütteseadme) | η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου σε (προτιμώμενου θερμαντήρα χώρου) |
| t | faktoren for vægtning af den nominelle nytteeffekt af primære og supplerende forsyningsanlæg i en pakke | Faktor zur Gewichtung der Wärmeleistung der Vorzugs- und Zusatzheizgeräte | komplekti põhi- ja täiendavate kütteseadmete soojusvõimsuse kaalumistegur vastavalt käesoleva | ο συντελεστής στάθμισης της θερμικής ισχύος του προτιμώμενου και του συμπληρωματικού θερμαντήρα του συγκροτήματος |
| u | værdien af det matematiske udtryk : 294 /(11 • Prated) [1)] | Wert des mathematischen Ausdrucks : 294 / (11 • Prated) [1)] | matemaatilise avaldise : 294 /(11 • Prated) [1)] | η τιμή του μαθηματικού τύπου : 294 /(11 • Prated) [1)] |
| v | værdien af det matematiske udtryk : 15 /(11 • Prated) [2)] | Wert des mathematischen Ausdrucks : 115 / (11 • Prated) [2)] | matemaatilise avaldise : 115 /(11 • Prated) [2)] | η τιμή του μαθηματικού τύπου : 115 /(11 • Prated) [2)] |
| w | værdien af forskellen mellem årsvirkningsgraden ved rumopvarmning under gennemsnitlige og koldere klimaforhold [3)] | Wert der Differenz zwischen der jahreszeitbedingten Raumheizungs-Energieeffizienz bei durchschnittlichen und derjenigen bei kälteren Klimaverhältnissen [3)] | keskmistel kliimatingimustel ja külmema kliima korral leitud kütmise sesoonsete energiatõhususte vahe [3)] | διαφοράς της ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου υπό μέσες και ψυχρότερες κλιματικές συνθήκες [3)] |
| x | værdien af forskellen mellem årsvirkningsgraden ved rumopvarmning under varmere og gennemsnitlige klimaforhold [4)] | Wert der Differenz zwischen der jahreszeitbedingten Raumheizungs-Energieeffizienz bei wärmeren und derjenigen bei durchschnittlichen Klimaverhältnissen [4)] | soojema kliima korral ja keskmistel kliimatingimustel leitud kütmise sesoonsete energiatõhususte vahe [4)] | διαφοράς της ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου υπό θερμότερες και μέσες κλιματικές συνθήκες [4)] |
| y | [1)] hvor Prated vedrører det primære anlæg til rumopvarmning | [1)] wobei sich Prated auf das Vorzugsraumheizgerät bezieht | [1)] siin Prated iseloomustab põhikütteseadet | [1)] όπου Prated αφορά τον προτιμώμενο θερμαντήρα χώρου· |
| z | [2)] hvor Prated vedrører det primære anlæg til rumopvarmning | [2)] wobei sich Prated auf das Vorzugsraumheizgerät bezieht | [2)] siin Prated iseloomustab põhikütteseadet | [2)] όπου Prated αφορά τον προτιμώμενο θερμαντήρα χώρου· |
| aa | [3),4)] for primære varmepumpeanlæg til rumopvarmning | [3),4)] für Vorzugsraumheizgeräte mit Wärmepumpe | [3),4)] soojuspumbaga põhikütteseadmete kohta | [3),4)] για τους προτιμώμενους θερμαντήρες χώρου με αντλία θερμότητας |
| ab | klasse for temperaturstyring | die Klasse des Temperaturreglers | temperatuuri regulaatori klass | η τάξη του ρυθμιστή θερμοκρασίας· |
| ac | temperaturstyringens andel af årsvirkningsgraden ved rumopvarmning i procent afrundet til en decimal | Beitrag des Temperaturreglers zur jahreszeitbedingten Raumheizungs-Energieeffizienz | temperatuuriregulaatori osa kütmise sesoonses energiatõhususes | το μερίδιο του ρυθμιστή θερμοκρασίας στην ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου |

| No | French(FR) | Croatian(HR) | Italian(IT) | Latvian(LV) |
|---|---|---|---|---|
| i | RÈGLEMENT DÉLÉGUÉ (UE) No 811/2013 DE LA COMMISSION | DELEGIRANA UREDBA KOMISIJE (EU) br. 811/2013 | REGOLAMENTO DELEGATO N. 811/2013 DELLA COMMISSIONE EUROPEA | KOMISIJAS DELEĢĒTĀ REGULA (ES) Nr. 811/2013 |
| ii | Fiche de produit (l'étiquetage énergétique des dispositifs de chauffage des locaux) | Informacijski list proizvoda (označivanja energetske učinkovitosti grijača prostora) | Scheda prodotto (l'etichetta indica il consumo d'energia degli apparati per il riscaldamento) | Ražojuma datu lapa (energomarķējumu uz telpu sildītāju) |
| iii | Fiche de produit (l'étiquetage énergétique des produit combiné constitué d'un dispositif de chauffage des locaux) | Informacijski list proizvoda (označivanja energetske učinkovitosti kompleta koji sadržavaju grijač prostora) | Scheda prodotto (l'etichetta indica il consumo d'energia degli insiemi di apparati per il riscaldamento) | Ražojuma datu lapa (energomarķējumu uz telpu sildītāja iekārtas, komplektu) |
| iv | Fiche de produit (l'étiquetage énergétique des d'un régulateur de température) | Informacijski list proizvoda (označivanja energetske učinkovitosti uređaj za upravljanje temperaturom) | Scheda prodotto (l'etichetta indica il consumo d'energia dispositivi di controllo della temperatura) | Ražojuma datu lapa (energomarķējumu uz temperatūras regulatori) |
