LG Heating Configurator Guide



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1. Constraints

Please check below things before using LG Heating Configurator.

1. Product Model

- LG Heating Configurator is available for 3rd generation split type AWHP and R32 refrigerant monobloc AWHP models.

2. User PC environment

- Operation System : Microsoft Windows 7 and 10
- should had been installed “Visual C++ Redistributable for Visual Studio 2015 package”.

  (can search and download the package file at Microsoft download center)
- recommend to use LG Heating Configurator at display environment that higher resolution than 1920 x 1080.

3. SW Version of LG Heating Configurator and wired remote controller of AWHP.

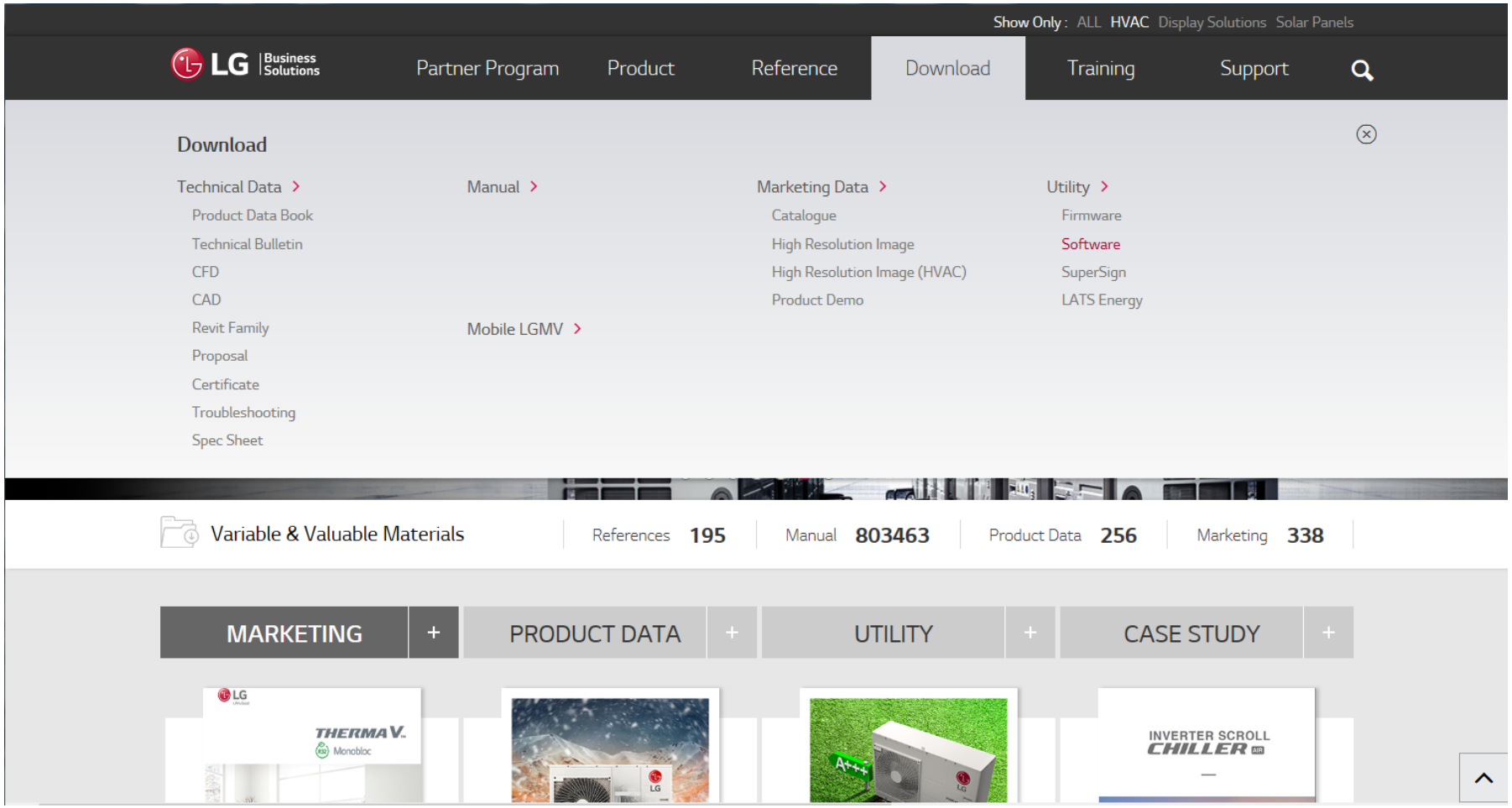
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2. How to get the LG Heating Configurator program file

Heating Configurator is available for LG Employee and partner members such as applied rep., distributor, etc.

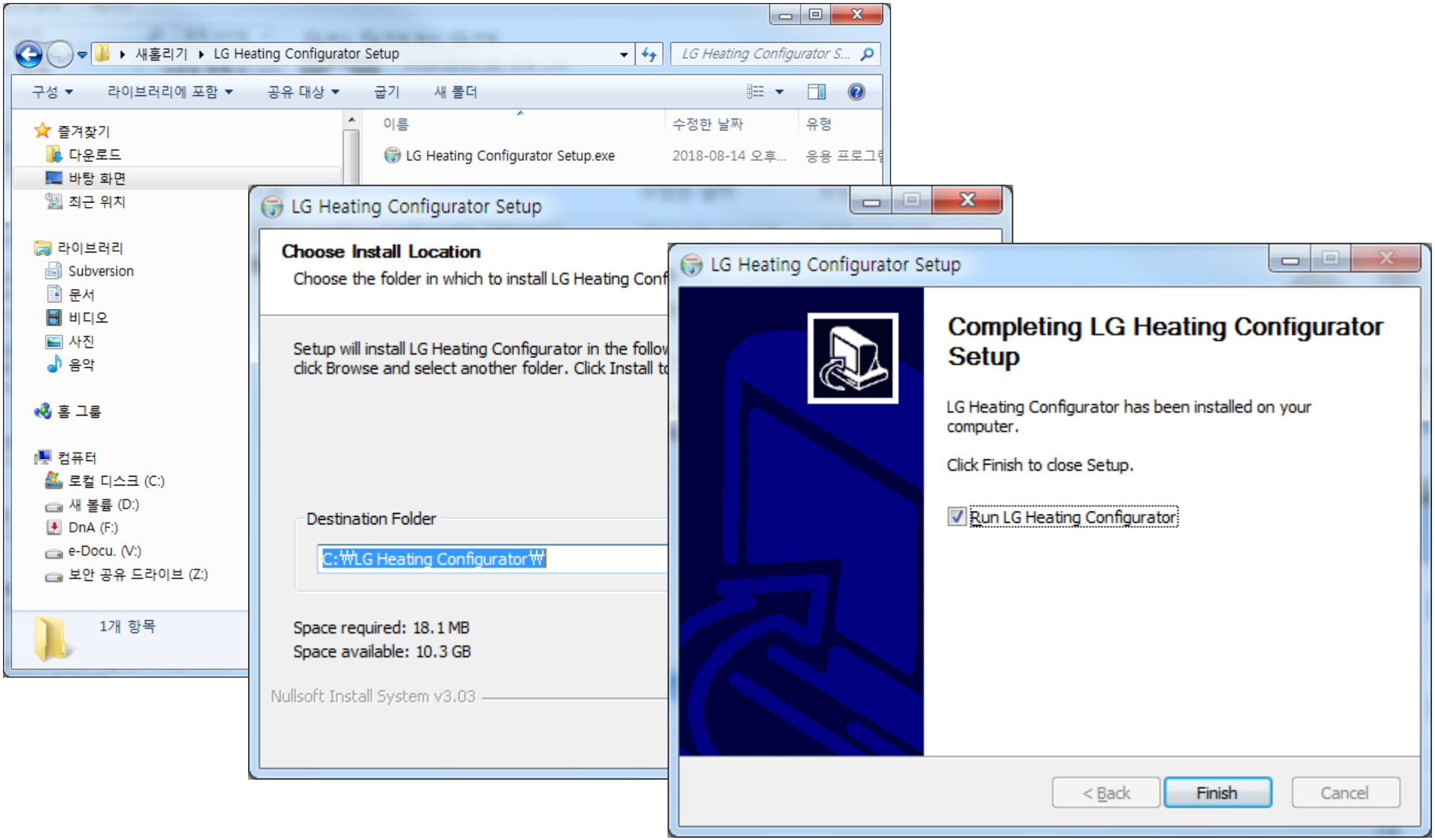
Partner members need a authorization to sign in / log in the B2B partner portal global web site. And access to below path.

http://partner.lge.com/global → Click Download → Utility → Software



3. Installation

Recommend to use default installation path (C:\LG Heating Configurator) for using direct executing function in LATS.
If don't want to use LG Heating Configurator in LATS or want to use as stand-alone, can select any path user want to use.



4. Contents List

Product Selection	Product Type
	Product Spec.
	Refrigerant Type
Environment Setting	Domestic hot water tank
	Solar thermal kit
	Operation mode
	Flow switch detection
	Back up heater
	Thermostat
	Meter interface
	Remote air temperature sensor
	Anti-freezing solution
Operation Setting	**Function**
	Silent mode
	RMC button Lock
	User
	Temperature unit
	LCD brightness in standby mode
	Date
	Summer time
	Display theme
	Service
	Company name
	Installer name
	Telephone number

Operation Setting	**Installation > System setting**
	Select temperature sensor
	Dry contact mode
	Central control address
	Pump frequency setting(RPM)
	Forced operation
	Dry contact installation(CN_CC)
	Programmable digital input(CN_EXT)
	Add zone
	Smart grid(SG)
	Heater activation
	Heater on temperature
	Use DHW Boost Heater
	Anti-freezing solution temperature
	Pump pre run / over run
	Use external pump
	3rd party boiler
	Screed drying
	Installation > Cool mode
	Control basis temp.
	Cooling water cut-off temp.
	Temperature range
	Water temperature control
	Hysteresis(TH on/off variable)
	Water pump operation type
	Installation > Heat mode
	Control basis temp.
	Temperature range
	Water temperature control
	Hysteesis(TH on/off variable)
	Water pump operation type
	Installation > Auto mode
	Outdoor temp dependent mode
	Seasonal auto mode
	Outdoor temp. range
	Indoor air temp. range(Room2)
	Water temp. range(Room2)
	Indoor air temp. range(Room1)
	Water temp. range(Room1)
	Installation > Domestic hot water tank heating
	DHW temp. range
	DHW temp. setting
	DHW time setting
	Disinfection

5.1 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
1	Product Selection	Product Type	Therma V	-	AWHP	
2		Product Spec.	Medium temperature	-	-	
3		Refrigerant Type	R410A	-	-	
			R32	-	-	
4	Environment Setting	Domestic hot water tank	Not use	-	o	
			Use	-		
5		Solar thermal kit	Not use	-	o	No.4 set to 'Use'
			Use	-		
6		Operation mode	Heating	-	o	
			Heating and Cooling	-		
7		Flow switch detection	Always	-	o	
			While water pump is on	-		
8		Back up heater	Disable	-	o (R410A Split)	
			Enable step 1	-		
			Enable step 1 and 2	-	o (R32 Monobloc)	
9		Thermostat	Not use	-		
			Use	-		
10		Meter interface				
10.1		└ Modbus address	Not use	-	o	
			B0 / B1	-		
10.2		└ Pulse spec.(WHM1)	0.0~9999.9	0.1	1000	No. 10.1 set to B0 / B1
10.3		└ Pulse spec.(WHM2)	0.0~9999.9	0.1	1000	
10.4		└ Pulse spec.(WHM3)	0.0~9999.9	0.1	1000	
10.5		└ Pulse spec.(Heat meter)	0.0~9999.9	0.1	1000	
11		Remote air temperature sensor	Not use	-	o	No.3 set to 'R32'
			Use	-		
12		Anti-freezing function	Not use	-	o	No.3 set to 'R32'
			Use	-		

5.2 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
	Operation Setting	**Function**				
13		Silent mode	Off	-	o	
			On	-		
13.1		└ Start time	00:00 ~ 23:59	hour/minute	22:00	No.13 set to 'On'
13.2		└ End time	00:00 ~ 23:59	hour/minute	6:00	No.13 set to 'On'
14		RMC button Lock				
14.1		└ All lock	Release	-	o	
			Lock	-		
14.2		└ On/Off lock	Release	-	o	
			Lock	-		
14.3		└ Operation mode lock	Release	-	o	
			Lock	-		
14.4		└ DHW lock	Release	-	o	No.4 set to 'Use'
			Lock	-		
		User				
15		Temperature unit	Celsius	-	o	
			Fahrenheit	-		
16		LCD brightness in standby mode				
16.1		└ Screen saver timer	15/30/60	Second	30s	
16.2		└ Brightness	0~30	10%	10%	
17		Date				
17.1		└ Year	2015~2037	1 year	-	
17.2		└ Month	1~12	1 month	-	
17.3		└ Day	1~31	1 day	-	
18		Summer time	Off	-	o	
			On	-		
18.1		└ Start date	Jan. 1st ~ Dec. 31th	month/day	Mar. 25th	
18.2		└ End date	Jan. 1st ~ Dec. 31th	month/day	Oct. 28th	
19		Display theme	White	-	o	
			Black	-		
		Service				
21		Company name	-	-	-	
22		Installer name	-	-	-	
23		Telephone number	-	-	-	

5.3 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
	Operation Setting	**System setting**				
24		Select temperature sensor				
24.1		└ Control method	Water	-	o	
			Air	-		
			Air+Water	-		
24.2		└ Air temp. sensor location	Remote controller	-	o	No.11 set to 'Use' AND No.24.2 set to Air / Air+Water
			Remote room sensor	-		
25		Dry contact mode	Manual	-		
			Auto	-	o	
26		Central control address	00~FF	Hexa Decimal	00	
27		Screed drying		-		
27.1		└ Start step	1~11	step	1	
27.2		└ Max temp.	35~55	degree	55	
27.3		└ Step 8 holding time	1~30	1day	7days	
28		Pump frequency setting(RPM)	10~100	5%	100%	
29		W/pump kick in stand-by	Not use	-		
			Use	-	o	
29.1		└ Operation cycle	20~180	hour	20hours	
29.2		└ Operation time	1~10	minute	10min.	
30		Dry contact installation(CN_CC)	Auto	-	o	
			Not Installed	-		
			Installed	-		
31		Programmable digital input(CN_EXT)	Not use	-	o	
			Simple operation	-		
			Simple drycontact	-		
			Single emergency stop	-		
			All emergency stop	-		
32		Mixed cuircuit	Not use	-	o	
			Use	-		
32.1		└ Valve closing time	60~999	Second	240s	
32.2		└ Hysteresis	1~5	K	3K	

