

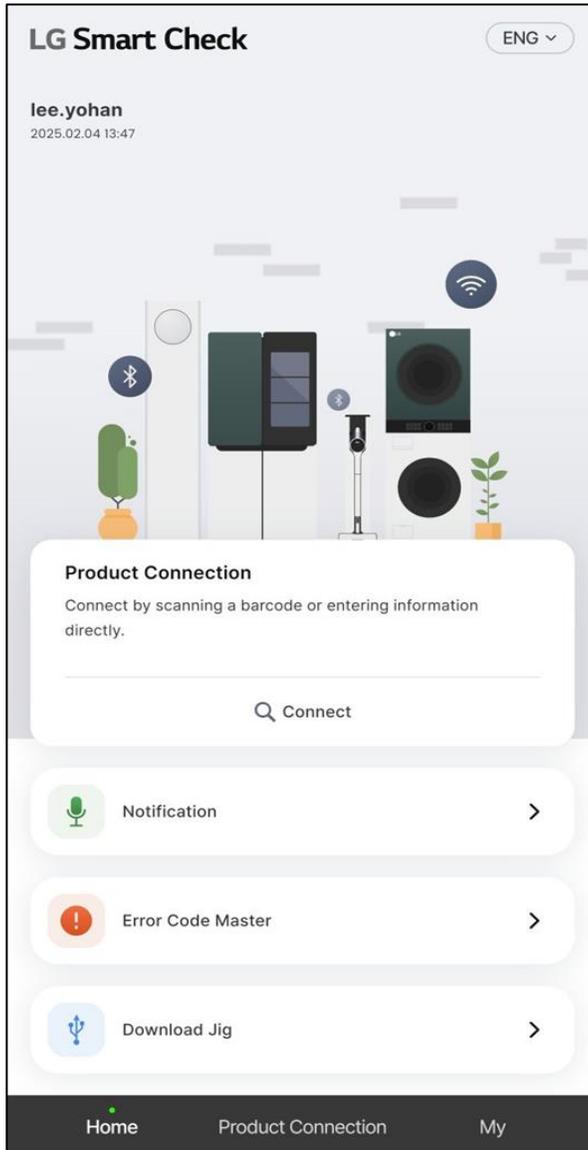
# **LG Smart Check User`s Guide**

2025. 2. 4

Customer Value Innovation Office, Service Diagnosis Application Advancement Task

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## 1) Kitchen Division

UK : NEXT6, VF3 (June 2024 ~), NEXT8 (August 2023 ~)  
FR : NEXT6 (September 2023 ~), NEXT8 (March 2024 ~)  
DEU : NEXT8 (March 2023 ~)

- **FD refrigerator**

→ QuickCheck, Real-time Monitoring, Manual Control, Blackbox, Comprehensive Diagnostic Report  
(Linear compressor only)

- **FD,SXS,BF,TF refrigerator**

UK,FR,DEU : NEXT, FD, SXS, BF (January 2017~)

→ Real-time Monitoring, Sealed System Repair Chatbot

## 2) Living Division

UK,FR,DEU : (January 2019 ~)

- **Front Loader Washer, Dryer, WashTower**

→ Blackbox

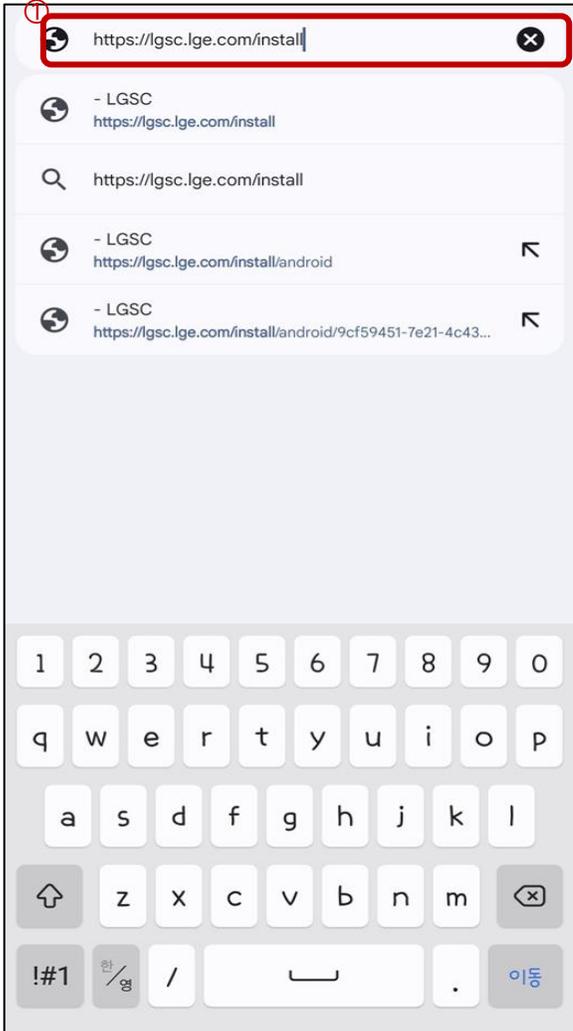
## 3) Air Solution Division

- **RAC(Potable, Package(Stand), Wall mount), SAC(Single & Multi, Multi Vs)**

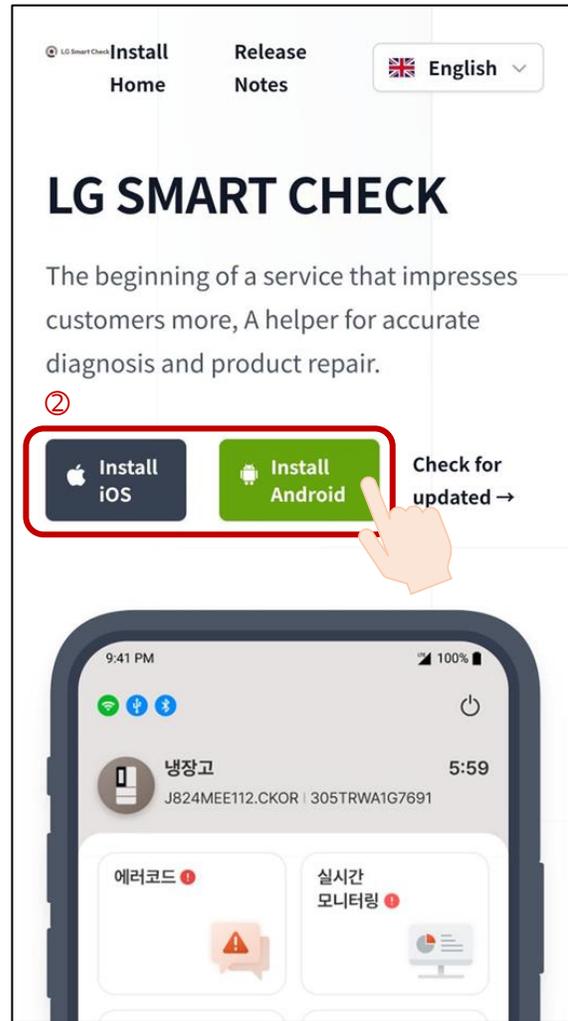
→ Real-time Monitoring, Comprehensive Diagnostic Report

# 1. How to install the app

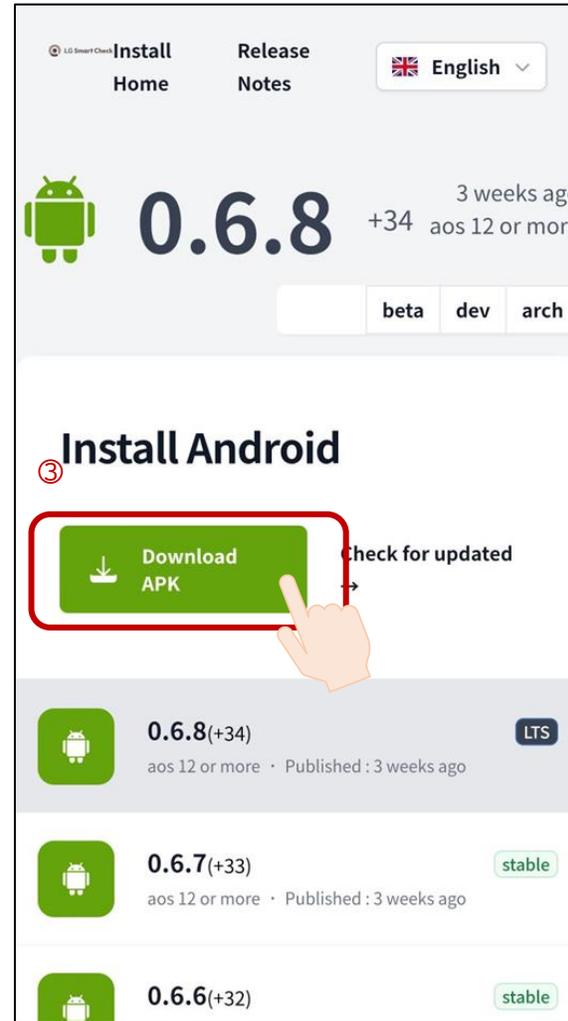
① Please connect to <https://lgsc.lge.com/install>



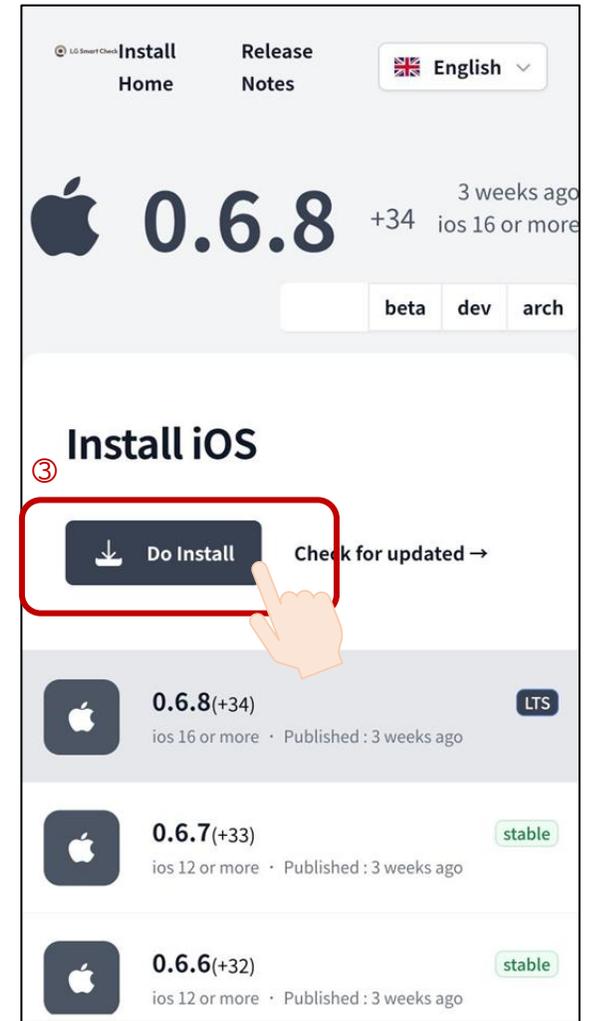
② Select by mobile phone OS



③ Install AOS version



③ Install IOS version



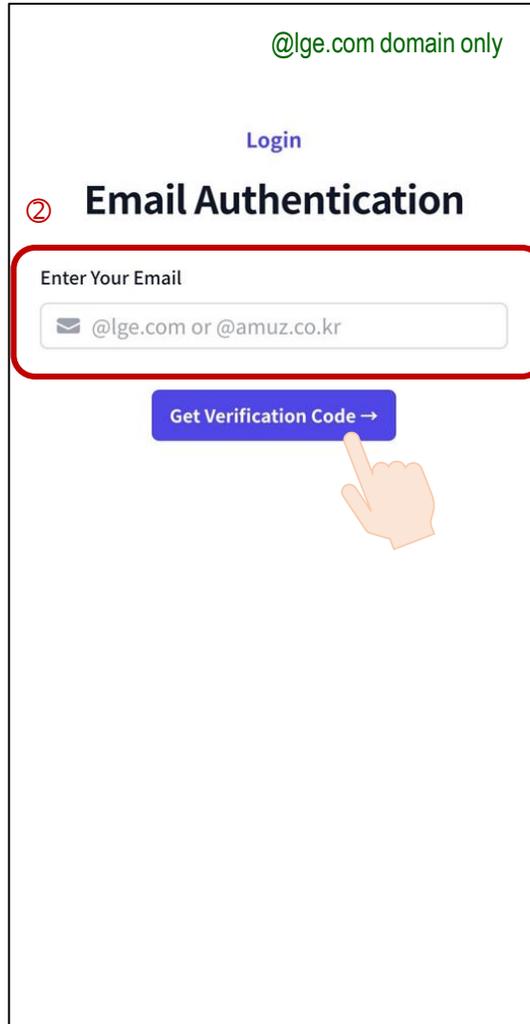
## 2. Login

### 1) E-mail Authentication

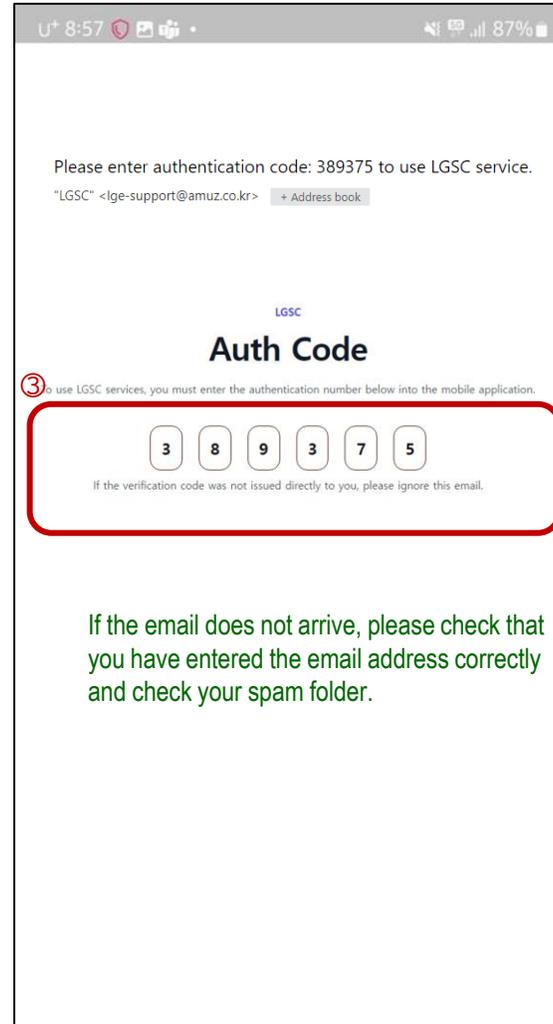
① Launch the LGSC App



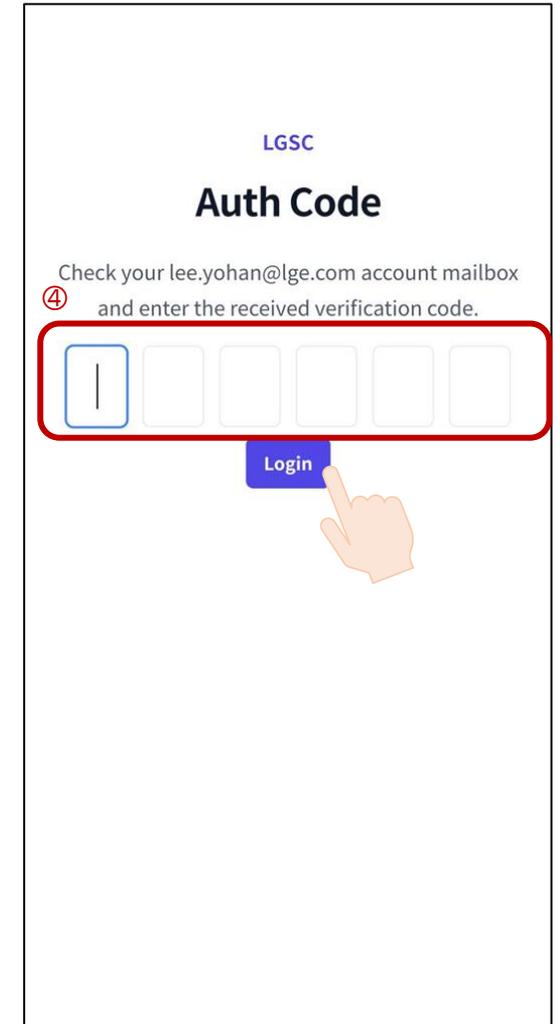
② Enter your email address and select Receive authentication number.



③ Check the authentication code in your email



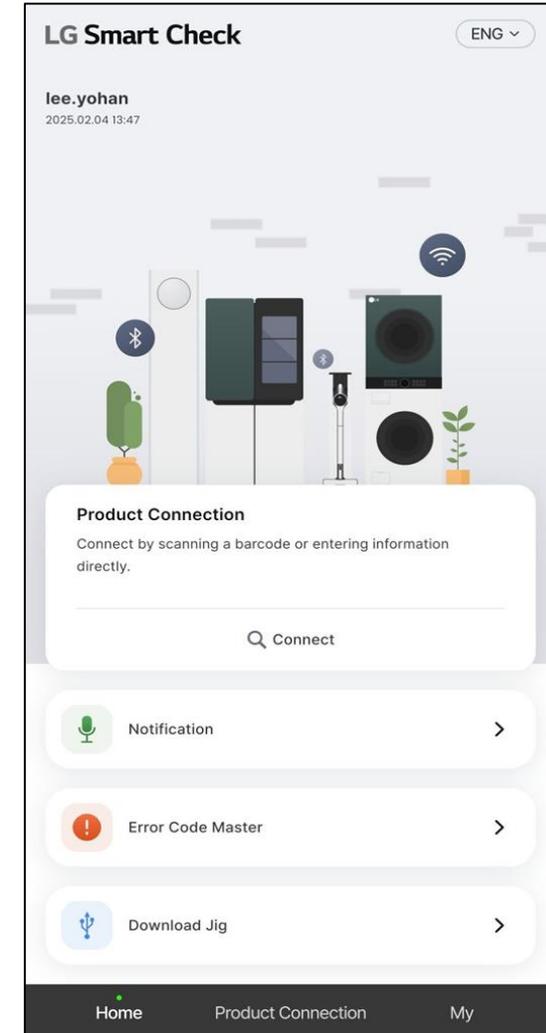
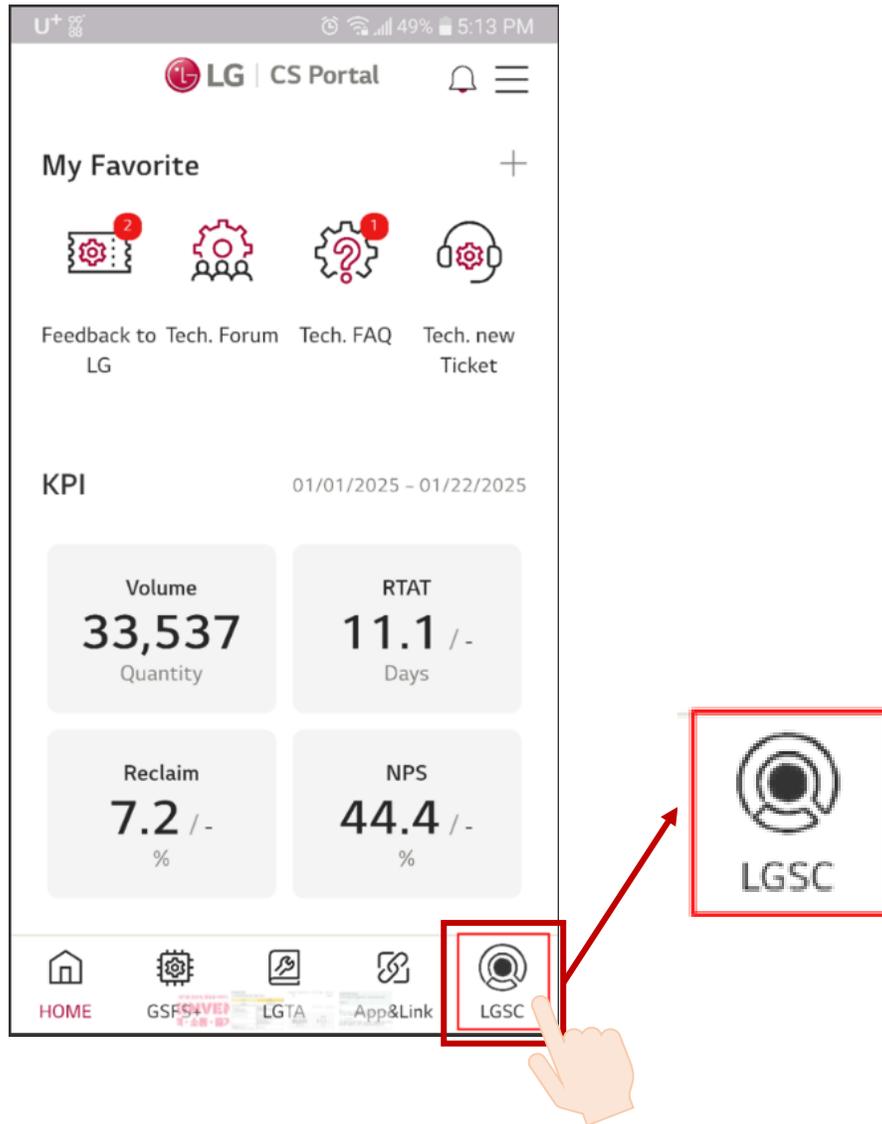
④ Enter the authentication code and login



## 2. Login

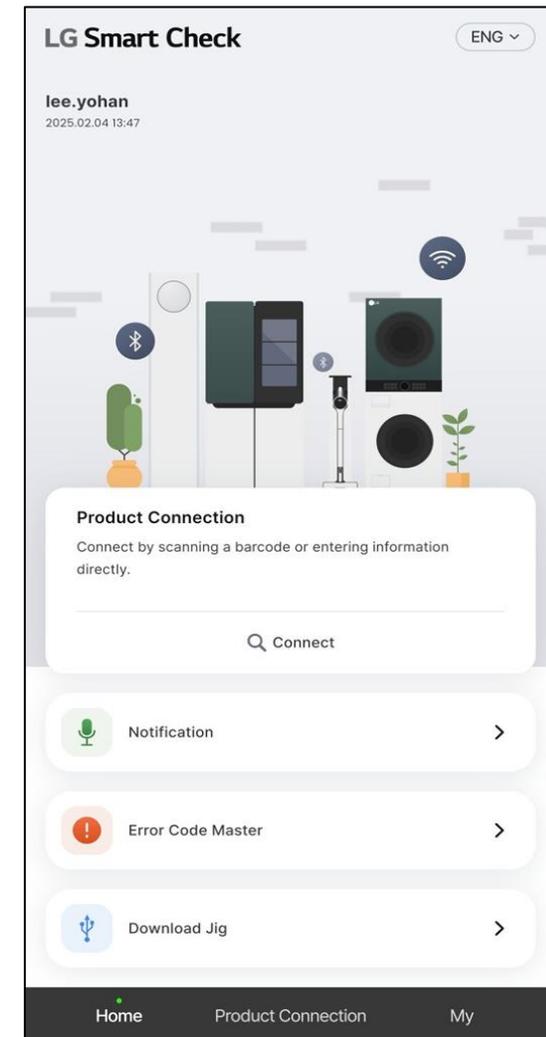
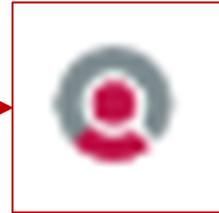
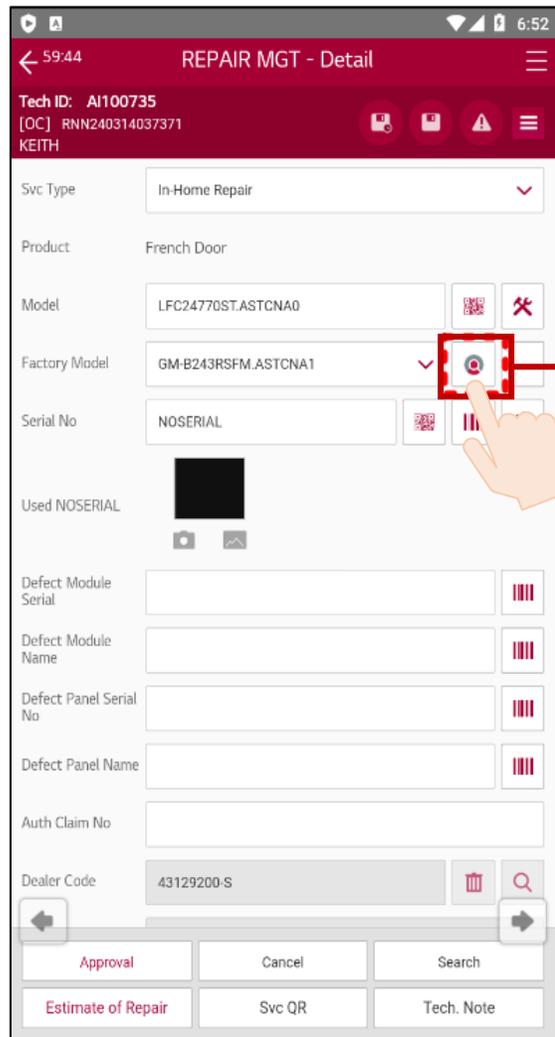
### 2) Connection via CS Portal

→ Access is possible through the CS Portal App.