| a | le nom du fournisseur ou la marque commerciale | naziv ili zaštitni znak dobavljača | il nome o marchio del fornitore | piegādātāja nosaukums vai preču zīme |
| b | la référence du modèle donnée par le fournisseur | dobavljačeva identifikacijska oznaka modela | Identificativo del modello del fornitore | piegādātāja modeļa identifikators |
| c | la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux | razred sezonske energetske učinkovitosti pri zagrijavanju prostora | la classe di efficienza energetica stagionale di riscaldamento | telpu apsildes sezonas energoefektivitātes klase |
| d | la puissance thermique nominale (moyennes) | nazivna toplinska snaga (prosječnim) | la potenza termica nominale (medie) | nominālā siltuma jauda (vidējos) |
| e | l'efficacité énergétique saisonnière pour le chauffage des locaux (moyennes) | sezonska energetska učinkovitost pri zagrijavanju prostora (prosječnim) | l'efficienza energetica stagionale di riscaldamento dell'ambiente (medie) | telpu apsildes sezonas energoefektivitāte (vidējos) |
| f | la consommation annuelle d'énergie (moyennes) | godišnja potrošnja energije (prosječnim) | il consumo annuo di energia (medie) | gada enerģijas patēriņš (vidējos) |
| g | $L_{WA}$ (le niveau de puissance acoustique, à l'intérieur) | $L_{WA}$ (razina zvučne snage, u zatvorenom) | LWA (il livello di potenza sonora, interna) | $L_{WA}$ (akustiskās jaudas līmenis, telpās) |
| h | les précautions particulières [1] | posebne mjere opreza[1] | eventuali precauzioni[1] | īpaši piesardzības pasākumi[1] |
| i | la puissance thermique nominale (plus froides) | nazivna toplinska snaga (hladnijim) | la potenza termica nominale (più fredde) | nominālā siltuma jauda (aukstākos) |
| j | la puissance thermique nominale (plus chaudes) | nazivna toplinska snaga (toplijim) | la potenza termica nominale (più calde) | nominālā siltuma jauda (siltākos) |
| k | l'efficacité énergétique saisonnière pour le chauffage des locaux (plus froides) | sezonska energetska učinkovitost pri zagrijavanju prostora (hladnijim) | l'efficienza energetica stagionale di riscaldamento (più fredde) | telpu apsildes sezonas energoefektivitāte (aukstākos) |
| l | l'efficacité énergétique saisonnière pour le chauffage des locaux (plus chaudes) | sezonska energetska učinkovitost pri zagrijavanju prostora (toplijim) | l'efficienza energetica stagionale di riscaldamento (più calde) | telpu apsildes sezonas energoefektivitāte (siltākos) |
| m | la consommation annuelle d'énergie (plus froides) | godišnja potrošnja energije (hladnijim) | il consumo annuo di energia (più fredde) | gada enerģijas patēriņš (aukstākos) |
| n | la consommation annuelle d'énergie (plus chaudes) | godišnja potrošnja energije (toplijim) | il consumo annuo di energia (più calde) | gada enerģijas patēriņš (siltākos) |
| o | $L_{WA}$ (le niveau de puissance acoustique, à l'extérieur) | $L_{WA}$ (razina zvučne snage, na otvorenom) | LWA (il livello di potenza sonora, all'esterno) | $L_{WA}$ (akustiskās jaudas līmenis, ārpus telpām) |
| p | moyenne température | srednjim temperaturama | media temperatura | vidējas temperatūras |
| q | basse température | nisko temperaturna | bassa temperatura | Zemas temperatūras |
| r | [1] Des précautions, comme décrit dans le manuel d'installation/d'utilisation, doivent être prises lors du montage, de l'installation et de l'entretien de l'appareil. | [1] Prilikom sastavljanja, instalacije i održavanja proizvoda potrebno je poduzeti mjere opreza navedene u priručniku za instalaciju / korisničkom priručniku. | [1] Le precauzioni descritte nel manuale Installazione/utente devono essere rispettate in fase di montaggio, installazione e manutenzione del prodotto | [1] Izstrādājuma salikšanas, uzstādīšanas un apkopes laikā jāievēro uzstādīšanas/lietošanas rokasgrāmatā norādītie piesardzības pasākumi. |
| s | l'efficacité énergétique saisonnière pour le chauffage des locaux (du dispositif de chauffage des locaux utilisé à titre principal) | sezonska energetska učinkovitost pri zagrijavanju prostora (primarnog grijača prostora) | l'efficienza energetica stagionale di riscaldamento (preferenziale per il riscaldamento) | telpu apsildes sezonas energoefektivitāte (preferenciālā telpu sildītāja) |
| t | le coefficient de pondération de la puissance thermique du dispositif de chauffage utilisé à titre principal et du dispositif de chauffage d'appoint d'un produit combiné | težinski faktor toplinske snage primarnog ili dodatnih grijača u kompletu | il fattore di ponderazione della potenza termica degli apparecchi di riscaldamento preferenziali o supplementari di un insieme | koeficients komplekta preferenciālā un papildu sildītāja siltuma jaudas svērtās vērtības iegūšanai |