5.4 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
33	Operation Setting	Smart grid(SG)	Not use	-	o	
			Use	-		
33.1		└ Mode	STEP0~STEP2	-	STEP0	
34		Heater enable for DHW	Backup and DHW boost	-	o	
			DHW boost only	-		
35		Enable backup heater temp.	-25℃ ~ 18℃	℃/℉	-5℃	No.8 set to '1Heater' or '2 Heater'
36		Use DHW Boost Heater	Not use	-		
			Use	-		
36.1		└ Priority	Heat pump	-	o	
			Boost heater	-		
36.2		└ Delay time	10/20/30/40/50/60/90/120/1440	minute	10min.	
37		Anti-freeze temp. adaption	-25K ~ -5K	5K	-5K	No.12 set to 'Use'
38		Pump pre run / over run				
38.1		└ Pre run	1~10	minute	1min.	
38.2		└ Over run	1~10	minute	1min.	
39		Use external pump	Not use			
			Use			
40		3rd party boiler	Not use		o	
			Use			
40.1		└ Over run	Manual		o	No.40 set to 'Use'
			Auto			
40.2		└ Temperature	-25℃ ~ 25℃	℃/℉	-7℃	No.40.1 set to 'Auto'
40.3		└ Hysteresis	2K ~ 10K	degree	4K	No.40.1 set to 'Auto'

5.5 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
	Operation Setting	**Cooling mode**				
41		Temp. control method	Outlet		o	No.24.1 set to 'Water' or 'Air+Water'
			Inlet			
42		Cooling water cut-off temp.				No.6 set to 'cooling + heating'
42.1		└ Fan coil unit	Not use		o	
			Use			
42.2		└ Over run	16℃~25℃	℃/℉	18℃	No.42.1 set to 'Not use'
43		Temp. limitation(Constant mode)				
43.1		└ Indoor air temp (Min)	16℃ ~ 22℃	℃/℉	16℃	
43.2		└ Indoor air temp.(Max)	24℃ ~ 30℃	℃/℉	30℃	
43.3		└ Water temp (Min)	16℃ ~ 20℃	℃/℉	18℃	When No.42.1 set to 'Not use'
			5℃ ~ 20℃	℃/℉	18℃	When No.42.1 set to 'Use'
43.4		└ Water temp (Max)	22℃ ~ 27℃	℃/℉	24℃	
44		Auto/Constant control				
44.1		└ Mode	Auto			
			Manual		o	
44.2		└ Constant water temp.(Room 1)		℃/℉	18℃	No.44.1 set to 'Manual'
44.3		└ Constant water temp.(Room 2)		℃/℉	18℃	No.44.1 set to 'Manual' AND No.32 set to 'Use'
45		Hysteresis (TH on/off)				
45.1		└ Indoor air temp.	STEP0~STEP3		STEP0	
45.2		└ Water temp.	STEP0~STEP3		STEP0	
46		Water pump cycling	Operation continue		o	
			Time setting			
46.1		└ ON time		minute	2min.	No.46 set to 'Time setting'
46.2		└ OFF time		minute	1min.	No.46 set to 'Time setting'

5.6 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
	Operation Setting	**Heating mode**				
47		Temp. control method	Outlet		o	
			Inlet			
48		Temp. limitation				
48.1		└ Indoor air temp (Min)	16℃ ~ 22℃	℃/℉	16℃	
48.2		└ Indoor air temp.(Max)	24℃ ~ 30℃	℃/℉	30℃	
48.3		└ Water temp (Min)	15℃ ~ 34℃	℃/℉	20℃	
48.4		└ Water temp (Max)	35℃ ~ 65℃	℃/℉	65℃	
49		Water temperature control				
49.1		└ Mode	Auto			
			Manual		o	
49.2		└ Water temp.	20℃ ~ 65℃	℃/℉	35℃	No.49.1 set to 'Manual'
50		Hysteresis(TH on/off variable)				
50.1		└ Indoor air temp.	STEP0~STEP3		STEP0	
50.2		└ Water temp.	STEP0~STEP3		STEP0	
51		Water pump operation type	Operation continue		o	
			Time setting			
51.1		└ ON time		minute	2min.	No.51 set to 'Time setting'
51.2		└ OFF time		minute	1min.	No.51 set to 'Time setting'

5.7 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
	Operation Setting	**Auto mode**				
52		Outdoor temp dependent mode				No.6 set to 'heating only'
52.1		└ Reference outdoor temp. (Max.)	10℃ ~ 35℃	℃/℉	15℃	
52.2		└ Reference outdoor temp. (Min.)	-25℃ ~ 5℃	℃/℉	-10℃	
52.3		└ Indoor air temp. range (Max.)	20℃ ~ 30℃	℃/℉	21℃	
52.4		└ Indoor air temp. range (Min.)	16℃ ~ 19℃	℃/℉	16℃	
52.5		└ Water temp. range (Max.)	35℃ ~ 65℃	℃/℉	65℃	
52.6		└ Water temp. range (Min.)	15℃ ~ 34℃	℃/℉	15℃	
53		Seasonal auto mode	Heating only			No.6 set to 'cooling and heating'
			Cooling only			
			Heating and Cooling		o	
54		Reference outdoor temp.				
54.1		└ Heating max. temp.	①-15℃ ~ 24℃ ②-25℃ ~ 35℃	℃/℉	16℃	① No.3 set to 'R410A' ② No.3 set to 'R32'
54.2		└ Heating min. temp.	①-15℃ ~ 24℃ ②-25℃ ~ 35℃	℃/℉	-10℃	① No.3 set to 'R410A' ② No.3 set to 'R32'
54.3		└ Cooling max. temp.	①10℃ ~ 43℃ ②10℃ ~ 46℃	℃/℉	40℃	① No.3 set to 'R410A' ② No.3 set to 'R32'
54.4		└ Cooling min. temp.	①10℃ ~ 43℃ ②10℃ ~ 46℃	℃/℉	30℃	① No.3 set to 'R410A' ② No.3 set to 'R32'
55		Indoor air temp. curve (Circuit 1)				
55.1		└ Heating max. temp.	16℃ ~ 30℃	℃/℉	30℃	
55.2		└ Heating min. temp.	16℃ ~ 30℃	℃/℉	26℃	
55.3		└ Cooling max. temp.	16℃ ~ 30℃	℃/℉	22℃	
55.4		└ Cooling min. temp.	16℃ ~ 30℃	℃/℉	18℃	
56		Indoor air temp. curve (Circuit 2)				No.32 set to 'Use'
56.1		└ Heating max. temp.	16℃ ~ 30℃	℃/℉	30℃	
56.2		└ Heating min. temp.	16℃ ~ 30℃	℃/℉	26℃	
56.3		└ Cooling max. temp.	16℃ ~ 30℃	℃/℉	22℃	
56.4		└ Cooling min. temp.	16℃ ~ 30℃	℃/℉	18℃	

5.8 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
57	Operation Setting	Water temp. curve (Circuit 1)				
57.1		└ Heating max. temp.	①15℃ ~ 57℃ ②20℃ ~ 57℃ ③15℃ ~ 55℃ ④20℃ ~ 55℃ ⑤15℃ ~ 65℃ ⑥20℃ ~ 65℃	℃/℉	35℃	Ⓐ
57.2		└ Heating min. temp.	①15℃ ~ 57℃ ②20℃ ~ 57℃ ③15℃ ~ 55℃ ④20℃ ~ 55℃ ⑤15℃ ~ 65℃ ⑥20℃ ~ 65℃	℃/℉	28℃	Ⓐ
57.3		└ Cooling max. temp.	①5℃ ~ 27℃ ②16℃ ~ 27℃ ③10℃ ~ 27℃ ④20℃ ~ 27℃ ⑤5℃ ~ 27℃ ⑥16℃ ~ 27℃	℃/℉	20℃	ⓑ
57.4		└ Cooling min. temp.	①5℃ ~ 27℃ ②16℃ ~ 27℃ ③10℃ ~ 27℃ ④20℃ ~ 27℃ ⑤5℃ ~ 27℃ ⑥16℃ ~ 27℃	℃/℉	16℃	ⓑ

Ⓐ
①No.3 set to 'R410A'and No.8 set to 'Enable step 1'/'Enable step 1 and 2'
②No.3 set to 'R410A'and No.8 set to 'Disable'
③No.3 set to 'R32'and No.47 set to 'Inlet' and No.8 set to 'Enable step 1'/'Enable step 1 and 2'
④No.3 set to 'R32'and No.47 set to 'Inlet' and No.8 set to 'Disable'
⑤No.3 set to 'R32'and No.47 set to 'Outlet' and No.8 set to 'Enable step 1'/'Enable step 1 and 2'
⑥No.3 set to 'R32'and No.47 set to 'Outlet' and No.8 set to 'Disable'

ⓑ
①No.3 set to 'R410A' and No.42.1 set to 'Use'
②No.3 set to 'R410A' and No.42.1 set to 'Not use'
③No.3 set to 'R32' and No.42.1 set to 'Use' and No.41 set to 'Inlet'
④No.3 set to 'R32' and No.42.1 set to 'Not use' and No.41 set to 'Inlet'
⑤No.3 set to 'R32' and No.42.1 set to 'Use' and No.41 set to 'Outlet'
⑥No.3 set to 'R32' and No.42.1 set to 'Not use' and No.41 set to 'Outlet'

5.9 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
58	Operation Setting	Water temp. curve (Circuit 2)				
58.1		└ Heating max. temp.	①15℃ ~ 57℃ ②20℃ ~ 57℃ ③15℃ ~ 55℃ ④20℃ ~ 55℃ ⑤15℃ ~ 65℃ ⑥20℃ ~ 65℃	℃/℉	35℃	Ⓐ
58.2		└ Heating min. temp.	①15℃ ~ 57℃ ②20℃ ~ 57℃ ③15℃ ~ 55℃ ④20℃ ~ 55℃ ⑤15℃ ~ 65℃ ⑥20℃ ~ 65℃	℃/℉	28℃	Ⓐ
58.3		└ Cooling max. temp.	①5℃ ~ 27℃ ②16℃ ~ 27℃ ③10℃ ~ 27℃ ④20℃ ~ 27℃ ⑤5℃ ~ 27℃ ⑥16℃ ~ 27℃	℃/℉	20℃	ⓑ
58.4		└ Cooling min. temp.	①5℃ ~ 27℃ ②16℃ ~ 27℃ ③10℃ ~ 27℃ ④20℃ ~ 27℃ ⑤5℃ ~ 27℃ ⑥16℃ ~ 27℃	℃/℉	16℃	ⓑ

Ⓐ
①No.3 set to 'R410A'and No.8 set to 'Enable step 1'/'Enable step 1 and 2'
②No.3 set to 'R410A'and No.8 set to 'Disable'
③No.3 set to 'R32'and No.47 set to 'Inlet' and No.8 set to 'Enable step 1'/'Enable step 1 and 2'
④No.3 set to 'R32'and No.47 set to 'Inlet' and No.8 set to 'Disable'
⑤No.3 set to 'R32'and No.47 set to 'Outlet' and No.8 set to 'Enable step 1'/'Enable step 1 and 2'
⑥No.3 set to 'R32'and No.47 set to 'Outlet' and No.8 set to 'Disable'

ⓑ
①No.3 set to 'R410A' and No.42.1 set to 'Use'
②No.3 set to 'R410A' and No.42.1 set to 'Not use'
③No.3 set to 'R32' and No.42.1 set to 'Use' and No.41 set to 'Inlet'
④No.3 set to 'R32' and No.42.1 set to 'Not use' and No.41 set to 'Inlet'
⑤No.3 set to 'R32' and No.42.1 set to 'Use' and No.41 set to 'Outlet'
⑥No.3 set to 'R32' and No.42.1 set to 'Not use' and No.41 set to 'Outlet'