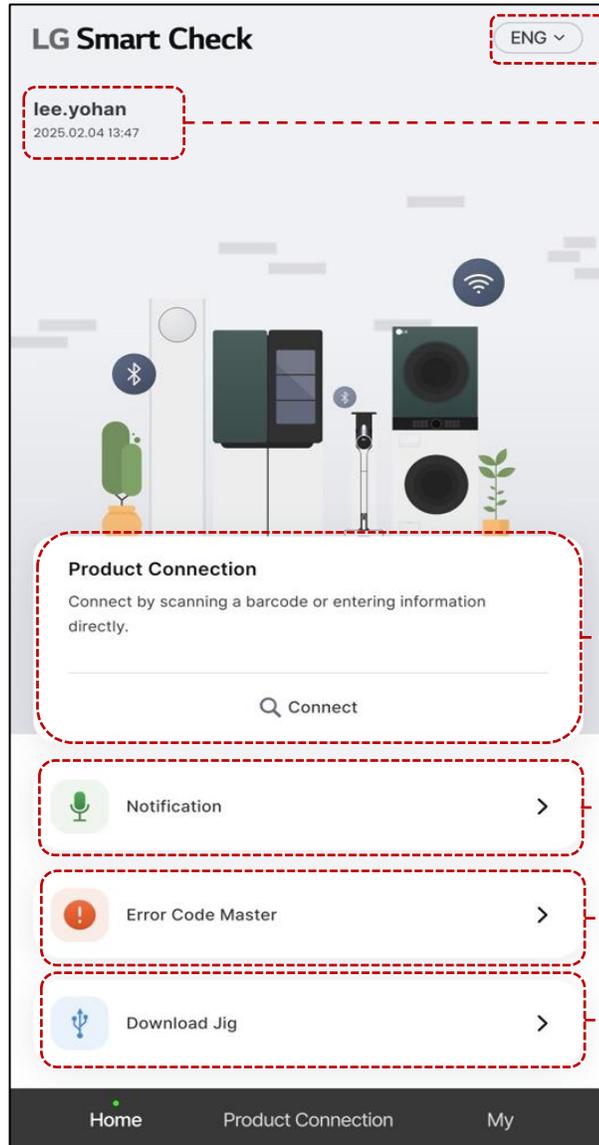


### 3) Connection via GSFS

→ Access is possible through the GSFS App.



### 3. Main screen structure



● Select language: Korean / English

● Account information and access date

● Product Connection: Connection between App and product

● Notification: Information on LGSC important matters

● Error Code Master: Provides error code guide for products

● Download Jig: A function to download firmware of products requiring update using SW Rewriter JIG.

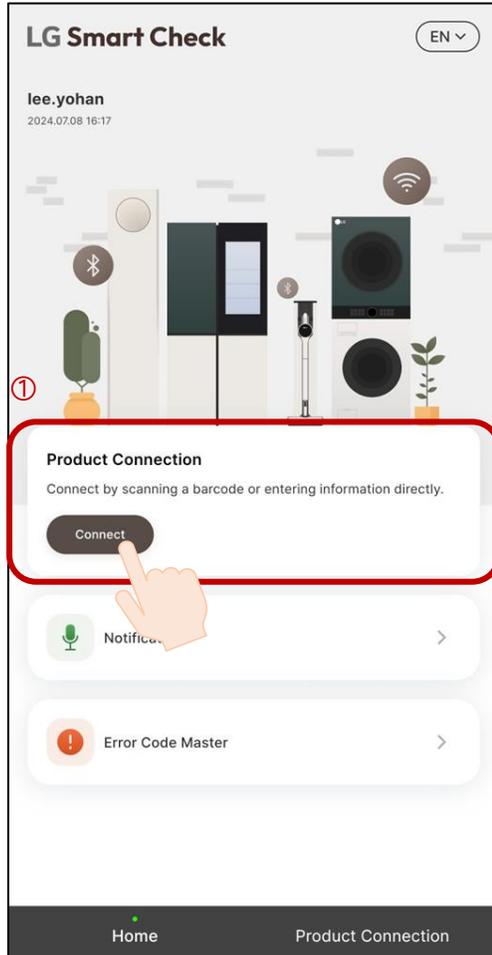
# Product Connection

# 4. Product connection

## 1) How to connect refrigerator products

### (1-1) How to input the model name and serial number (Barcode Scan, ThinQ QR Code Scan)

① Select product connection

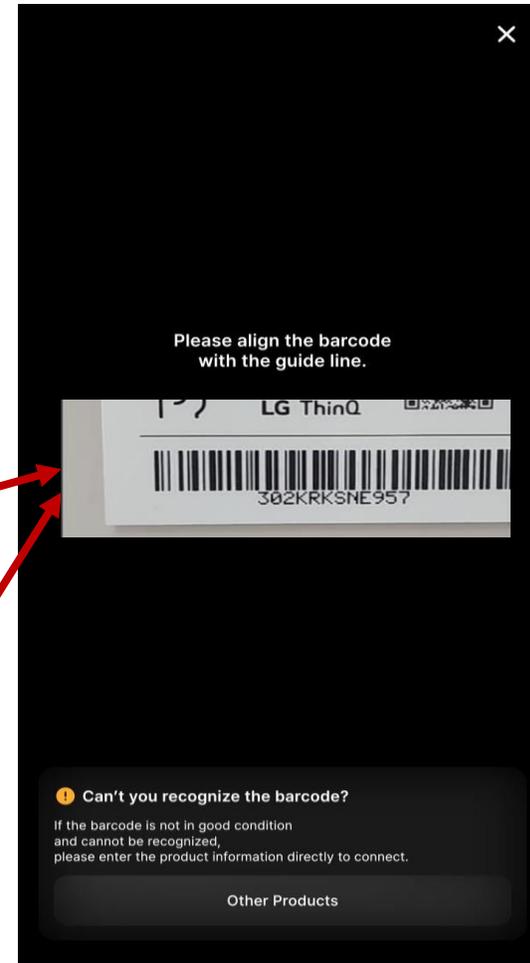


② Scan the serial number barcode inside the refrigerator

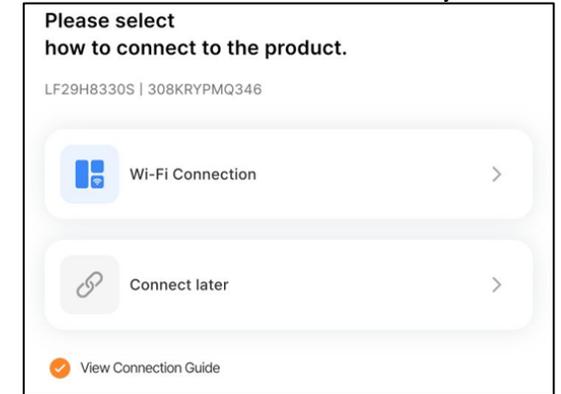
[Barcode in the product specification table attached to the wall inside the refrigerating room]



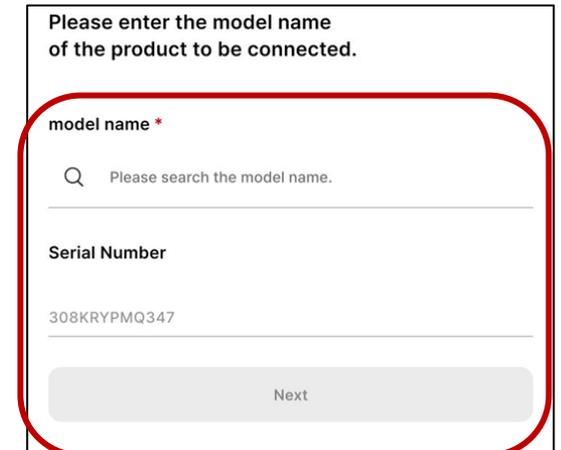
[ThinQ registration QR Code]



Case1. If the server has a model name, the model name is automatically entered.



Case2. Model name if there is no model name on the server manual input

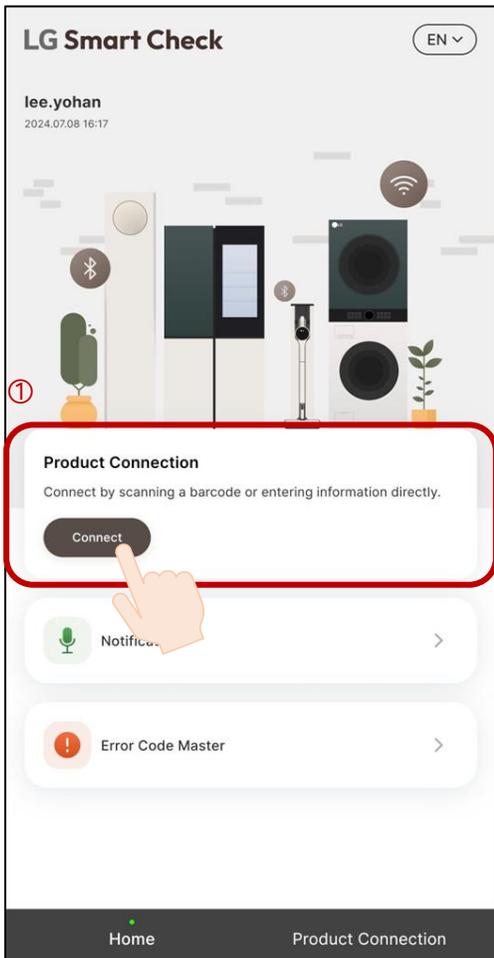


# 4. Product connection

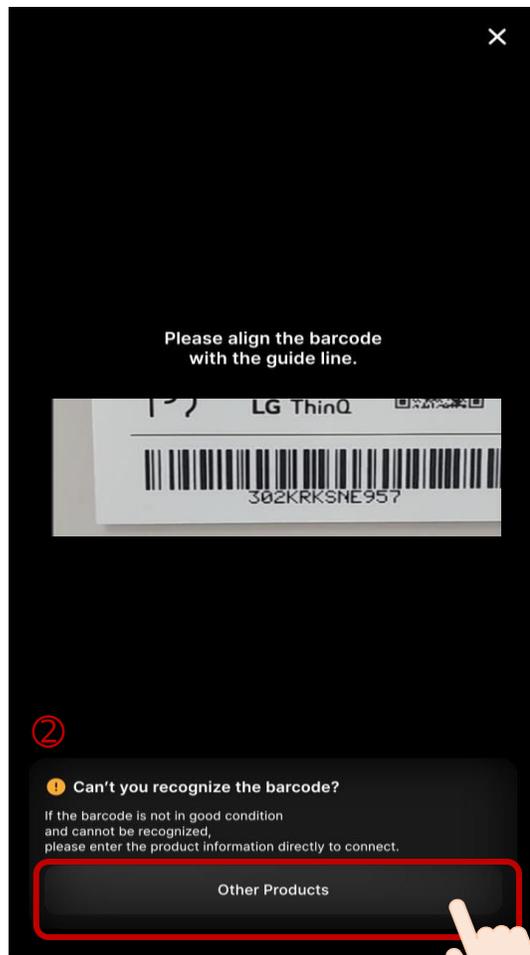
## 1) How to connect refrigerator products

### (1-2) How to input the model name and serial number (Enter it manually)

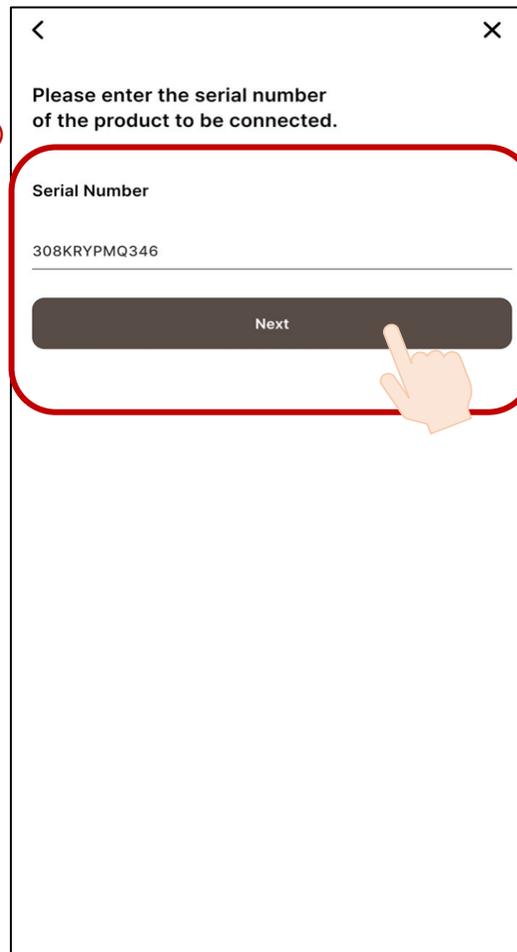
① Select product connection



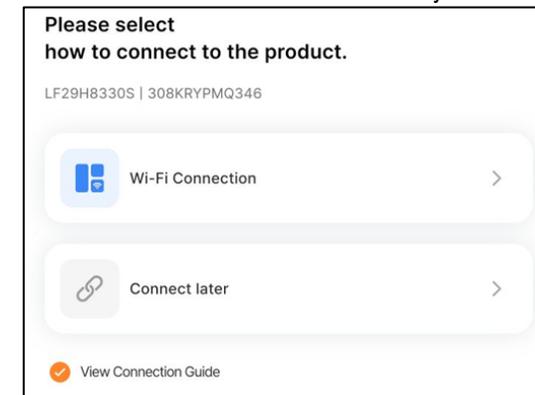
② Select other products



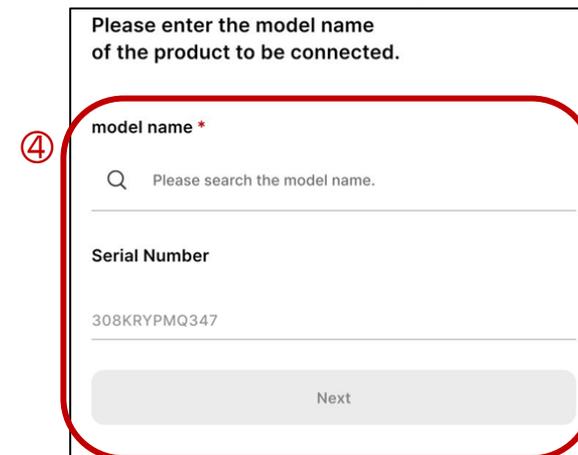
③ Enter Serial Number



Case1. If the server has a model name, the model name is automatically entered



Case2. Model name if there is no model name on the server manual input

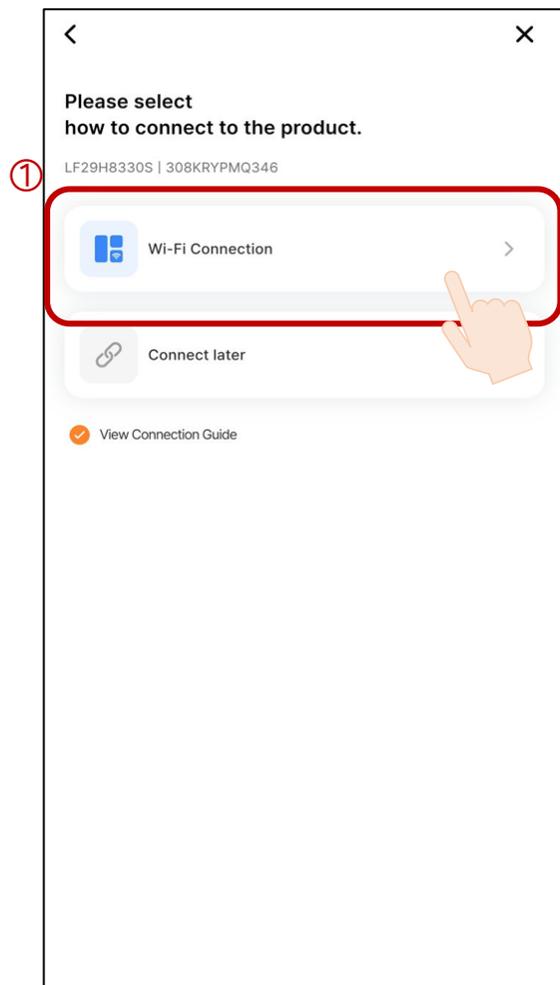


## 4. Product connection

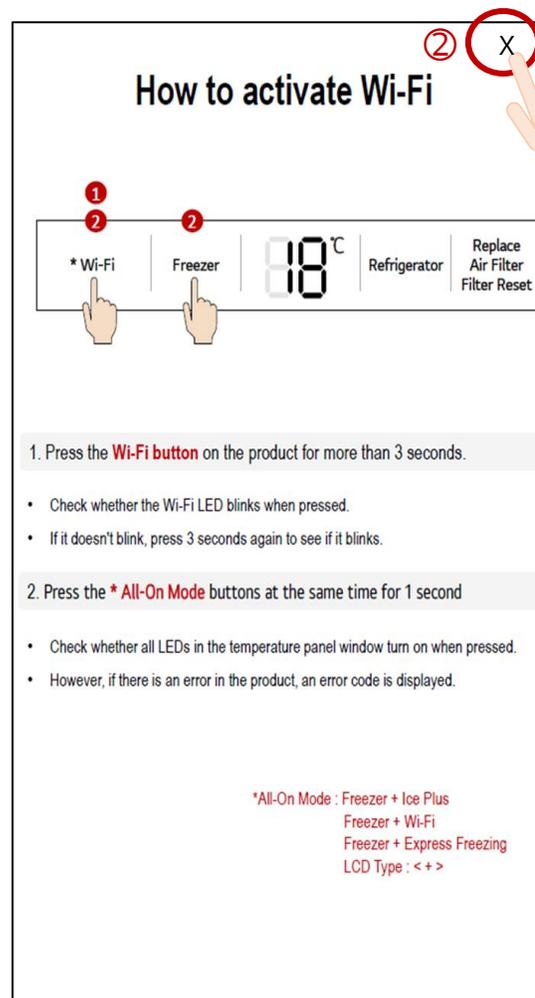
### 1) How to connect refrigerator products

#### (2-1) Connect the product via Wi-Fi (Model with full functionality available)

##### ① Wi-Fi connection



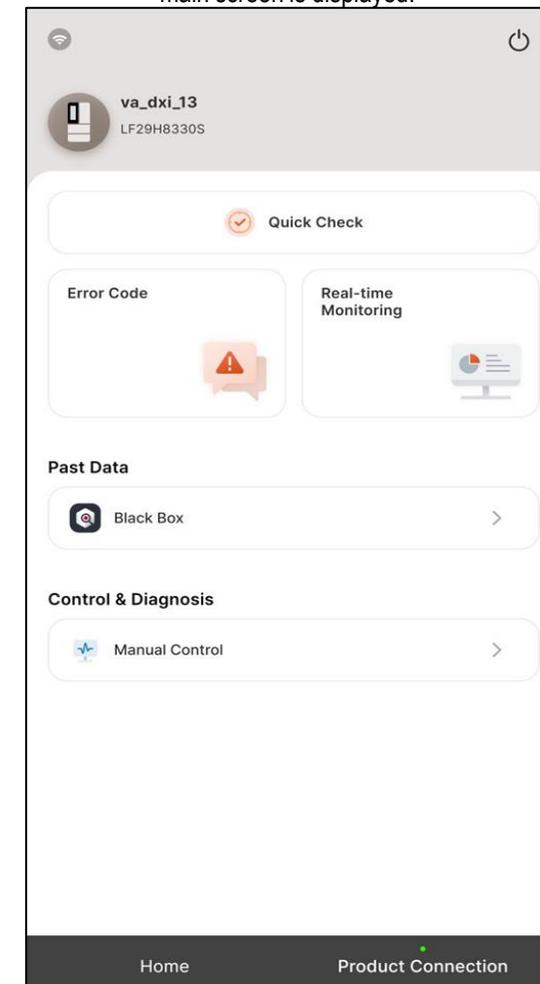
##### ② Enter All-On mode after activating Wi-Fi



##### ③ Select the product Wi-Fi Access Point



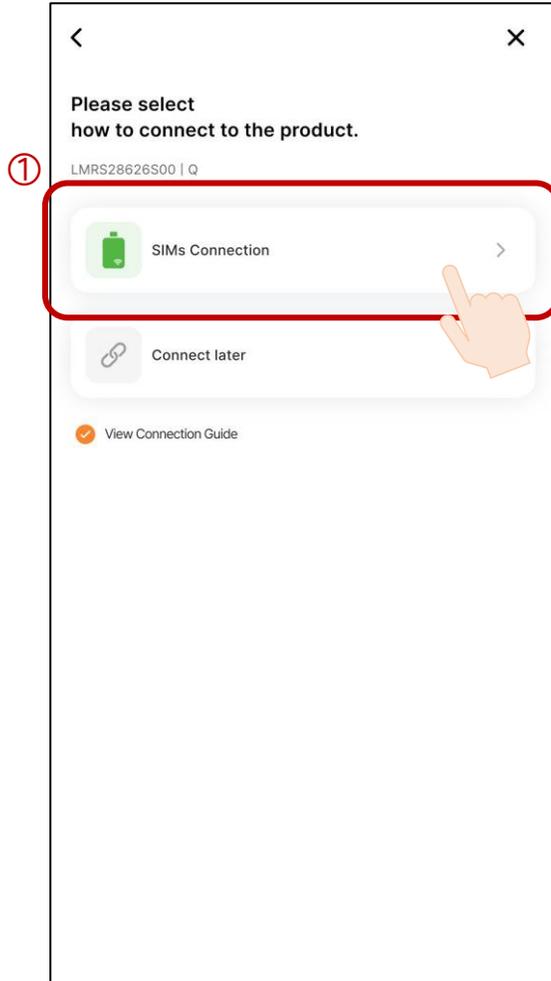
##### ④ When connection is completed, main screen is displayed.



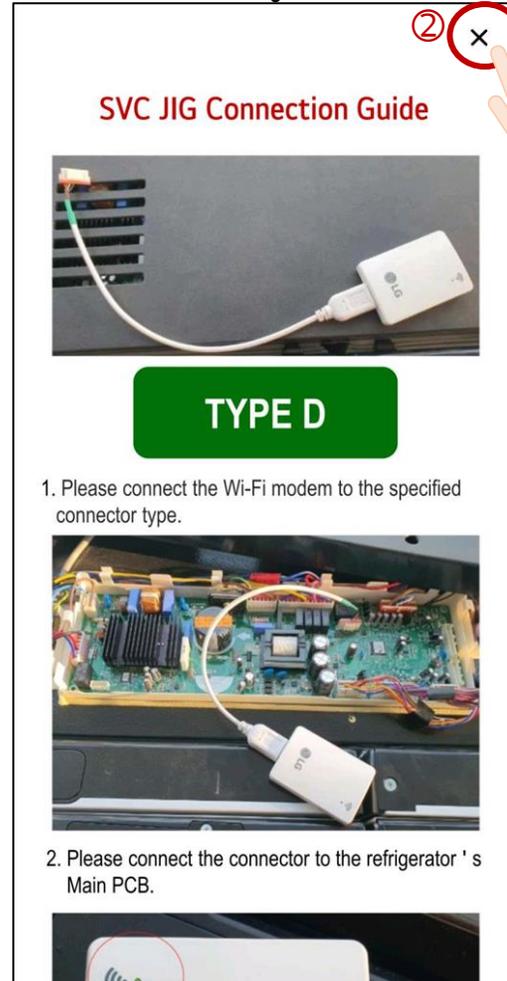
## 1) How to connect refrigerator products

### (2-2) Connect the product via Wi-Fi (Models with some functions available) ▶

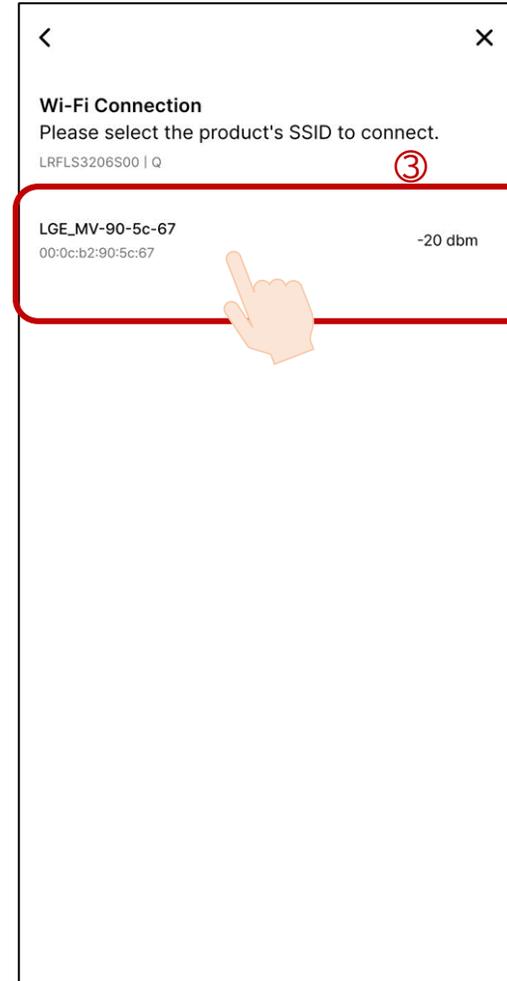
① SIMs Connection



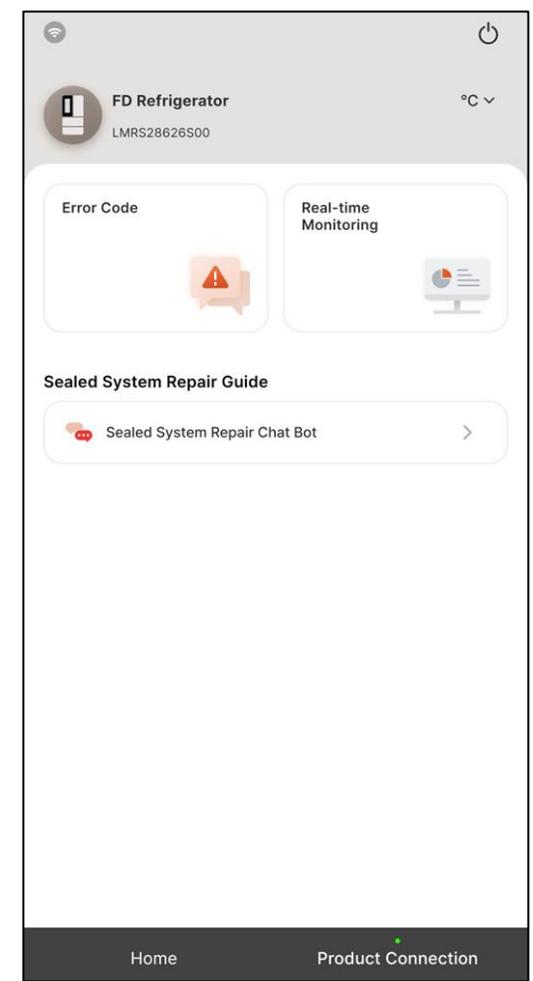
② After checking the harness type, connect the SIMs dongle to the main PCB.



