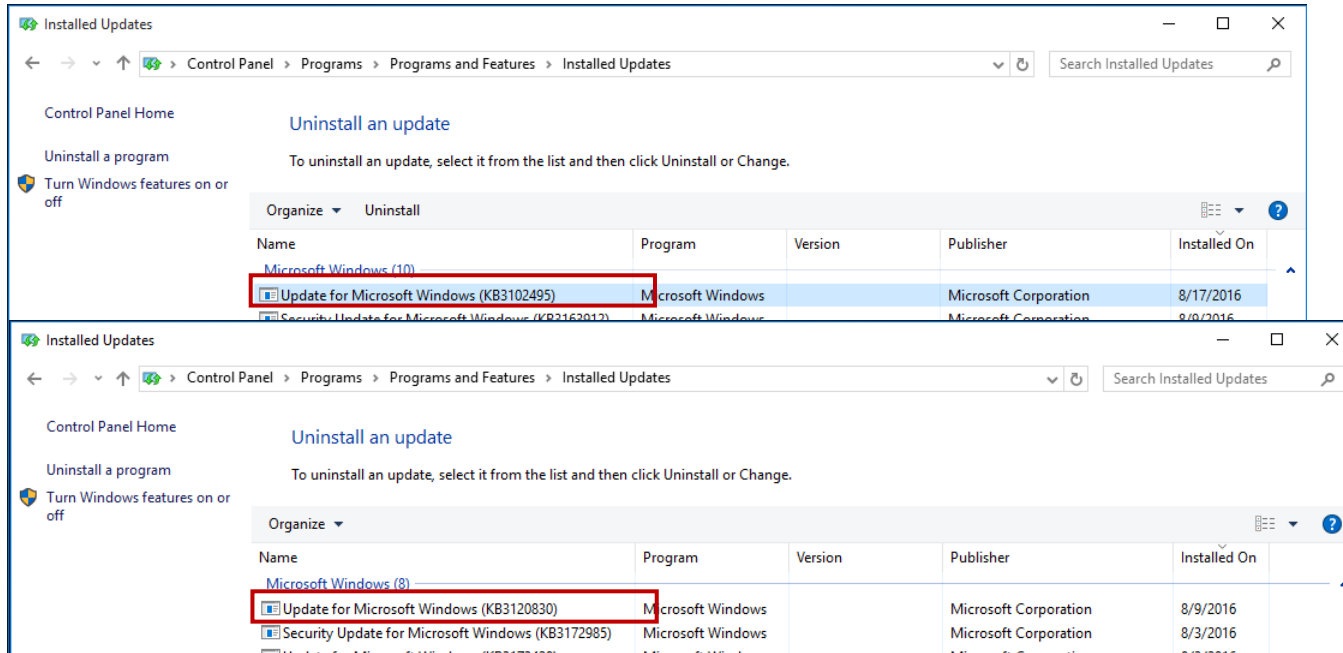


# FUJITSU GENERAL Design Simulator (FGDS)software





To start this software, Microsoft. Software named ".Net Framework4.6.1" is necessary.

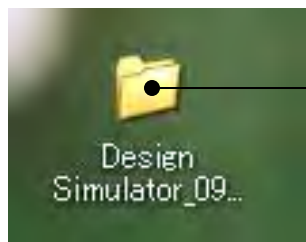
Please confirm whether there is software in the program that exists in the control panel of your PC.

If it is not installed, the installation method is described on the following website.

<https://www.microsoft.com/en-US/download/details.aspx?id=49982>

Refer to the following to install Design Simulator.

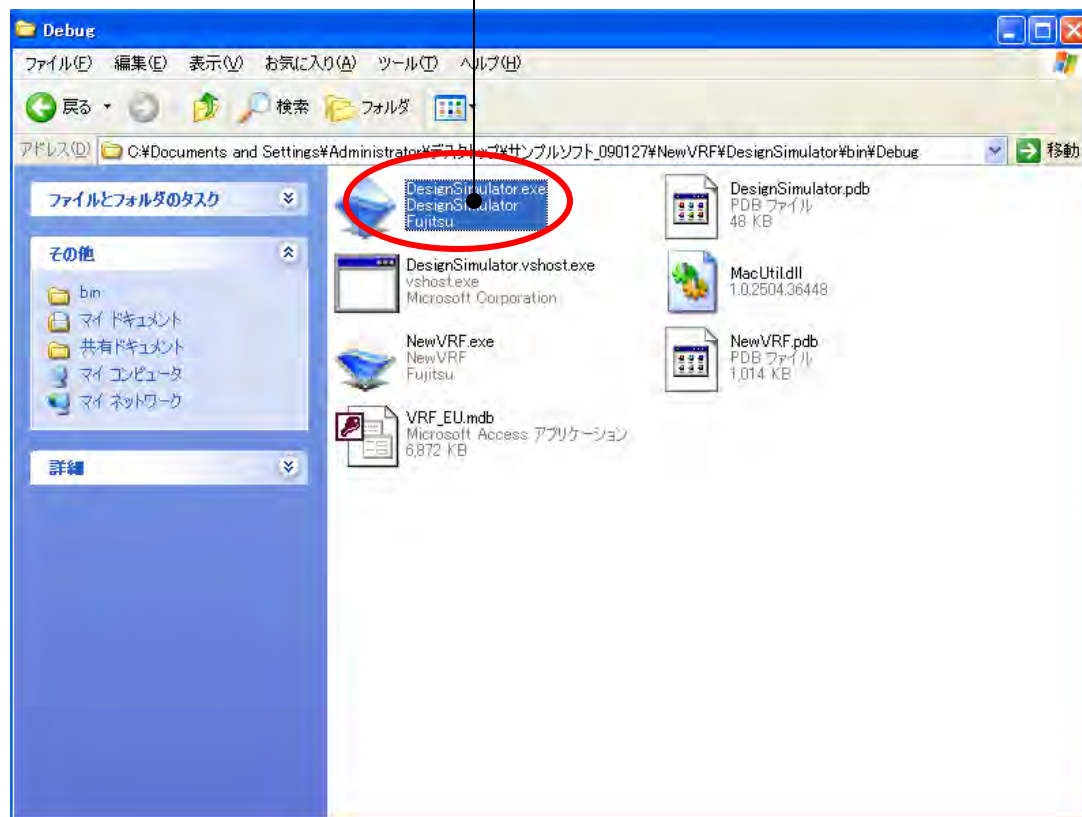
[https://ssl.fujitsu-general.com/global/support/tool/data/appendix\\_vrf/20170525/ds\\_install-manual.pdf](https://ssl.fujitsu-general.com/global/support/tool/data/appendix_vrf/20170525/ds_install-manual.pdf)