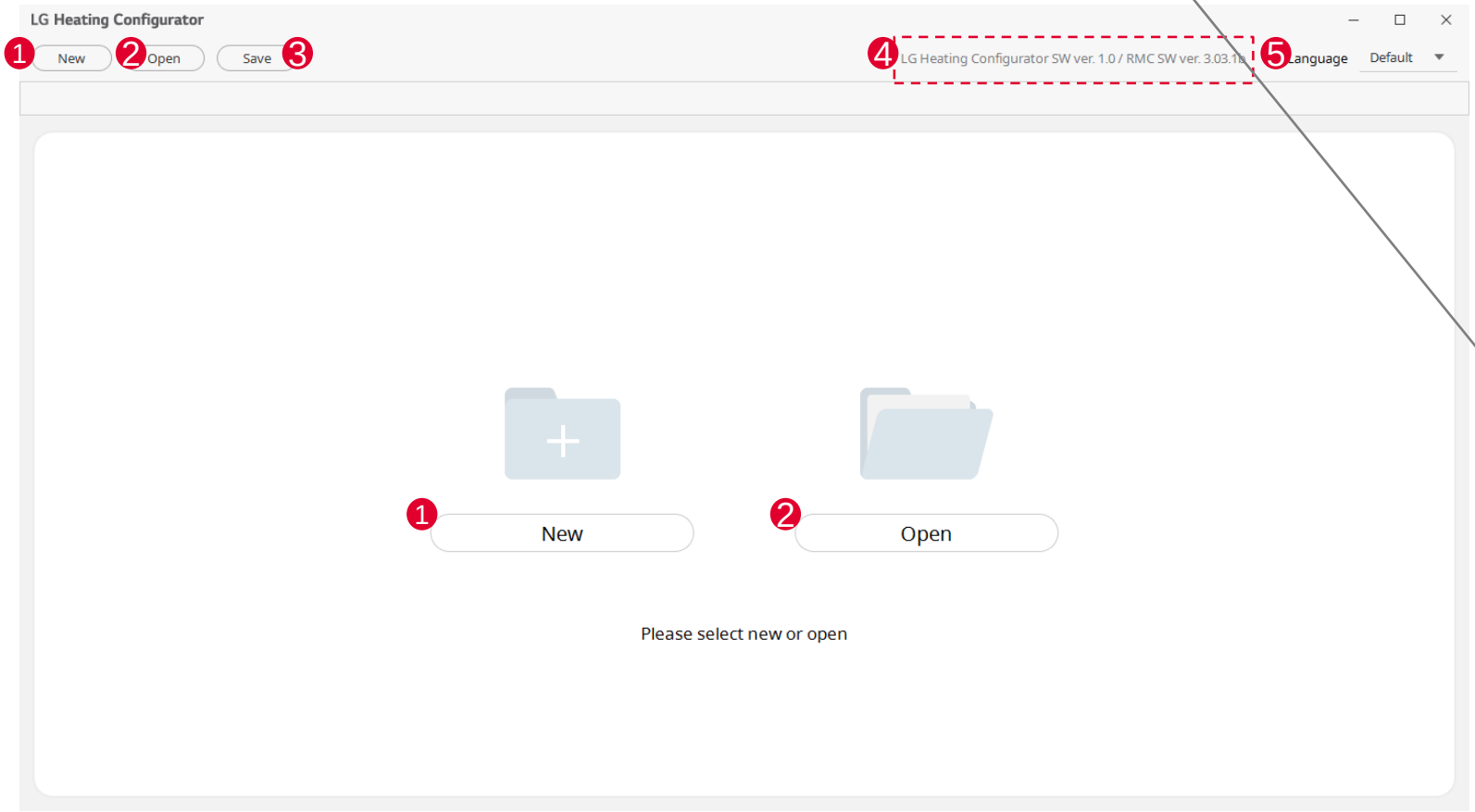
5.10 Detailed Feature Guide

No.	Category	Setting menu	Setting option	Unit	Default	Enable condition
	Operation Setting	**Domestic hot water tank heating**				No.4 set to 'Use'
59		DHW temp. range				
59.1		└ Min.	30~40	℃/℉	40℃	
59.2		└ Max.	50~80	℃/℉	55℃	
60		DHW temp. setting				
60.1		└ DHW thermo on temp.	1~30	K	5K	
60.2		└ Compressor limitation temp.	40~55	℃/℉	55℃	
60.3		└ Hysteresis boost heater	2~4	K	3K	
60.4		└ Heating priority	DHW		o	
			Room			
61		DHW time setting				
61.1		└ Active time	5~95	5 minutes	5min.	
61.2		└ Stop time	5~95	5 minutes	5min.	
62		Disinfection				
62.1		└ Schedule	MON ~ SUN	day of week	FRI	
			00:00 ~ 23:00	hour	23:00	
62.2		└ Maximum temp.	60~80	℃/℉	70℃	
62.3		└ Holding time	5~60	5 minutes	30min.	
62.4		└ Forced end time	1~12	hour	1hour	

6. Start Screen

Display below picture on screen after executing LG Heating Configurator.
Heating Configurator shows configuration type, sw versions, multi language option menu.

NOTE: save the file always with the name «RS3_AWHP_DATA.json»



1. Make a new configurations
2. Open configuration file
3. Save configuration as file

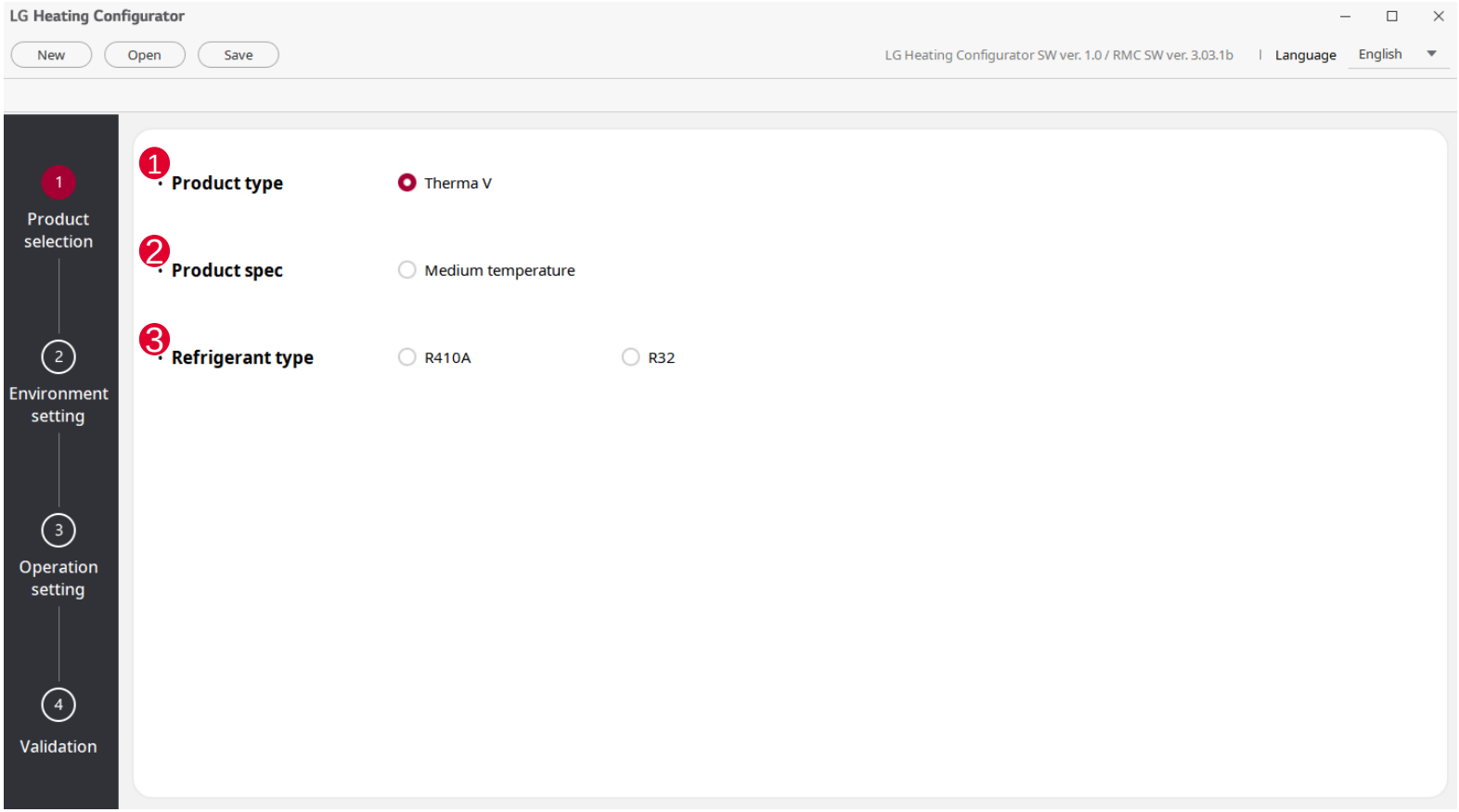
Save button is not activated until set all configurations up.

4. SW Versions of Heating Configurator and wired remote controller

Optimal combination of each SW. If does not match this guide, there are some restrictions in usages and functions.

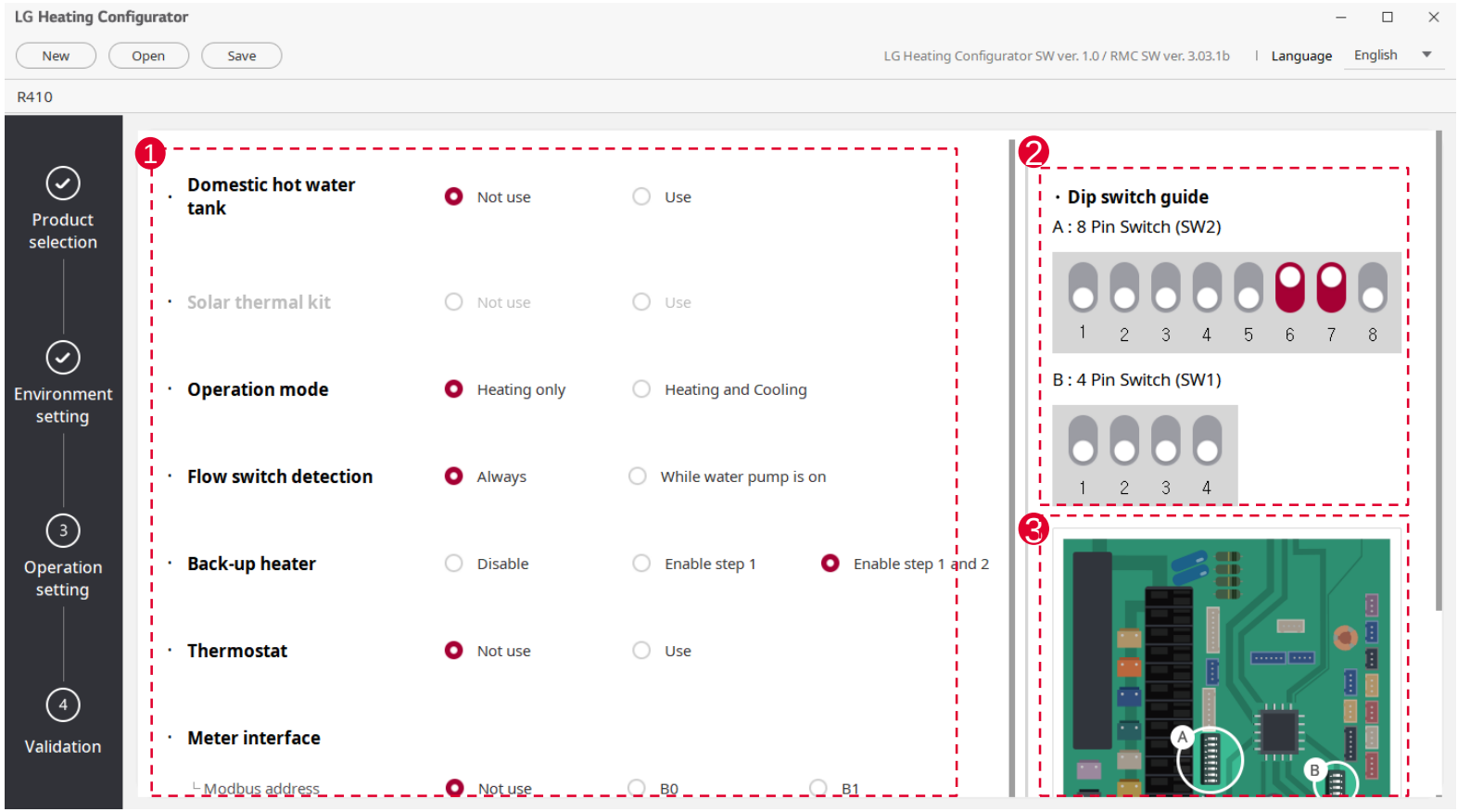
5. User can select and edit multi languages with this menu.

7. 1st step – select AWHP product info.



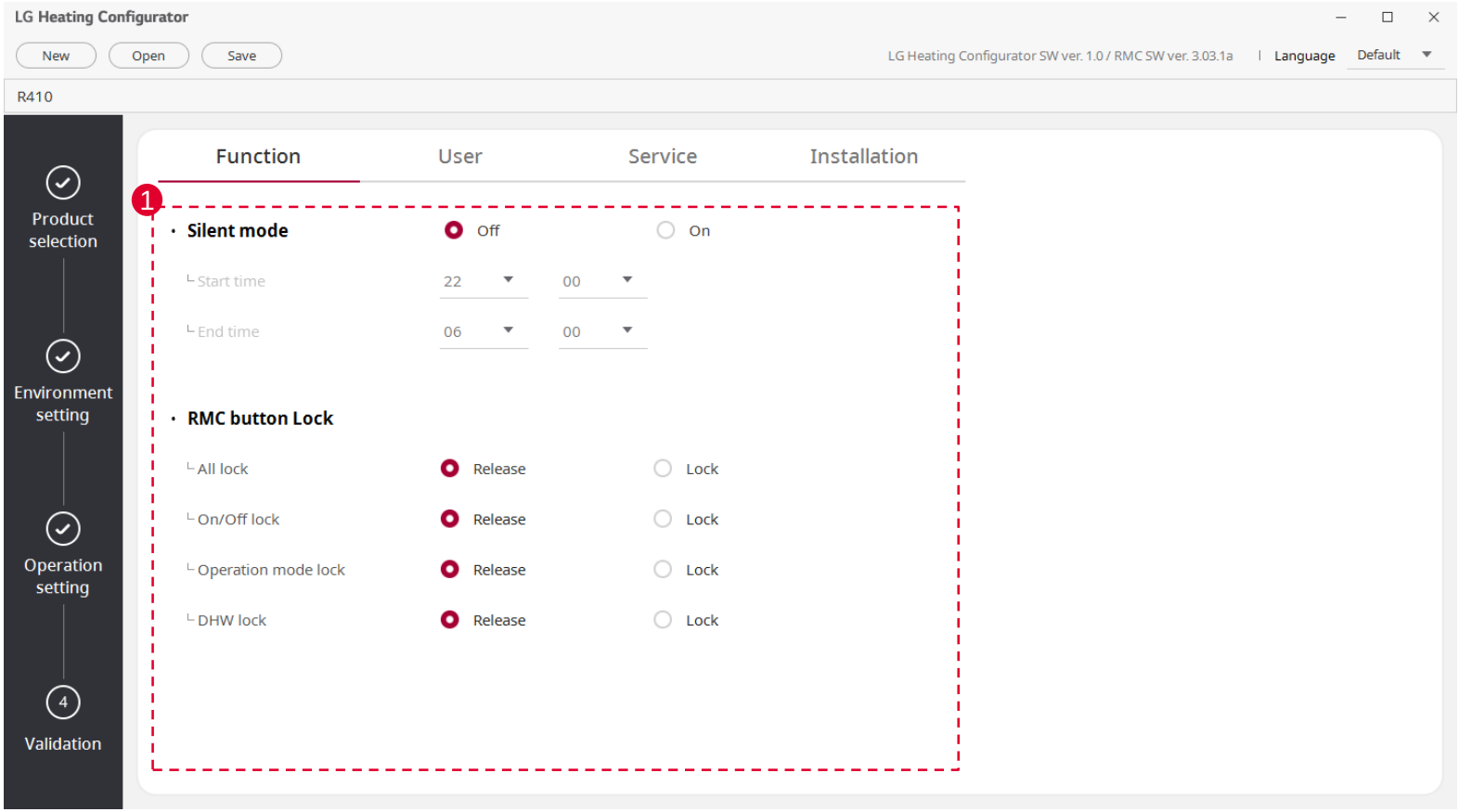
1. Make a new configurations
2. Open configuration file
3. Save configuration as file