③ Connect to the product by selecting the Wi-Fi of the SIMs dongle



④ When connection is completed, main screen is displayed

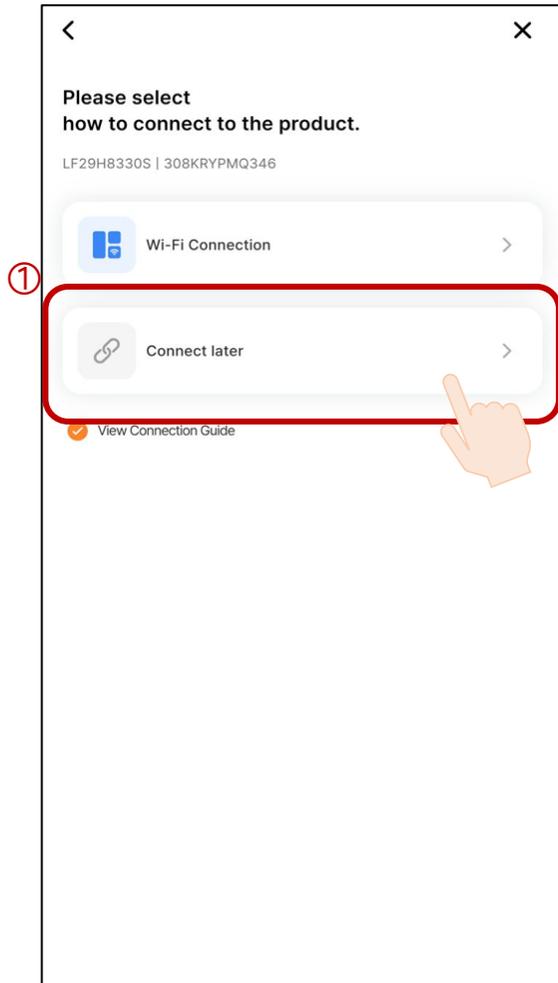


# 4. Product connection

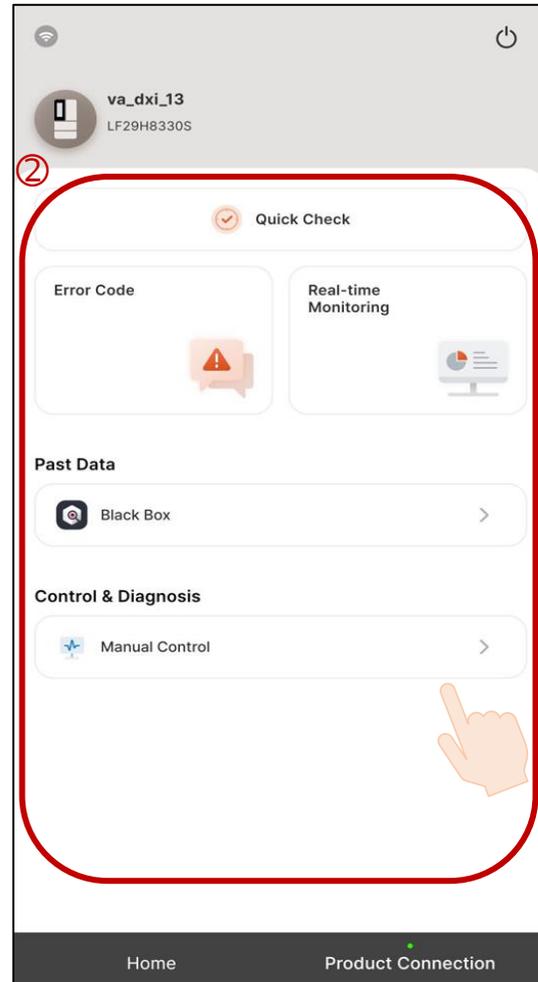
## 1) How to connect refrigerator products

### (2-3) Connect later

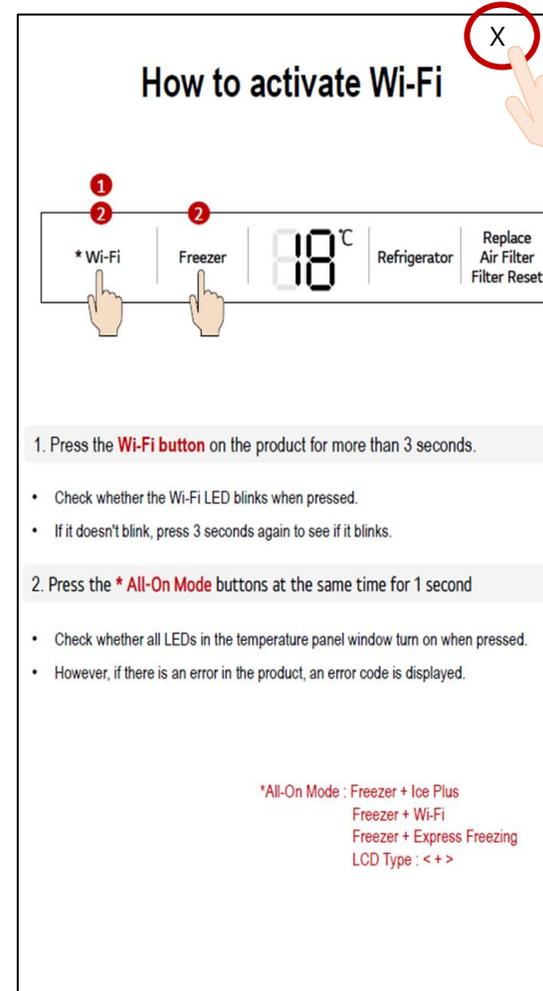
① Select Connect later



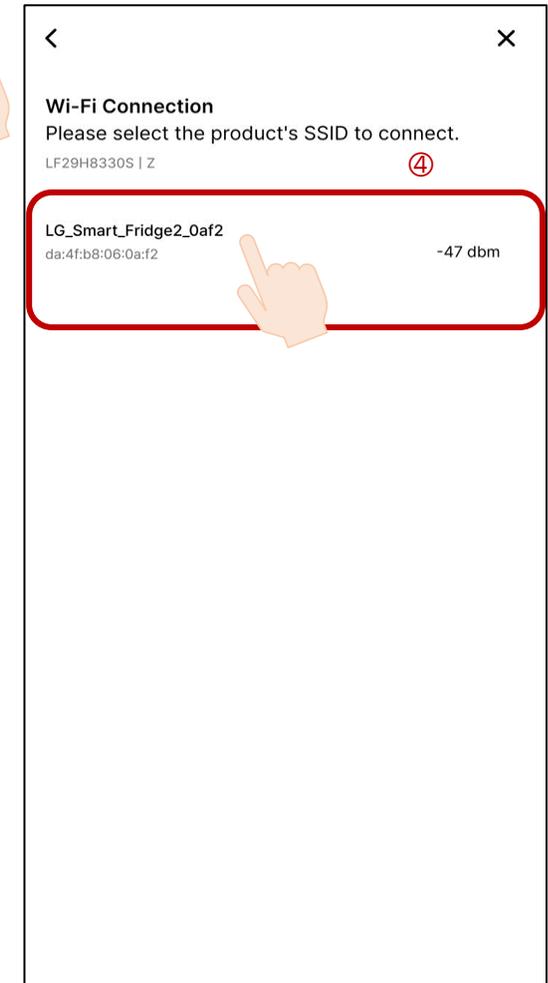
② Move to the main screen and select the desired function



③ Enter All-On mode after activating Wi-Fi



④ Select the product Wi-Fi Access Point



## 4. Product connection

### 1) How to connect refrigerator products

#### (3) Modem Updates

When connecting the product to Wi-Fi, automatically check whether the Wi-Fi module is the latest version.

Checking the modem version.



**Case1-1.** If the model is eligible for an upgrade, the modem will be upgraded automatically.

Checking the modem version.

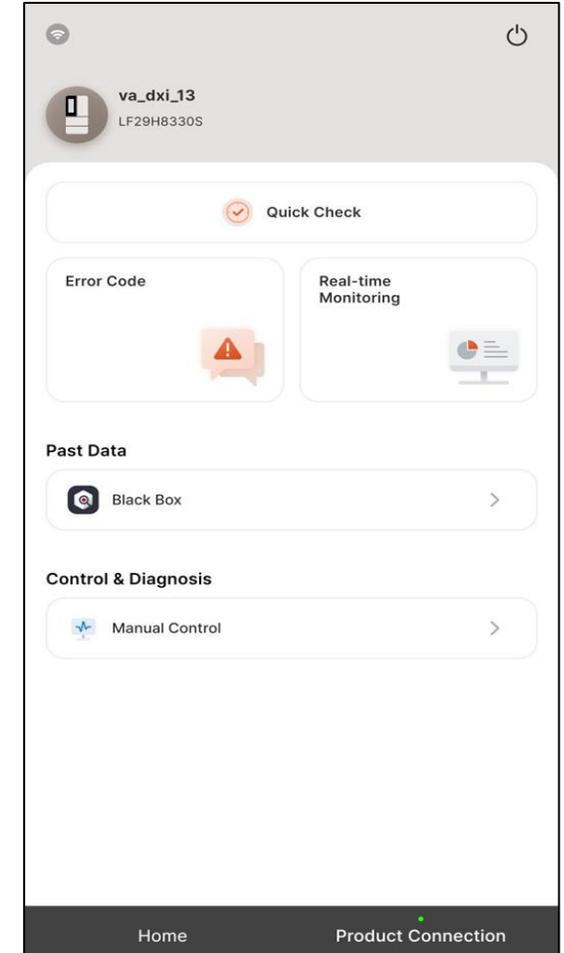


**Case1-2.** After completing the upgrade, the product's Wi-Fi is turned off. Re-enable the product's Wi-Fi and reconnect.

Modem update was successful.  
Please reactivate Soft AP and connect.

OK

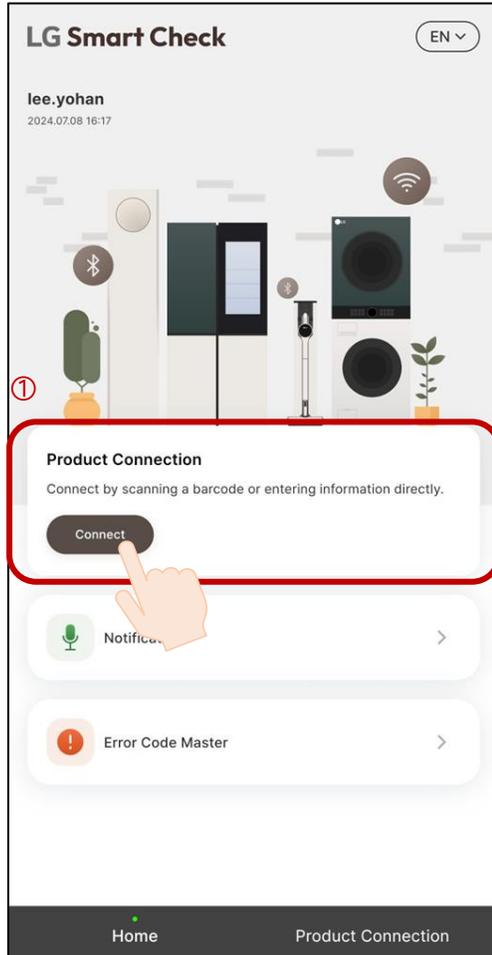
**Case2.** If the model is not eligible for modem upgrade or has the latest version, the main screen will be connected.



## 2) How to connect Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

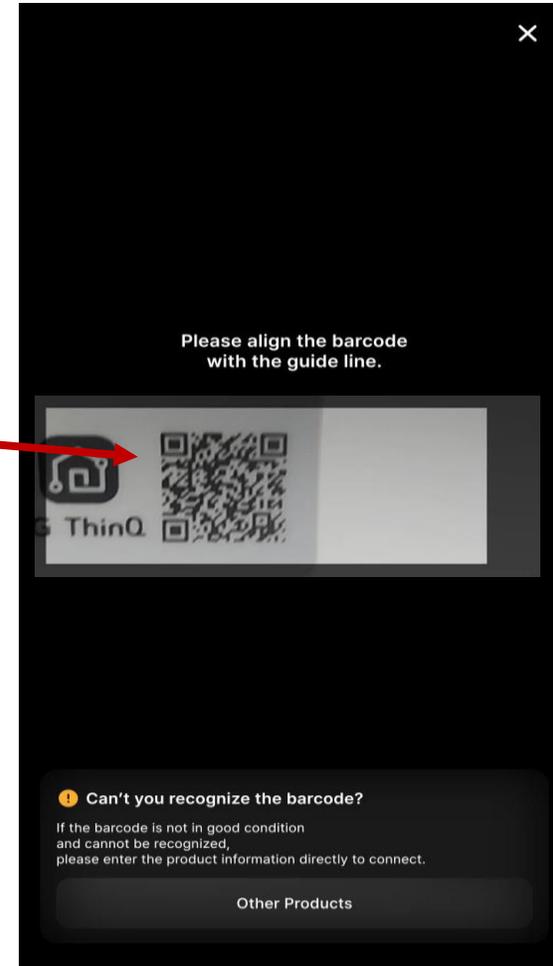
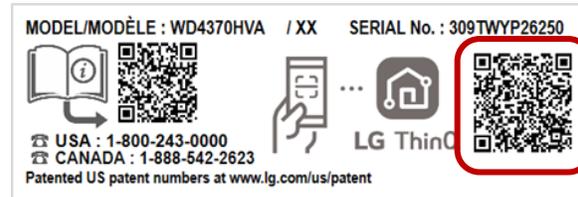
### (1-1) How to input the model name and serial number (ThinQ QR Code Scan)

① Select product connection

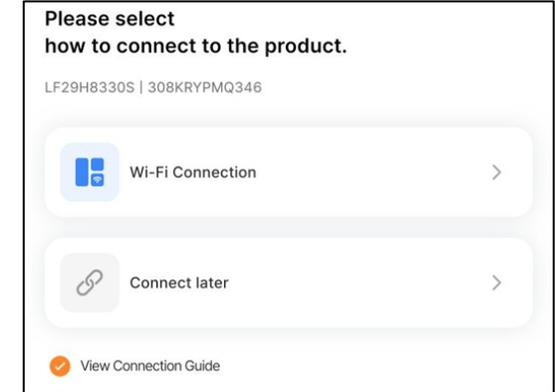


② ThinQ QR Scan

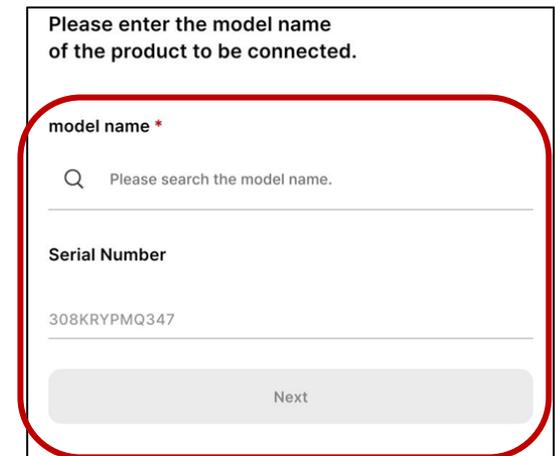
ThinQ QR Code inside when opening the door



Case1. If the server has a model name, the model name is automatically entered



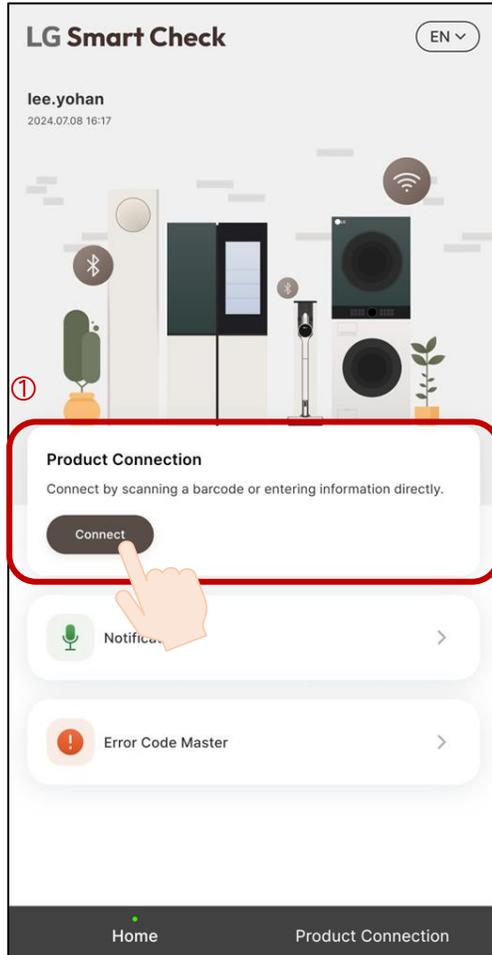
Case2. Model name if there is no model name on the server manual input



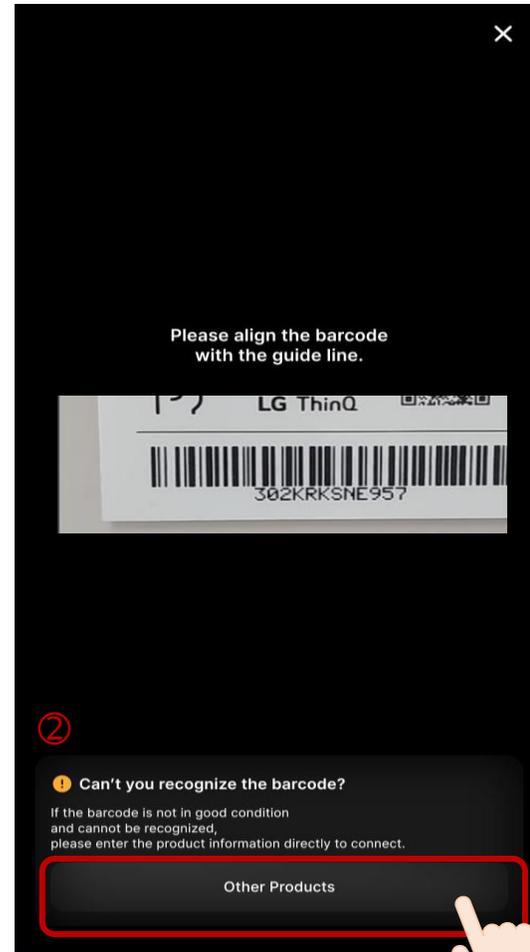
## 2) How to connect Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

### (1-2) How to input the model name and serial number (Enter it manually)

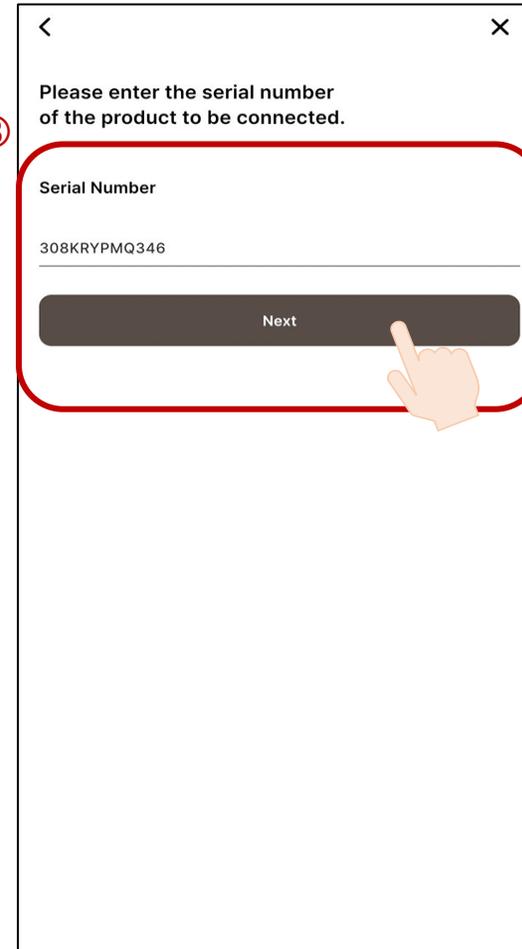
① Select product connection



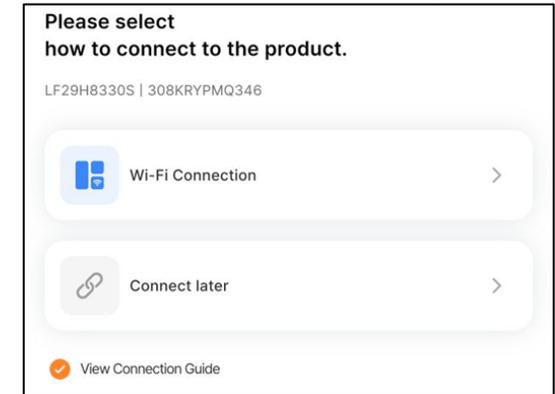
② Select other products



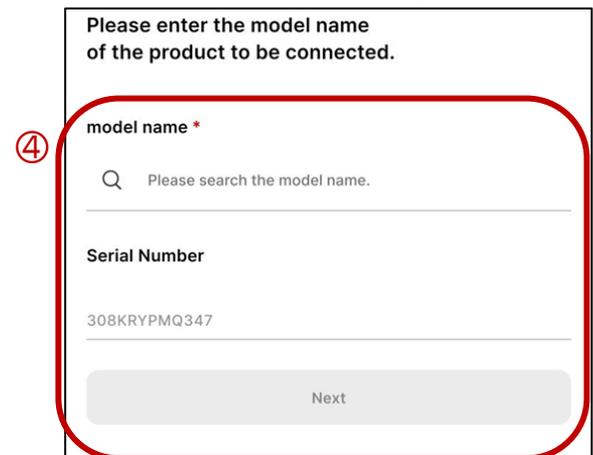
③ Enter Serial Number



**Case1.** If the server has a model name, the model name is automatically entered



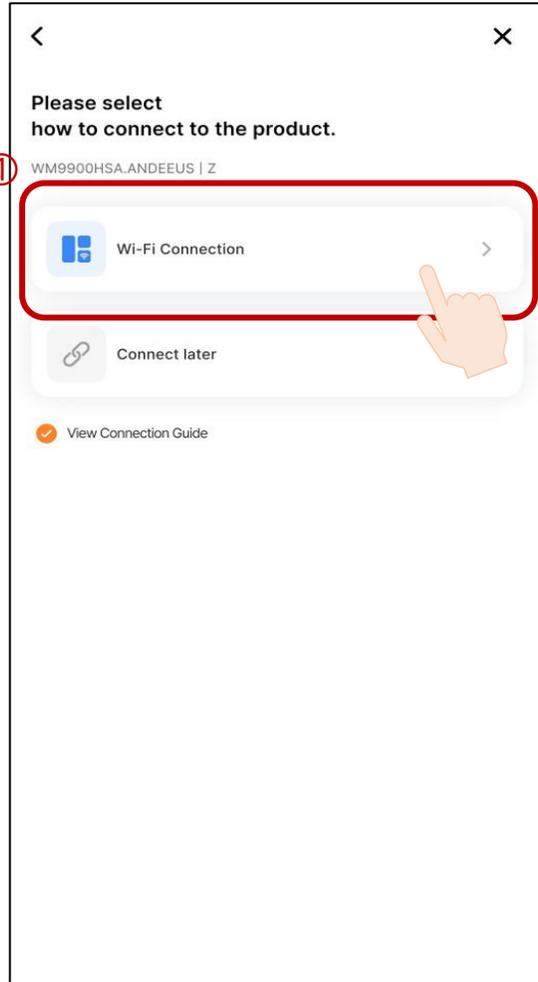
**Case2.** Model name if there is no model name on the server manual input



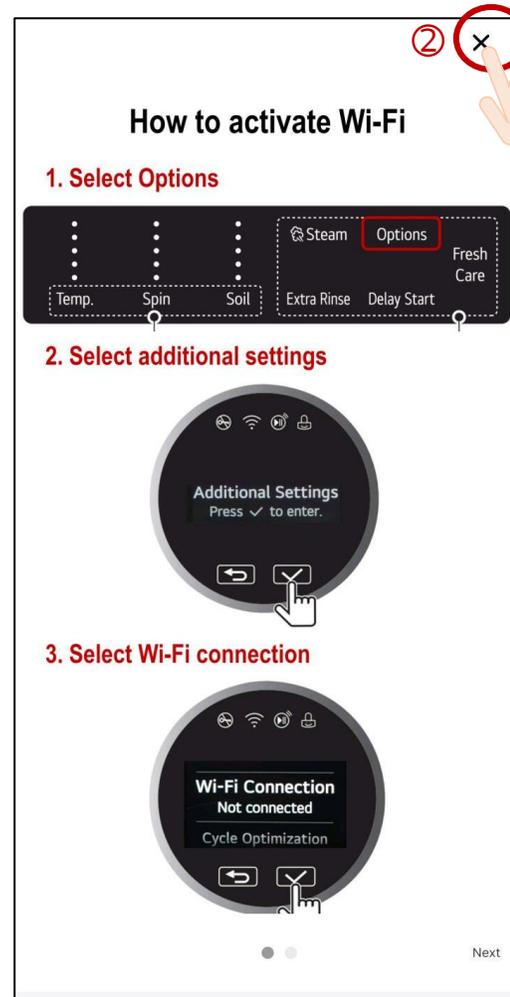
## 2) How to connect Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

### (2-1) Connect the product via Wi-Fi

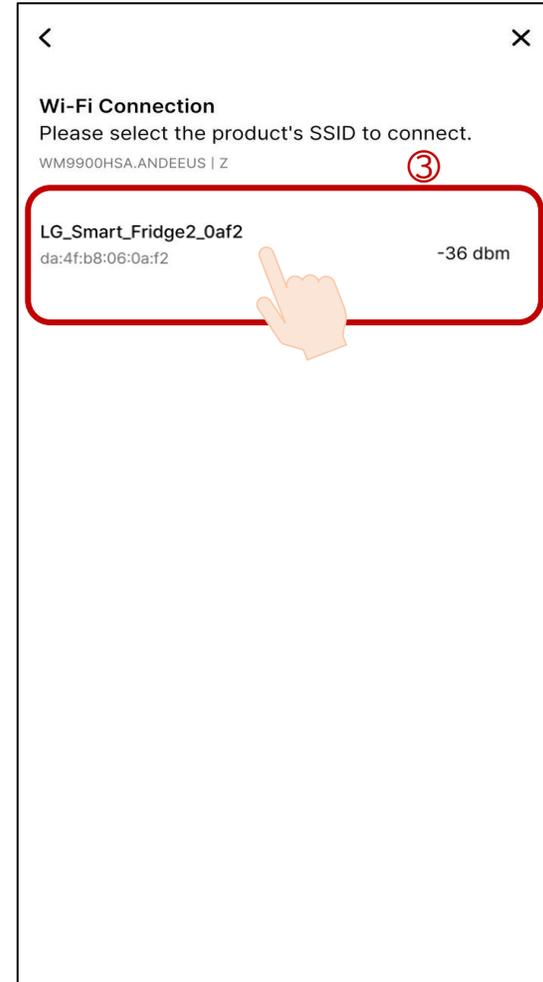
① Select product connection



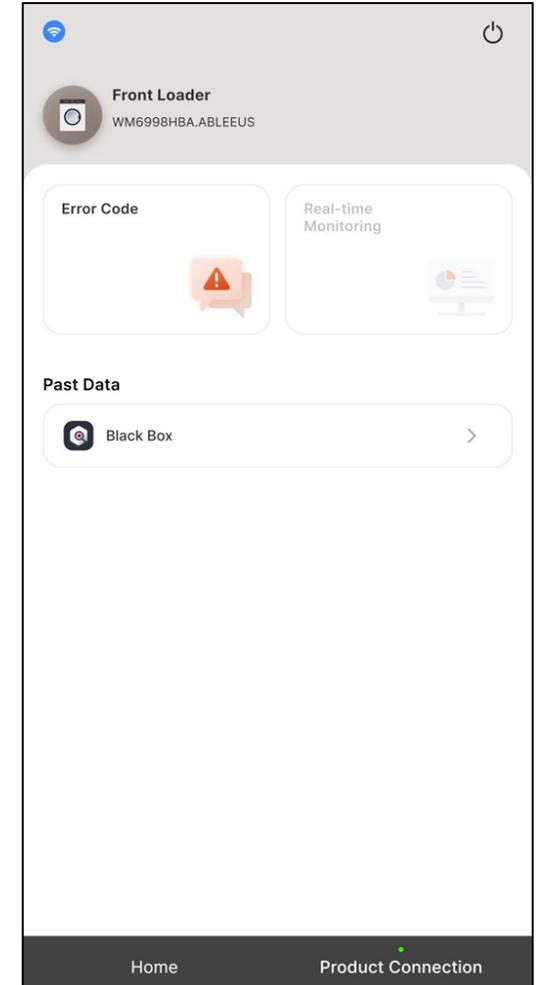
② Activate Wi-Fi



③ Select the product Wi-Fi Access Point



④ When connection is completed, main screen is displayed.