**Download from Design Simulator folder**



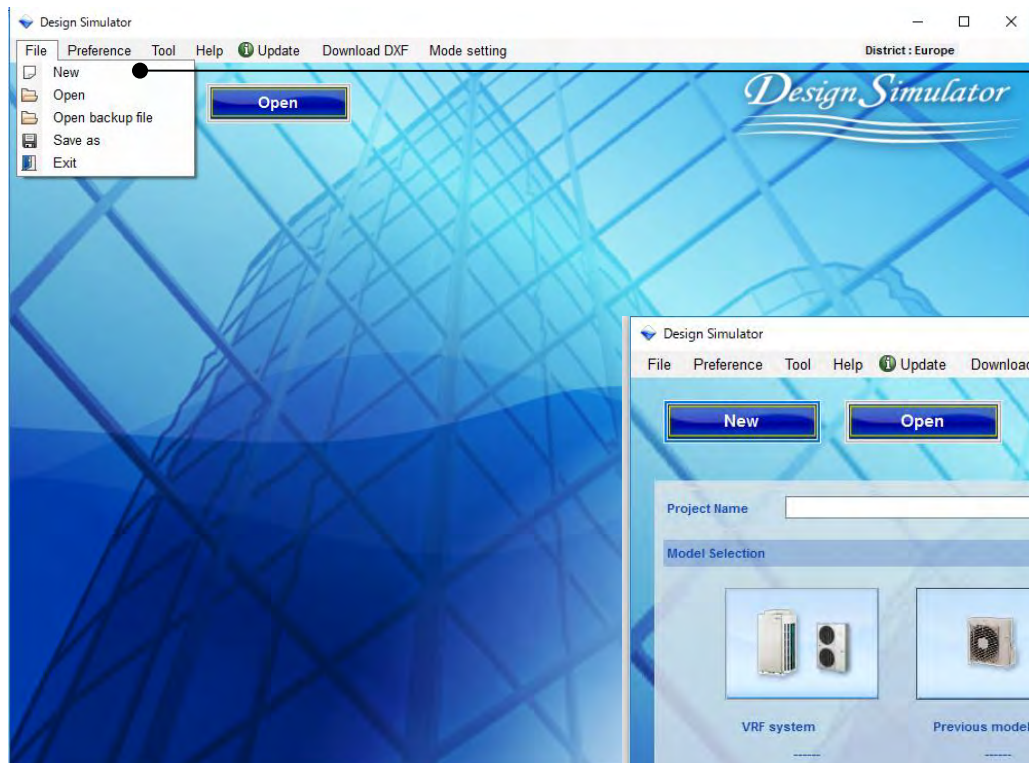
**Click Design Simulator exe.**



# Initial settings (File)

## Design Simulator

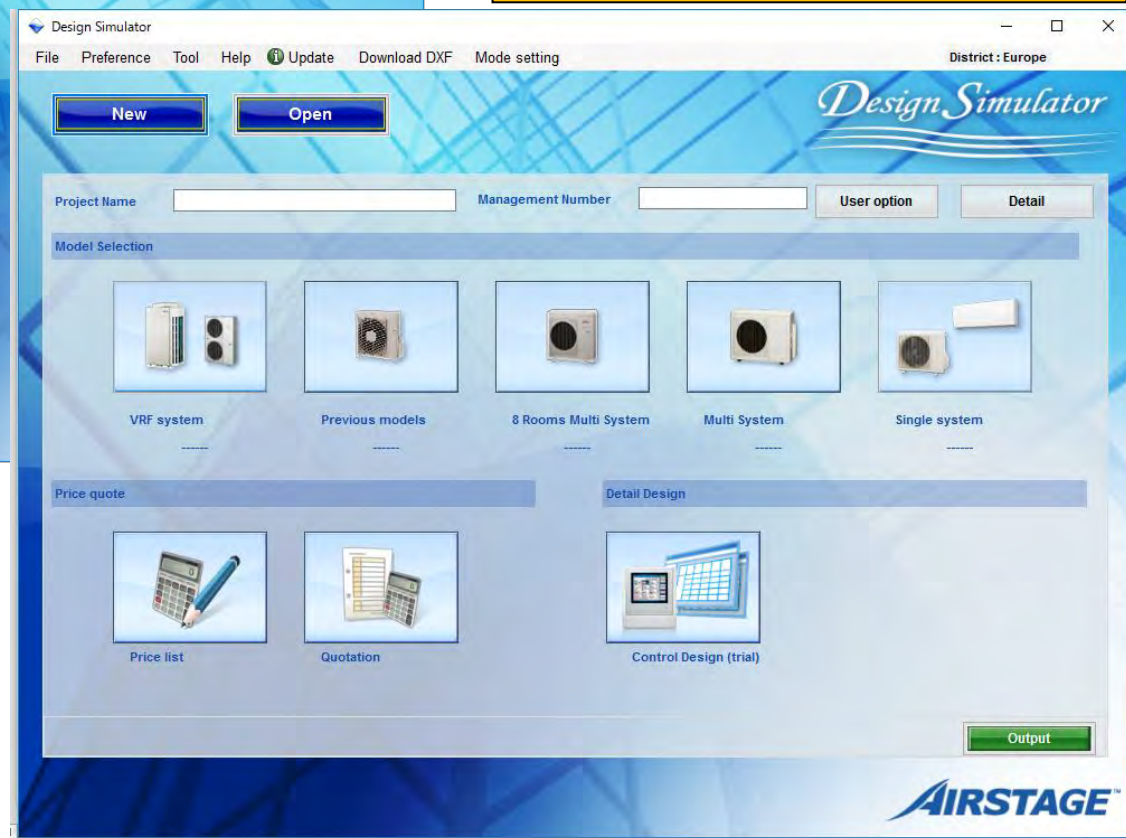
New



Select "New"