| u | l'expression mathématique : 294 /(11 • Prated) [1] | matematičke formule : 294 /(11 • Prated) [1] | espressione matematica : 294 /(11 • Prated) [1] | matemātiskās izteiksmes : 294 /(11 • Prated) [1] |
| v | l'expression mathématique : 115 /(11 • Prated) [2] | matematičke formule : 115 /(11 • Prated) [2] | espressione matematica : 115 /(11 • Prated) [2] | matemātiskās izteiksmes : 115 /(11 • Prated) [2] |
| w | la différence entre les efficacités énergétiques saisonnières pour le chauffage des locaux dans les conditions climatiques moyennes et plus froides [3] | razlike između sezonskih energetskih učinkovitosti pri zagrijavanju prostora u prosječnim i hladnijim klimatskim uvjetima [3] | Differenza tra l'efficienza energetica stagionale del riscaldamento in condizioni climatiche medie e più fredde [3] | atšķirībai starp telpu apsildes sezonas energoefektivitāti vidējos un aukstākos apstākļos [3] |
| x | la différence entre les efficacités énergétiques saisonnières pour le chauffage des locaux dans les conditions climatiques plus chaudes et moyennes [4] | razlike između sezonskih energetskih učinkovitosti pri zagrijavanju prostora u toplijim i prosječnim klimatskim uvjetima [4] | Differenza tra l'efficienza energetica stagionale del riscaldamento in condizioni climatiche più calde e medie [4] | atšķirībai starp telpu apsildes sezonas energoefektivitāti siltākos un vidējos apstākļos [4] |
| y | [1] dans laquelle Prated renvoie au dispositif de chauffage des locaux utilisé à titre principal | [1] pri čemu se Prated odnosi na primarni grijač prostora | [1] dove Pnominale si riferisce all'apparecchio per il riscaldamento preferenziale | [1] vērtība, kur Prated attiecas uz preferenciālo telpu sildītāju |
| z | [2] dans laquelle Prated renvoie au dispositif de chauffage des locaux utilisé à titre principal | [2] pri čemu se Prated odnosi na primarni grijač prostora | [2] dove Pnominale si riferisce all'apparato per il riscaldamento preferenziale | [2] vērtība, kur Prated attiecas uz preferenciālo telpu sildītāju |
| aa | [3],[4] pour les dispositifs de chauffage des locaux par pompe à chaleur utilisés à titre principal | [3],[4] za primarne toplinske crpke za grijanje prostora | [3],[4] per gli apparati per il riscaldamento preferenziali a pompa di calore | [3],[4] preferenciālajiem siltumsūkņa telpu sildītājiem |
| ab | la classe du régulateur de température | razred uređaja za upravljanje temperaturom | la classe del dispositivo di controllo della temperatura | temperatūras regulatora klase |
| ac | la contribution du régulateur de température à l'efficacité énergétique saisonnière pour le chauffage des locaux | doprinos uređaja za upravljanje temperaturom sezonskoj energetskoj učinkovitosti pri zagrijavanju prostora | il contributo del dispositivo di controllo della temperatura all'efficienza energetica stagionale di riscaldamento | temperatūras regulatora devums telpu apsildes sezonas energoefektivitātē |

# COMMISSION DELEGATED REGULATION (EU) No 811/2013 [i)]

| No | Lithuanian(LT) | Hungarian(HU) | Maltese(MT) | Dutch(NL) |
|---|---|---|---|---|
| i | KOMISIJOS DELEGUOTASIS REGLAMENTAS (ES) Nr. 811/2013 | A BIZOTTSÁG 811/2013/EU FELHATALMAZÁSON ALAPULÓ RENDELETE | REGOLAMENT TA' DELEGA TAL-KUMMISSJONI (UE) Nru 811/2013 | GEDELEGEERDE VERORDENING (EU) Nr. 811/2013 VAN DE COMMISSIE |
| ii | Gaminio vardinių parametrų lentelė (energijos vartojimo efektyvumo ženklinimo dėl patalpų šildytuvo) | Termékismertető adatlap (energiafogyasztásának címkézése a helyiségfűtő berendezések) | L-iskeda tat-tagħrif tal-prodott (tikkettar enerġetiku ta' ħiters tal-post) | Productkaart (de energie-etikettering van ruimteverwarmingstoestellen) |
| iii | Gaminio vardinių parametrų lentelė (energijos vartojimo efektyvumo ženklinimo dėl patalpų šildytuvo, komplektų) | Termékismertető adatlap (energiafogyasztásának címkézése a helyiségfűtő berendezésből) | L-iskeda tat-tagħrif tal-prodott (tikkettar enerġetiku ta' pakketti magħmulin minn ħiter tal-post) | Productkaart (de energie-etikettering van pakketten van ruimteverwarmingstoestellen) |
| iv | Gaminio vardinių parametrų lentelė (energijos vartojimo efektyvumo ženklinimo dėl temperatūros reguliatoriaus) | Termékismertető adatlap (energiafogyasztásának címkézése a hőmérséklet-szabályozóból) | L-iskeda tat-tagħrif tal-prodott (tikkettar enerġetiku ta' regolatur tat-temperatura) | Productkaart (de energie-etikettering van temperatuurregelaars) |