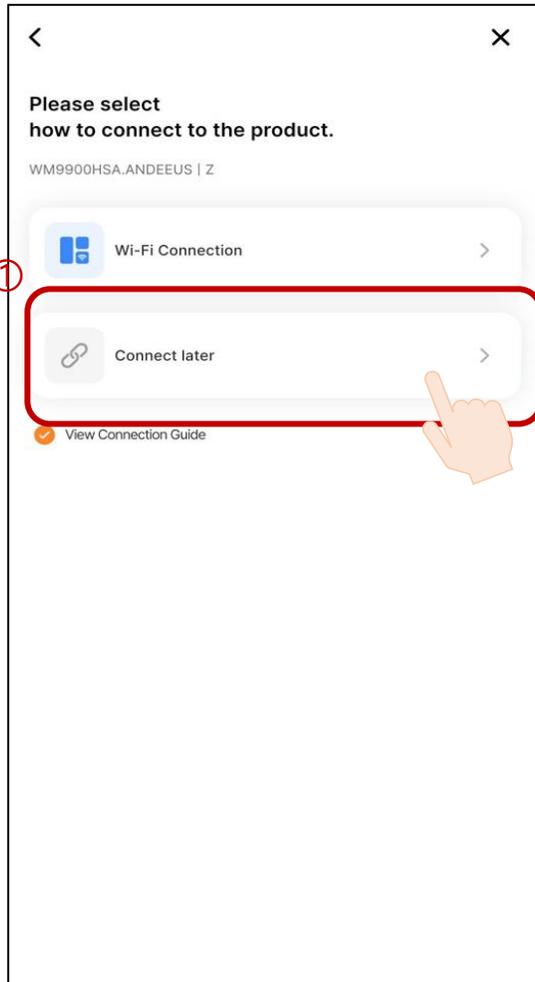


## 4. Product connection

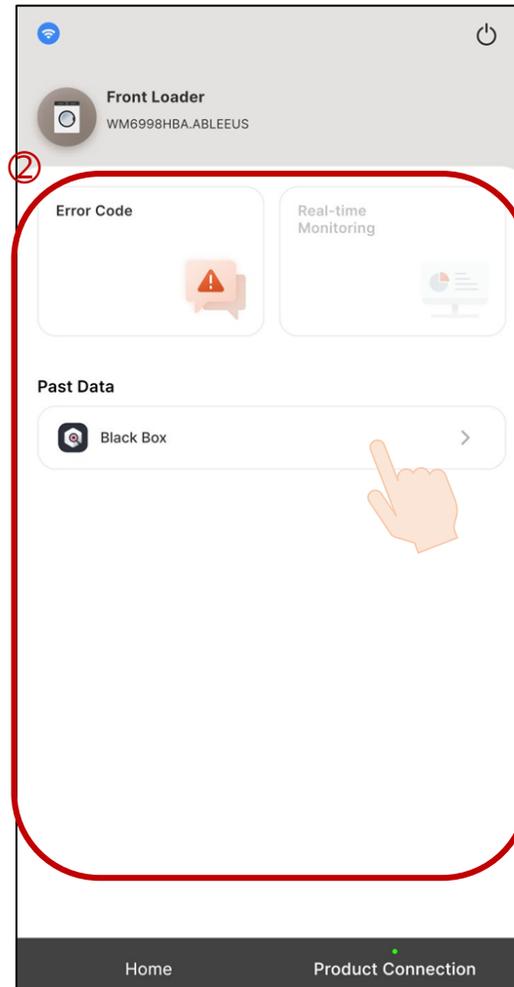
### 2) How to connect Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

#### (2-2) Connect later

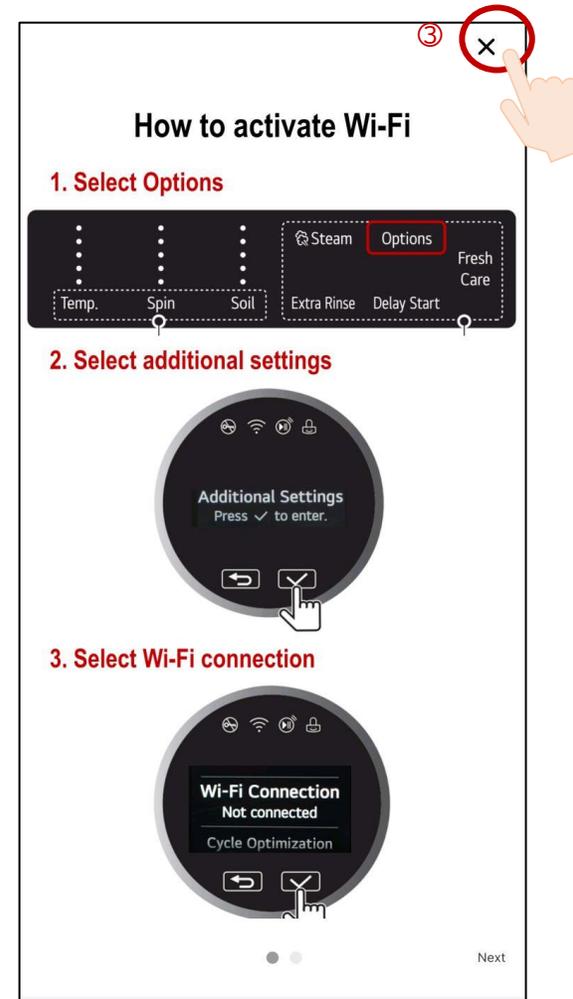
① Select Connect later



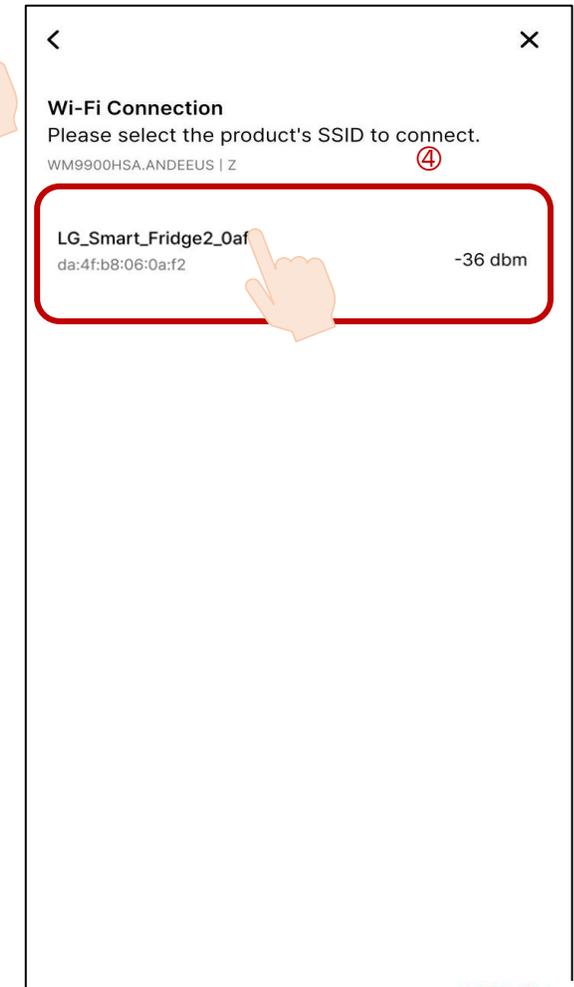
② Move to the main screen and select the desired function



③ Activate Wi-Fi



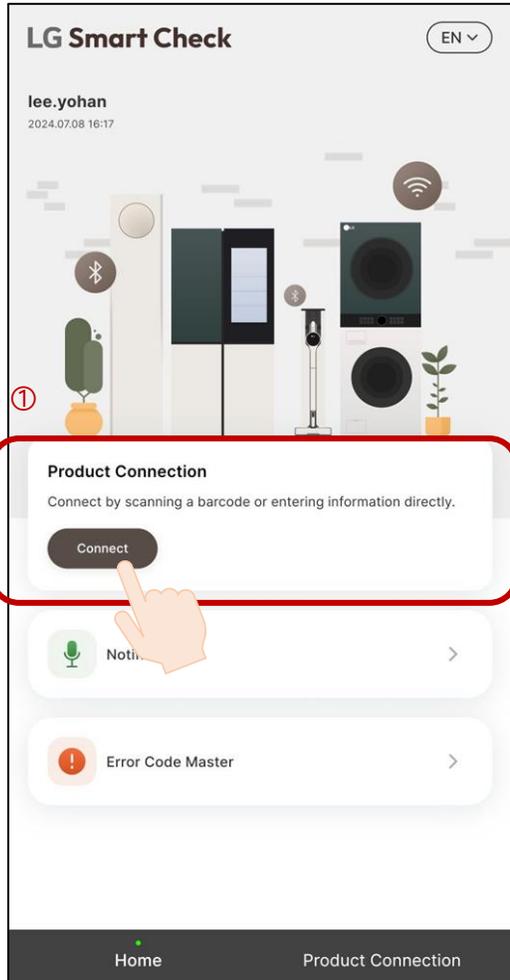
④ Select the product Wi-Fi Access Point



## 3) How to connect air conditioner products

### (1) Enter model code

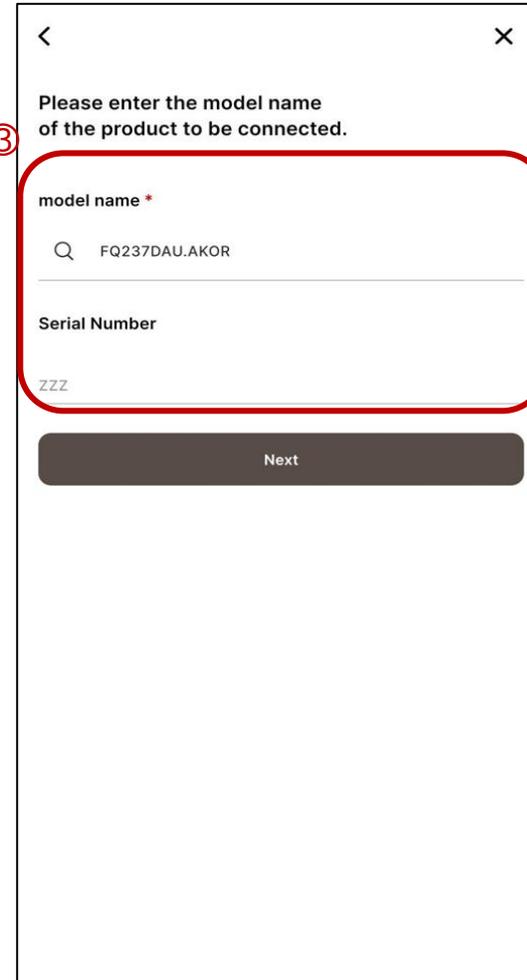
① Select Product Connection



② Select air conditioner connection



③ Enter outdoor unit model code

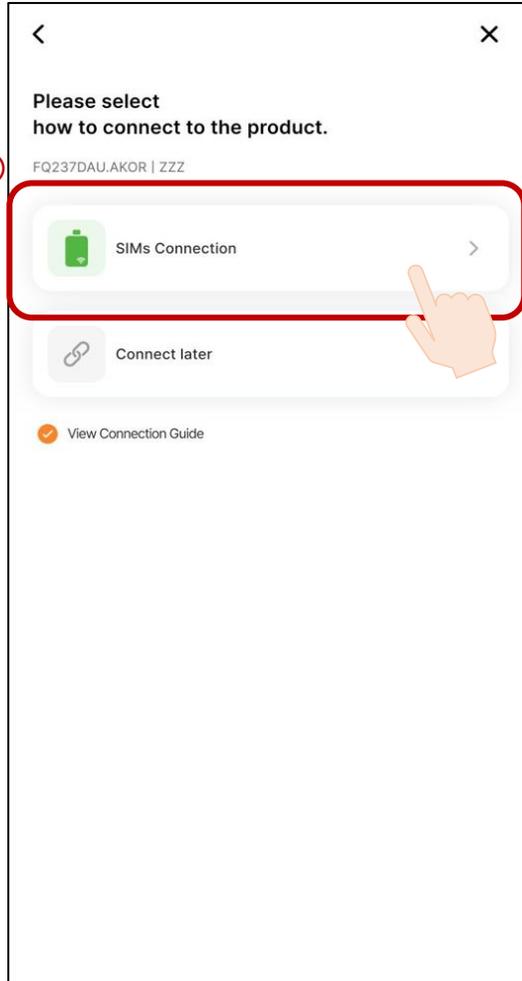


# 4. Product connection

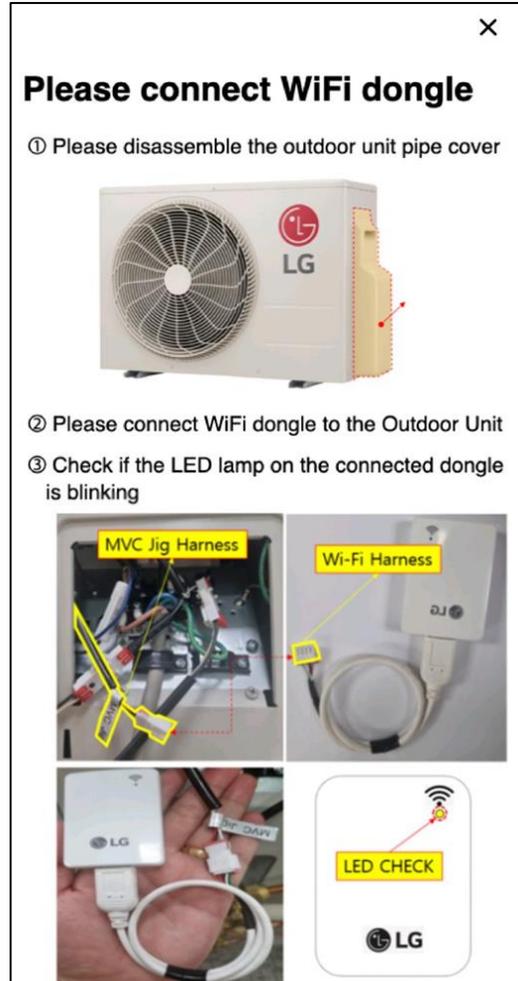
## 3) How to connect air conditioner products

### (2-1) Connecting your product via the SIMs dongle

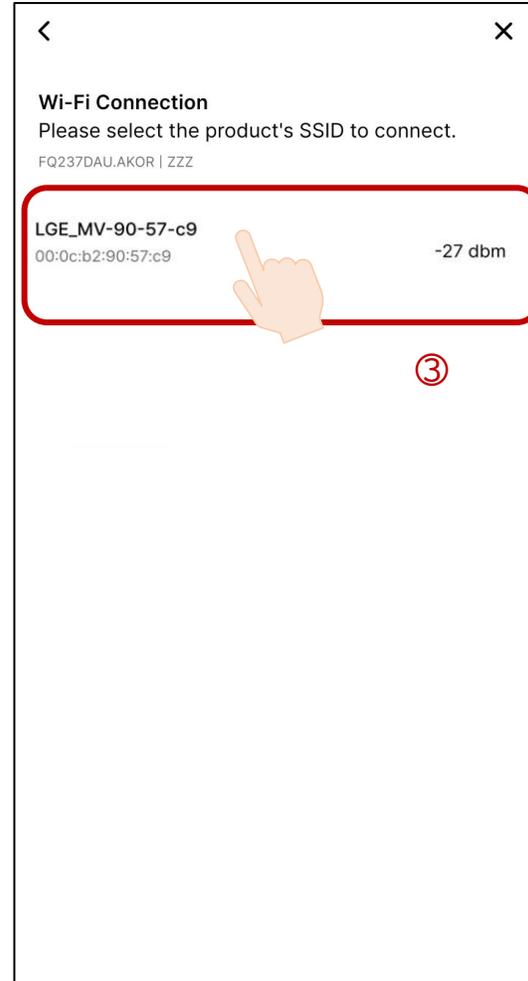
① Select SIMs Connection



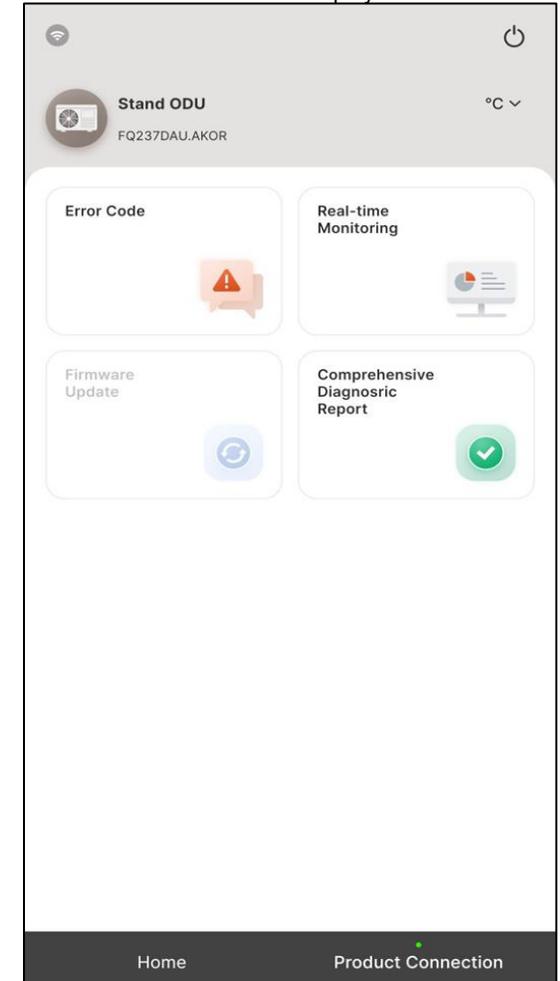
② Connect MV dongle to outdoor unit



③ Connect to the SSID of the Sims Dongle



④ When connection is completed, main screen is displayed.

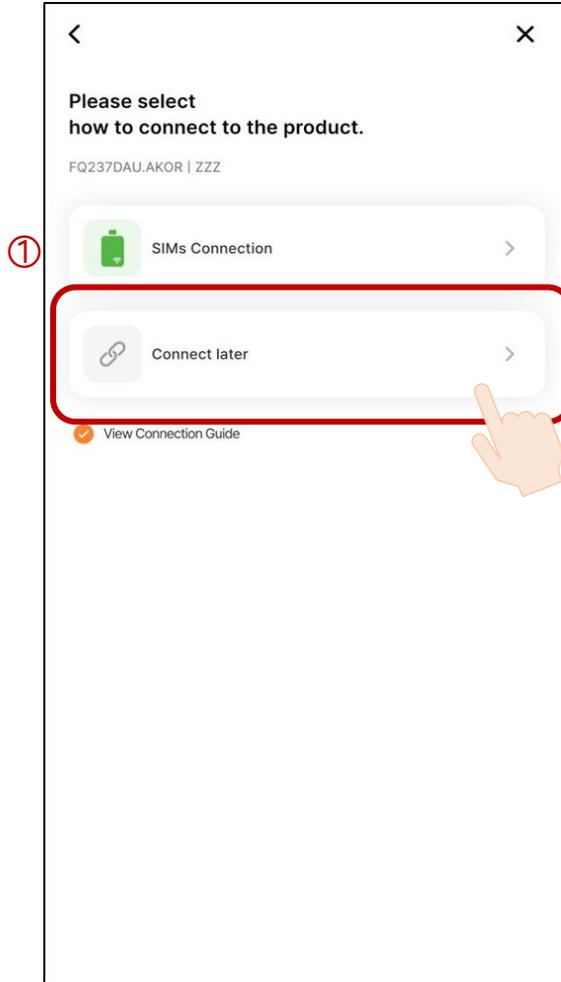


# 4. Product connection

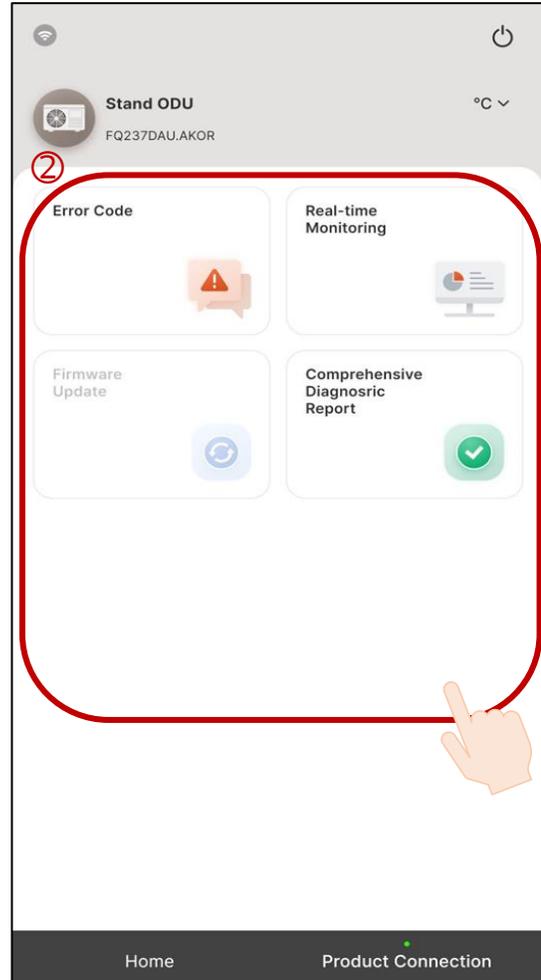
## 3) How to connect air conditioner products

### (2-1) Connecting your product via the SIMs dongle

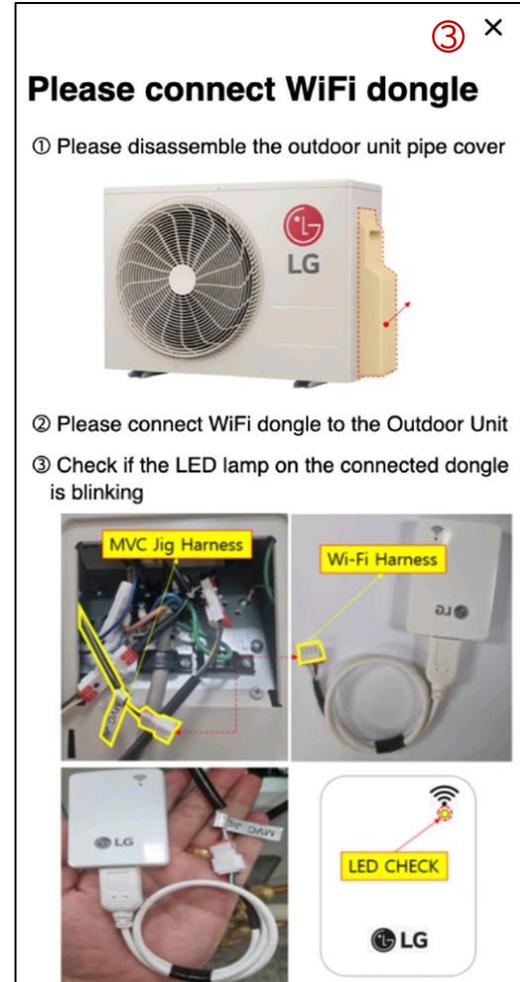
① Select Connect later



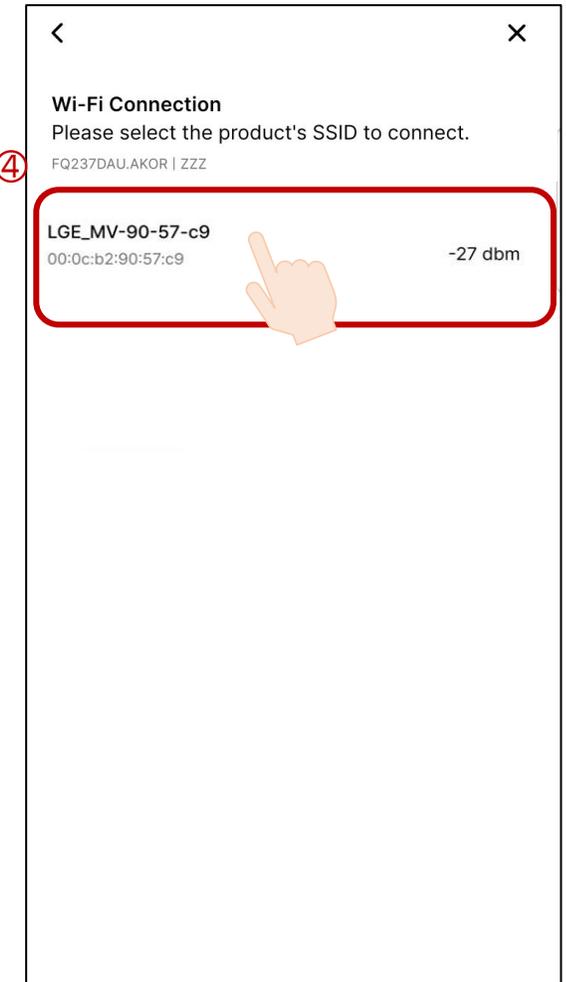
② Move to the main screen and select the desired function



③ Connect MV dongle to outdoor unit



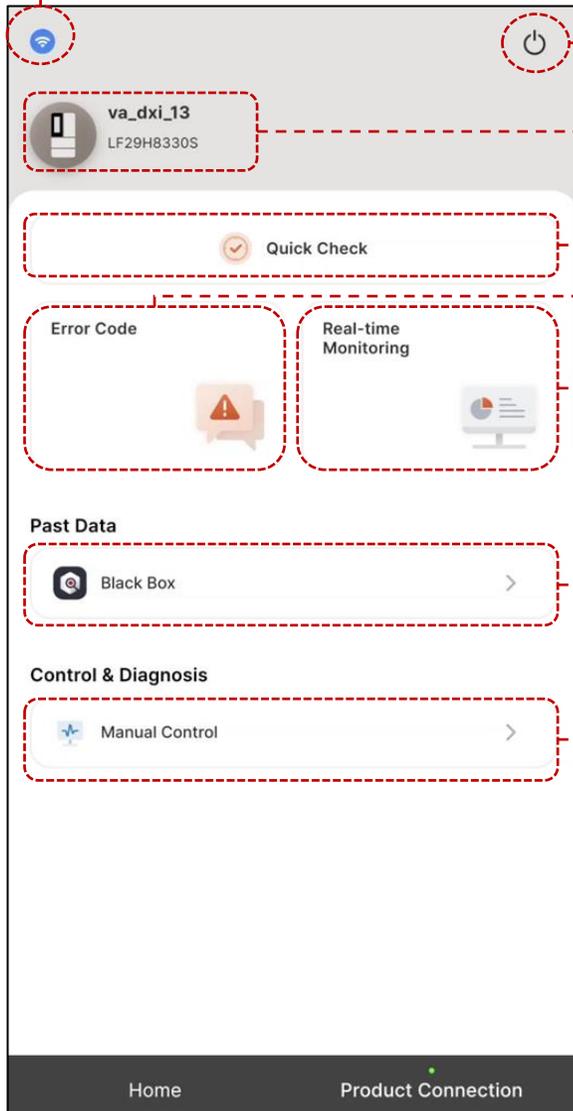
④ Connect to the SSID of the Sims Dongle



# Refrigerator

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (1) Main Screen



● Wi-Fi AP selection and connection / disconnection

● Disconnect product

● Product Type and Model name

● **Quick Check** : 1-day average product data provides key temperature information, usability defects, and error code information

● **Error Code** : Provides error code master for connected products

● **Real-time Monitoring** : Ability to monitor the operating status of components in real time

● **Black Box** : Provides product operation status data for 3 days in 5-minute increments

● **Manual Control**: Ability to control and diagnose desired parts through the app without disassembling the product

※ Supported features vary by model, and unsupported features are hidden as buttons.