A new project of Design Simulator opens

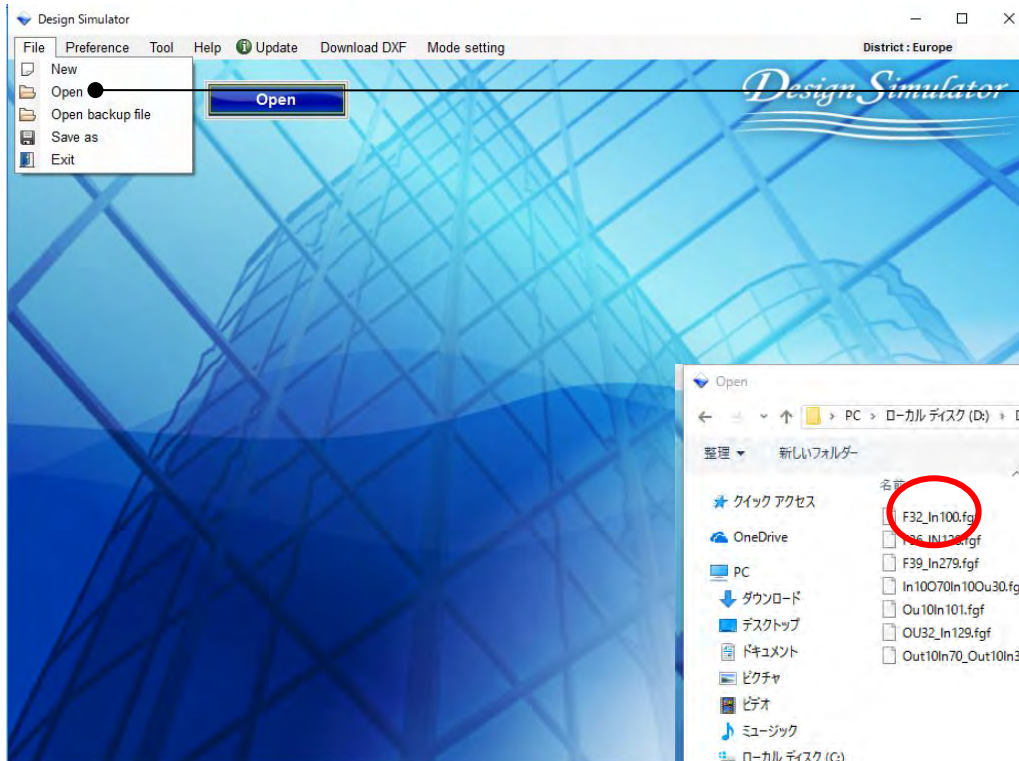




# Initial settings (File)

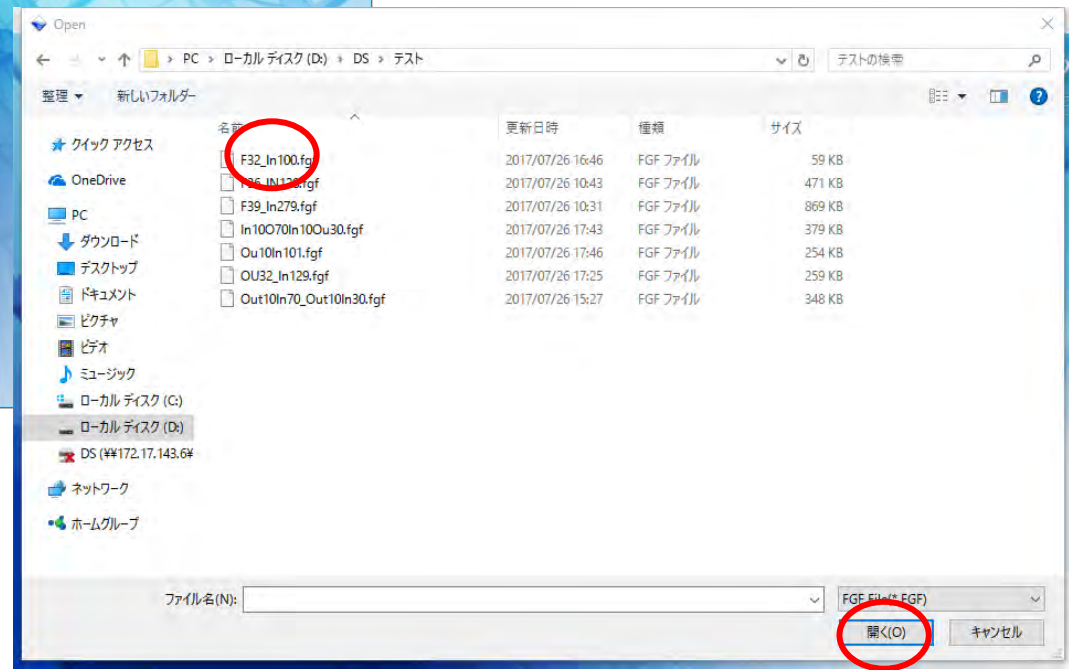
## Design Simulator

Open



Select "Open"

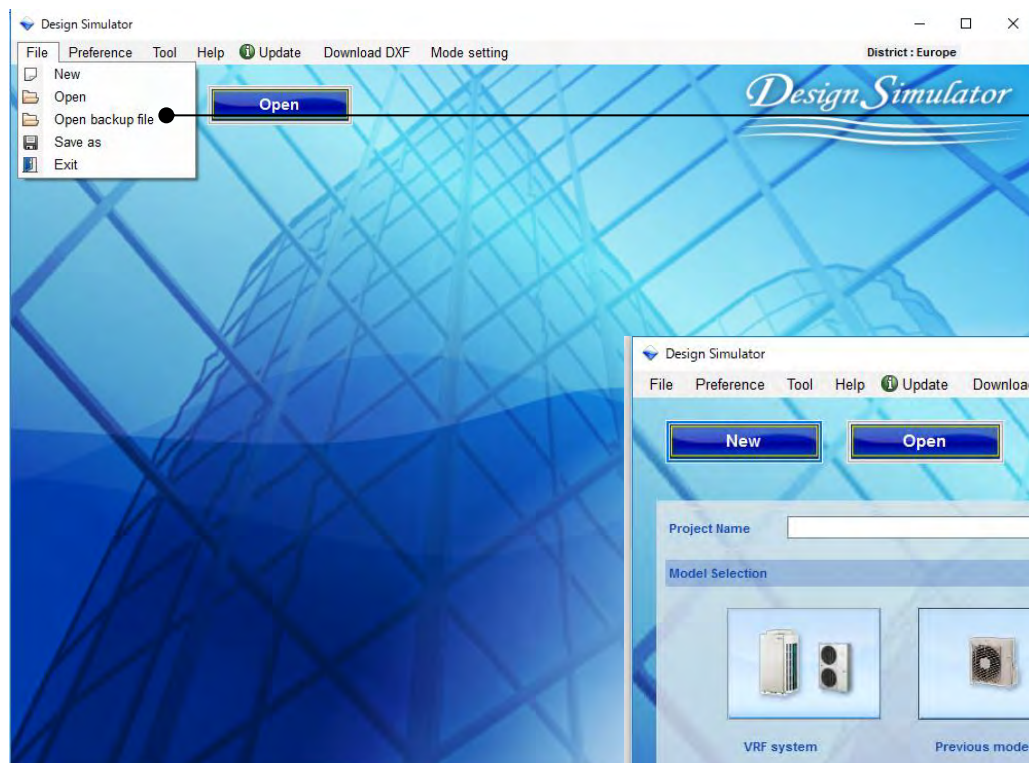
The project files you have created can be read