| a | tiekėjo pavadinimas arba prekės ženklas | a beszállító neve vagy védjegye | isem il-fornitur jew il-marka kummerċjali tiegħu | de naam van de leverancier of het handelsmerk |
| b | tiekėjo modelio žymuo | a beszállító által megadott modellazonosító | l-identifikatur tal-mudell tal-fornitur | de typeaanduiding van de leverancier |
| c | sezoninio energijos patalpoms šildyti vartojimo efektyvumo klasė | szezonális helyiségfűtési energiahatékonysági osztály | il-klassi tal-effiċjenza enerġetika staġonali tat-tisħin tal-post | de seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming |
| d | vardinis šilumos atidavimas (vidutinio) | a mért hőteljesítmény (átlagos) | il-potenza termika nominali (medji) | de nominale warmteafgifte (gemiddelde) |
| e | sezoninis energijos patalpoms šildyti vartojimo efektyvumas (vidutinio) | a szezonális helyiségfűtési hatásfok (átlagos) | l-effiċjenza enerġetika staġonali tat-tisħin tal-post (medji) | de seizoensgebonden energie-efficiëntie voor ruimteverwarming (gemiddelde) |
| f | metinis energijos suvartojimas (vidutinio) | az éves energiafogyasztás (átlagos) | il-konsum annwali tal-enerġija (medji) | het jaarlijkse energieverbruik (gemiddelde) |
| g | Lwa (garso galios lygis, patalpoje decibelais) | Lwa (hangteljesítményszint, beltéri) | Lwa (il-livell ta' qawwa tal-ħoss, fuq ġewwa) | Lwa (het geluidsvermogensniveau, binnen) |
| h | specialios atsargumo priemonės[1)] | külön óvintézkedések[1)] | prekawzjoni speċifika[1)] | specifieke voorzorgsmaatregelen[1)] |
| i | vardinis šilumos atidavimas (šaltesnio) | a mért hőteljesítmény (hidegebb) | il-potenza termika nominali (iksaħ) | de nominale warmteafgifte (koudere) |
| j | vardinis šilumos atidavimas (šiltesnio) | a mért hőteljesítmény (melegebb) | il-potenza termika nominali (isħan) | de nominale warmteafgifte (warmere) |
| k | sezoninis energijos patalpoms šildyti vartojimo efektyvumas (šaltesnio) | a szezonális helyiségfűtési hatásfok (hidegebb) | l-effiċjenza enerġetika staġonali tat-tisħin tal-post (iksaħ) | de seizoensgebonden energie-efficiëntie voor ruimteverwarming (koudere) |
| l | sezoninis energijos patalpoms šildyti vartojimo efektyvumas (šiltesnio) | a szezonális helyiségfűtési hatásfok (melegebb) | l-effiċjenza enerġetika staġonali tat-tisħin tal-post (isħan) | de seizoensgebonden energie-efficiëntie voor ruimteverwarming (warmere) |
| m | metinis energijos suvartojimas (šaltesnio) | az éves energiafogyasztás (hidegebb) | il-konsum annwali tal-enerġija (iksaħ) | het jaarlijkse energieverbruik (koudere) |
| n | metinis energijos suvartojimas (šiltesnio) | az éves energiafogyasztás (melegebb) | il-konsum annwali tal-enerġija (isħan) | het jaarlijkse energieverbruik (warmere) |
| o | Lwa (garso galios lygis, lauke decibelais) | Lwa (hangteljesítményszint, kültéri) | Lwa (il-livell ta' qawwa tal-ħoss, fuq barra) | Lwa (het geluidsvermogensniveau, buiten) |
| p | vidutinėje temperatūroje | közepes hőmérsékletű | b'temperatura medja | middentemperatuur |
| q | žematemperatūris | alacsony hőmérsékletű | b'temperatura baxxa | lagetemperatuur |
| r | [1)] Montuojant ar įrengiant šį produktą, taip pat atliekant jo techninę priežiūrą, būtina atsižvelgti į montavimo / naudojimo vadove aprašytas atsargumo priemones. | [1)] A termék összeszerelése, telepítése és a karbantartása során tartsa be a telepítési/használati útmutatóban leírt óvintézkedéseket. | [1)] Prekawzjonijiet kif deskritt fl-installazzjoni u l-utent manwali għandhom jittieħdu meta jlaqqa 'installazzjoni, u ż-żamma dan il-prodott | [1)] De voorzorgsmaatregelen die in de gebruikershandleiding worden beschreven, moeten in acht worden genomen bij montage, installatie en onderhoud van dit product. |
| s | sezoninis energijos patalpoms šildyti vartojimo efektyvumas (pirmiausia naudojamo patalpų šildytuvo) | a szezonális helyiségfűtési hatásfok (az elsődleges helyiségfűtő berendezés) | l-effiċjenza enerġetika staġonali tat-tisħin tal-post (tat-tisħin tal-post tal-ħiter tal-post preferenzjali) | de seizoensgebonden energie-efficiëntie voor ruimteverwarming (ruimteverwarming van de hoofdverwarming ) |
| t | komplekto pirmiausia naudojamo ir papildomo šildytuvų šilumos atidavimo svorinis koeficientas | a csomagban található elsődleges és kiegészítő fűtőberendezések hőteljesítményének súlyozására szolgáló tényező | il-fattur għall-ippeżar tal-potenza termika tal-ħiters preferenzjali u tal-ħiters supplimentari ta' pakkett | de factor voor het wegen van de warmteafgifte van hoofd- en aanvullende verwarmingstoestellen van een pakket |
| u | matematinio reiškinio : 294 /(11 • Prated) [1)] | matematikai kifejezés : 294 /(11 • Prated) [1)] | tal-formola matematika : 294 /(11 • Prated) [1)] | de wiskundige formule : 294 /(11 • Prated) [1)] |