## 5. Introduction to functions

### 1-1) Main functions when using refrigerator products (Model with full functionality available)

#### (2) Quick Check

**NEXT Refrigerator**  
M623GNN392

Quick Check ● Normal ● Needs Inspection

Item	Reference Value	Result	Signal
24h Passed	Operating Time 24h Passed	Not Exceeding	●
F Room Avg. Temp.	F Room notch within 5.0°C	-22.5°C	●
R Room Avg. Temp.	R Room notch within 5.0°C	4.0°C	●
F Defrost Temp.	-	-24.5°C	●
R Avg. Temp.	-	-	●
Ice Room Avg. Temp.	(Ice making) under -9.0°C (full ice) under -3.0°C	-	●
Pantry(Mid. Drawer) Avg. Temp.	-	-	●
Avg. Air Temp.	5.0°C ~ 43.0°C	25.0°C	●
F Door Open Count	under 6 times	1 Times	●
R Door Open Count	under 26 times	5 Times	●
F Door Open Time	under 2 minutes	0 Minute	●
R Door Open Time	under 6 minutes	0 Minute	●
Water Pressure Level	2~7LV	-	●
In door Ice Maker	-	-	●
Check Full Ice	-	-	●
Ice Making Amount per day	-	253 g	●
Ice Making Time	-	65533 Minute	●
Usage Information			
Error code			

● When a Red Signal (●) occurs, inspection guide is provided when selecting the relevant Red Signal.

● Whether it operates continuously for 48 hours(VA)

● 24-hour average temperature of each temperature sensor (freezer, refrigerator, ice room, defrost, pantry, outside temperature)

● Door usage history information for 24 hours (number of door openings, time)

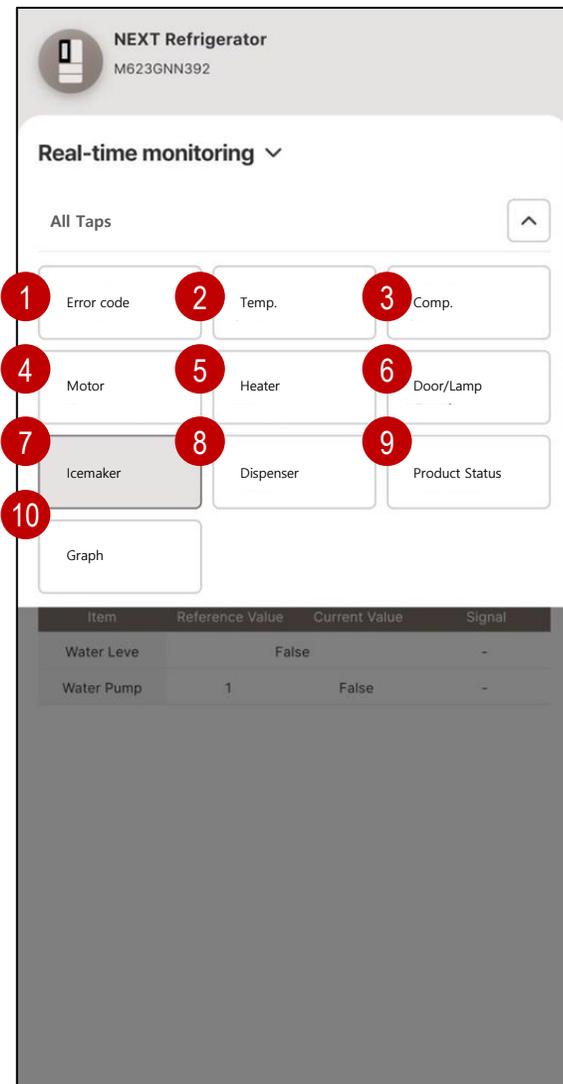
● Indoor ice maker and dispenser information (water pressure level, ice maker operation and full ice, ice making amount, extraction time)

● Whether product problems or error codes occur due to customer usability

## 5. Introduction to functions

### 1-1) Main functions when using refrigerator products (Model with full functionality available)

#### (3-1) Real-time monitoring



- 1 **Error Code** : Provides all error codes and comp trip error codes that occur in real time, and provides inspection/repair guides when selecting the corresponding error code
- 2 **Temp.** : Provides the reference value (control temperature) and current value (current temperature) of the temperature sensor and provides cycle control status. (Operation status, 3WAY V/V direction, damper status, load response, integration time, etc.)
- 3 **Comp** : Provides main data of the comp (operation status, mode, frequency, stroke, phase, Kgas, trip information, trip error, restart time, etc.) Provides additional data (PWM (input voltage), BETA, cooling power, power, current)
- 4 **Motor** : Provides data on motor operating status (Operation, RPM, Signal)
- 5 **Heater** : Provides operation status data of defrost heater and utility heater
- 6 **Door/Lamp**: Provides operation status data of doors and lamps and provides status information of door sensors (illuminance, proximity, knock-on)
- 7 **Icemaker** : Provides operating status of indoor ice, craft ice, nugget ice, and ice cube maker (ice-making temperature, full ice, ice-making stage, water tank installation status)
- 8 **Dispenser** : Provides operation status of dispenser lever, water valve, flow sensor, remaining times of water filter, and water pressure level.
- 9 **Product Status** : Provides input voltage, operation time, customer setting information, and version information
- 10 **Graph** : Provides graphs of main temperatures (freezer, refrigerator control temperature, current temperature, defrost sensor)

# 5. Introduction to functions

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (3-1) Real-time monitoring

[Error Code]

Item	Reference Value	Current Value	Signal
F Room Temp.	-23.5 °C	-23.5 °C	●
R Room Temp.	4.0 °C	4.5 °C	●
F Room Defrost Temp.	-	-26.7 °C	-
Craft Ice Making Temp.	10.0 °C	-24.1	-
Air Temp.	-	24.8 °C	●
Humidity(%)	-	51.0 %	-
Dew Point Temp.	-	25.3 °C	●

Item	Current Value	Item	Current Value
Operating Condition	R Room Operation	3WAY	A Open(F)
F Room	In Control	R Room	In Control
R Room Damper	OPEN	F Load Confrontation	0
R Load Confrontation	0	F General Accumulated Time	0 Minute
F Fluctuation Accumulated Time	2394 Minute	-	-

[Temp.]

Item	Current Value	Signal
Operating Condition	ON	-
Mode	SAVE	-
Target Frequency	51.0 Hz	-
Current Frequency	51.0 Hz	-
Target STROKE	9.8 mm	-
Current STROKE	9.8 mm	-
Phase	79.3 °	-
Kgas	4913	-
TRIP Info.	14. Variable Cooling Capacity Operation	●
TRIP Error	0	●
Restart Time after TRIP	0 Second	-

Item	Current Value	Signal
PWM	156.0 V	-
BETA	60	-
Comp. Power Level	60	-
Electric Power	46.1 W	-
Current	0.60 A	-

[Comp]

Item	Reference Value	Item	Signal
F Room Fan Motor	500RPM ~	1800	●
R Room Fan Motor	-	-	-
Machinery Room Fan Motor	500RPM ~	1660	●
Hygiene Fan Motor	OFF	-	-

[Motor]

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (3-1) Real-time monitoring

**NEXT Refrigerator**  
M623GNN392

Real-time monitoring ▾

Error Code Temp. Comp Motor **Heater** DOOR/LAMP ▾

**Defrost Heater**

Item	Current Value	Item	Current Value
F Defrost Heater	OFF	-	-

**Utility Heater**

Item	Current Value	Item	Current Value
Pillar Heater	ON	Utility Heater R	-
Utility Heater L	OFF	-	-

**Dispenser heater**

Item	Current Value	Item	Current Value
Craft Pipe Heater	ON	Craft Heater_Top	OFF
Craft Heater_Bottom	OFF	-	-

[Heater]

**NEXT Refrigerator**  
M623GNN392

Real-time monitoring ▾

Error Code Temp. Comp Motor Heater **DOOR/LAMP** ▾

**Door Status**

Item	Current Value	Item	Current Value
F (Left)	CLOSE	F (Right)	CLOSE
R (Left)	CLOSE	R (Right)	CLOSE

**Door Sensor**

Item	Current Value	Item	Current Value
Illumination Sensor	157	Knockon Sener	OFF
Proximity Sensor	0	-	-

**LAMP**

Item	Current Value	Item	Current Value
F (Left)	OFF	F (Right)	OFF
R Room	OFF	-	-

**Mood up**

Item	Current Value	Item	Current Value
Mood up	ON	-	-

[DOOR/LAMP]

**NEXT Refrigerator**  
M623GNN392

Real-time monitoring ▾

er DOOR/LAMP **Ice Maker** Dispenser Product Status ▾

**craft ice maker** ● Normal ● Needs Inspection ● Off

Item	Reference Value	Current Value	Signal
Ice Making Temp.	10.0	-24.2	-
Status	Ice Making	-	-
Making Step	Harvesting	-	-
Craft Heater_Top	ON	-	-
Craft Heater_Bottom	ON	-	-

**Water Tank Information** ● Normal ● Needs Inspection ● Off

Item	Reference Value	Current Value	Signal
Water Leve	False	-	-
Water Pump	1	False	-

[Ice Maker]

**NEXT Refrigerator**  
M623GNN392

Real-time monitoring ▾

er DOOR/LAMP Ice Maker **Dispenser** Product Status ▾

**Dispenser** ● Normal ● Needs Inspection ● Off

Item	Current Value	Signal
Craft Ice Valve	CLOSE	-

[Dispenser]

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (3-1) Real-time monitoring



**NEXT Refrigerator**  
M623GNN392

**Real-time monitoring** ▾

er DOOR/LAMP Ice Maker Dispenser **Product Status** ▾

**Basic Information** ● Normal ● Needs Inspection ● Off

Item	Reference Value	Current Value	Signal
Input Voltage		198	-
Running Time	18Hour 40Minute 10Second		-

**Setting Information**

Item	Current Value	Item	Current Value
F Room Temp.	-23.0 °C	R Room Temp.	3.0 °C
F Temp. Compensation	0.0 °C	R Temp. Compensation	0.0 °C
Strong Freeze Mode	OFF	craft ice maker	ON(6 ICE)
Mood up	ON	-	-

**Version**

Item	Part Number	Checksum	Signal
MAIN	SAA43563601	0xEE13	-
SUB	SAA00000000	0x0000	-
COMP	SAA43622501	0x4960	-
DISPLAY	SAA43710000	0xAB84	-
WI-FI	-	-	-

[Product Status]



**VA Refrigerator**  
LF29H8330S

**Real-time monitoring** ▾

DOOR/LAMP Ice Maker Dispenser Product Status **Graph** ▾

2024.07.09 15:26:56



● F Room ontrol Temp. -23.5 °C  
● F Room Temp. -22.4 °C  
● R Room Control Temp. 4.0 °C  
● R Room Temp. 2.2 °C  
● F Room Defrost Temp. -25.8 °C  
● R Room Defrost Temp. 0.0 °C



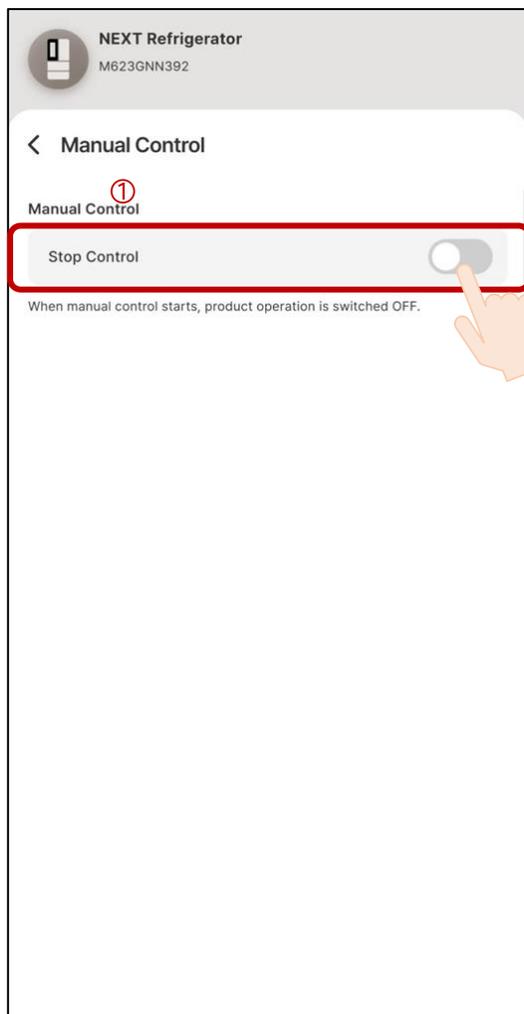
[Graph]

## 5. Introduction to functions

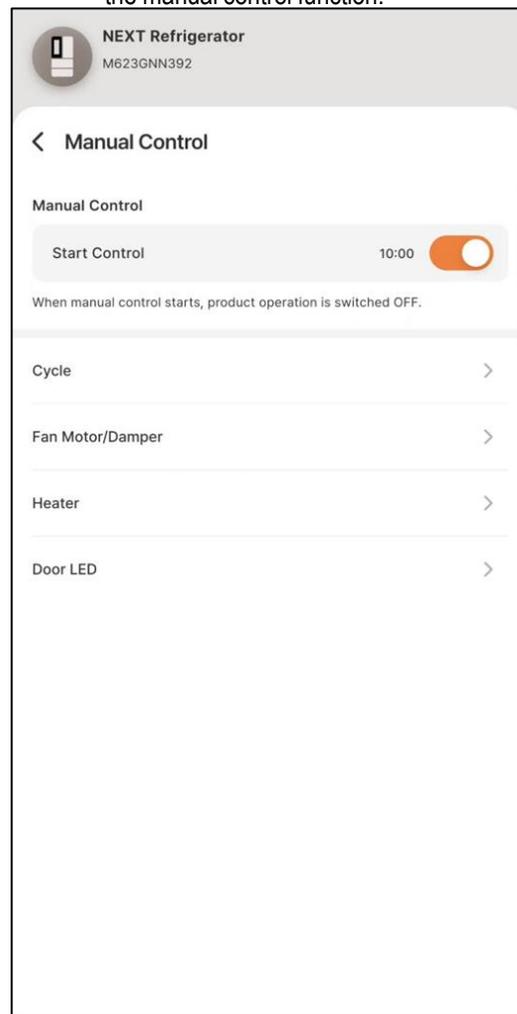
### 1-1) Main functions when using refrigerator products (Model with full functionality available)

#### (4) Manual Control –Activate manual control mode

① Activate manual control mode



② The product turns off when entering the manual control function.

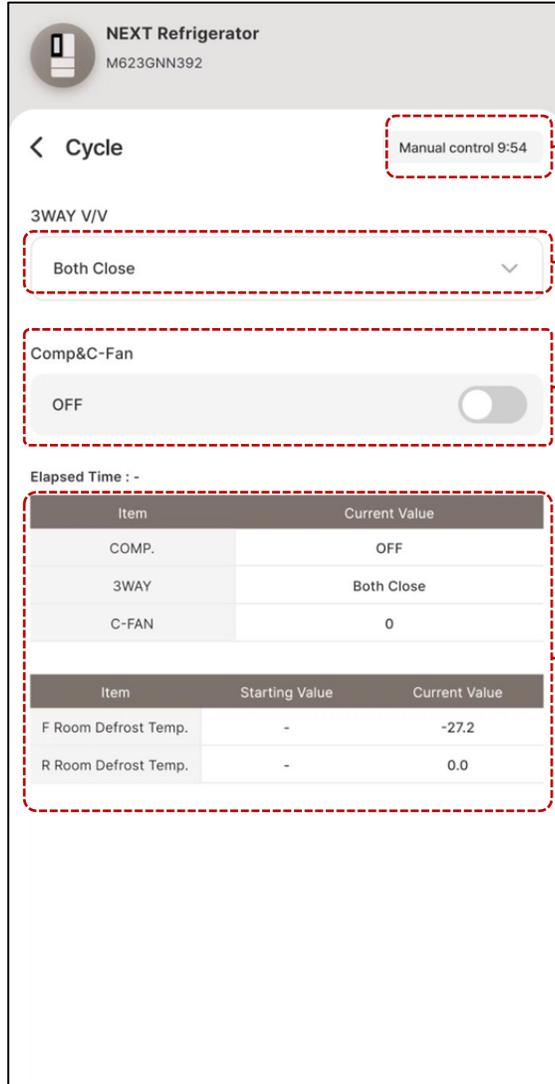


→ When entering manual control mode, all parts of the product are turned off and ready for manual control.

Controllable time is limited to 10 minutes and is reset each time the part is controlled.

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (4) Manual Control – Cycle (Sealed System)



Remaining time for manual control function  
 (Resets to 10 minutes each time a part is controlled)

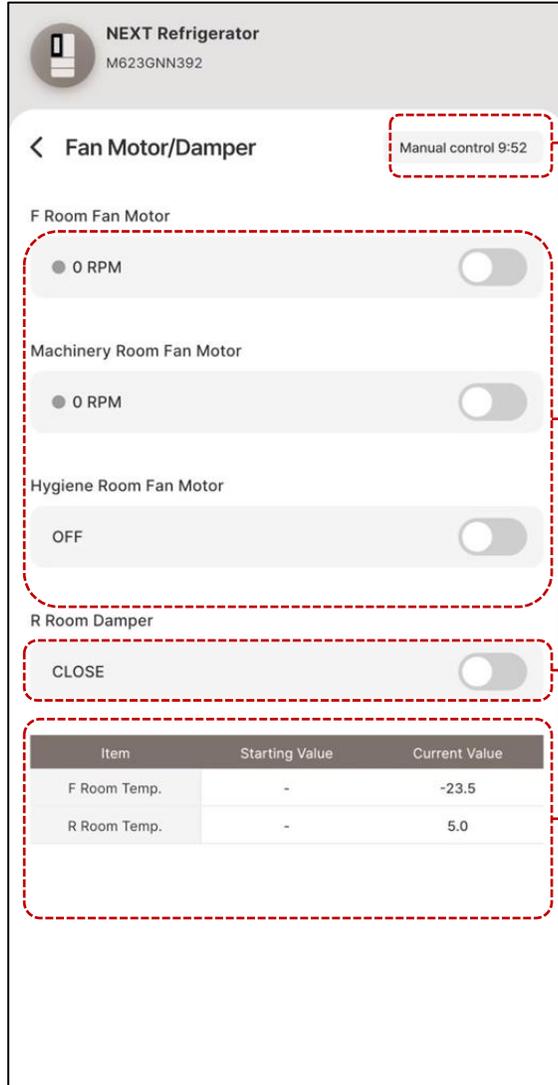
3WAY valve direction manual control  
 (It can be controlled freely when the compressor is not running, and can be controlled after 1 minute when the compressor is turned on.)

Comp on / off control  
 (The compressor and machine room fan motor operate simultaneously, and when the compressor is turned off, the individual compressor control function is limited for 7 minutes.)

Real-time operation status monitoring  
 (The starting value of each defrost sensor is fixed when the compressor starts)

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (4) Manual Control – Fan Motor / Damper



Remaining time for manual control function  
(Resets to 10 minutes each time a part is controlled)

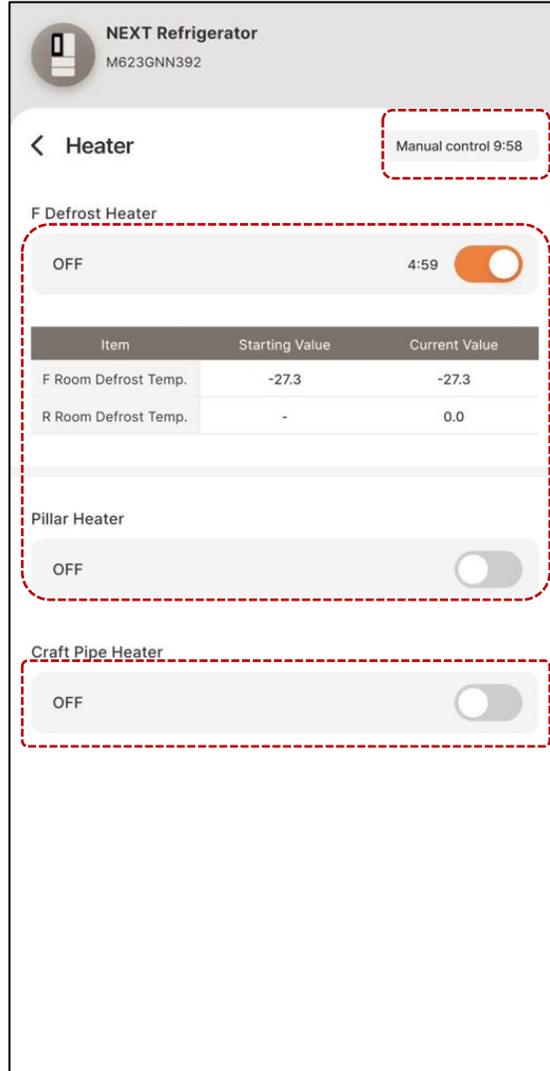
Fan motor on / off control  
(When controlling, the current RPM and normal status signal are displayed)

Damper open / close control

Real-time operation status monitoring  
(The starting value of each temperature sensor is fixed when controlling the fan motor)

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (4) Manual Control - Heater



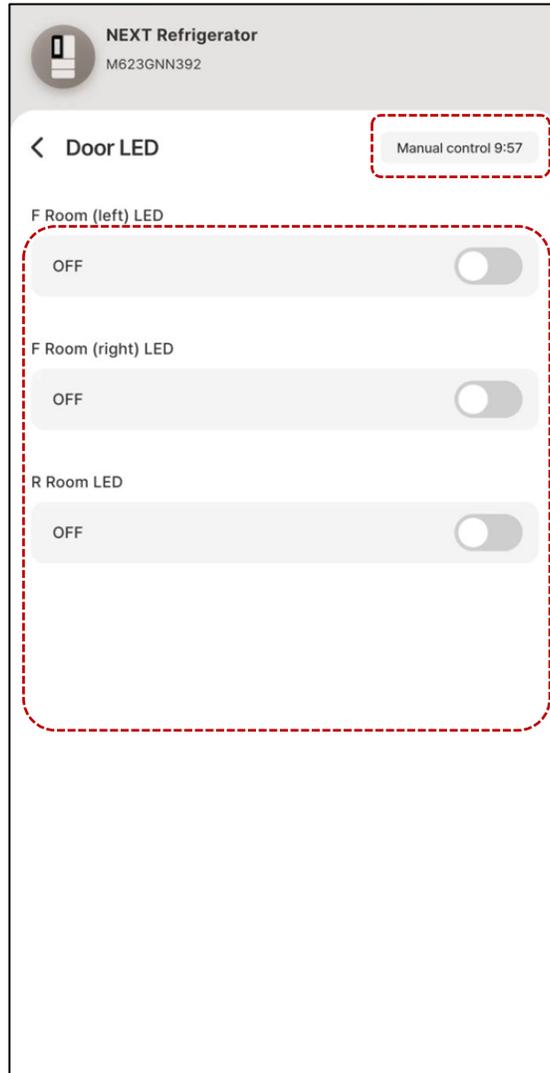
Remaining time for manual control function  
(Resets to 10 minutes each time a part is controlled)