8. 2nd step – set environment info. up



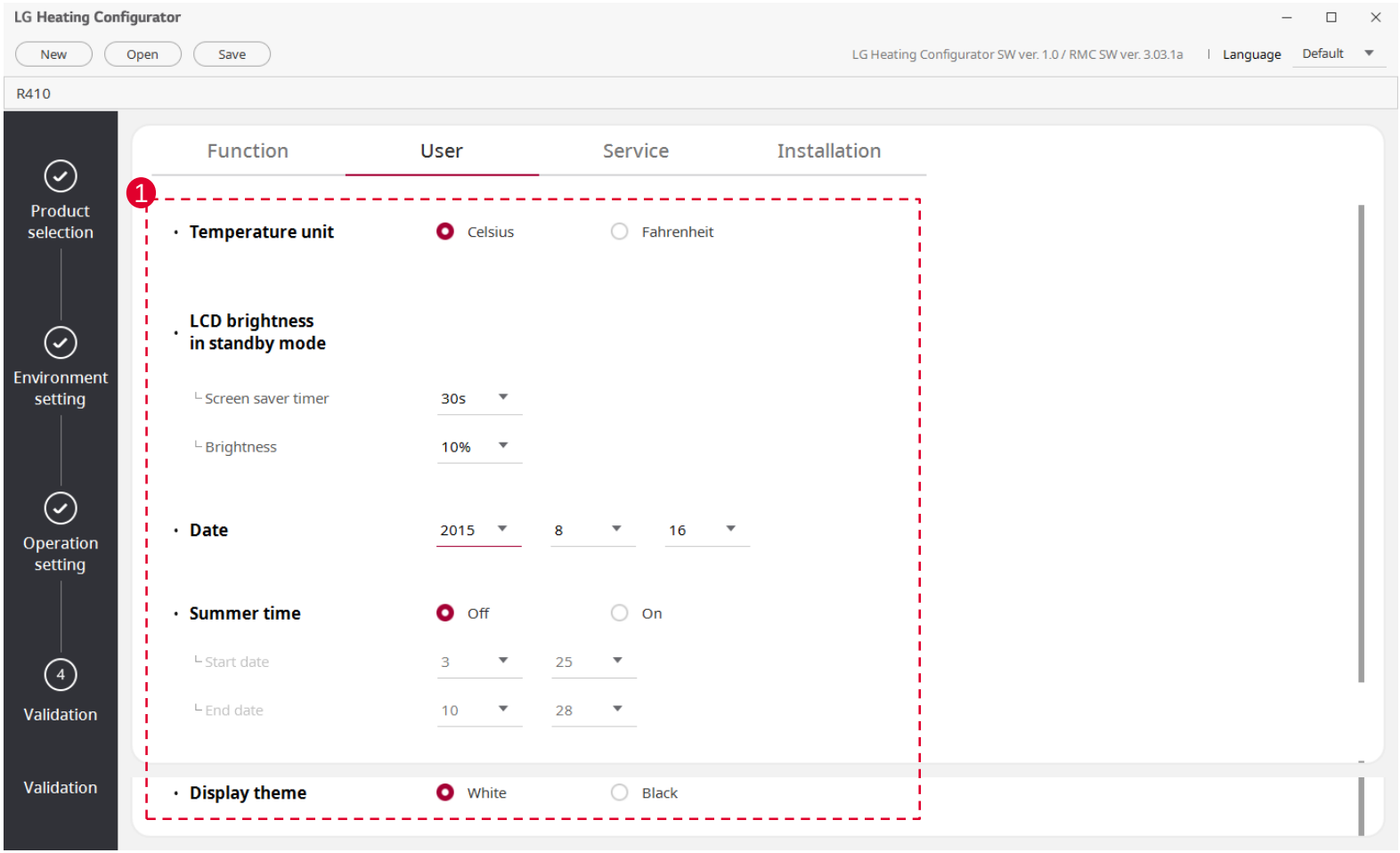
1. Environmental setting menus
2. DIP Switch setting guide
3. Locations of each DIP swtiches

9. 3rd step – set operation info. up (Function)



1 Environmental setting menus

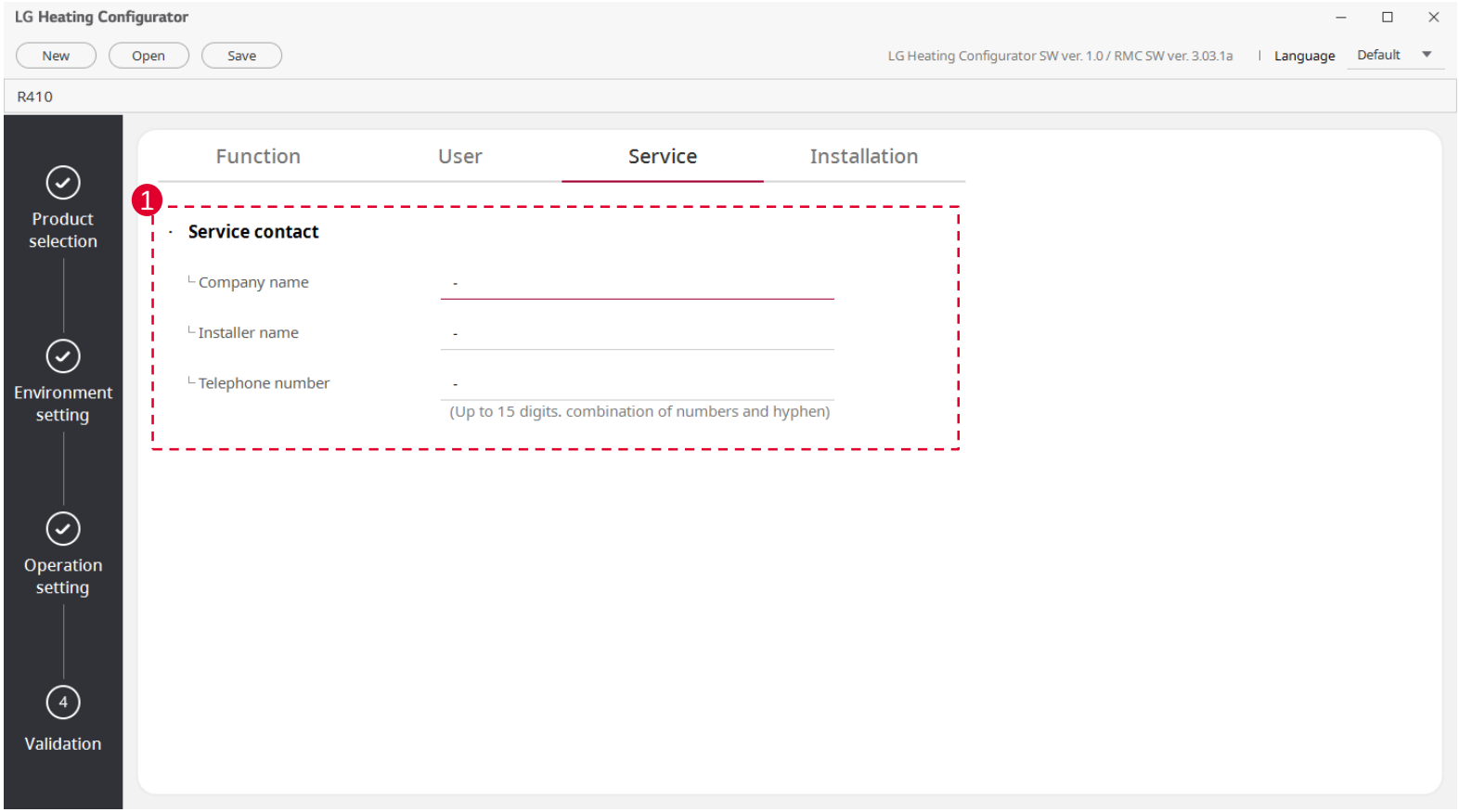
10. 3rd step – set operation info. up (User)



1 Environmental setting menus

11. 3rd step – set operation info. up (Service)

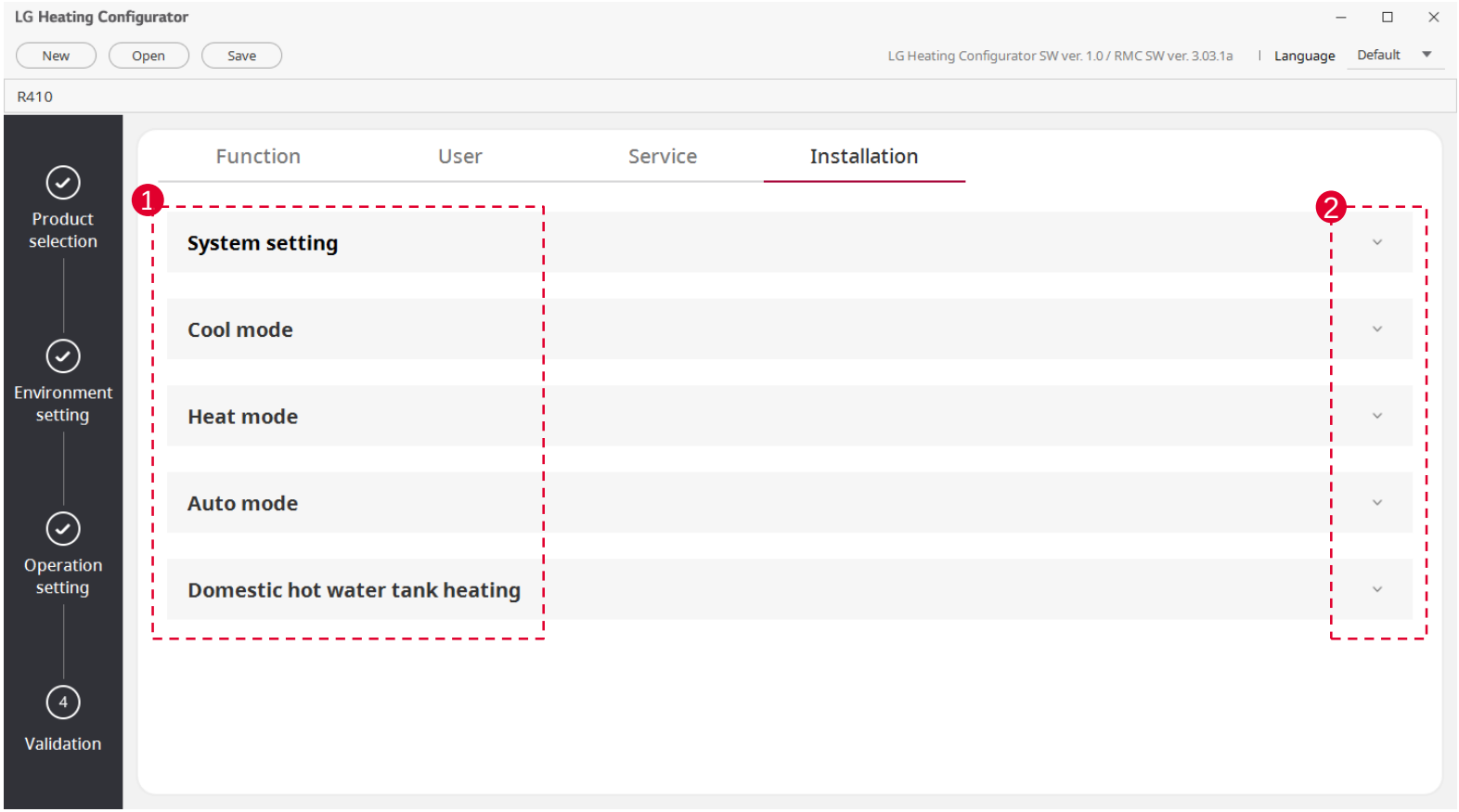
In Service tab, key in contact information of installer.