| v | matematinio reiškinio : 115 /(11 • Prated) [2)] | matematikai kifejezés : 115 /(11 • Prated) [2)] | tal-formola matematika : 115 /(11 • Prated) [2)] | de wiskundige formule : 115 /(11 • Prated) [2)] |
| w | sezoninių energijos patalpoms šildyti vartojimo efektyvumų skirtumo vidutinio ir šaltesnio klimato sąlygomis [3)] | az átlagos és a hidegebb éghajlati viszonyok mellett mért szezonális helyiségfűtési hatásfok közötti különbség [3)] | tad-differenza bejn l-effiċjenza enerġetika staġonali tat-tisħin tal-post f'kundizzjonijiet klimatiċi medji u dik f'kundizzjonijiet klimatiċi iksaħ [3)] | het verschil tussen de seizoensgebonden energie-efficiënties voor ruimteverwarming onder warmere en gemiddelde klimaatomstandigheden [3)] |
| x | sezoninių energijos patalpoms šildyti vartojimo efektyvumų skirtumo šiltesnio ir vidutinio klimato sąlygomis [4)] | a melegebb és az átlagos éghajlati viszonyok mellett mért szezonális helyiségfűtési hatásfok közötti különbség [4)] | tad-differenza bejn l-effiċjenza enerġetika staġonali tat-tisħin tal-post f'kundizzjonijiet klimatiċi medji u dik f'kundizzjonijiet klimatiċi isħan [4)] | het verschil tussen de seizoensgebonden energie-efficiënties voor ruimteverwarming onder gemiddelde en koudere klimaatomstandigheden [4)] |
| y | [1)] kur Prated yra susijęs su pirmiausia naudojamu patalpų šildytuvu | [1)] ahol a Prated az elsődleges helyiségfűtő berendezésre vonatkozik | [1)] fejn il-valur ta' Prated huwa marbut mal-ħiter tal-post preferenzjali | [1)] waarbij Prated is gerelateerd aan het ruimteverwarmingstoestel als hoofdverwarming |
| z | [2)] kur Prated yra susijęs su pirmiausia naudojamu patalpų šildytuvu | [2)] ahol a Prated az elsődleges helyiségfűtő berendezésre vonatkozik | [2)] fejn il-valur ta' Prated huwa marbut mal-ħiter tal-post preferenzjali | [2)] waarbij Prated is gerelateerd aan het ruimteverwarmingstoestel als hoofdverwarming |
| aa | [3),4)] pirmiausia naudojamų patalpų šildytuvų su šilumos siurbliu | [3),4)] elsődleges hőszivattyús helyiségfűtő berendezések esetében | [3),4)] għall-ħiters tal-post preferenzjali b'pompa tas-sħana | [3),4)] voor ruimteverwarmingstoestellen met warmtepomp als hoofdverwarming |
| ab | temperatūros reguliatoriaus klasė | a hőmérséklet-szabályozó osztálya | il-klassi tar-regolatur tat-temperatura | de klasse van de temperatuurregelaar |
| ac | temperatūros reguliatoriaus sandas sezoniniam energijos patalpoms šildyti vartojimo efektyvumui | a hőmérséklet-szabályozó szezonális helyiségfűtési hatásfokhoz való hozzájárulásának | il-kontribut tar-regolatur tat-temperatura għall-effiċjenza enerġetika staġonali tat-tisħin tal-post | de bijdrage van de temperatuurregelaar aan de seizoensgebonden energie-efficiëntie voor ruimteverwarming |

| No | Polish(PL) | Portuguese(PT) | Romanian(RO) | Slovak(SK) |
|---|---|---|---|---|
| i | ROZPORZĄDZENIE DELEGOWANE KOMISJI (UE) NR 811/2013 | REGULAMENTO DELEGADO (UE) Nº 811/2013 DA COMISSÃO | REGULAMENTUL DELEGAT AL COMISIEI (UE) NR. 811/2013 | DELEGOVANÉ NARIADENIE KOMISIE (EÚ) č. 811/2013 |
| ii | Karta produktu (w odniesieniu do etykiet efektywności energetycznej dla ogrzewaczy pomieszczeń) | Ficha de produto (rotulagem energética dos aquecedores de ambiente) | Fișa produsului (ce privește clasa de energie a instalațiilor pentru încălzirea incintelor) | Informačný list (energetické označovanie tepelných zdrojov na vykurovanie priestoru) |
| iii | Karta produktu ( w odniesieniu do etykiet efektywności energetycznej dla zestawów zawierających ogrzewacz pomieszczeń) | Ficha de produto (rotulagem energética dos sistemas mistos de aquecedor de ambiente) | Fișa produsului (ce privește clasa de energie instalațiilor pentru încălzirea incintelor) | Informačný list (energetické označovanie tepelných zdrojov na vykurovanie priestoru) |
| iv | Karta produktu (w odniesieniu do etykiet efektywności energetycznej dla regulatorów temperatury) | Ficha de produto (rotulagem energética dos dispositivo de controlo de temperatura) | Fișa produsului (ce privește etichetarea energetică a regulatoarelor de temperatură) | Informačný list (energetické označovanie regulátorov teploty) |
| a | nazwa dostawcy lub jego znak towarowy | Nome do fornecedor | Denumirea sau marca comercială a furnizorului | meno dodávateľa alebo ochranná známka |
| b | identyfikator modelu dostawcy | Modelo | Modelul identificator al furnizorului | identifikačný kód modelu |