Defrost heater on/off control  
(The starting value of the defrost temperature is fixed when controlling)

Utility heater on/off control

## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (4) Manual Control - LED



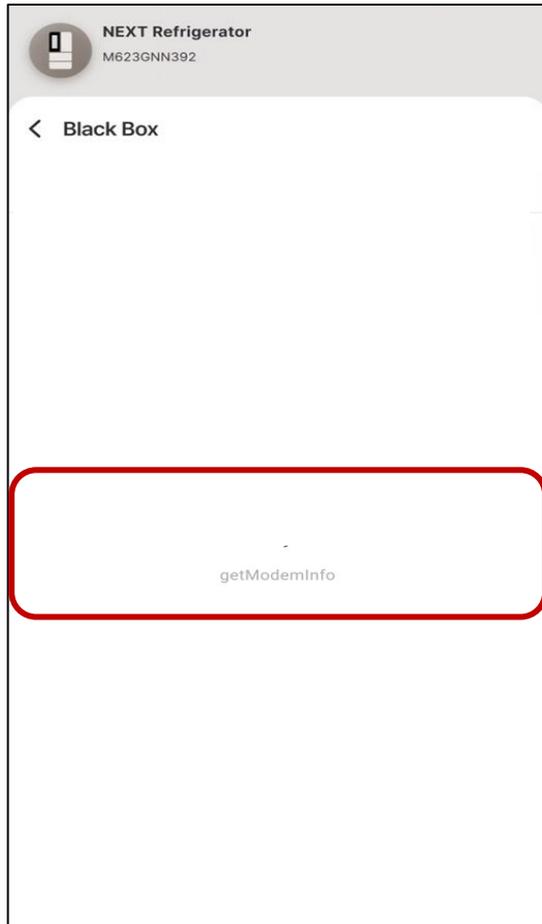
Remaining time for manual control function  
(Resets to 10 minutes each time a part is controlled)

LED parts on / off control

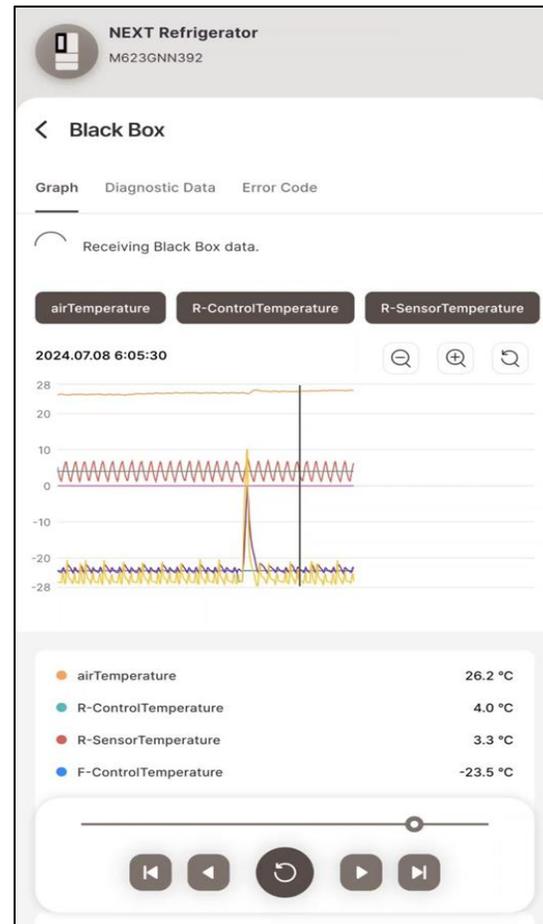
## 1-1) Main functions when using refrigerator products (Model with full functionality available)

### (5) Black box connection / data receive

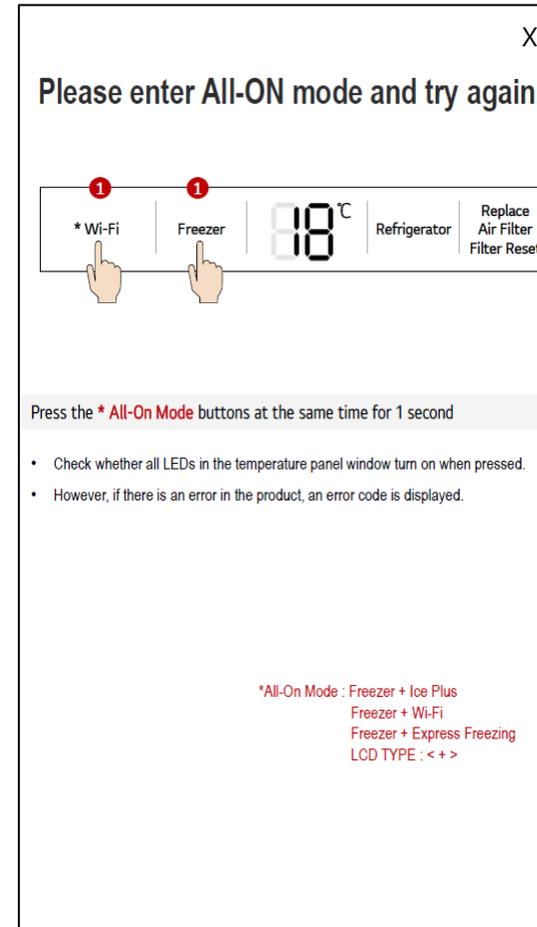
① When entering the black box function, an attempt is made to enter black box mode.



② Data is displayed and received in real time from the moment of successful entry into the black box function (total 144 data)



If entry into black box mode fails, enter All-ON mode on the product's display and retry.



③ Upon completion of receiving all data, diagnostic data and error code are output.

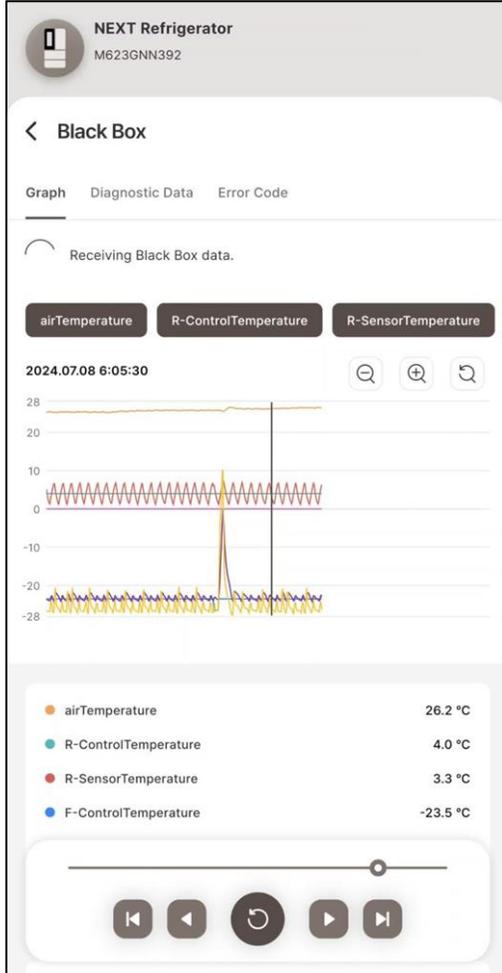
Item	3days ago	2days ago	1days ago
R-ControlTemperature	4.0 °C	4.0 °C	4.0 °C
R-SensorTemperature	4.0 °C	3.9 °C	4.2 °C
F-ControlTemperature	-23.6 °C	-23.5 °C	-23.6 °C
F-SensorTemperature	-22.6 °C	-23.2 °C	-21.8 °C
R-doorOpenTime	0.0 Minute	0.0 Minute	1.4 Minute
F-doorOpenTime	0.0 Minute	0.0 Minute	0.0 Minute
DID-doorOpenTime	0.0 Minute	0.0 Minute	0.0 Minute

## 5. Introduction to functions

### 1-1) Main functions when using refrigerator products (Model with full functionality available)

#### (5) Black box structure

① Provides graphs and operating status of major temperatures

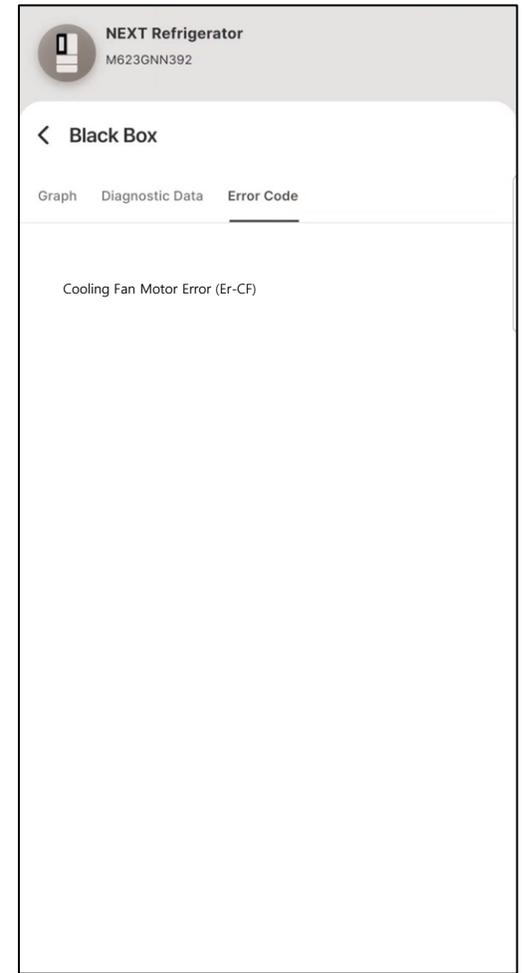
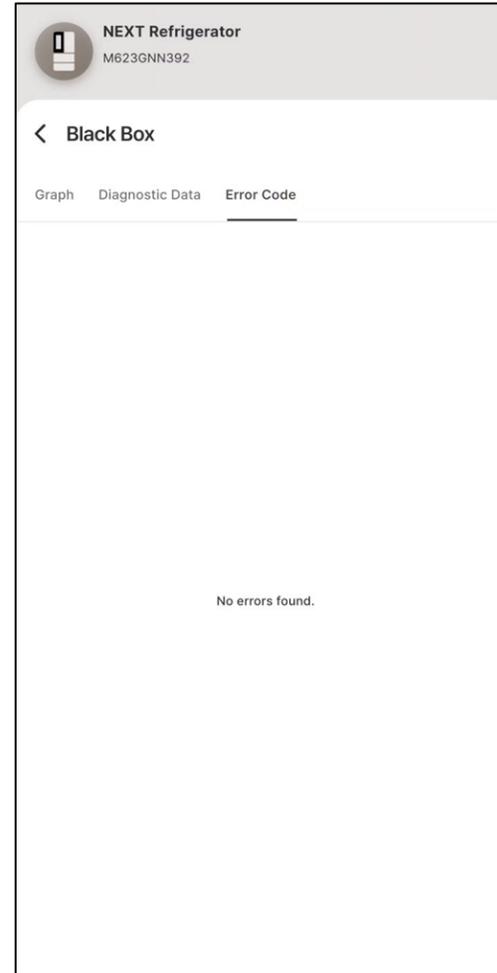


② Provides 3 days worth of daily average data

Graph Diagnostic Data Error Code

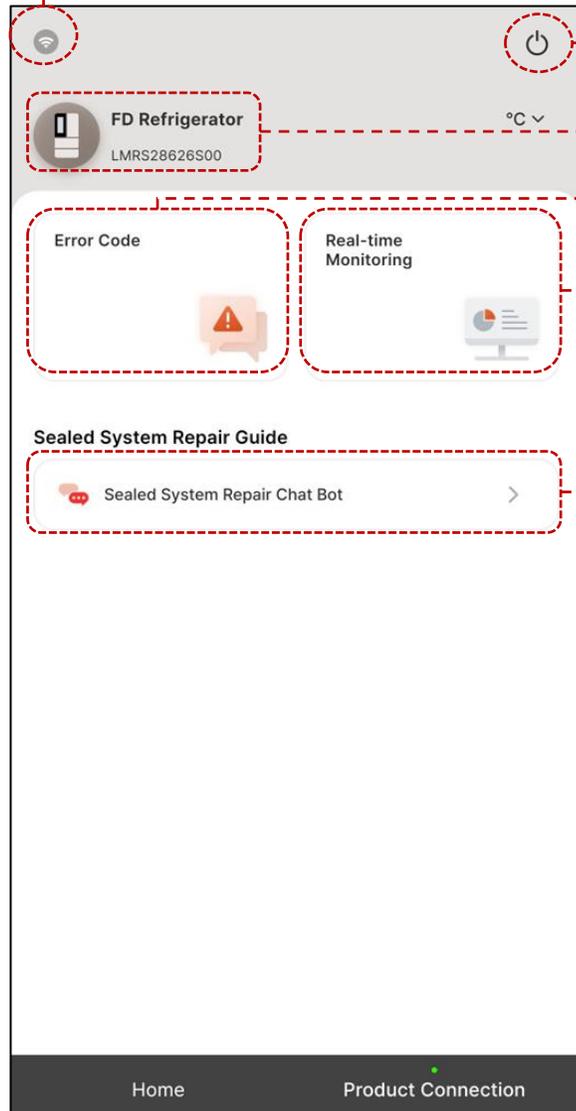
Item	3days ago	2days ago	1days ago
R-ControlTemperature	4.0 °C	4.0 °C	4.0 °C
R-SensorTemperature	4.0 °C	3.9 °C	4.2 °C
F-ControlTemperature	-23.6 °C	-23.5 °C	-23.6 °C
F-SensorTemperature	-22.6 °C	-23.2 °C	-21.8 °C
R-doorOpenTime	0.0 Minute	0.0 Minute	1.4 Minute
F-doorOpenTime	0.0 Minute	0.0 Minute	0.0 Minute
DID-doorOpenTime	0.0 Minute	0.0 Minute	0.0 Minute

③ Provides error code history for 3 days



## 1-2) Main functions when using refrigerator products (Model with full functionality available)

### (1) Main Screen



● Wi-Fi AP selection and connection / disconnection

● Disconnect product

● Product Type and Model name

● Error Code : Provides error code master for connected products

● Real-time Monitoring : Ability to monitor the operating status of components in real time

● Sealed System Repair Chat Bot: Provides an inspection method so that No Cool failure symptoms can be selected and inspected according to the inspection process.

## 5. Introduction to functions

### 1-2) Main functions when using refrigerator products (Model with full functionality available)

#### (1) Real-time monitoring

FD Refrigerator  
LRFLS3206S00 °C ▾

Real-time monitoring ▾

All Tap Menu ^

1 temperature/cycle 2 fan motor 3 door

4 heater 5 ice 6 Graph

FD-Sensor	-19.6 °C	-
RD-Sensor	0.9 °C	-
I-Sensor	-9.2 °C	-
Pantry-Sensor	0	-
RT-Sensor	5.0°C - 43.0°C	25.1 °C ●
Humidity	63.7 %	-
Dew Point Temperature	Air temperature ↓	17.73 ●

cycle

Item	Reference Value	Current Value	Signal
Comp		ON	-
3Way Valve		16	-
R-Damper		CLOSE	-
F-Accumulation-Time		0	-
F-Fluctuation-Accumulation-Time		1819	-

- 1 **Temp.** : Provides the reference value (control temperature) and current value (current temperature) of the temperature sensor and provides cycle control status. (Operation status, 3WAY V/V direction, damper status, Accumulation-Time, etc.)
- 2 **Fan Motor** : Provides data on motor operating status (Operation, RPM, Signal)
- 3 **Door** : Provides operation status data of doors
- 4 **Heater** : Provides operation status data of defrost heater and utility heater
- 5 **Icemaker** : Provides operating status of indoor ice maker (ice-making temperature, I-sensor temperature)
- 6 **Graph** : Provides graphs of main temperatures (freezer, refrigerator control temperature, current temperature, defrost sensor)

## 1-2) Main functions when using refrigerator products (Model with full functionality available)

### (1) Real-time monitoring

FD Refrigerator LRFLS3206S00 °C ▾

Real-time monitoring ▾

temperature/cycle fan motor door heater ice Graph ▾

**temperature**

Item	Reference Value	Current Value	Signal
F-Sensor	-18.5 °C	-17 °C	●
R-Sensor	7 °C	7.3 °C	●
FD-Sensor	-19.5 °C	-	-
RD-Sensor	0.9 °C	-	-
I-Sensor	-9.3 °C	-	-
Pantry-Sensor	0	-	-
RT-Sensor	5.0°C ~ 43.0°C	25.1 °C	●
Humidity	63.3 %	-	-
Dew Point Temperature	Air temperature ↓	17.63	●

**cycle**

Item	Reference Value	Current Value	Signal
Comp	ON	-	-
3Way Valve	16	-	-
R-Damper	CLOSE	-	-
F-Accumulation-Time	0	-	-
F-Fluctuation-Accumulation-Time	1819	-	-

[Temperature/Cycle]

FD Refrigerator LRFLS3206S00 °C ▾

Real-time monitoring ▾

temperature/cycle fan motor door heater ice Graph ▾

**fan motor**

Item	Reference Value	Current Value	Signal
F-Fan-RPM	500 rpm ~	0 RPM	●
F-Fan	OFF	-	-
R-Fan-RPM	500 rpm ~	0 RPM	●
R-Fan	OFF	-	-
I-Fan-RPM	500 rpm ~	766 RPM	●
I-Fan	ON	-	-
C-Fan-RPM	500 rpm ~	830 RPM	●
C-Fan	ON	-	-
Hygiene-Box-Fan	ON	-	-

[Fan Motor]

FD Refrigerator LRFLS3206S00 °C ▾

Real-time monitoring ▾

temperature/cycle fan motor door heater ice Graph ▾

**door status**

Item	Reference Value	Current Value	Signal
F Door	0	-	-
R Door	0	-	-
Knock-On-Status	0	-	-

**door information**

Item	Reference Value	Current Value	Signal
F-Door-Open-Count	0	●	-
R-Door-Open-Count	0	●	-
F-Door-Open-Time	0 seconds	●	-
R-Door-Open-Time	0 seconds	●	-

[Door]

FD Refrigerator LRFLS3206S00 °C ▾

Real-time monitoring ▾

temperature/cycle fan motor door heater ice Graph ▾

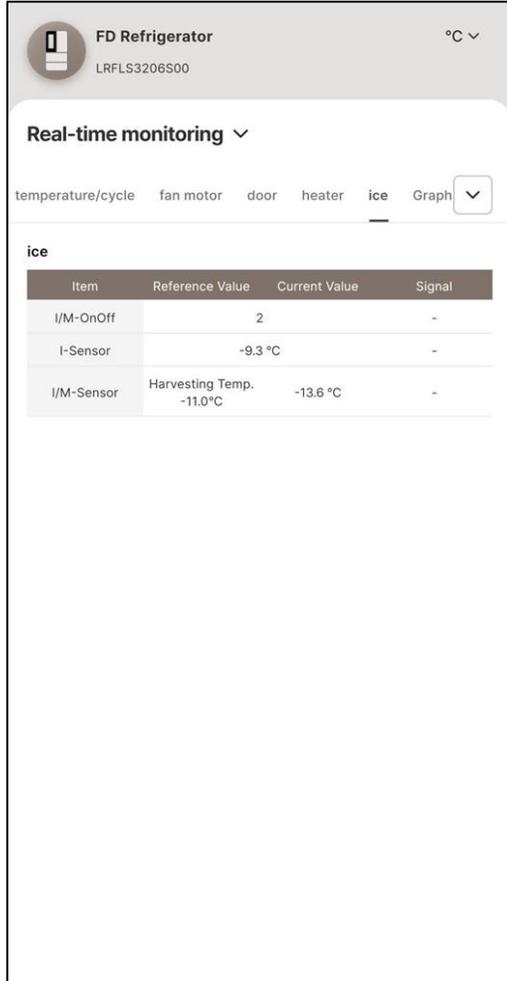
**heater**

Item	Reference Value	Current Value	Signal
F-Defrost-Heater	OFF	-	-
NA	-	-	-
NA	-	-	-
NA	-	-	-
NA	-	-	-
NA	-	-	-
NA	-	-	-
R-Damper-HTR	OFF	-	-
NA	-	-	-
F-Pipe-HTR	ON	-	-

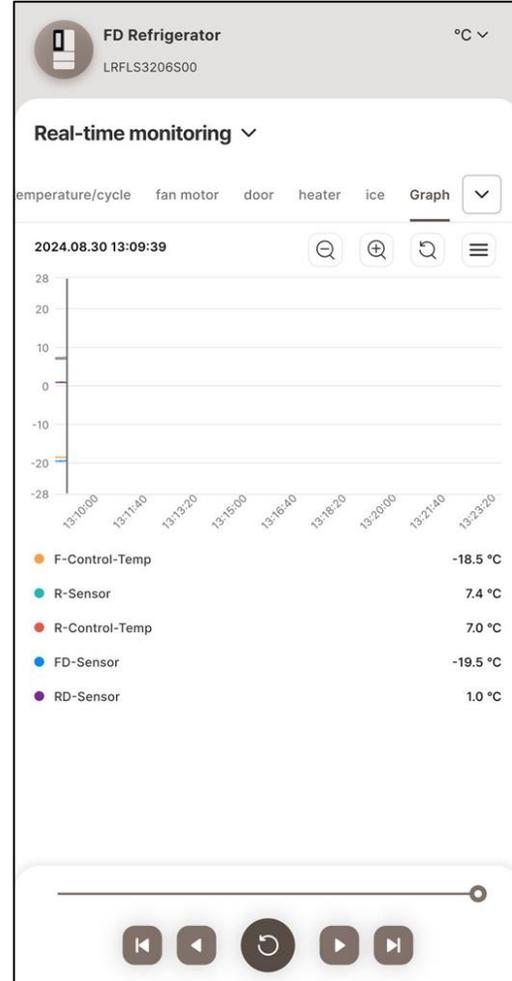
[Heater]

## 1-2) Main functions when using refrigerator products (Model with full functionality available)

### (1) Real-time monitoring



[Ice]

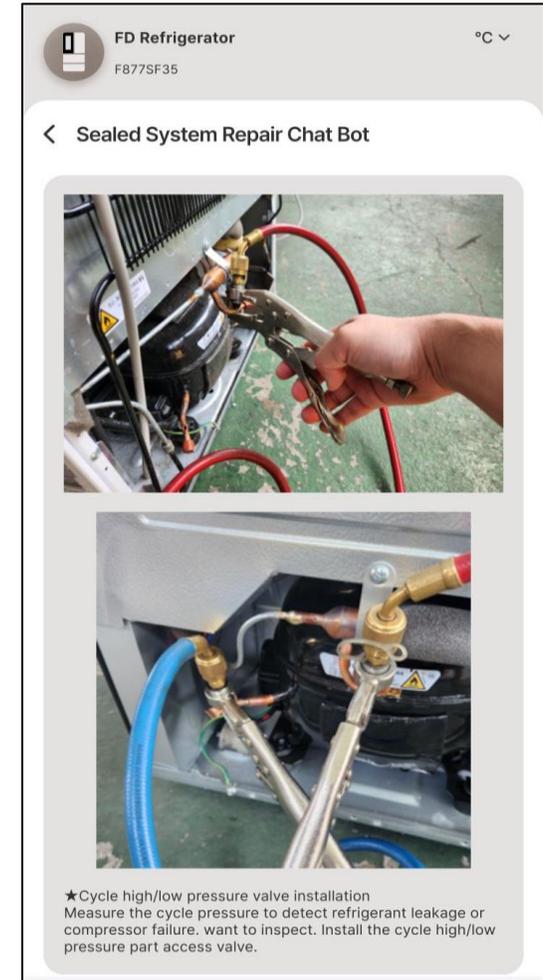
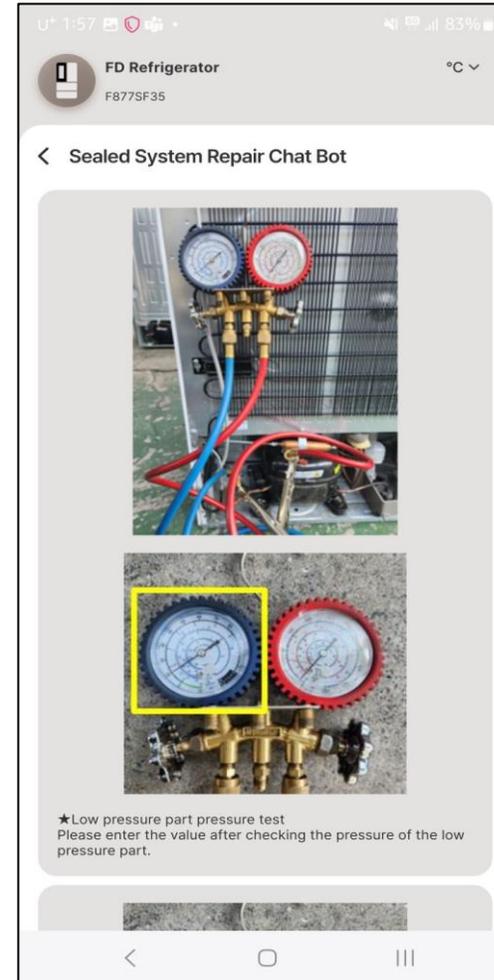
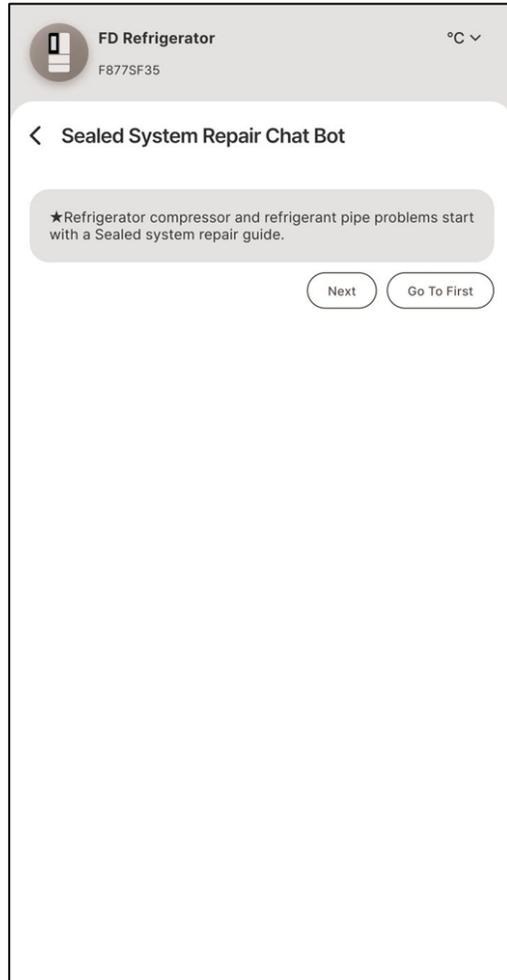


[Graph]

## 1-2) Main functions when using refrigerator products (Model with full functionality available)

### (2) Sealed System Repair Chat Bot

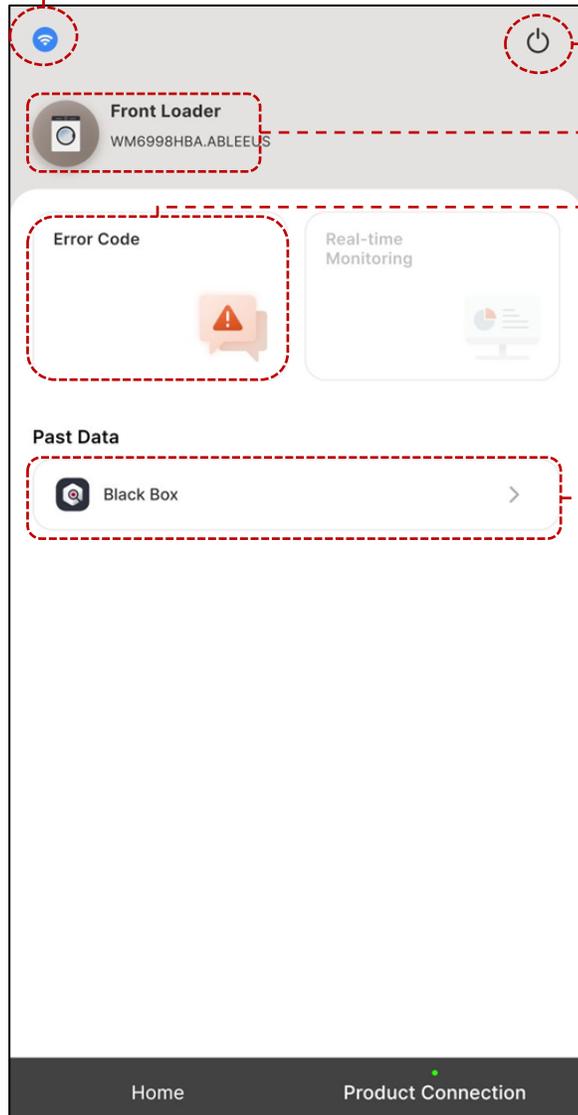
→ Provides an inspection method so that No Cool failure symptoms can be selected and inspected according to the inspection process.