1 Environmental setting menus

12. 3rd step – set operation info. up (Installation)

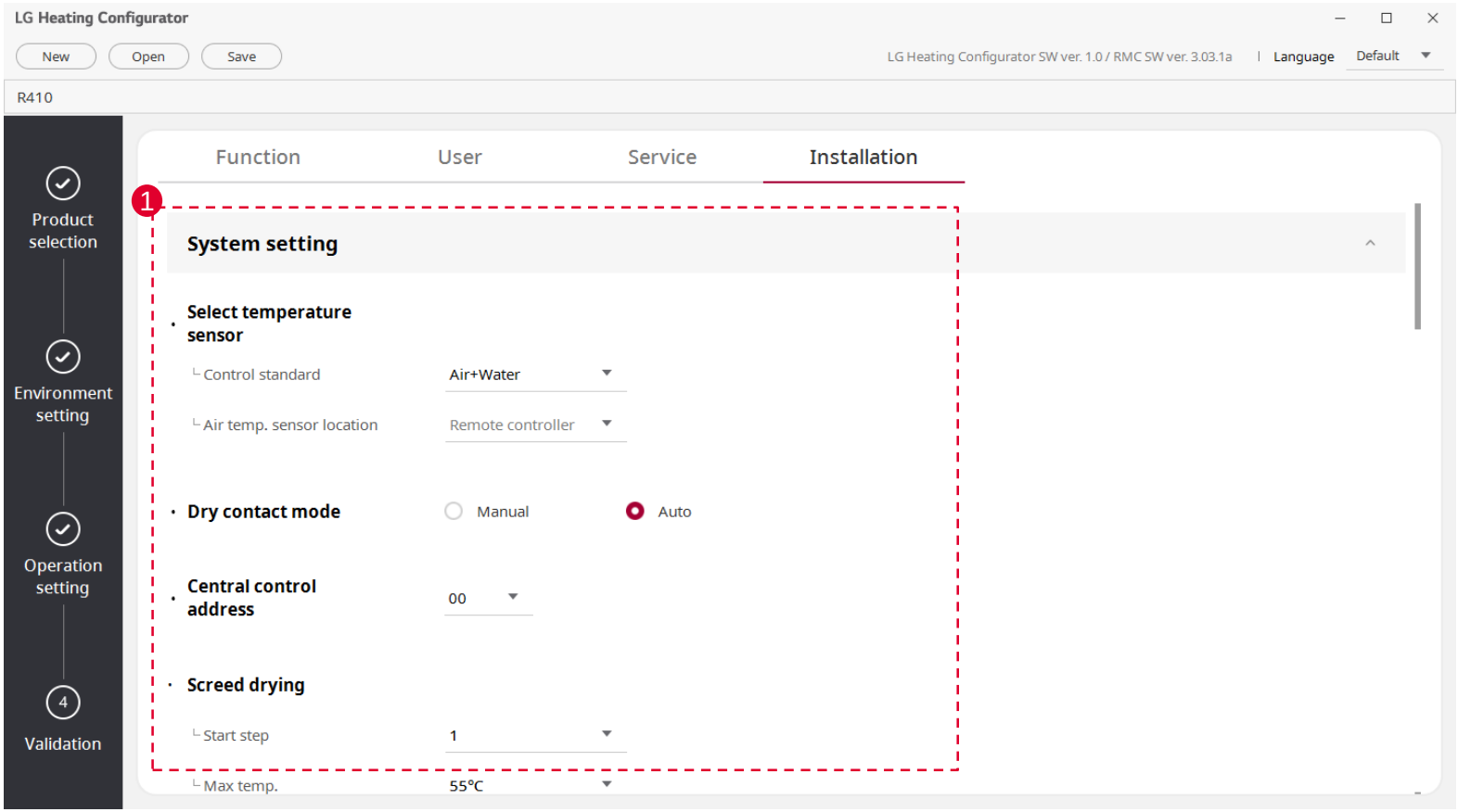
There are 5 categories(System setting, Cool mode, Heat mode, Auto mode and Domestic hot water tank heating) in Installation tab.
Each categories have several sub-menu and function inside title bar, can spread and fold all sub-setting menu as pushing the button.



1 Environmental setting menus

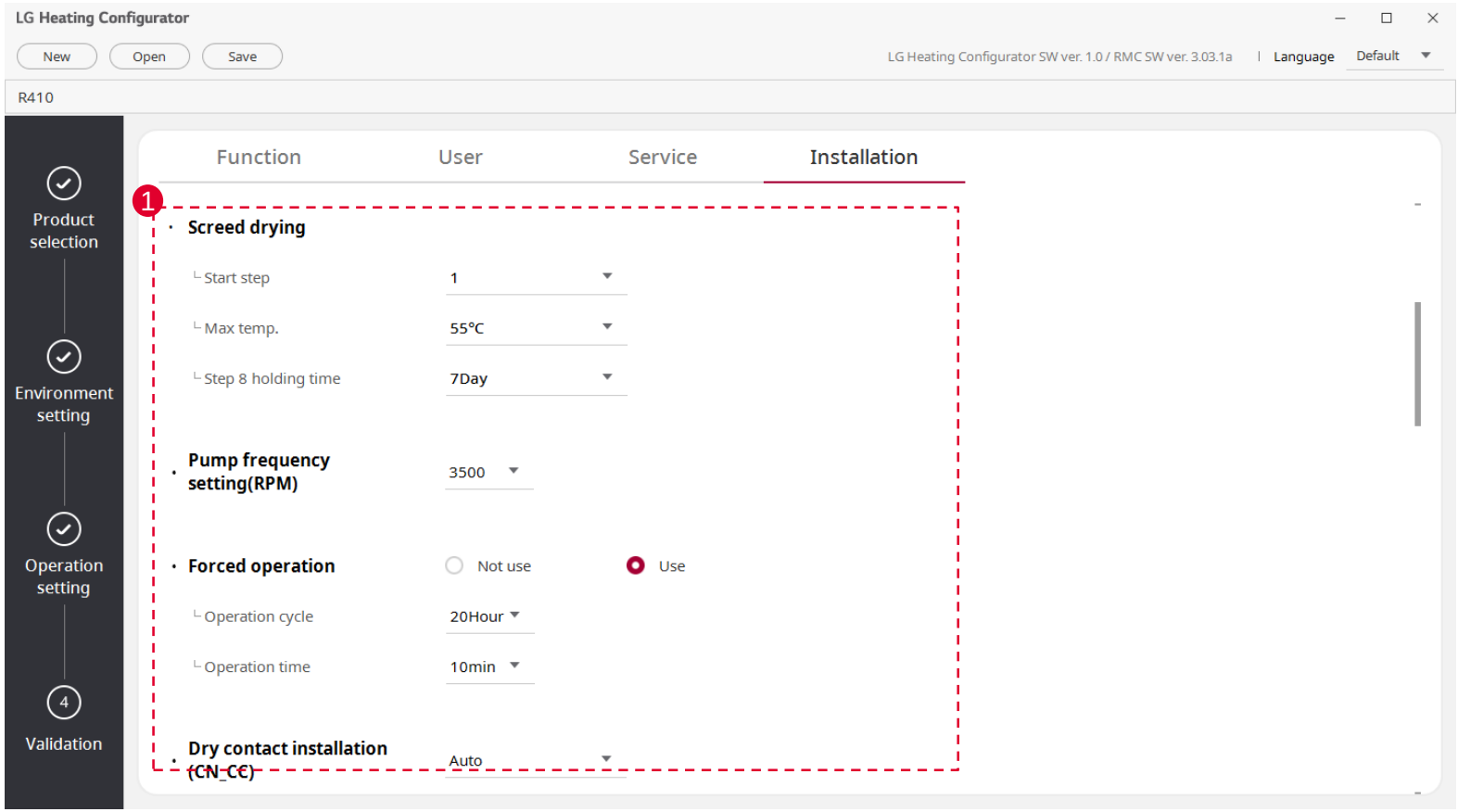
2 Folding buttons

13. 3rd step – set operation info. up (Installation_System Setting(1))



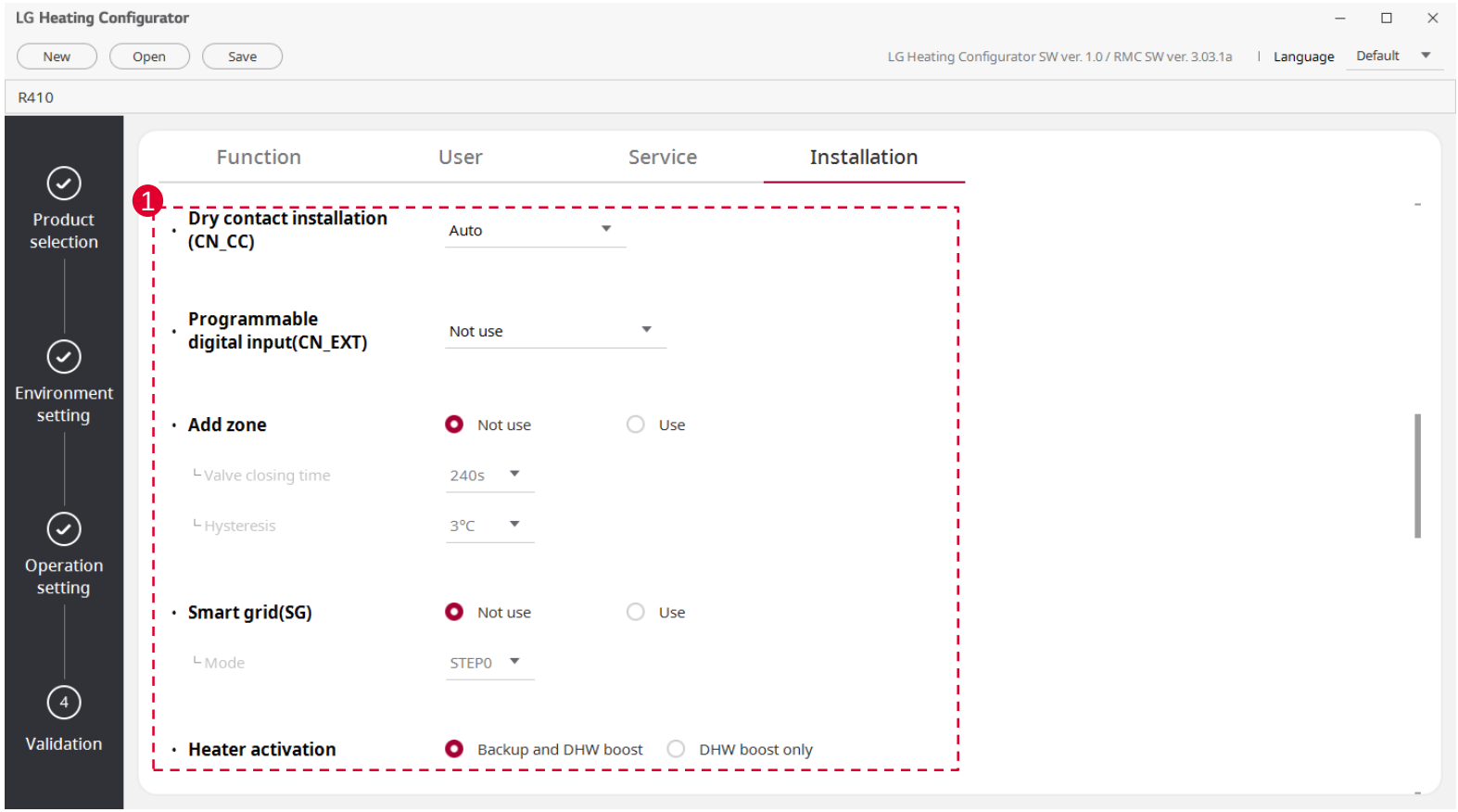
1 Environmental setting menus

13. 3rd step – set operation info. up (Installation_System Setting(2))



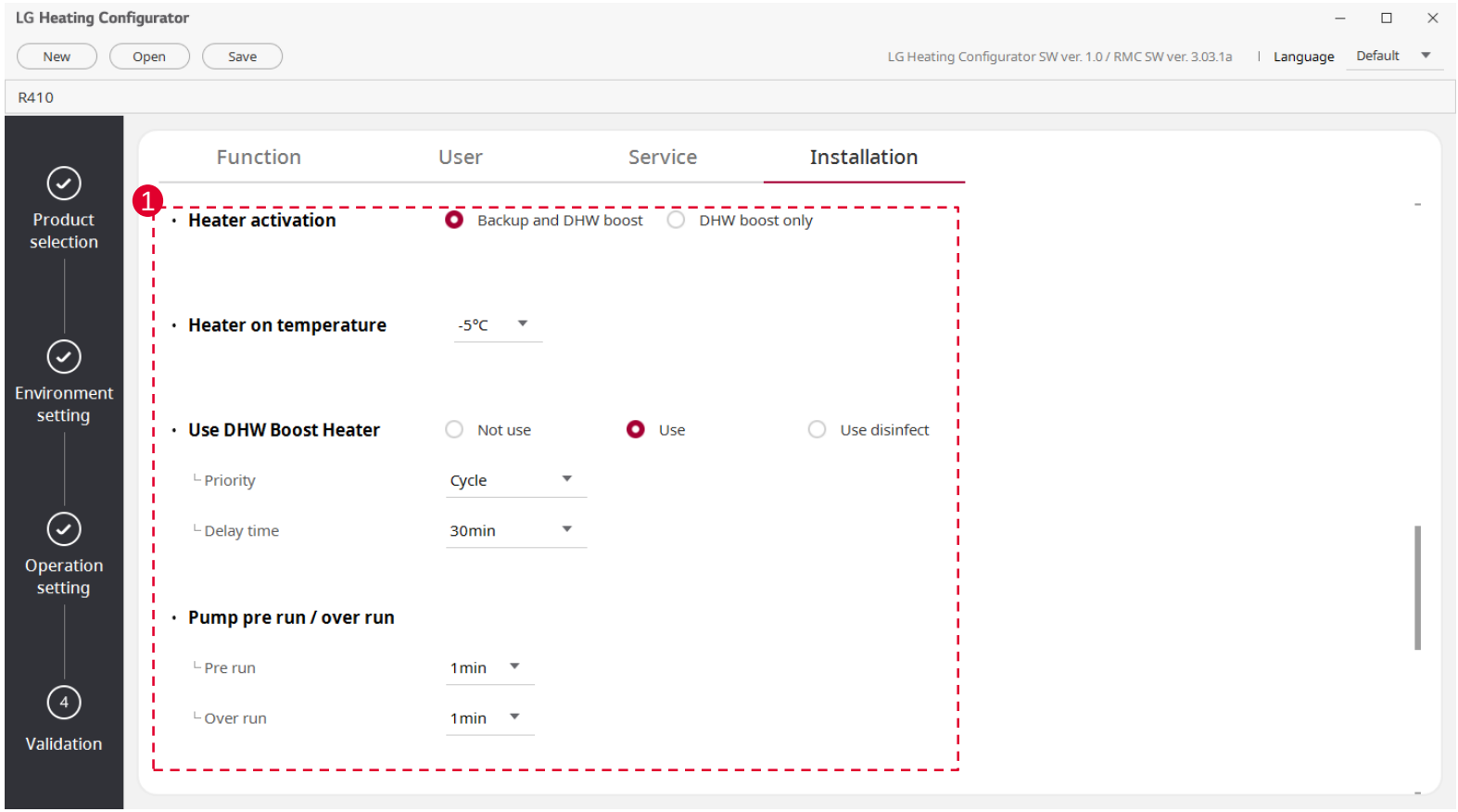
1 Environmental setting menus

13. 3rd step – set operation info. up (Installation_System Setting(3))