| c | klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń | Classe de eficiência energética do aquecimento ambiente sazonal | Clasa de eficiență energetică sezonieră aferentă încălzirii incintelor | trieda sezónnej energetickej účinnosti vykurovania priestoru |
| d | Znamionowa moc cieplna (uśredniona) | Potência calorífica nominal (condições climáticas médias) | Puterea termică nominală (medie) | menovitý tepelný výkon (priemerný) |
| e | Sezonowa efektywność energetyczna ogrzewania pomieszczeń (uśredniona) | Eficiência energética do aquecimento ambiente sazonal (condições climáticas médias) | Eficiență energetică sezonieră aferentă încălzirii incintelor (medie) | sezónna energetická účinnosť vykurovania priestoru (priemerná) |
| f | Roczne zużycie energii (uśrednione) | Consumo anual de energia (condições climáticas médias) | Consumul anual de energie (medie) | ročná spotreba energie (priemerná) |
| g | LWA (poziom mocy akustycznej, w pomieszczeniu) | LWA (Nível de potência sonora, no interior) | LWA (nivelul de putere acustică, la interior) | LWA ( hladina akustického výkonu, vnútorné jednotky) |
| h | Szczególne środki ostrożności[1)] | Precauções específicas[1)] | Măsură de precauție specifică[1)] | osobitné bezpečnostné opatrenie[1)] |
| i | znamionowa moc cieplna (chłodnego) | Potência calorífica nominal (condições climáticas mais frias) | Puterea termică nominală (mai reci) | menovitý tepelný výkon (chladnejší) |
| j | znamionowa moc cieplna (ciepłego) | Potência calorífica nominal (condições climáticas mais quentes) | Puterea termică nominală (mai calde) | menovitý tepelný výkon (teplejší ) |
| k | sezonowa efektywność energetyczna ogrzewania pomieszczeń (chłodnego) | Eficiência energética do aquecimento ambiente sazonal (condições climáticas mais frias) | Eficiență energetică sezonieră aferentă încălzirii incintelor (mai reci) | sezónna energetická účinnosť vykurovania priestoru (chladnejší) |
| l | sezonowa efektywność energetyczna ogrzewania pomieszczeń (ciepłego) | Eficiência energética do aquecimento ambiente sazonal (condições climáticas mais quentes) | Eficiență energetică sezonieră aferentă încălzirii incintelor (mai calde) | sezónna energetická účinnosť vykurovania priestoru (teplejší) |
| m | roczne zużycie energii (chłodnego) | Consumo anual de energia (condições climáticas mais frias) | Consum anual de energie (mai reci) | ročná spotreba energie (chladnejší) |
| n | roczne zużycie energii (ciepłego) | Consumo anual de energia (condições climáticas mais quentes) | Consum anual de energie (mai calde) | ročná spotreba energie (teplejších ) |
| o | LWA (poziom mocy akustycznej, na zewnątrz) | LWA (Nível de potência sonora, no exterior) | LWA (nivelul de putere acustică, la exterior) | LWA (hladina akustického výkonu, vonkajšie jednotky) |
| p | średniotemperaturowe | média temperatura | Temperatură medie | stredná teplota |
| q | niskotemperaturowe | baixa temperatura | Temperatură scăzută | nízkoteplotné |
| r | [1)]Podczas montażu, instalacji oraz serwisowaniu produktu należy stosować szczególne środki ostrożności zgodnie z informacjami zawartymi w instrukcji instalacji/podręczniku użytkownika. | [1)] As precauções descritas no manual de instalação/ instruções dever ser adotadas durante a montagem, instalação ou manutenção do produto. | [1)] Atenționări, descrise în manualul de instalare/ operare, ce trebuie luate în considerare când se asamblează, instalează sau întreține acest produs. | [1)] Bezpečnostné opatrenia, ktoré sú popísané v inštalačnej/používateľskej príručke, sa musia vykonať pri inštalácii a údržbe tohto produktu. |
| s | sezonowa efektywność energetyczna ogrzewania pomieszczeń (podstawowego ogrzewacza pomieszczeń) | Eficiência energética do aquecimento ambiente sazonal (do aquecedor de ambiente preferencial) | Eficiența energetică sezonieră aferentă încălzirii incintelor (al instalației preferențiale pentru încălzirea incintelor) | sezónna energetická účinnosť vykurovania priestoru (uprednostňovaného tepelného zdroja na vykurovanie priestoru) |
| t | współczynnik ważący moc cieplną ogrzewaczy podstawowych oraz ogrzewaczy dodatkowych w zestawie | o fator de ponderação da potência calorífica do aquecedor preferencial e dos aquecedores complementares de um sistema misto | factorul de ponderare a puterii termice a instalațiilor de încălzire preferențiale și suplimentare din cadrul unui pachet | súčiniteľ na váženie tepelného výkonu uprednostňovaného tepelného zdroja a dodatočných tepelných zdrojov |
| u | Wartość wyrażenia matematycznego : 294 /(11 • Prated) [1)] | Expressão matemática: 294 /(11 • Prated) [1)] | Valoarea expresiei matematice : 294 /(11 • Pnominal) [1)] | matematický výraz : 294 /(11 • Prated) [1)] |