# Initial settings (File)

## Design Simulator

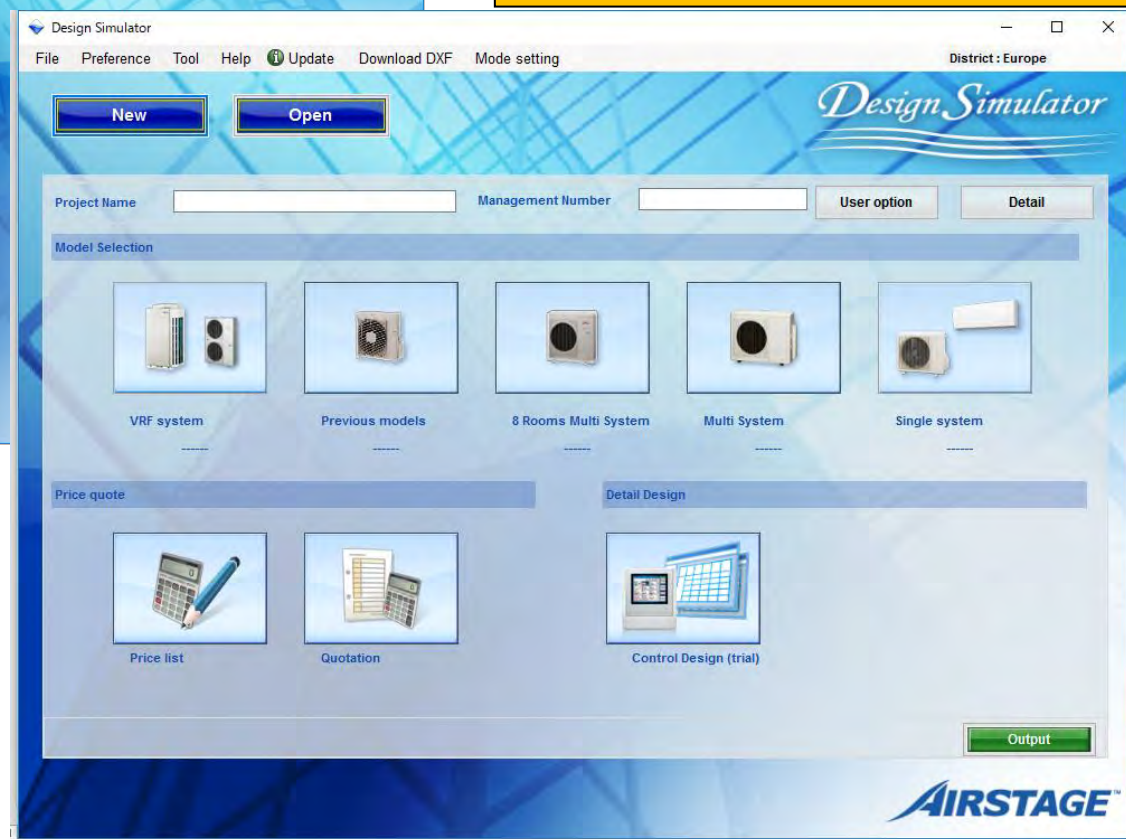
### Open backup File



Select "Openbackup file"



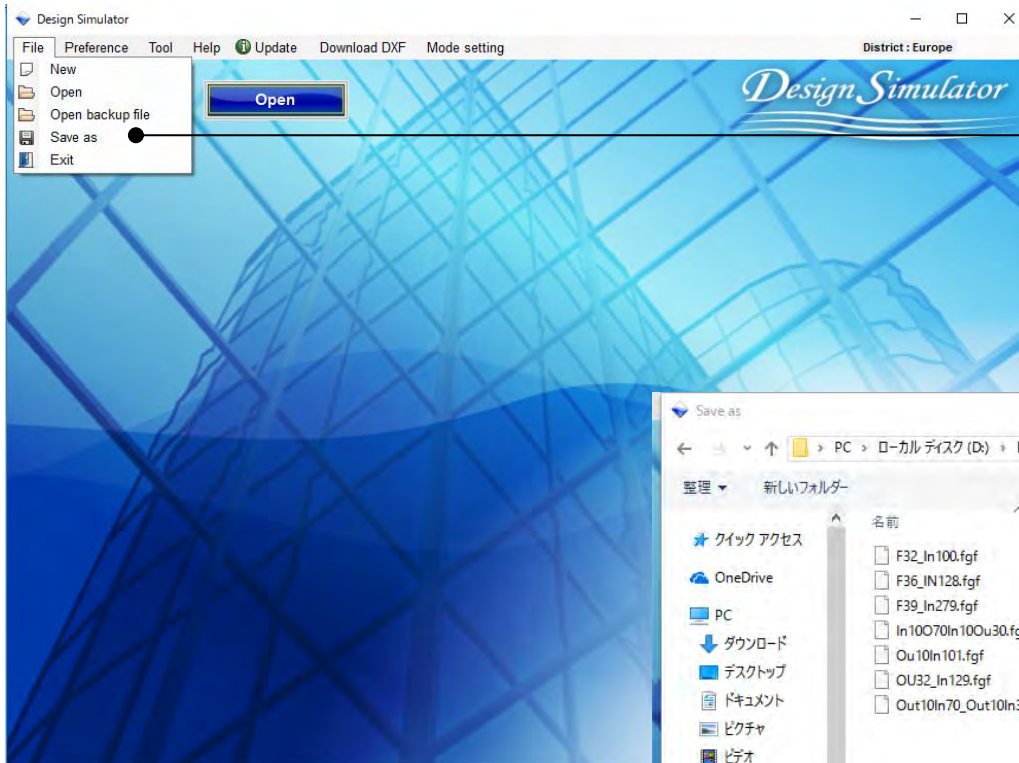
Read the data created by the auto save



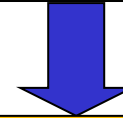
# Initial settings (File)