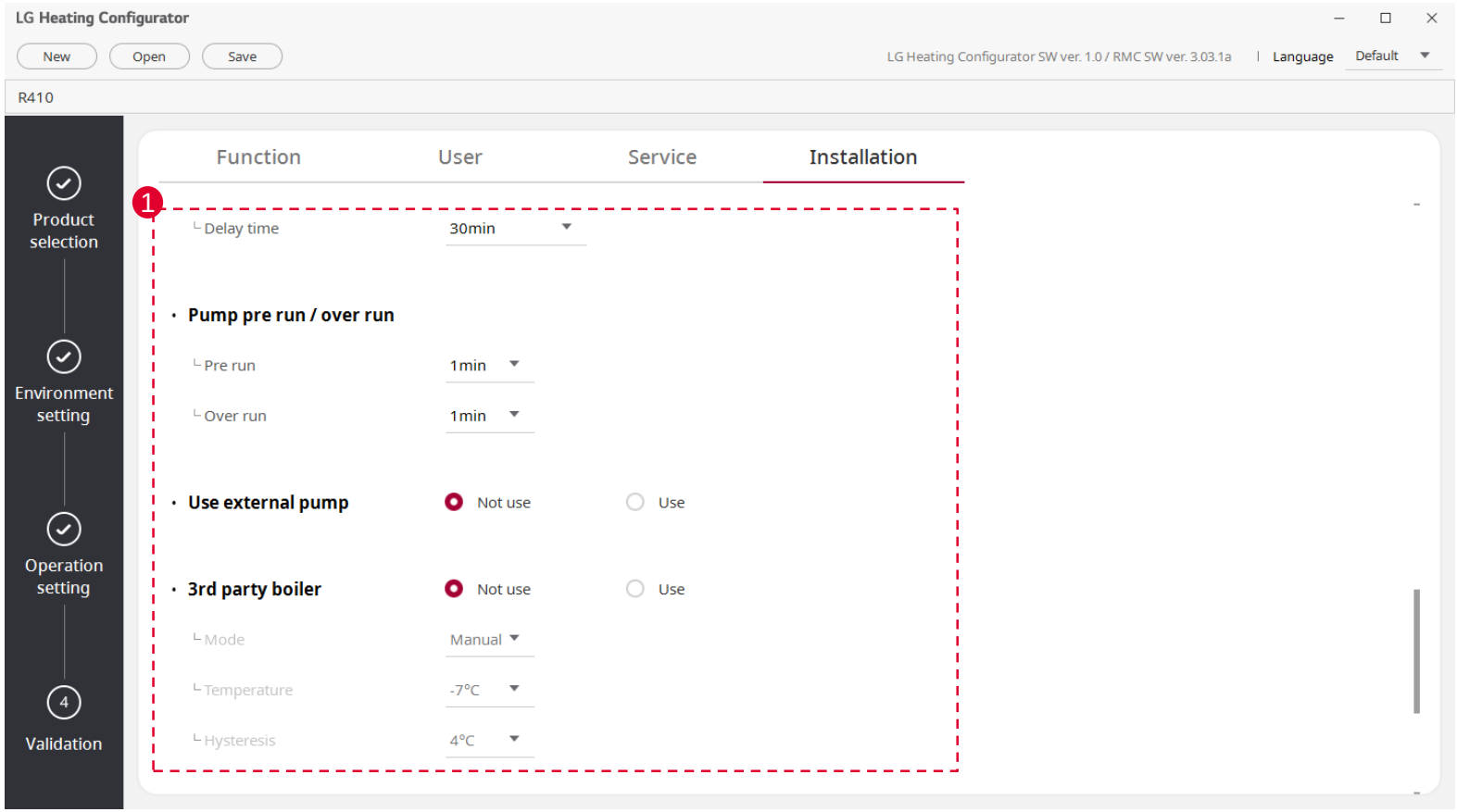
1 Environmental setting menus

13. 3rd step – set operation info. up (Installation_System Setting(4))



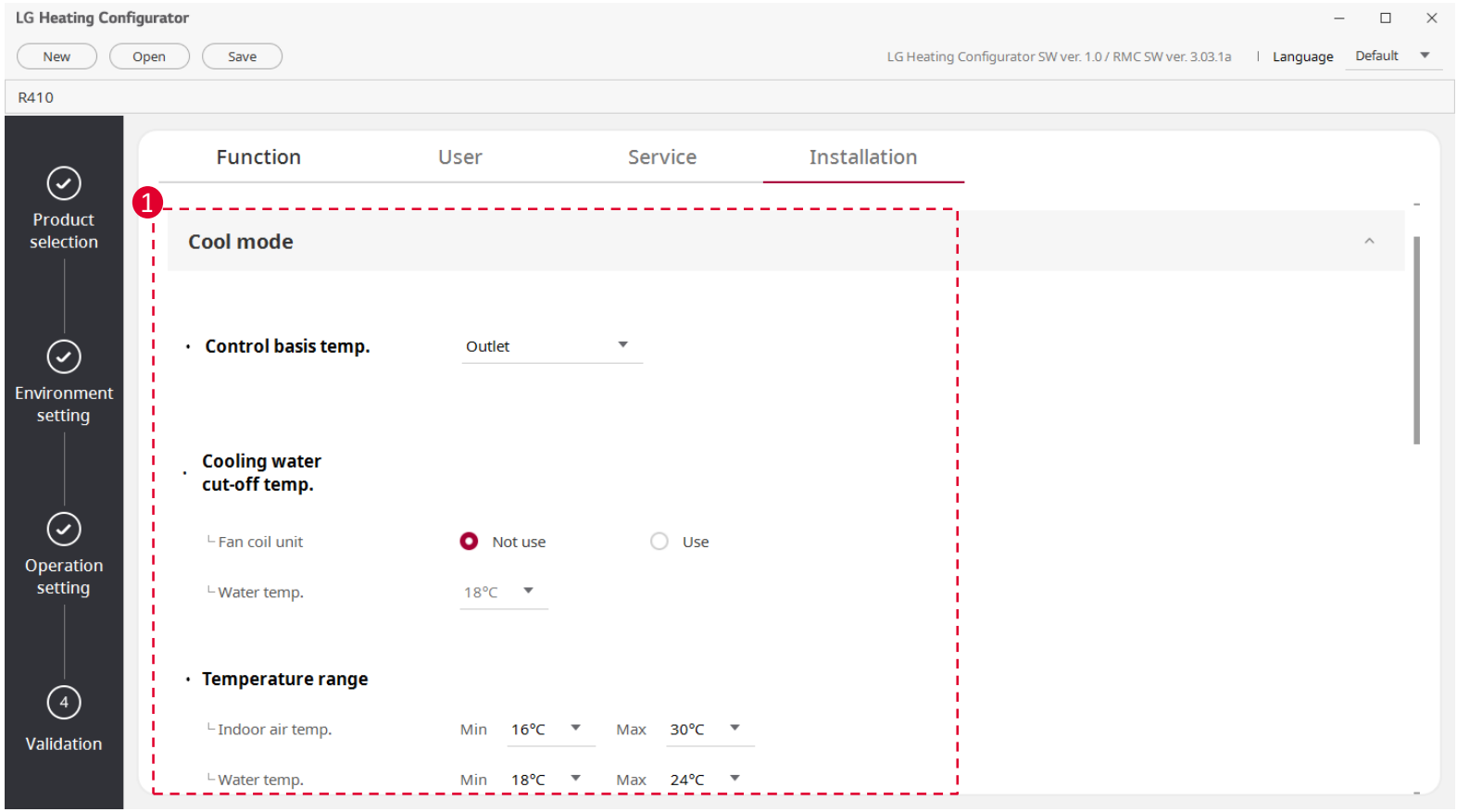
1 Environmental setting menus

13. 3rd step – set operation info. up (Installation_System Setting(5))



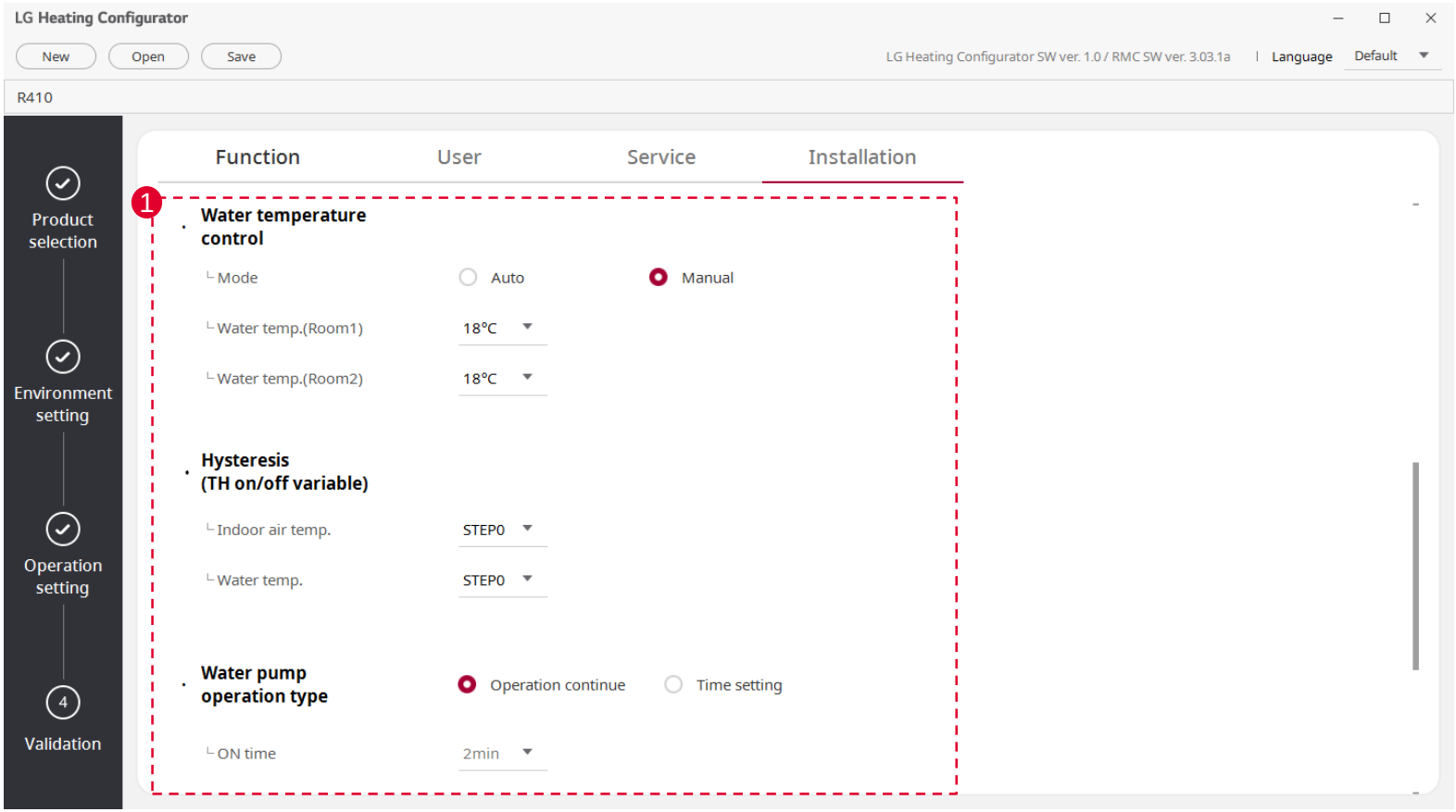
1 Environmental setting menus

14. 3rd step – set operation info. up (Installation_Cool mode(1))



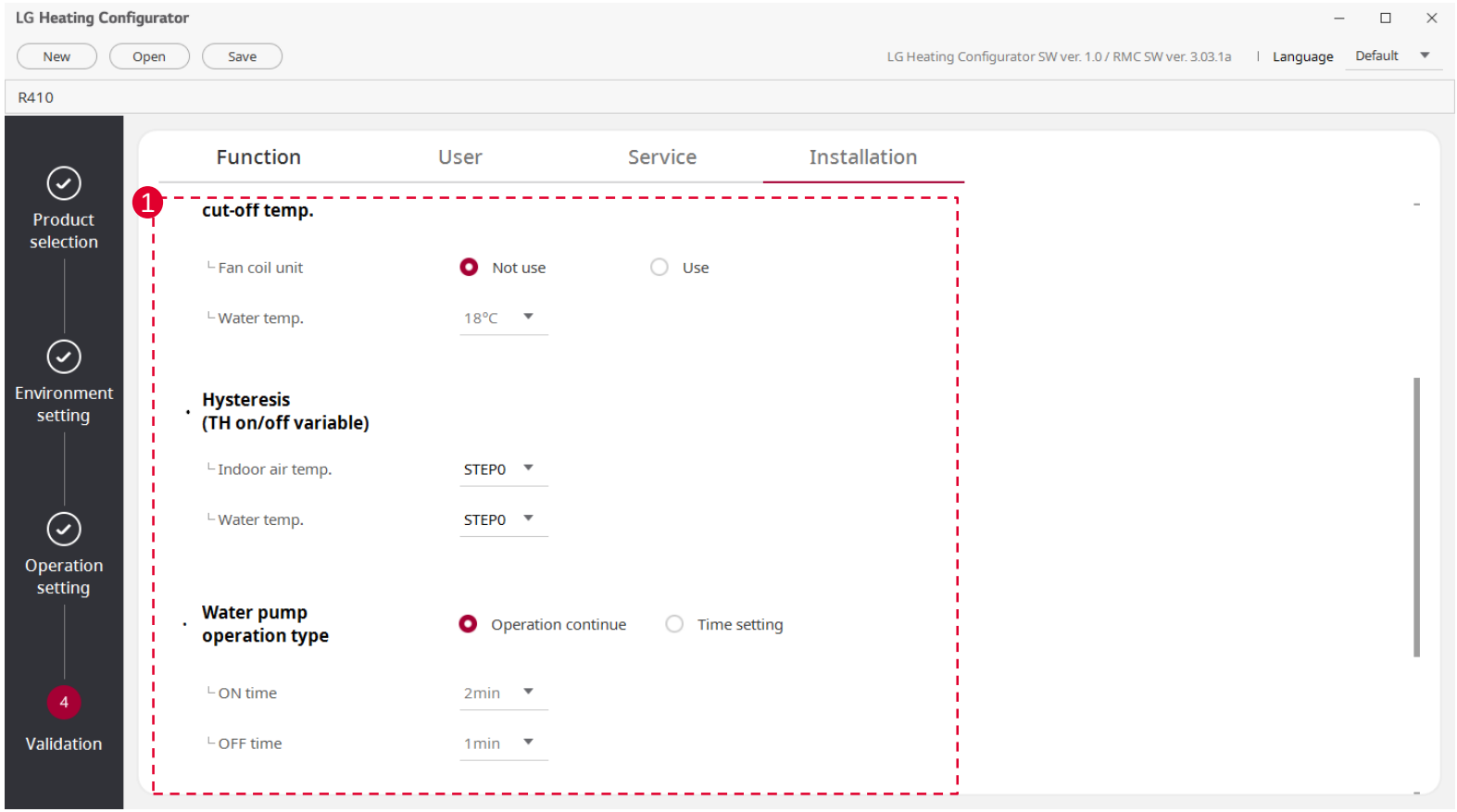
1 Environmental setting menus

14. 3rd step – set operation info. up (Installation_Cool mode(2))