| v | Wartość wyrażenia matematycznego : 115 /(11 • Prated) [2)] | Expressão matemática: 115 /(11 • Prated) [2)] | Valoarea expresiei matematice : 115 /(11 • Pnominal) [2)] | matematický výrazu : 115 /(11 • Prated) [2)] |
| w | Różnica między sezonowymi efektywnościami energetycznymi ogrzewania pomieszczeń w warunkach klimatu umiarkowanego i chłodnego [3)] | Diferença entre as eficiências energéticas do aquecimento ambiente sazonal em condições climáticas médias e em condições climáticas mais frias [3)] | Diferența dintre eficiența energetică sezonieră aferentă încălzirii incintelor în condiții climatice medii și mai reci [3)] | hodnota rozdielu sezónnych energetických účinností vykurovania priestoru za priemerných a chladnejších podmienok [3)] |
| x | Różnica między sezonowymi efektywnościami energetycznymi ogrzewania pomieszczeń w warunkach klimatu ciepłego i umiarkowanego [4)] | Diferença entre as eficiências energéticas do aquecimento ambiente sazonal em condições climáticas mais quentes e em condições climáticas médias [4)] | Diferența dintre eficiența energetică sezonieră aferentă încălzirii incintelor în condiții climatice calde și medii [4)] | hodnota rozdielu sezónnych energetických účinností vykurovania priestoru za teplejších a priemerných podmienok [4)] |
| y | [1)] gdzie Prated dotyczy podstawowego ogrzewacza pomieszczeń | [1)] em que Prated diz respeito ao aquecedor de ambiente preferencial | [1)] Unde Pnominal se referă la instalația preferențială pentru încălzirea incintelor. | [1)] kde Prated súvisí s uprednostňovaným tepelným zdrojom na vykurovanie priestoru |
| z | [2)] gdzie Prated dotyczy podstawowego ogrzewacza pomieszczeń | [2)] em que Prated diz respeito ao aquecedor de ambiente preferencial | [2)] Unde Pnominal se referă la instalația preferențială pentru încălzirea incintelor. | [2)] kde Prated súvisí s uprednostňovaným tepelným zdrojom na vykurovanie priestoru |
| aa | [3),4)] Dla podstawowych ogrzewaczy pomieszczeń z pompą ciepła | [3),4)] para os aquecedores de ambiente preferenciais com bomba de calor | [3),4)] Pentru instalațiile preferențiale cu pompă de căldură pentru încălzirea incintelor. | [3),4)] pre uprednostňované tepelné zdroje na vykurovanie priestoru – tepelné čerpadlá |
| ab | klasa regulatora temperatury | A classe do dispositivo de controlo de temperatura | Clasa regulatorului de temperatură | trieda regulátora teploty |
| ac | udział regulatora temperatury w sezonowej efektywności energetycznej ogrzewania pomieszczeń | A contribuição do dispositivo de controlo de temperatura para a eficiência energética do aquecimento ambiente sazonal | Contribuția regulatorului de temperatură la eficiența energetică sezonieră aferentă încălzirii incintelor | príspevok regulátora teploty k sezónnej energetickej účinnosti vykurovania priestoru |

# COMMISSION DELEGATED REGULATION (EU) No 811/2013 [i)]

| No | Slovenian(SL) | Finnish(FI) | Swedish(SV) |
|---|---|---|---|
| i | DELEGIRANA UREDBA KOMISIJE (EU) št. 811/2013 | KOMISSION DELEGOITU ASETUS (EU) N:o 811/2013 | KOMMISSIONENS DELEGERADE FÖRORDNING (EU) nr 811/2013 |
| ii | Podatkovni list izdelka (energijskega označevanja grelnikov prostorov) | Tuoteseloste (tilalämmittimien, energiamerkinnän) | Produktblad (energimärkning av pannor och värmepumpar för rumsuppvärmning) |
| iii | Podatkovni list izdelka (energijskega označevanja kompletov grelnika prostorov) | Tuoteseloste (tilalämmittimestä, energiamerkinnän) | Produktblad (energimärkning av paket med pannor och värmepumpar för rumsuppvärmning) |
| iv | Podatkovni list izdelka (energijskega označevanja naprave za uravnavanje temperature) | Tuoteseloste (lämmönsäätölaitteesta, energiamerkinnän) | Produktblad (energimärkning av temperaturregulator ) |
| a | dobaviteljevo ime ali blagovna znamka | tavarantoimittajan nimi tai tavaramerkki | Leverantörens namn eller varumärke |
| b | dobaviteljeva identifikacijska oznaka modela | tavarantoimittajan mallitunniste | Leverantörens modellbeteckning |
| c | razred sezonske energijske učinkovitosti pri ogrevanju prostorov | tilalämmityksen kausittainen energiatehokkuusluokka | säsongsrelaterade energieffektivitetsklass vid rumsuppvärmning |
| d | nazivna izhodna toplota (povprečnih) | nimellislämpöteho, mukaan lukien mahdollisen lisälämmittimen nimellislämpöteho (keskimääräisissä) | Den nominella avgivna värmeeffekten (genomsnittliga) |
| e | sezonska energijska učinkovitost pri ogrevanju prostorov (povprečnih) | tilalämmityksen kausittainen energiatehokkuus (keskimääräisissä) | Säsongsmedelverkningsgrad för rumsuppvärmning (genomsnittliga) |