## Design Simulator

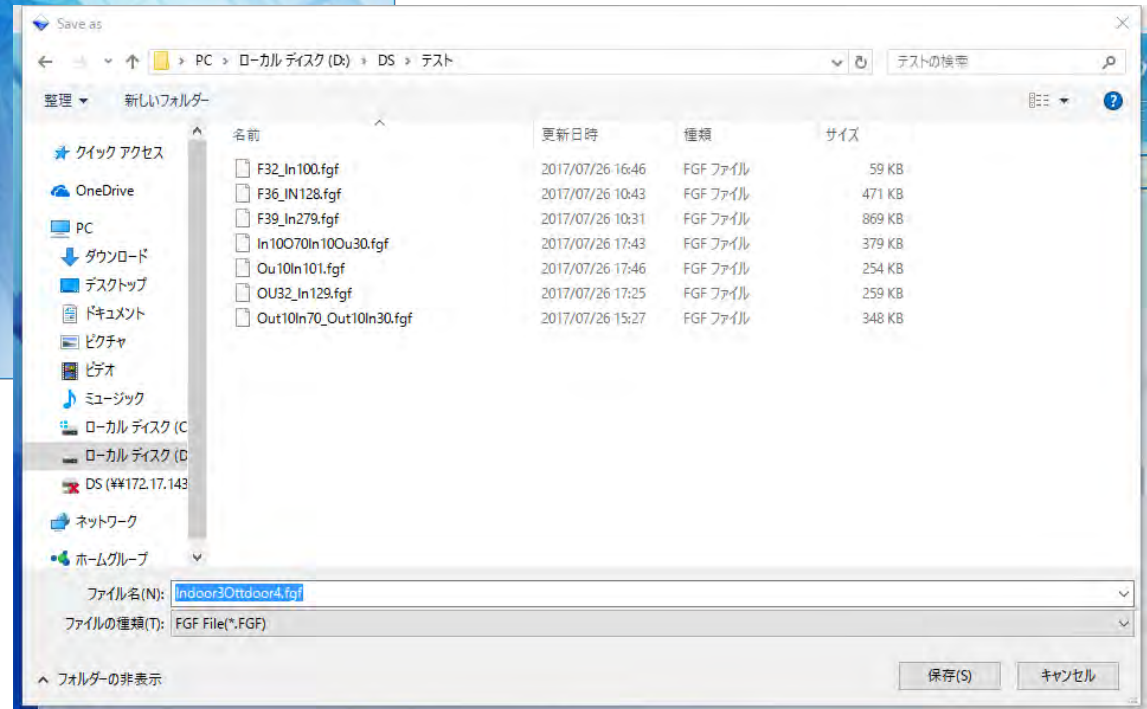
Save as



Select "Save as"