# Washer & Dryer

## 2) Functions of using Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

### (1) Main Screen



● Wi-Fi AP selection and connection / disconnection

● Disconnect product

● Product Type and Model name

● Error Code : Provides error code master for connected products

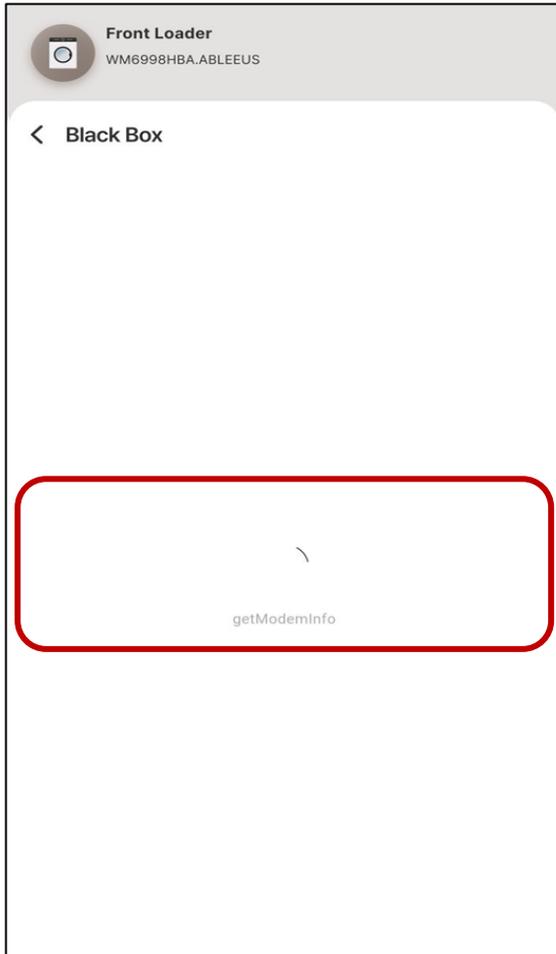
● Black Box : Provides 5-time operation information (Washer, Dryer, WashTower, WashCombo)

## 5. Introduction to functions

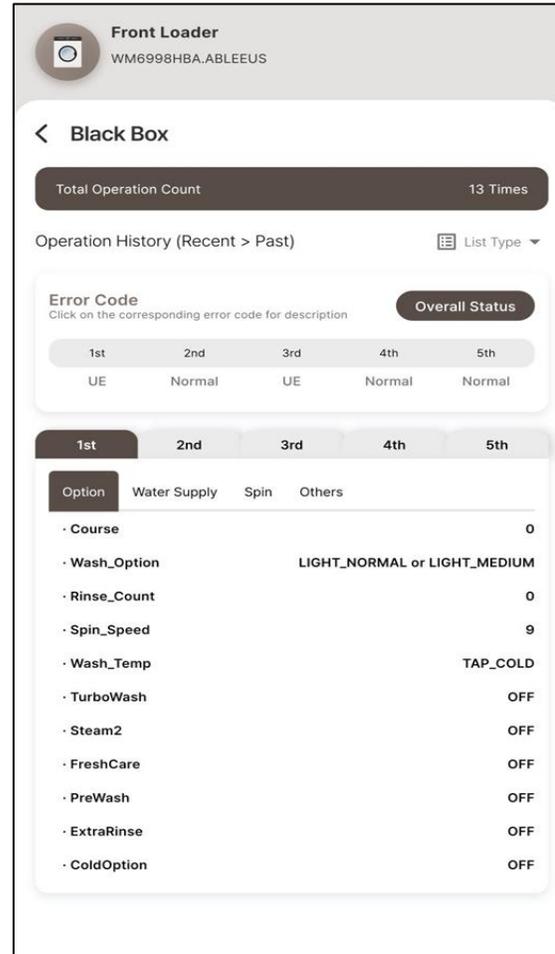
### 2) Functions of using Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

#### (1) Black box connection

① When entering the black box function, an attempt is made to enter black box mode.



② Upon success, black box data is received.



③ Socket Error occurs in case of failure  
(Requires retry by reconnecting after resetting the power cord)



## 2) Functions of using Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

### (2) Black box structure (Washer, WashTower, WashCombo)

① Provides option setting information

Front Loader  
WM6998HBA.ABLEEUS

< Black Box

Total Operation Count 13 Times

Operation History (Recent > Past) List Type ▾

Error Code Overall Status  
Click on the corresponding error code for description

1st	2nd	3rd	4th	5th
UE	Normal	UE	Normal	Normal

1st	2nd	3rd	4th	5th
Option	Water Supply	Spin	Others	
- Course				0
- Wash_Option		LIGHT_NORMAL or LIGHT_MEDIUM		
- Rinse_Count				0
- Spin_Speed				9
- Wash_Temp			TAP_COLD	
- TurboWash				OFF
- Steam2				OFF
- FreshCare				OFF
- PreWash				OFF
- ExtraRinse				OFF
- ColdOption				OFF

② Provide water supply information

Front Loader  
WM6998HBA.ABLEEUS

< Black Box

Total Operation Count 13 Times

Operation History (Recent > Past) List Type ▾

Error Code Overall Status  
Click on the corresponding error code for description

1st	2nd	3rd	4th	5th
UE	Normal	UE	Normal	Normal

1st	2nd	3rd	4th	5th
Option	Water Supply	Spin	Others	
- Load_Size_Wash (Level)				0
- Start_WaterSupply_Value (frequency.)				NA
- Target_WaterSupply_Value				NA
- End_WaterSupply_Value				NA
- Last_WaterSupply_Time (Minute)				44

③ Provides dehydration information

Front Loader  
WM6998HBA.ABLEEUS

< Black Box

Total Operation Count 13 Times

Operation History (Recent > Past) List Type ▾

Error Code Overall Status  
Click on the corresponding error code for description

1st	2nd	3rd	4th	5th
UE	Normal	UE	Normal	Normal

1st	2nd	3rd	4th	5th
Option	Water Supply	Spin	Others	
- Load_Size_Spin (Level)				0
- Target_rpm (RPM)				0
- Max_rpm (RPM)				0
- UB_Try_Counter_Spin (Times)				0
- Last_Drain_Time (Minute)				0
- Bubble_Counter (Times)				0

④ Provide other information

Front Loader  
WM6998HBA.ABLEEUS

< Black Box

Total Operation Count 13 Times

Operation History (Recent > Past) List Type ▾

Error Code Overall Status  
Click on the corresponding error code for description

1st	2nd	3rd	4th	5th
UE	Normal	UE	Normal	Normal

1st	2nd	3rd	4th	5th
Option	Water Supply	Spin	Others	
- PowerOff_Info	Power supply was interrupted during operation. (Power Cord unplugged, Power black out)			
- Operation_State				Refresh State
- Child_Lock				OFF
- TubClean_Count (Times)				1
- End_Water_Temp (°C)				0
- LE_Error_Info				Normal

## 2) Functions of using Living Division products (Top Loader, Front Loader Washer, Dryer, WashTower, WashCombo)

### (2) Black box structure (Dryer)

① Provides option setting information

**Wash Tower**  
RH10W8AVK.ABWEEUS

**Black Box**

**Error Code**  
Click on the corresponding error code for description

1st 2nd 3rd 4th 5th

Overall Status

1st	2nd	3rd	4th	5th
NO	NO	dE1	NO	NO

1st 2nd 3rd 4th 5th

**Option** Dryness

- Course Normal
- Eco Hybrid Normal
- Dry\_Level Normal
- Anti Crease Off
- Steam\_Skip\_F Normal

**Temperature by Time ?**

Time Point	Temperature (°C)
Duct Initial	23.0
Duct 1 Minutes	27.0
Duct 2 Minutes	31.0
Duct 3 Minutes	53.0
Duct 4 Minutes	48.0

② Provide drying information

**Wash Tower**  
RH10W8AVK.ABWEEUS

**Black Box**

**Error Code**  
Click on the corresponding error code for description

1st 2nd 3rd 4th 5th

Overall Status

1st	2nd	3rd	4th	5th
NO	NO	dE1	NO	NO

1st 2nd 3rd 4th 5th

**Option** Dryness

- Dryness\_Not\_Complete\_F Complete
- Total\_Drying\_Time (Minute) 60
- Power\_Off\_Info Power supply was interrupted during operation. (Power Cord unplugged, Power black out)
- Holding\_Count (Times) 0
- Total\_Cooling\_Time (Minute) 4

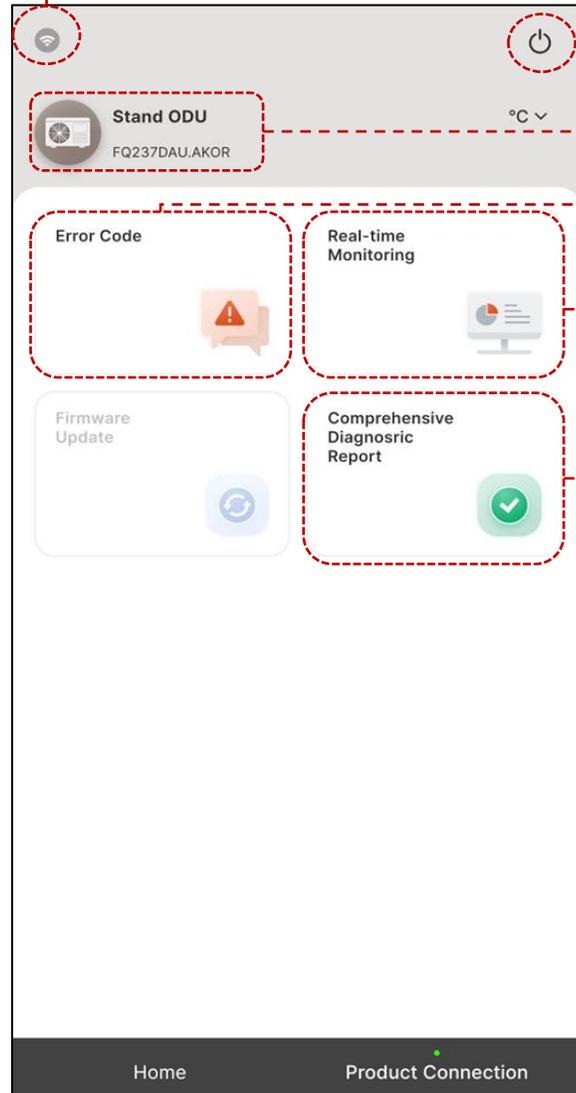
**Temperature by Time ?**

Time Point	Temperature (°C)
Duct Initial	23.0
Duct 1 Minutes	27.0
Duct 2 Minutes	31.0
Duct 3 Minutes	53.0
Duct 4 Minutes	48.0

# Air Conditioner

## 3) Functions of using Air Solution Division products (Stand, Portable, Wall-mount)

### (1) Main Screen



● Wi-Fi AP selection and connection / disconnection

● Disconnect product

● Product Type and Model name

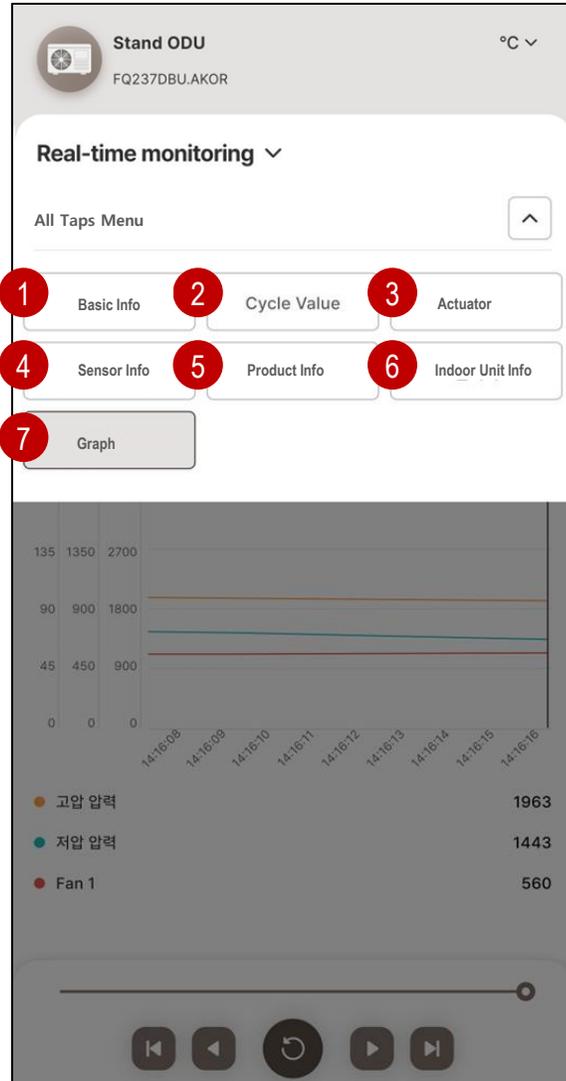
● Error Code : Provides error code master for connected products

● Real-time Monitoring : Ability to monitor the operating status of components in real time

● Comprehensive Diagnostic Report: Diagnosis function for electrical components and cycles using test run mode

## 3) Functions of using Air Solution Division products (Stand, Portable, Wall-mount)

### (2) Real-time monitoring



- 1 **Basic Info** : Provides refrigerant pressure and compression ratio, set temperature difference, compressor reference, and discharge temperature status
- 2 **Cycle Valve** : Provides operating status of major parts
- 3 **Actuator** : Provides compressor Hz, outdoor unit FAN Motor RPM, and EEV opening value
- 4 **Sensor Info**: Provides temperature status of temperature sensor mounted on outdoor unit
- 5 **Product Info** : Provides current, voltage, frequency and limit operation status
- 6 **Indoor Unit Info** : Providing indoor unit operation status information and temperature status information
- 7 **Graph** : Pressure, Fan Motor RPM, EEV, discharge temperature, and suction temperature are displayed in graphs.

## 3) Functions of using Air Solution Division products (Stand, Portable, Wall-mount)

### (2) Real-time monitoring

Stand ODU FQ237DBU.AKOR

Real-time monitoring

Basic Info | Cycle Valve | Actuators | Sensor Info | Electric Ir

Operate Mode: Stop Error -  
 Limited None

**Product Info**

Item	Current
EEPROM C/S	test

**Basic Info** ● Normal ● Needs Inspection

Item	Reference	Current	Signal
High Press	3900 kPaG	-	●
Low Press	-	-	-
Press Ratio	1	-	-
Temp. Diff.	-	-	-
Comp. Basic step	0 Hz	0 Hz	-
INV1 Dis. Temp.	0 °C	37 °C	●

[Basic Info]

Stand ODU FQ237DBU.AKOR

Real-time monitoring

Basic Info | Cycle Valve | Actuators | Sensor Info | Electric Ir

Operate Mode: Stop Error -  
 Limited None

**Cycle Valve**

Item	Current	Item	Current
PC CTRL	OFF	Cycle Stable	-
Sump heater	OFF	Cooling Fan	-
Oil Divider	-	Power relay	ON
PFC	PFC	PSC/PFC control	OFF
COP	OFF	Defrost	OFF

**Valve**

Item	Current	Item	Current
4Way	OFF	HOT GAS	-
Oil supply	OFF	Oil return	OFF

**Fan motor**

Item	Current	Item	Current
Fan2 H	OFF	Fan1 L	-
Fan1 H	OFF	Fan2 L	-

[Cycle Valve]

Stand ODU FQ237DBU.AKOR

Real-time monitoring

Basic Info | Cycle Valve | Actuators | Sensor Info | Electric Ir

Operate Mode: Stop Error -  
 Limited None

**Actuators**

Item	Reference	Current
INV 1	0 Hz	0 Hz
Fan 1	0 RPM	0 RPM
Fan 2	0 RPM	0 RPM
Main EEV	460 pulse	-
Sub EEV	-	-
VI EEV 1	-	-

[Actuators]

Stand ODU FQ237DBU.AKOR

Real-time monitoring

Basic Info | Cycle Valve | Actuators | Sensor Info | Electric Ir

Operate Mode: Stop Error -  
 Limited None

**Sensor Info** ● Normal ● Needs Inspection

Item	Reference	Current	Signal
Air temp.	50 °C	30.5 °C	●
Suction Temp.	-	-	-
Condense Temp.	-	-	-
Evaporate Temp.	-	-	-
INV1 Dis. Temp.	0 °C	37 °C	●
HEX Temp.	61 °C	36.1 °C	●
HEX Exit Temp.	-	27.8 °C	-
Heatsink	-	37 °C	-
INV Dis. Ratio	-	0.9	-
IHEX In	-	-	-
IHEX Out	-	-	-

[Sesor Info]

## 3) Functions of using Air Solution Division products (Stand, Portable, Wall-mount)

### (2) Real-time monitoring

Stand ODU  
FQ237DBU.AKOR

Real-time monitoring

Operate Mode: Stop Error: -  
Limited: None

**Electric Info**

Item	Current
INV1 Input CT	0 A
INV1 Input VT	228 V
INV1 Power Freq.	60 Hz
Input power	0 W
INV1 Target DC	350 V
Ref. current	0 A
Q-axis ref. current	0 A
Q-axis	4 A
D-axis ref. current	0 A
D-axis	0.4 A
Limited	None

**Limits & System Info**

Item	Signal	Item	Signal
Comp. Over-load	OFF	Comp. Over-current	OFF
Heatsink Limit	OFF	INV1 Preheat	OFF

[Product Info]

Stand ODU  
FQ237DBU.AKOR

Real-time monitoring

Operate Mode: Stop Error: -  
Limited: None

**Indoor Unit Info**

Item	Error	Capacity	Operate Mode	Wind	Temp.
IDU1	-	24	Cool	Low	26.7
IDU2	-	9	Cool	Low	26.4

[Indoor Unit info]

Stand ODU  
FQ237DBU.AKOR

Real-time monitoring

Operate Mode: Stop Error: -  
Limited: None

HZ SH

2024.08.31 9:46:42

180 1800 3600  
135 1350 2700  
90 900 1800  
45 450 900  
0 0 0

9:46:40 9:48:20 9:50:00 9:51:40 9:53:20 9:55:00 9:56:40 9:58:20 10:00:00

- High Press 0
- Low Press 0
- INV 1 0
- Fan 1 0

[Graph (Hz)]

Stand ODU  
FQ237DBU.AKOR

Real-time monitoring

Operate Mode: Stop Error: -  
Limited: None

HZ SH

2024.08.31 9:46:45

1800 226  
1350 170  
900 114  
450 58  
0 2

9:46:40 9:48:20 9:50:00 9:51:40 9:53:20 9:55:00 9:56:40 9:58:20 10:00:00

- Main EEV 460
- Comp. discharge temp. 37
- Comp. suction temp. 200

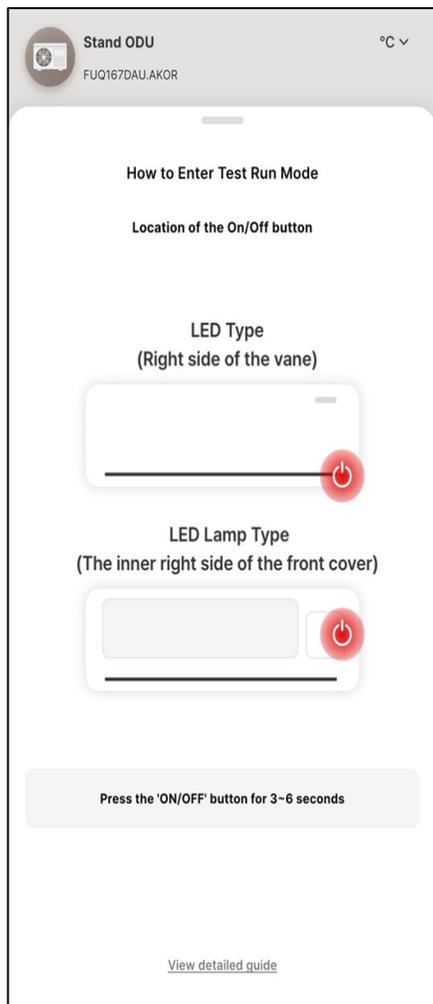
[Graph (SH)]

# 5. Introduction to functions

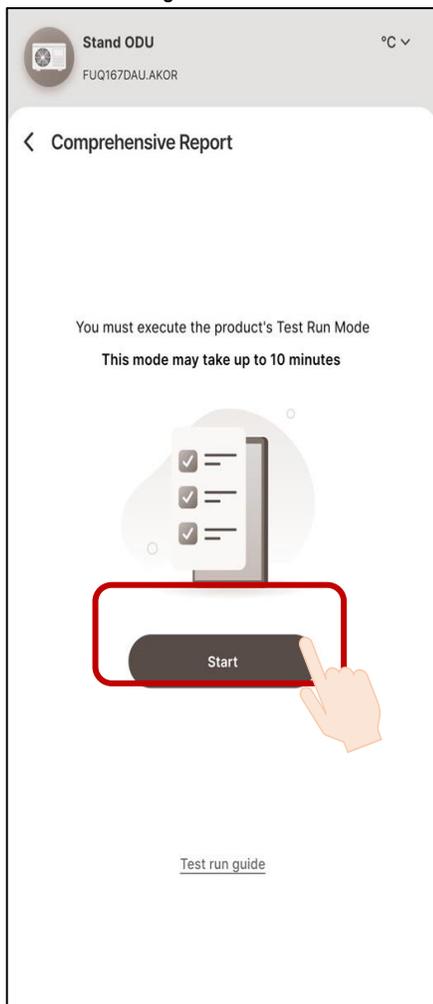
## 3) Functions of using Air Solution Division products (Stand, Portable, Wall-mount)

### (3) Comprehensive Report

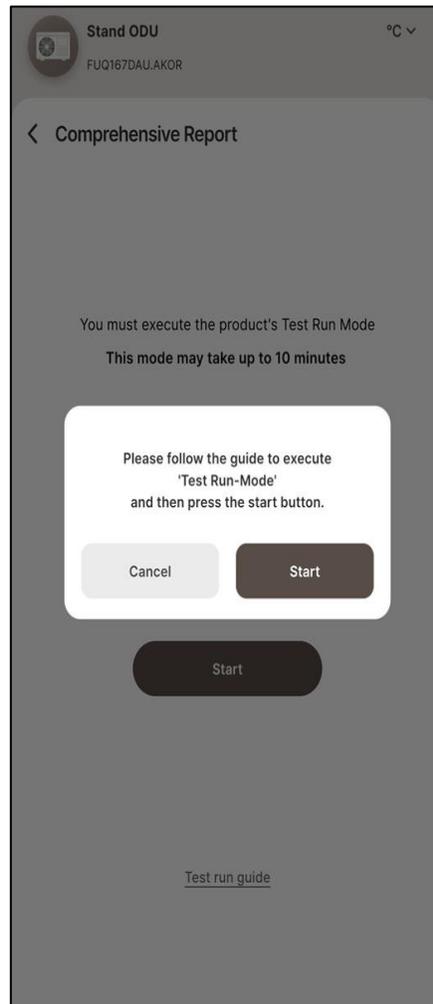
① Enter test run on product



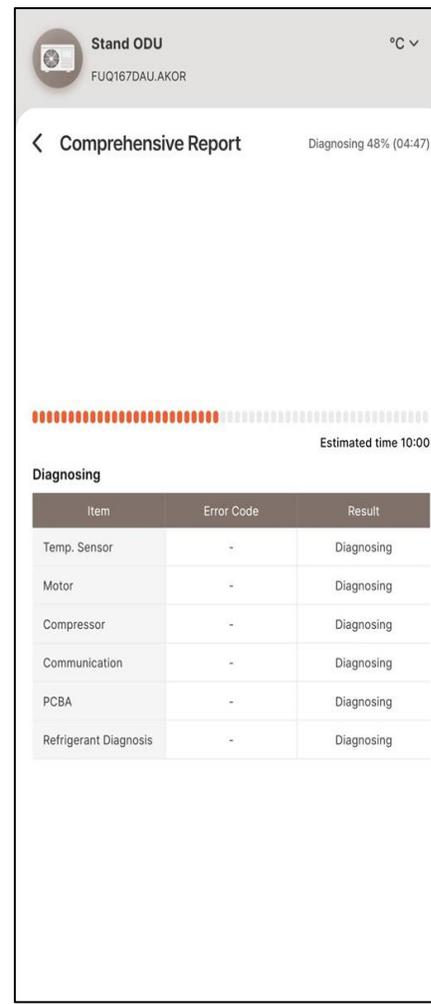
② Start comprehensive diagnosis function