| f | letna poraba energije (povprečnih) | vuotuinen energiankulutus (keskimääräisissä) | Årlig energiförbrukning (genomsnittliga) |
| g | $L_{WA}$ (raven zvočne moči, notranja) | $L_{WA}$ (äänitehotaso, sisällä desibeleinä) | $L_{WA}$ (Ljudeffektnivå, inomhus) |
| h | posebni varnostni ukrepi[1)] | erityiset varotoimenpiteet[1)] | särskilda försiktighetsåtgärder [1)] |
| i | nazivna izhodna toplota (hladnejših) | nimellislämpöteho, mukaan lukien mahdollisen lisälämmittimen nimellislämpöteho (kylmissä) | Den nominella avgivna värmeeffekten (kallare) |
| j | nazivna izhodna toplota (toplejših) | nimellislämpöteho, mukaan lukien mahdollisen lisälämmittimen nimellislämpöteho (lämpimissä) | Den nominella avgivna värmeeffekten (varmare ) |
| k | sezonska energijska učinkovitost pri ogrevanju prostorov (hladnejših) | tilalämmityksen kausittainen energiatehokkuus (kylmissä) | Säsongsmedelverkningsgrad för rumsuppvärmning (kallare) |
| l | sezonska energijska učinkovitost pri ogrevanju prostorov (toplejših) | tilalämmityksen kausittainen energiatehokkuus (lämpimissä) | Säsongsmedelverkningsgrad för rumsuppvärmning (varmare ) |
| m | letna poraba energije (hladnejših) | vuotuinen energiankulutus (kylmissä) | Årlig energiförbrukning (kallare) |
| n | letna poraba energije (toplejših) | vuotuinen energiankulutus (lämpimissä) | Årlig energiförbrukning (varmare ) |
| o | $L_{WA}$ (raven zvočne moči, zunanja) | $L_{WA}$ (äänitehotaso, ulkona desibeleinä) | $L_{WA}$ (Ljudeffektnivå, utomhus) |
| p | srednjih temperaturah | keskilämpötilan | mediumtemperatur |
| q | nizkotemperaturna | matalan lämpötilan | lågtemperatur |
| r | [1)] Pri sestavljanju, nameščanju ter vzdrževanju izdelka upoštevajte previdnostne ukrepe, ki so navedeni v priročniku za uporabo in namestitev. | [1)] Asennus- tai käyttöoppaassa kuvattuja turvaohjeita on noudatettava laitteen kokoamisen, asentamisen ja huollon aikana. | [1)] Försiktighetsåtgärderna som beskrivs i installationsmanualen/bruksanvisningen måste följas vid montering, installation och underhåll av denna produkt. |
| s | sezonska energijska učinkovitost pri ogrevanju prostorov (za prednostni grelnik prostorov) | tilalämmityksen kausittainen energiatehokkuus (ensisijaisen tilalämmittimen tilalämmityksen) | Säsongsmedelverkningsgrad för rumsuppvärmning (primära pannans eller värmepumpens) |
| t | ensisijaisen lämmittimen ja lisälämmittimen lämpötehon painotuskerroin | ensisijaisen lämmittimen ja lisälämmittimen lämpötehon painotuskerroin | Viktningsfaktorn för primär- och tillsatsvärmarens värmeproduktion för paket |
| u | matematične enačbe : 294 /(11 • Prated) [1)] | matemaattisen ilmaisun : 294 /(11 • Prated) [1)] | matematiska formeln : 294 /(11 • Prated) [1)] |
| v | matematične enačbe : 115 /(11 • Prated) [2)] | matemaattisen ilmaisun : 115 /(11 • Prated) [2)] | matematiska formeln : 115 /(11 • Prated) [2)] |
| w | razlike med sezonskima energijskima učinkovitostma pri ogrevanju prostorov v povprečnih in hladnejših podnebnih razmerah [3)] | keskimääräisissä ja kylmissä ilmasto-olosuhteissa saavutettavien tilalämmityksen kausittaisten energiatehokkuuksien ero [3)] | Skillnaden mellan den säsongsrelaterade energieffektiviteten vid rumsuppvärmning under genomsnittliga och kallare klimatförhållanden [3)] |
| x | razlike med sezonskima energijskima učinkovitostma pri ogrevanju prostorov v toplejših in povprečnih podnebnih razmerah [4)] | lämpimissä ja keskimääräisissä ilmasto-olosuhteissa saavutettavien tilalämmityksen kausittaisten energiatehokkuuksien ero [4)] | Skillnaden mellan den säsongsrelaterade energieffektiviteten vid rumsuppvärmning under varmare och genomsnittliga klimatförhållanden [4)] |
| y | [1)] pri čemer se Prated navezuje na prednostni grelnik prostorov | [1)] jossa Prated liittyy ensisijaiseen tilalämmittimeen | [1)] där Prated är relaterat till den primära pannan eller värmepumpen |
| z | [2)] pri čemer se Prated navezuje na prednostni grelnik prostorov | [2)] jossa Prated liittyy ensisijaiseen tilalämmittimeen | [2)] där Prated är relaterat till den primära pannan eller värmepumpen |
| aa | [3),4)] prednostne toplotne črpalke za ogrevanje prostorov | [3),4)] ensisijaisista lämpöpumpputilalämmittimistä | [3),4)] för primära värmare med värmepump för rumsuppvärmning |
| ab | razred naprave za uravnavanje temperature | lämmönsäätölaitteen luokka | Temperaturregulatorns klass |
| ac | prispevek naprave za uravnavanje temperature k sezonski energijski učinkovitosti pri ogrevanju prostorov | lämmönsäätölaitteen vaikutus tilalämmityksen kausittaiseen energiatehokkuuteen | Temperaturregulatorns bidrag till säsongsmedelverknings graden för rumsuppvärmning |