The project file can be saved

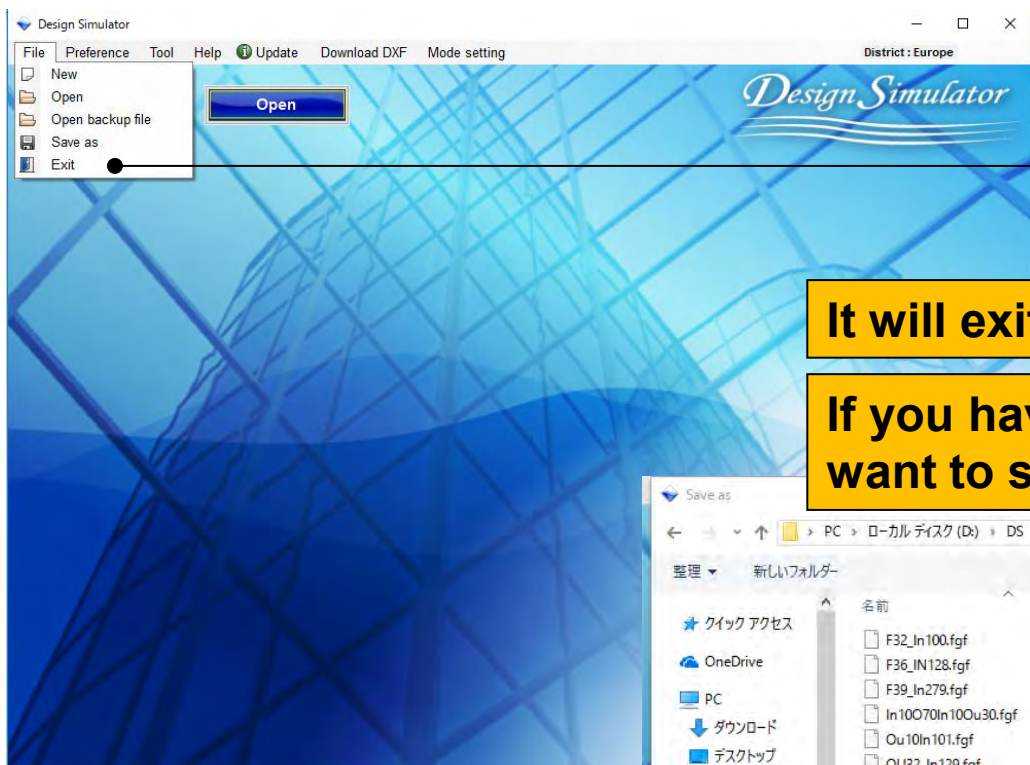




# Initial settings (File)

## Design Simulator

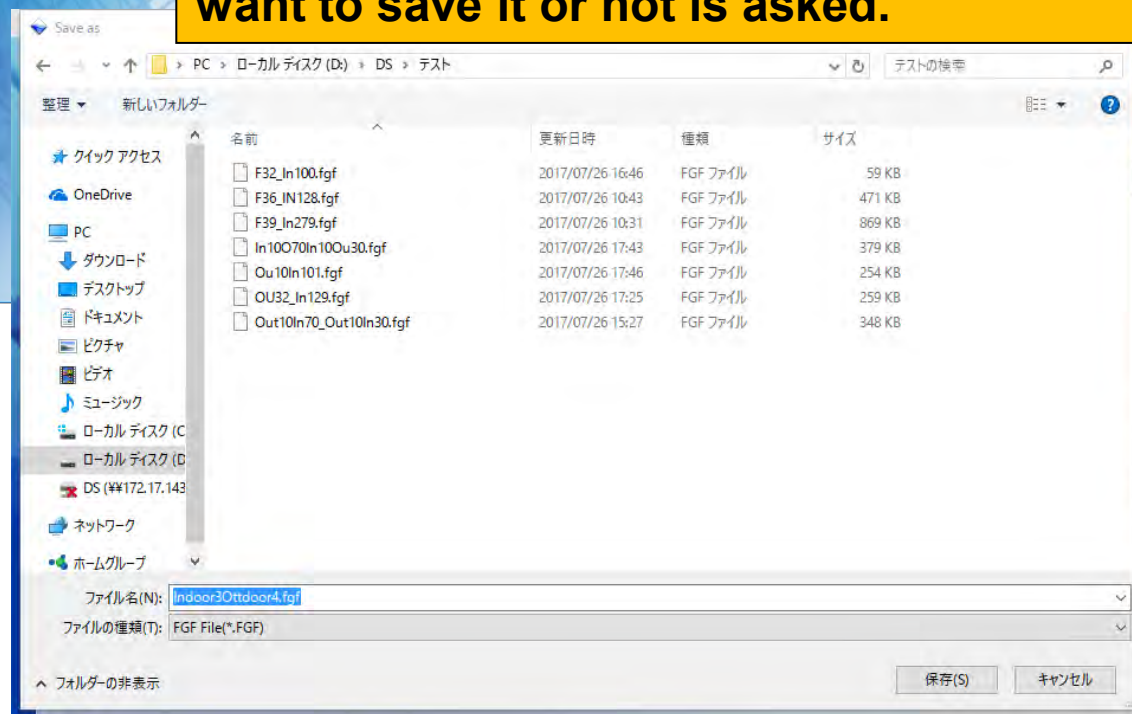
**Exit**



**Select "Exit"**

**It will exit unless a project has been created.**

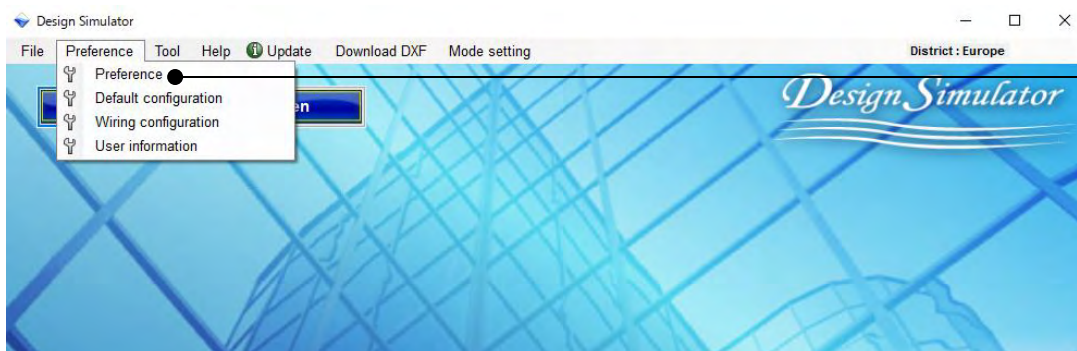
**If you have created a project, whether you want to save it or not is asked.**



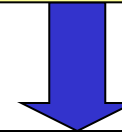


# Initial settings (preference)

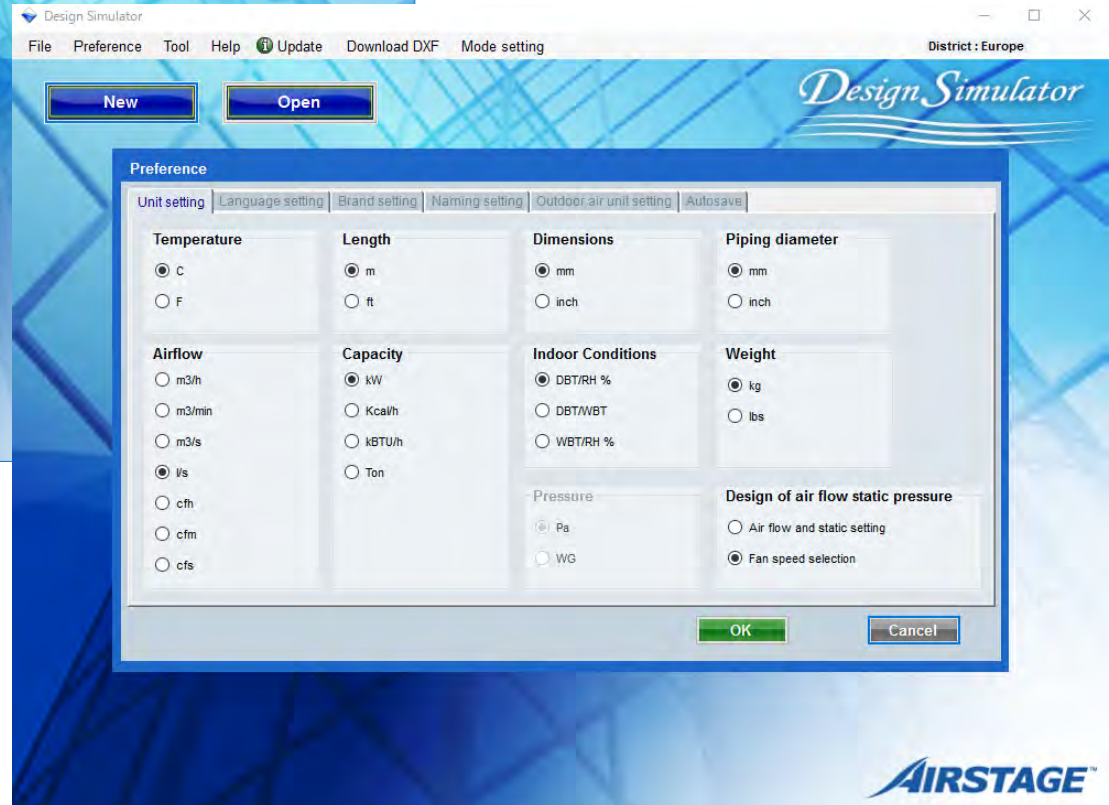
## Design Simulator



Select "preference"



Open preference menu



# Initial settings (preference)

## Design Simulator

### Setting for Units (1/2)

Setting for Duct type only  
Select “Air flow and static setting”

It is reflected on Input new indoor unit

Preference

Unit setting | Language setting | Brand setting | Naming setting | Outdoor air unit setting | Autosave

**Temperature**

☒ C  
☐ F

**Length**

☒ m  
☐ ft

**Dimensions**

☒ mm  
☐ inch

**Piping diameter**

☒ mm  
☐ inch

**Airflow**

☐ m3/h  
☐ m3/min  
☐ m3/s  
☒ l/s  
☐ cfm  
☐ cfs

**Capacity**

☒ kW  
☐ Kcal/h  
☐ kBTU/h  
☐ Ton

**Indoor Conditions**

☒ DBT/RH %  
☐ DBT/WBT  
☐ WBT/RH %

**Weight**

☒ kg  
☐ lbs

**Pressure**

☒ Pa  
☐ WG

**Design of air flow static pressure**

☒ Air flow and static setting  
☐ Fan speed selection

OK Cancel

+ Input new indoor unit

Name Indr1  
Comments

Model  
☐ Manual selection  
Type Slim duct(Drain pump internal)  
Model

RC  
Wired RC(Touch) Options

**Design criteria**

Cooling

DBT	C	27.0	TC	kW	0.5
	RH %	43.4	SC	kW	0.5

Heating

DBT	C	20	HC	kW	0.5
-----	---	----	----	----	-----

**Primary setting**

☐ Required air flow  
☐ External static pressure

**Required air flow**

l/s 141.6 Range

**External static pressure**

Pa 25 Range

Additional information  
Room setting

Cancel Add

# Initial settings (preference)

## Design Simulator

### Setting for Units (2/2)

Setting for Duct type only  
Select “Air flow and static setting”

It is reflected in the “Airflow level”

Preference

Unit setting | Language setting | Brand setting | Naming setting | Outdoor air unit setting | Autosave