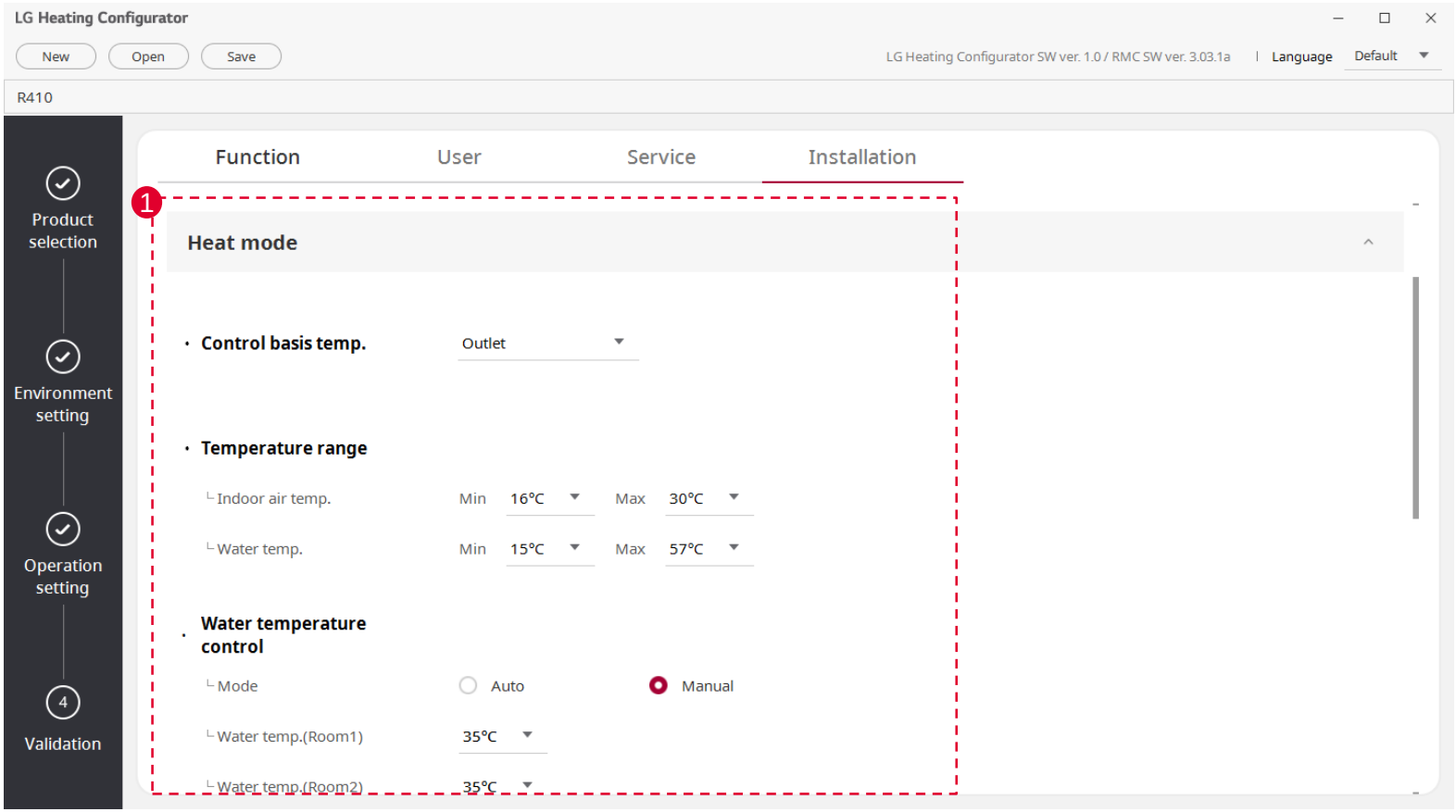
1 Environmental setting menus

14. 3rd step – set operation info. up (Installation_Cool mode(3))



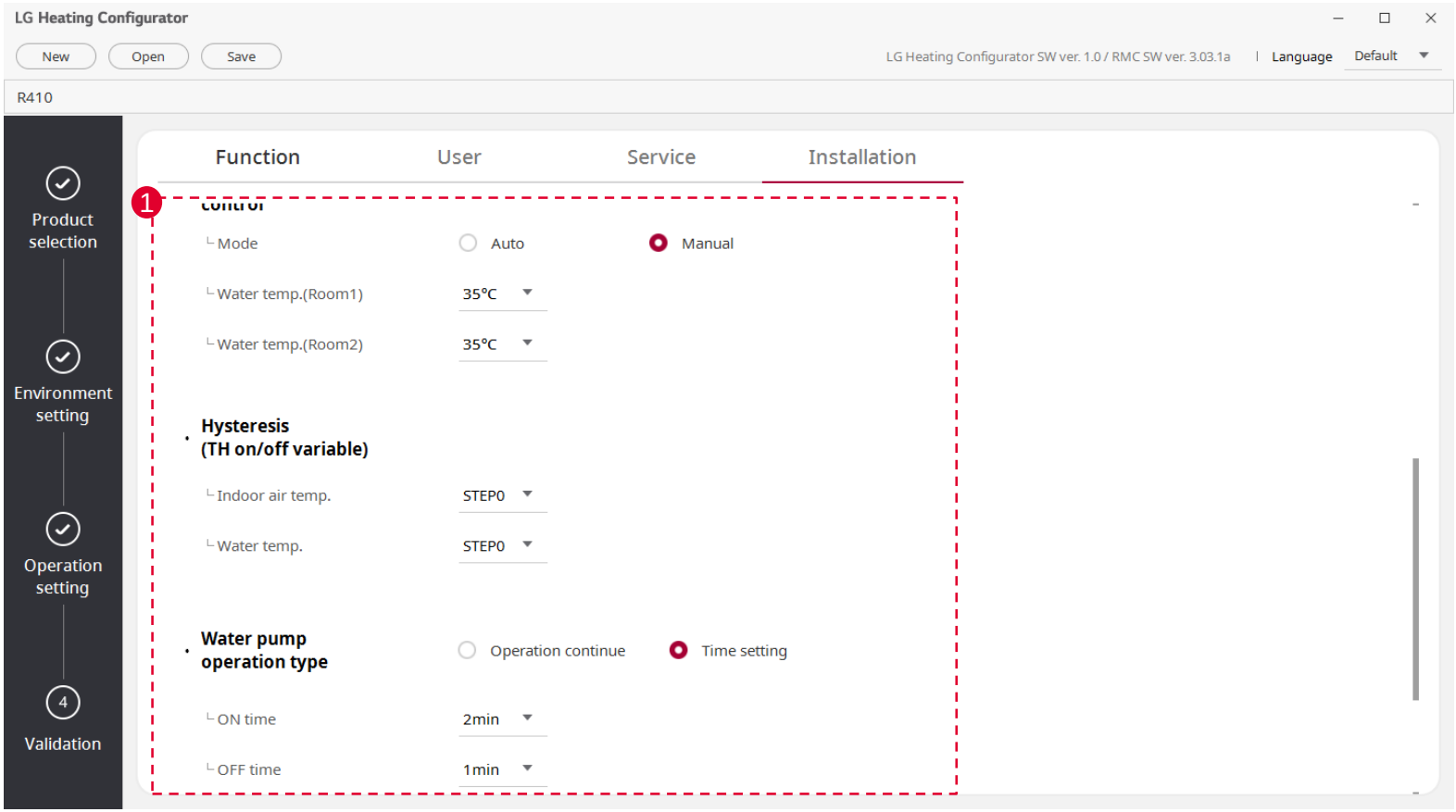
1 Environmental setting menus

15. 3rd step – set operation info. up (Installation_Heat mode(1))



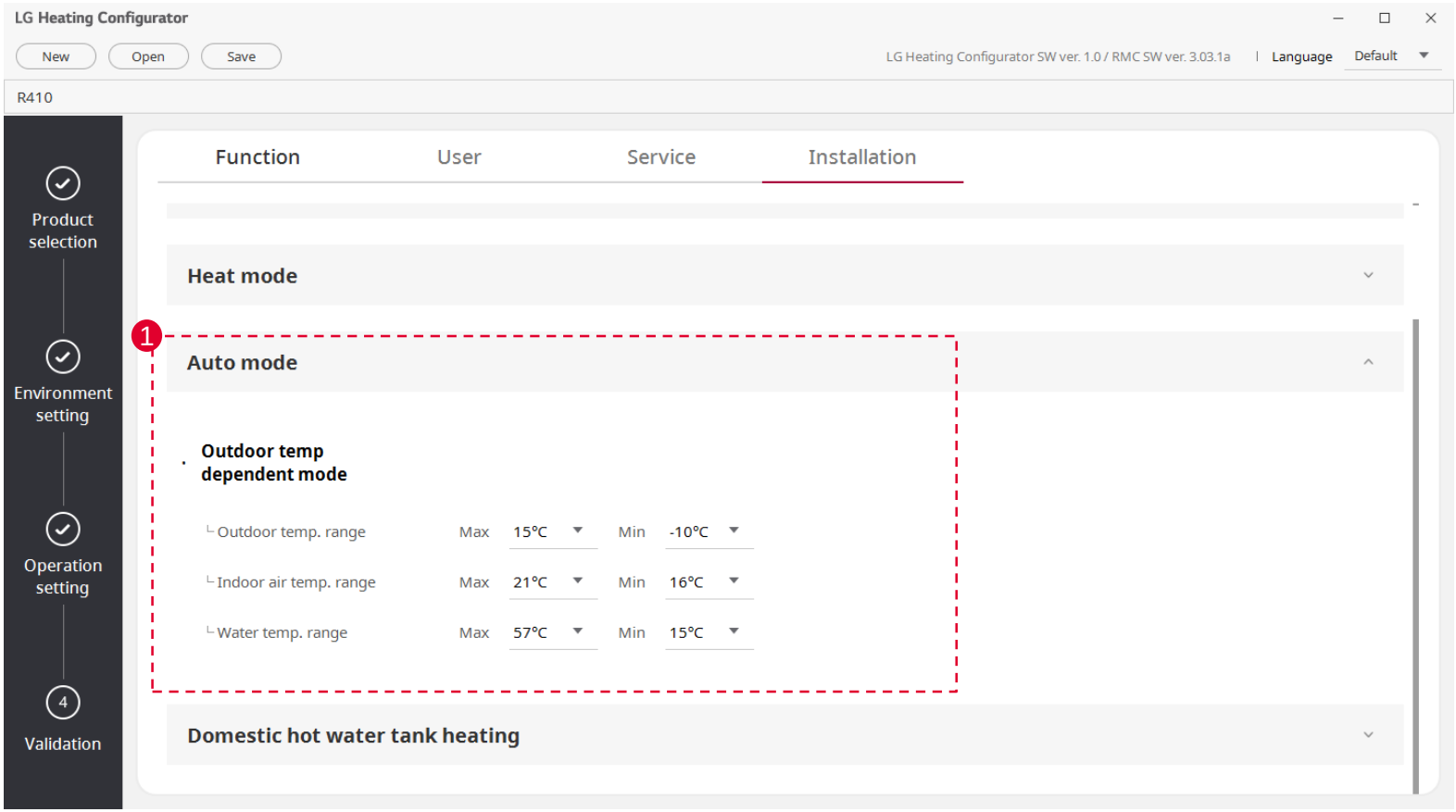
1 Environmental setting menus

15. 3rd step – set operation info. up (Installation_Heat mode(2))