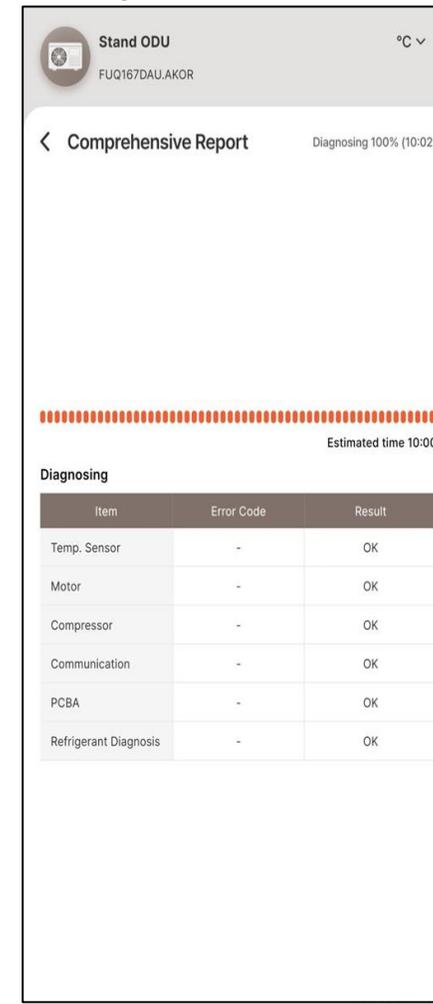
③ Select whether to enter test drive mode



④ Diagnosis begins when entering test run mode is selected



⑤ Provides automatic fault diagnosis and guidance



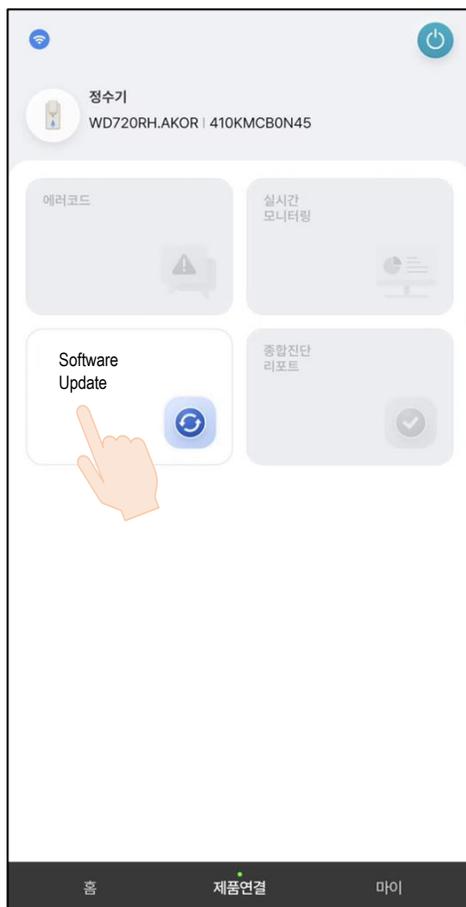
# Software Update

## 5. Introduction to functions

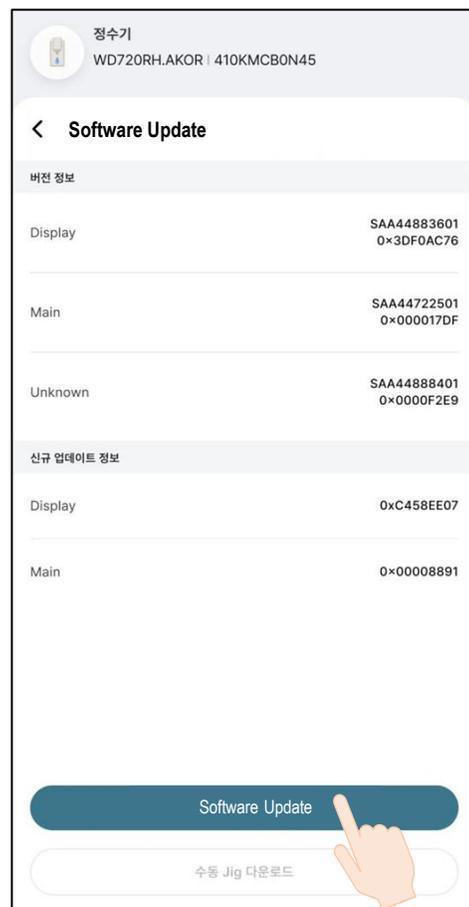
### 4) Software Update

#### (1) Wireless FOTA function

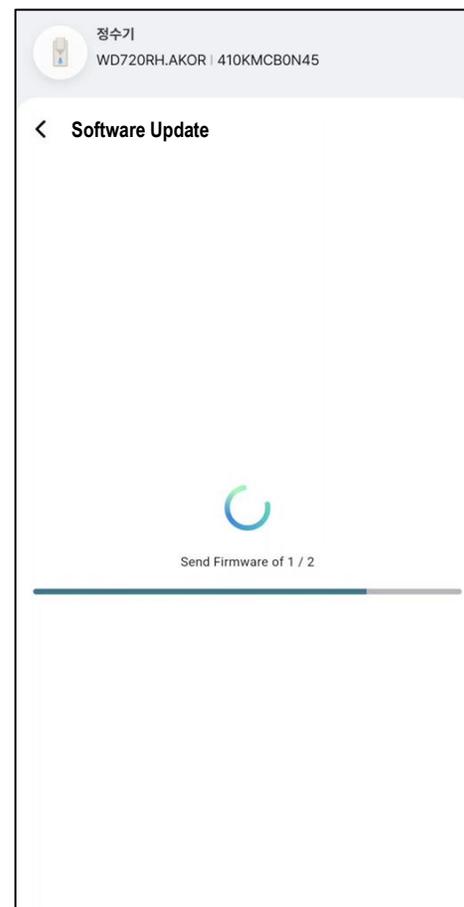
① After connecting the product, select Software Update on the main screen



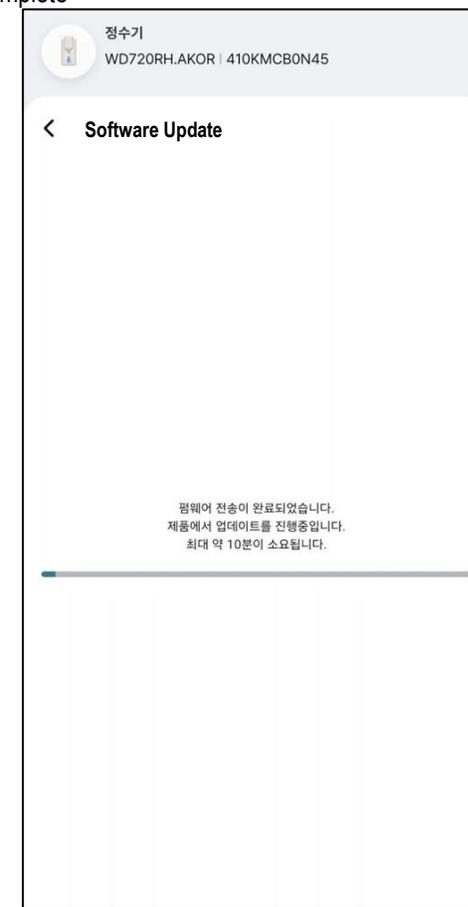
② If there is a new version, new update information PGM is displayed



③ When you press Software Update, PGM will be sent from the App to the product.



④ When PGM transmission is complete, the connection with the product is disconnected and the App displays the remaining time. The product is OFF or the update percentage is output. If the product is automatically initialized, the update is complete.



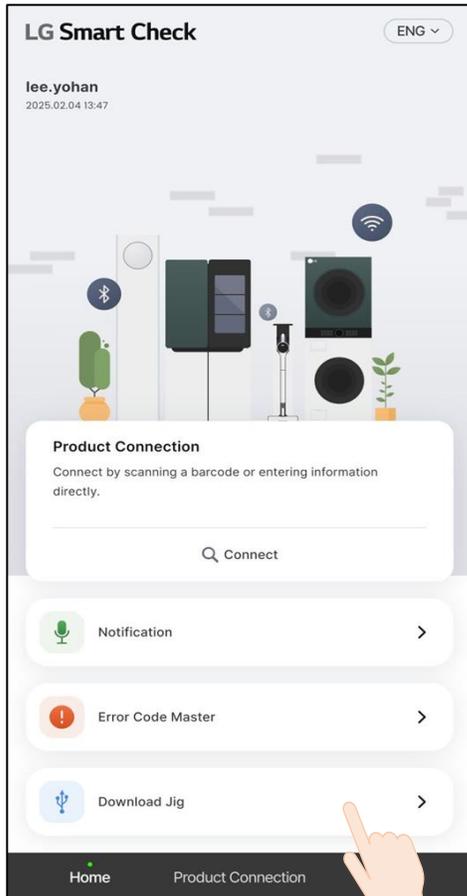
#### ※ Caution

If the update fails, the product will be turned off, but will automatically return after 15 minutes.  
Never unplug the power cord.

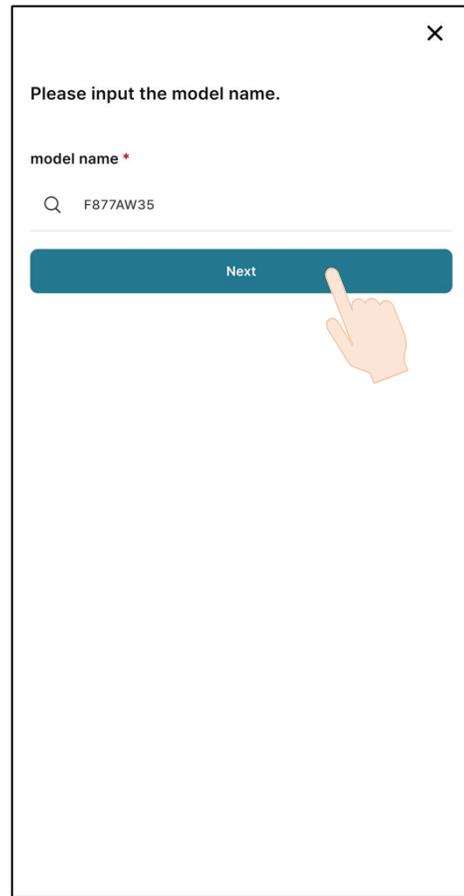
## 4) Software Update

### (2) Download JIG ( How to download from the app)

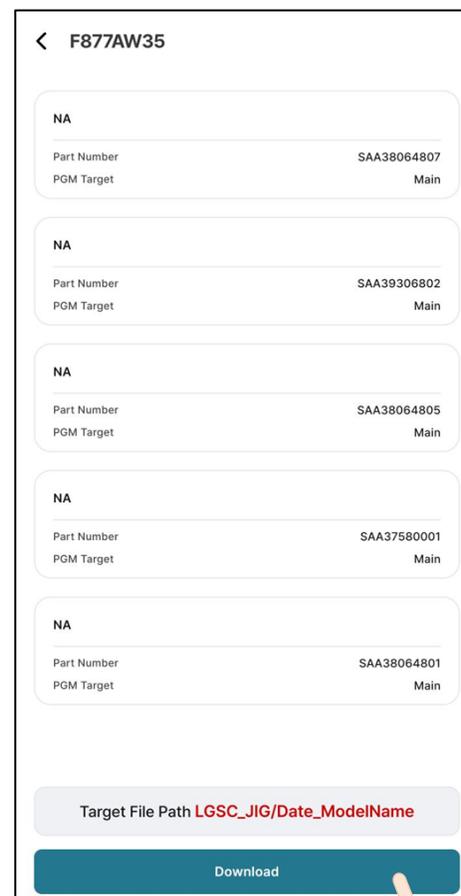
① Select **Download JIG** from the App main screen



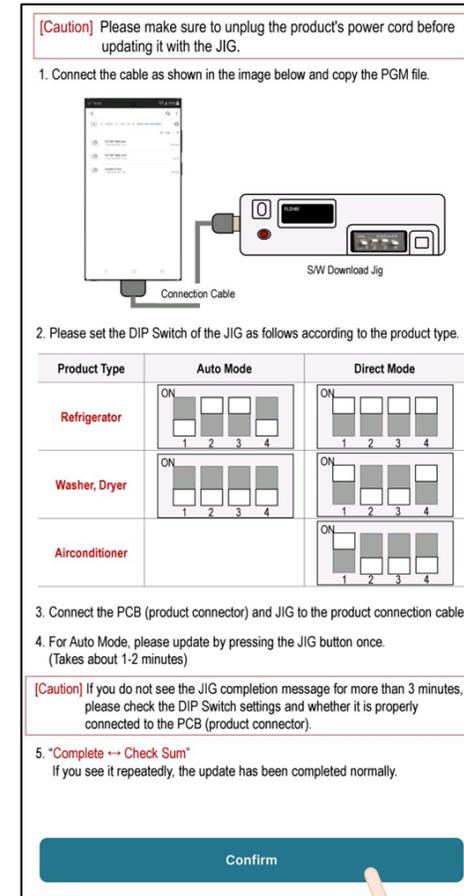
② Input model name



③ Check the firmware contents and select **Download** at the bottom



④ Check the DIP SW setting method of JIG and select the **Confirm** button



⑤ Automatically open the download folder  
Select **LGSC\_JIG** folder



⑥ Created with **date\_model name**



## 4) Software Update

### (2) Download JIG (How to copy with Rewrite JIG)

① Please prepare a USB A TO C Adapter to copy files to the JIG.



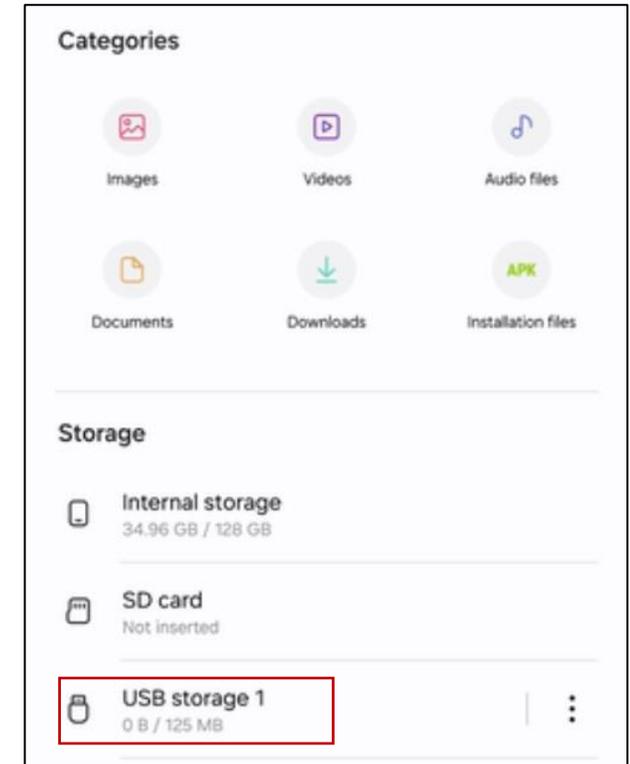
② After connecting the JIG and the smartphone, turn the JIG power ON.



③ When "MASS Storage Connected!" When is displayed, the connection is complete.



④ USB storage in your phone will be displayed.

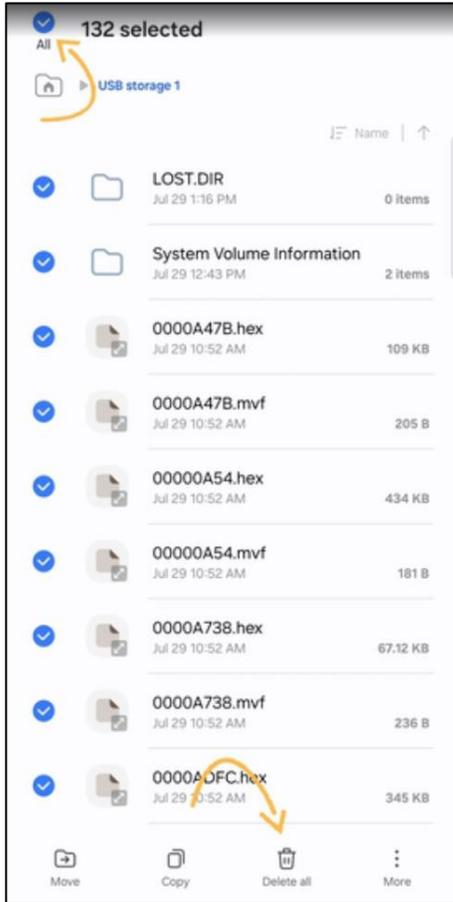


# 5. Introduction to functions

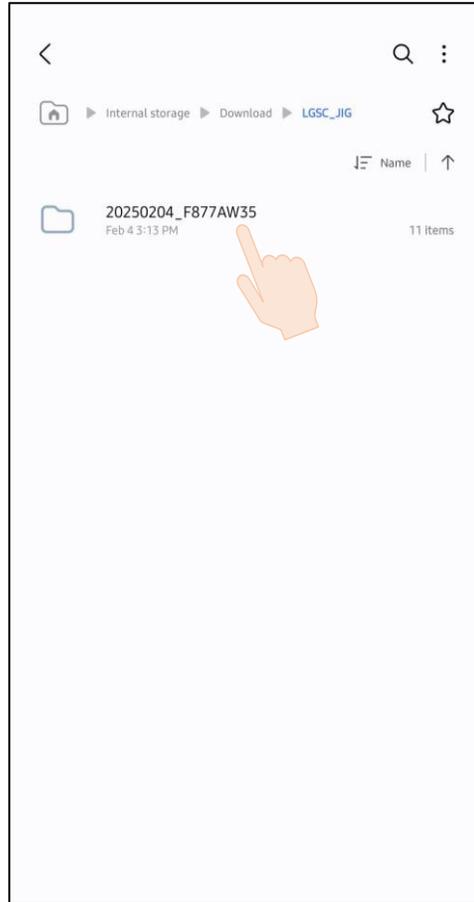
## 4) Software Update

### (2) Download JIG (How to copy with Rewrite JIG)

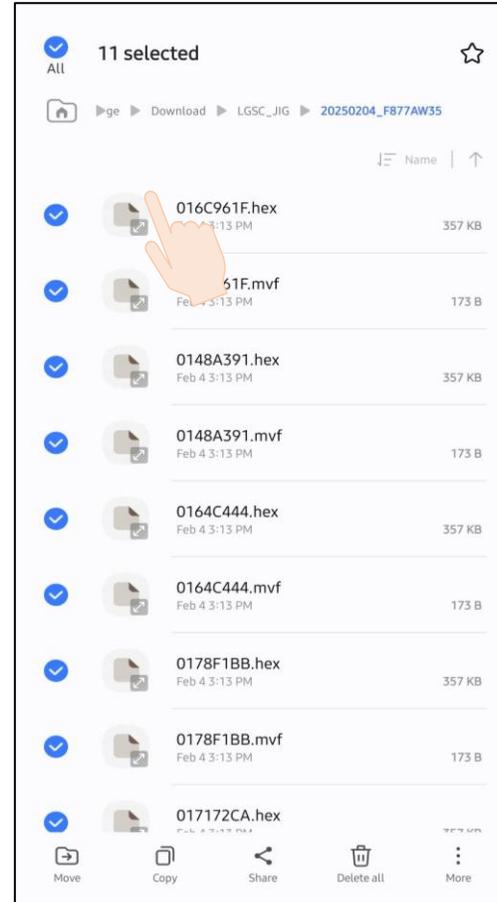
⑤ Please delete all existing files in Jig.



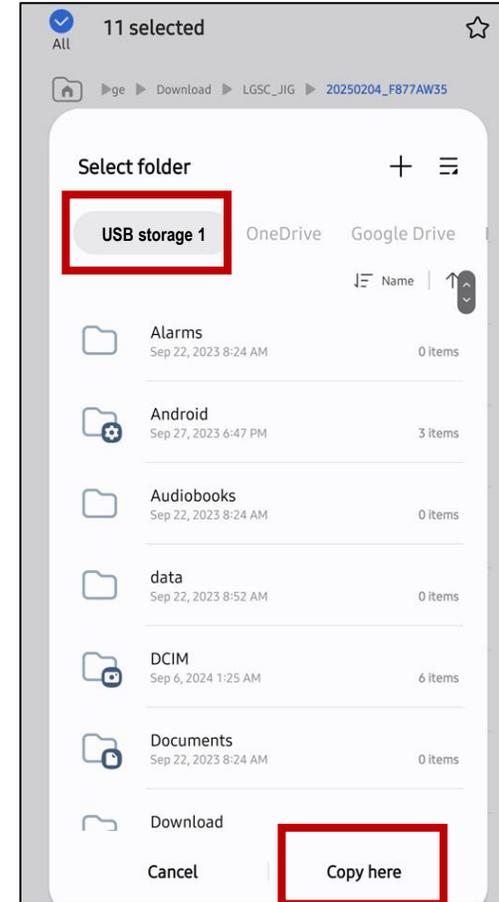
⑥ Enter the downloaded **date\_model name** folder



⑦ Select all files and select copy



⑧ Select Paste to JIG (USB storage)



⑨ Please turn off the JIG power.



## 5. Introduction to functions

### 4) Software Update

#### (2) Download JIG (How to copy with Rewrite JIG)

⑩ After separating the mobile phone and JIG, turn on the power to update the JIG's firmware. When the screen below appears, press the start button once.



Updating

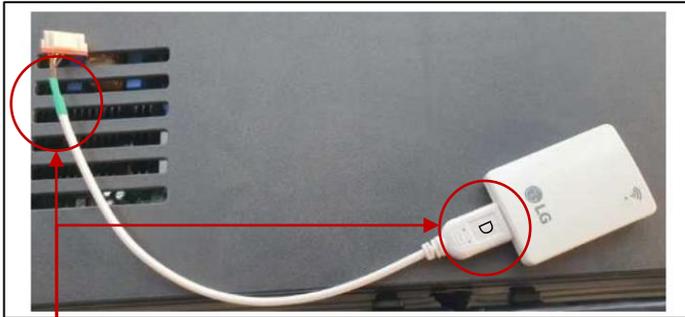


⑪ When the update is complete, the JIG version information and target product will be displayed.



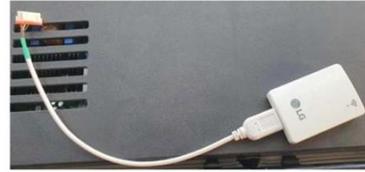
Please refer to the product-specific bulletin for instructions on connecting to the product and updating.

## 1. Dongle Harness Type



Check color and connector by type

### SVC JIG Connection Guide



**TYPE A**

1. Please connect the Wi-Fi modem to the specified connector type.



2. Please connect the connector to the refrigerator's Main PCB.



3. Please check that the green light on the Wi-Fi modem is blinking.

### SVC JIG Connection Guide



**TYPE B**

1. Please connect the Wi-Fi modem to the specified connector type.

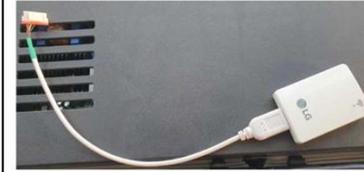


2. Please connect the connector to the refrigerator's Main PCB.



3. Please check that the green light on the Wi-Fi modem is blinking.

### SVC JIG Connection Guide



**TYPE C**

1. Please connect the Wi-Fi modem to the specified connector type.



2. Please connect the connector to the refrigerator's Main PCB.



3. Please check that the green light on the Wi-Fi modem is blinking.

### SVC JIG Connection Guide



**TYPE D**

1. Please connect the Wi-Fi modem to the specified connector type.



2. Please connect the connector to the refrigerator's Main PCB.



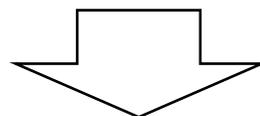
3. Please check that the green light on the Wi-Fi modem is blinking.



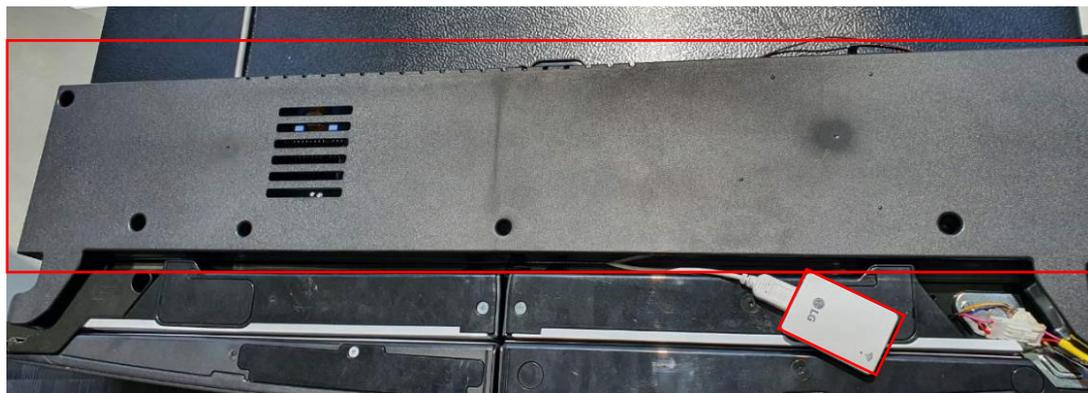
## 2. SIMs Dongle Insertion Location in Main PCB



SIMs Dongle Housing Connection Location



Please cover it after inserting the jig.



If the Cover and Hinge are not connected, the door is recognized as open and the diagnostic app cannot diagnose it. Therefore, after connecting the Jig, slightly cover it as shown in the picture and proceed with the diagnosis.