**Temperature**

☒ C  
☐ F

**Length**

☒ m  
☐ ft

**Dimensions**

☒ mm  
☐ inch

**Piping diameter**

☒ mm  
☐ inch

**Airflow**

☐ m3/h  
☐ m3/min  
☐ m3/s  
☒ l/s  
☐ cfm  
☐ cfs

**Capacity**

☒ kW  
☐ Kcal/h  
☐ kBTU/h  
☐ Ton

**Indoor Conditions**

☒ DBT/RH %  
☐ DBT/WBT  
☐ WBT/RH %

**Weight**

☒ kg  
☐ lbs

**Pressure**

☒ Pa  
☐ WG

**Design of air flow static pressure**

☐ Air flow and static setting  
☒ Fan speed selection

OK Cancel

Input new indoor unit

Name Indr1

Comments

Model

☐ Manual selection

Type

Slim duct(Drain pump internal)

Model

Airflow level

High

RC

Wired RC(Touch)

Options

Design criteria

Cooling

DBT	C	27.0	Required capacity	TC	kW	0.5
	RH %	43.4		SC	kW	0.5

Heating

DBT	C	20	Required capacity	HC	kW	0.5
-----	---	----	-------------------	----	----	-----

Additional information

Room setting

Cancel Add

# Initial settings (preference)

# Design Simulator

## Setting for Language

Select "Modify language"

Input "Modify language"

Preference

Unit setting | Language setting | Brand setting | Naming setting | Outdoor air unit setting | Autosave

Language setting

<input type="radio"/> English	<input type="radio"/> Hungary	<input type="radio"/> Norwegian
<input type="radio"/> German	<input type="radio"/> Turkey	<input type="radio"/> Slovenian
<input type="radio"/> Spanish	<input type="radio"/> Netherlands	<input type="radio"/> Slovakian
<input type="radio"/> French	<input checked="" type="radio"/> 日本語	<input type="radio"/> Romania
<input type="radio"/> Chinese	<input type="radio"/> チェコ語	<input type="radio"/> Serbia
<input type="radio"/> Poland	<input type="radio"/> Croatian	<input type="radio"/> Bulgarian
<input type="radio"/> Russia	<input type="radio"/> Estonian	<input type="radio"/> English(USA)
<input type="radio"/> Italy	<input type="radio"/> Israel	<input type="radio"/> Taiwan
<input type="radio"/> Portugal	<input type="radio"/> Swedish	<input type="radio"/>
<input type="radio"/> Greece	<input type="radio"/> Finish	<input type="radio"/>

Modify Language

OK Cancel

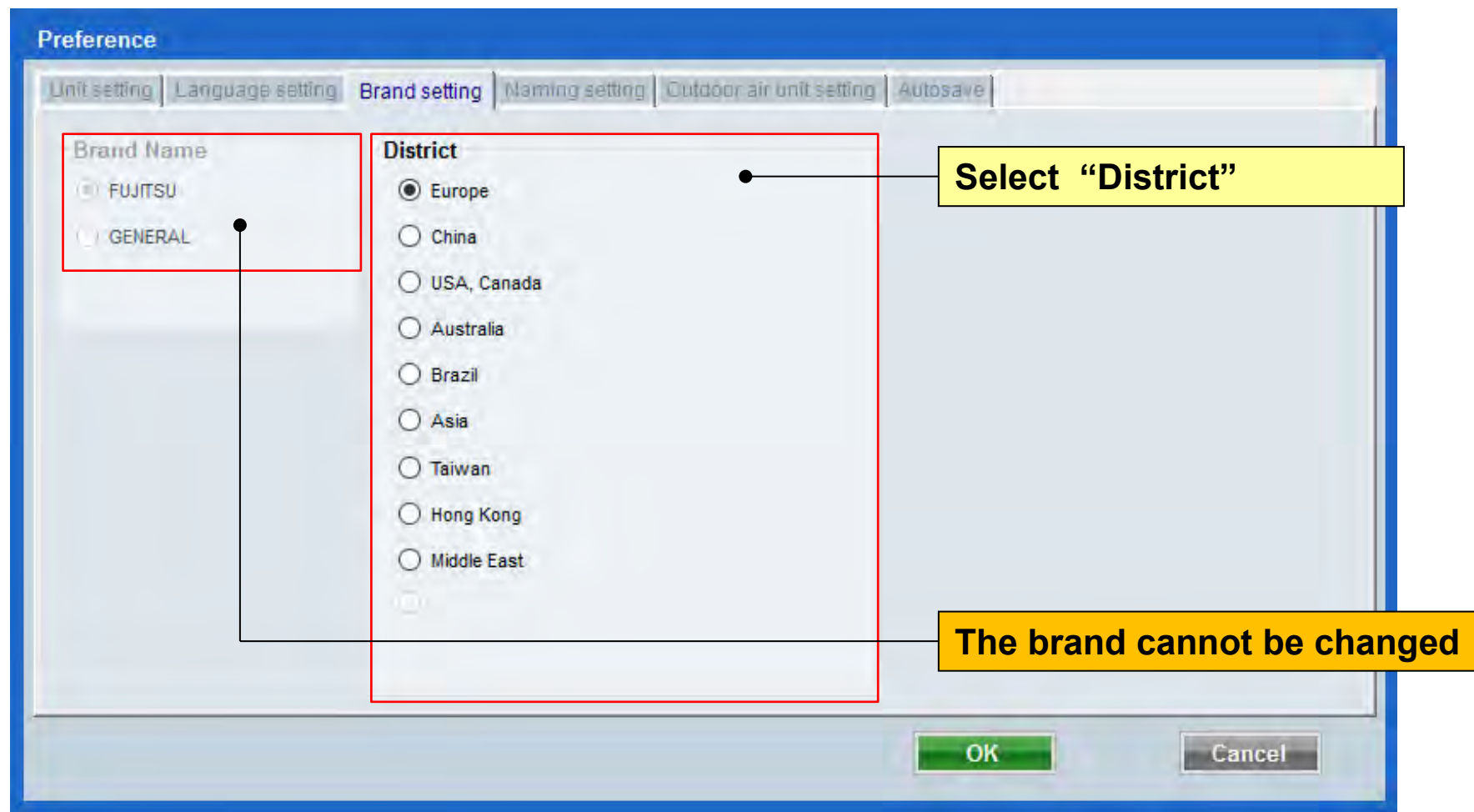
Modify Language

No	English	Modify Language
1	A multiple running is not possible	A multiple running is not possible
2	Error! Please inquire of the system manager.	Error! Please inquire of the system manager.
3	It is not possible to connect the data base	It is not possible to connect the data base
4	Please input only the integer	整数で入力して下さい
5	Model	Model
6	Cooling	Cooling
7	Heating	Heating
8	Input new indoor unit	Input new indoor unit
9	Name	Name
10	Address	Address
11	Manual selection	Manual selection
12	Type	Type
13	Comments	Comments
14	RC	RC
15	Design criteria	Design criteria
16	Required capacity	Required capacity
17	TC	TC
18	SC	SC
19	HC	HC
20	Required air flow	Required air flow
21	External static pressure	External static pressure
22	Tmp C	Tmp C
23	Tmp H	Tmp H
24	Rq TC	Rq TC
25	Rq SC	Rq SC
26	Rq HC	Rq HC
27	Capacity	Capacity

Cancel OK



### Setting for Brand



### Setting for Naming

Preference

Unit setting | Language setting | Brand setting | **Naming setting** | Outdoor air unit setting | Autosave

**Naming setting**

Indoor unit

Outdoor unit

**Default output folder name**

...