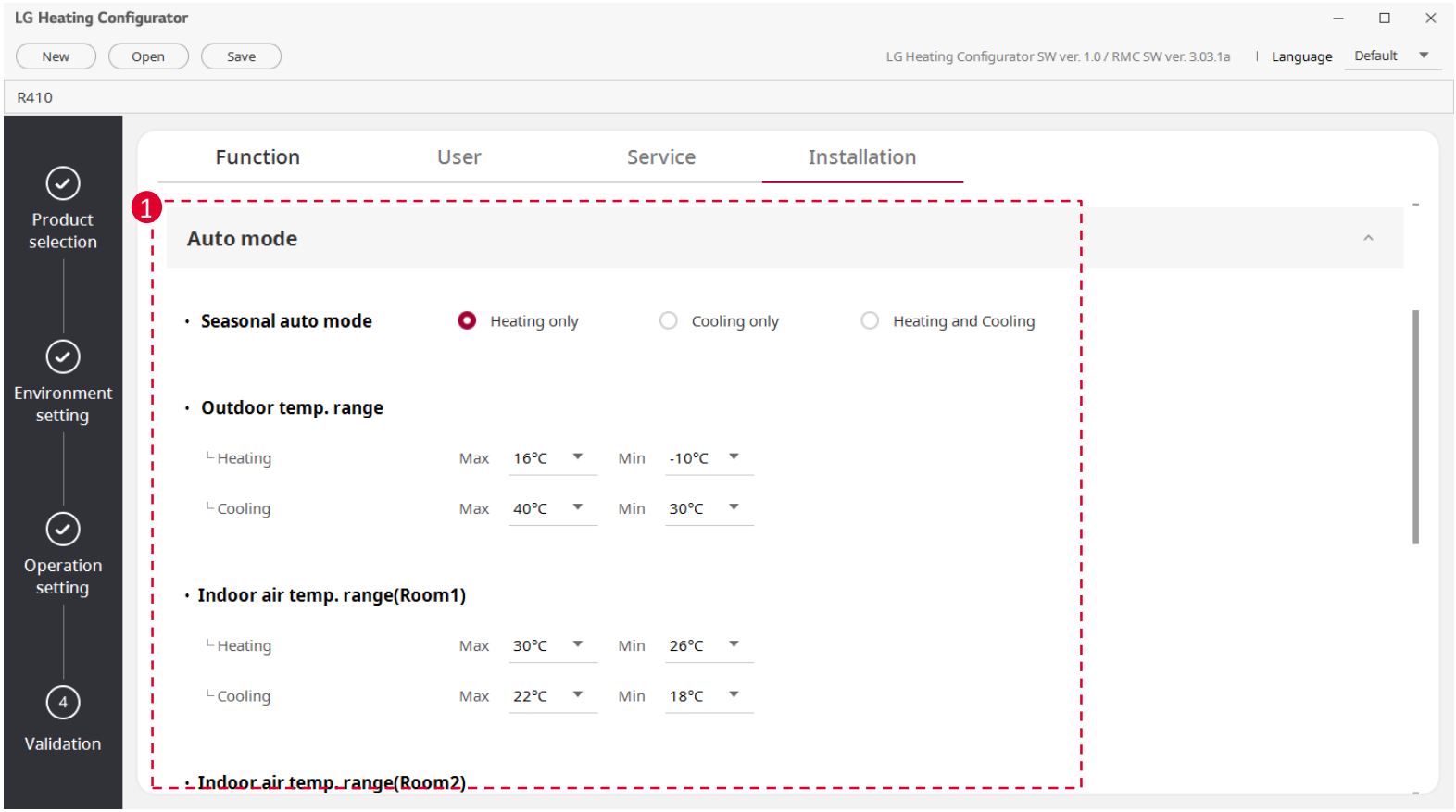
1 Environmental setting menus

16. 3rd step – set operation info. up (Installation_Auto mode(1))



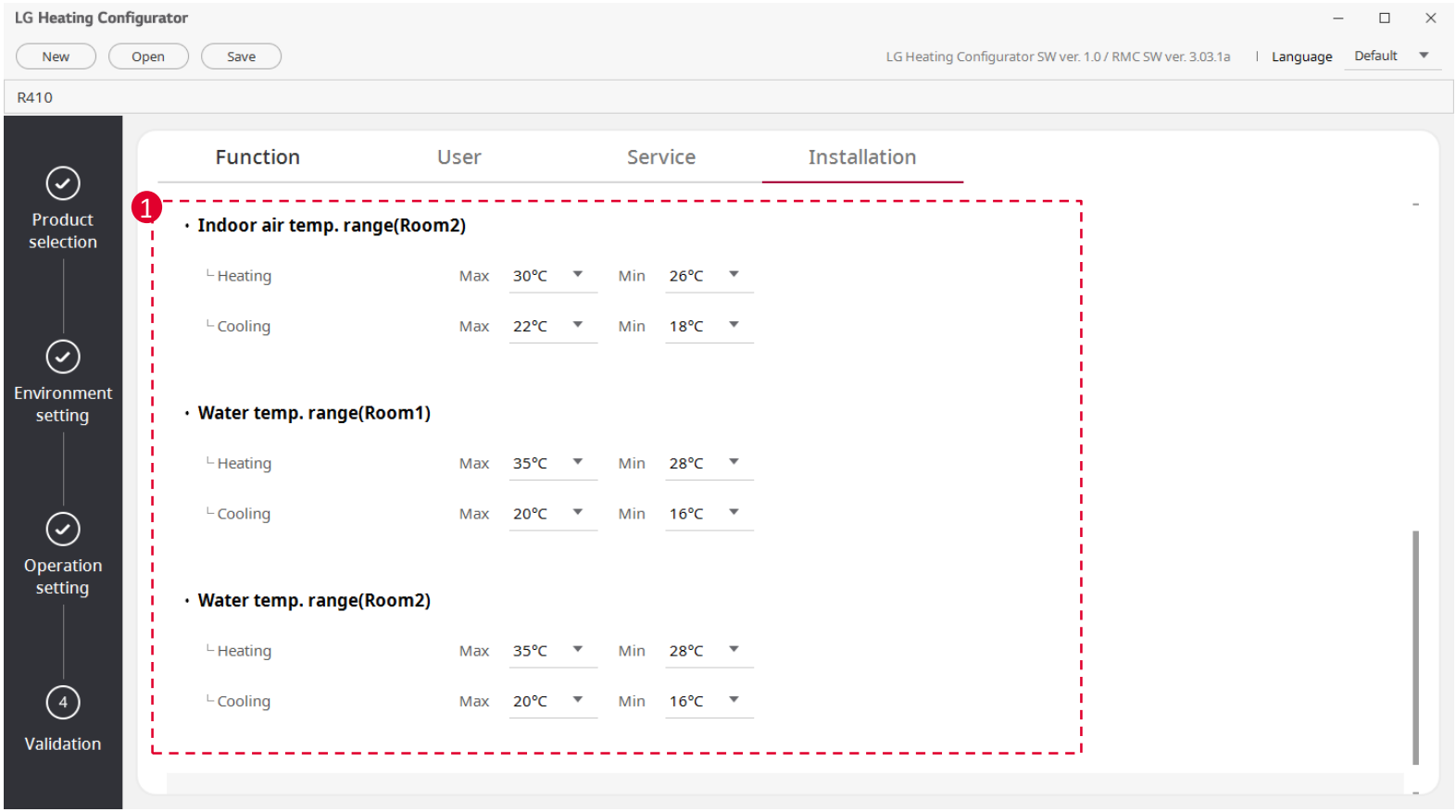
1 Environmental setting menus

16. 3rd step – set operation info. up (Installation_Auto mode(2))



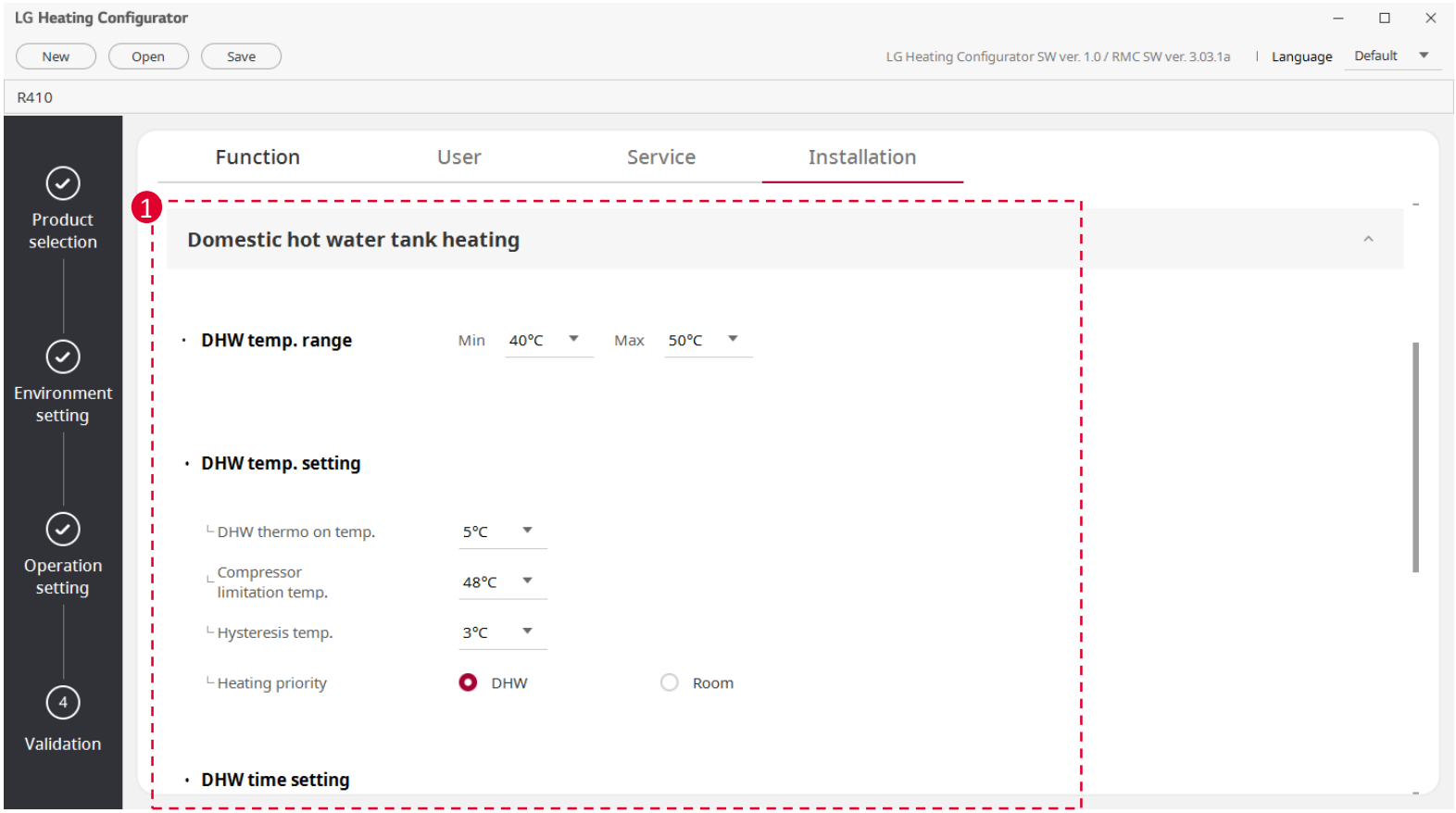
1 Environmental setting menus

16. 3rd step – set operation info. up (Installation_Auto mode(3))



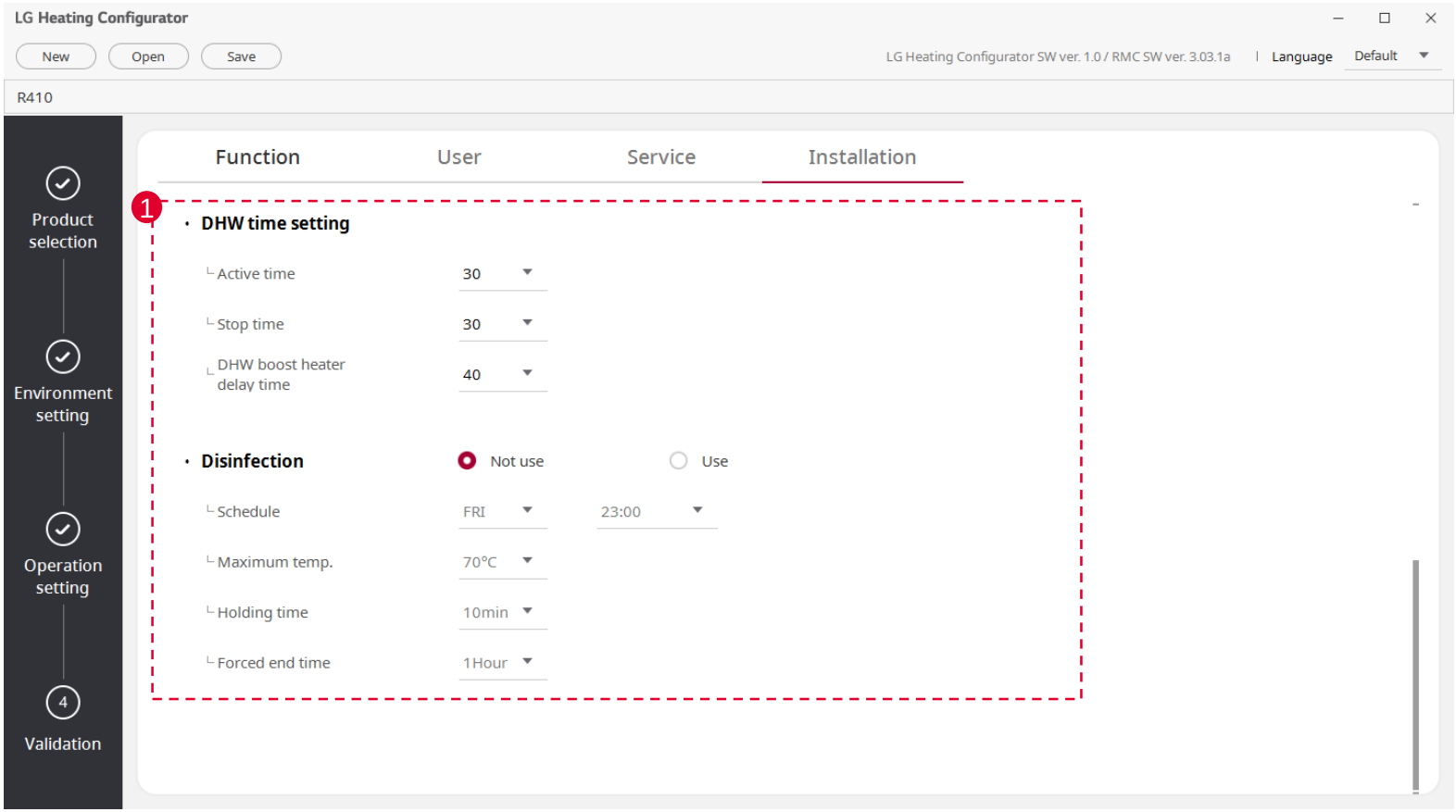
1 Environmental setting menus

17. 3rd step – set operation info. up (Installation_DHW mode(1))



1 Environmental setting menus

17. 3rd step – set operation info. up (Installation_DHW mode(2))



1 Environmental setting menus

18. Easy Commissioning PC Tool

Automatically reflects on-site installation information via micro SD memory card with wired remote controller

❑ Concept

- In Office
  - ① Make configuration file with PC tool based on on-site installation information
  - ② Save setting information as a file and copy it to mini SD card



- In Site
  - ① Insert mini SD card on back of RS3 wired remote controller at the site
  - ② Reflect configuration information with read function of installer setting





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