**Data in/out folder**

...

OK Cancel

Input "Naming setting"

Select "Default output folder name"

Select "Data in/out folder"

### Setting for Outdoor air unit (1/3)

Preference

Unit setting | Language setting | Brand setting | Naming setting | Outdoor air unit setting | Autosave

**Selection of outdoor air processing unit**

☒ Outdoor air unit

☒ DX kit

☒ The equipment linked to DX kit is included in an estimate.

Outdoor air unit in current project will be removed if its check box is cleared.

**Naming setting**

Outdoor air unit: OutAir

DX kit: DX

**Future unit**

☒ Enable

Default name: Future

**Heat exchanger volume**

☒ cm3

☐ in3

**Report outputs**

☒ Include Future units

(Material, Piping and Wiring diagram, etc.)

OK Cancel

Select "Selection of outdoor air processing unit"

Input "Naming setting"

Select "Heat exchange volume"

Select "Include Future units"

Select "Enable"

Input "Default naming"

Including undetermined of the indoor unit(the future additional minutes), it is possible to carry out the selection of piping and the outdoor unit.

# Initial settings (preference)

## Design Simulator

### Setting for Outdoor air unit (2/3)

Select "Selection of outdoor air unit"  
This is reflected on the "Indoor" screen

Preference

Unit setting | Language setting | Brand setting | Naming setting | Outdoor air unit setting | Autosave

1) Selection of outdoor air processing unit

2) ☒ Outdoor air unit

3) ☒ DX kit

☒ The equipment linked to DX kit is included in an estimate.

Outdoor air unit in current project will be removed if its check box is cleared.

Naming setting

Outdoor air unit: OutAir

DX kit: DX

Heat exchanger volume

☒ cm3

☐ in3

Future unit

☒ Enable

Default name: Future

Report outputs

☒ Include Future units  
(Material, Piping and Wiring diagram, etc.)

OK Cancel

Indoor unit Outdoor unit Piping Wiring Control Report Menu

Indoor unit Outdoor air unit DX kit Indoor unit Outdoor air unit Future unit

1)

Selection of outdoor air processing unit

☐ Outdoor air unit

☐ DX kit

☐ The equipment linked to DX kit is included in an estimate.

Outdoor air unit in current project will be removed if its check box is cleared.

Indoor unit

2)

Selection of outdoor air processing unit

☒ Outdoor air unit

☐ DX kit

☐ The equipment linked to DX kit is included in an estimate.

Outdoor air unit in current project will be removed if its check box is cleared.

Indoor unit

Outdoor air unit

3)

Selection of outdoor air processing unit

☒ Outdoor air unit

☒ DX kit

☐ The equipment linked to DX kit is included in an estimate.

Outdoor air unit in current project will be removed if its check box is cleared.

Selection of outdoor air processing unit

☒ Outdoor air unit

☒ DX kit

☒ The equipment linked to DX kit is included in an estimate.

Outdoor air unit in current project will be removed if its check box is cleared.

Indoor unit

Outdoor air unit

DX kit

Indoor unit

Outdoor air unit



### Setting for Outdoor air unit (3/3)

**Future unit**

☒ Enable

Default name



<input checked="" type="radio"/> Indoor unit	<input type="radio"/> Outdoor air unit	<b>DX kit</b>	<input type="radio"/> Indoor unit	<input type="radio"/> Outdoor air unit	<input type="radio"/> Future unit
--	--	---------------	-----------------------------------	--	-----------------------------------

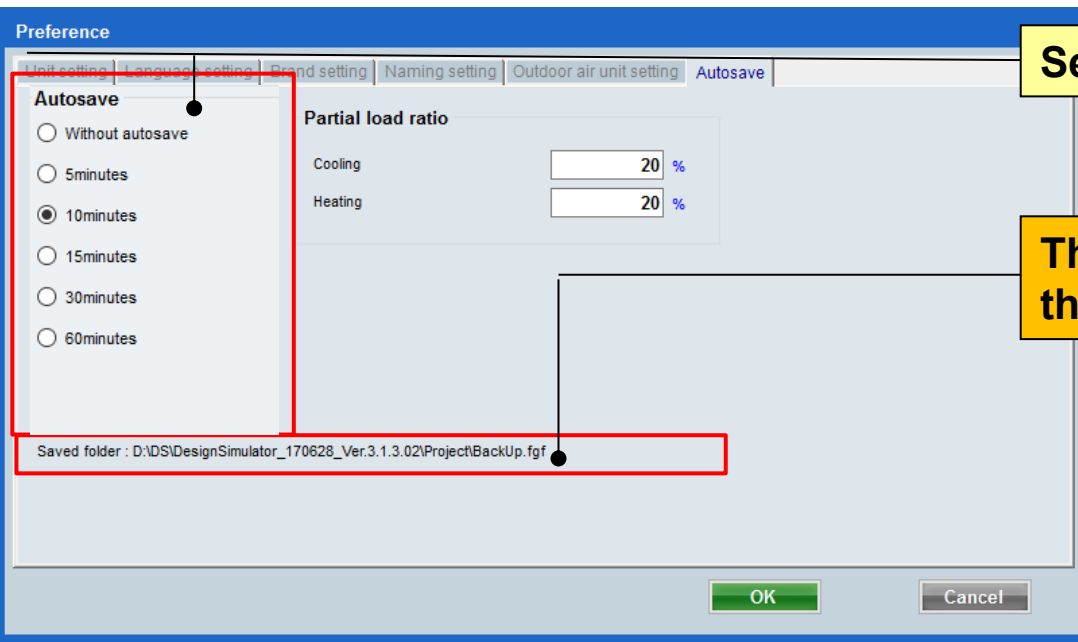
Select "Selection of outdoor air unit"  
It is reflected in the "Indoor" screen

**Report outputs**

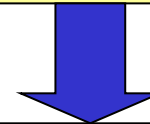
☒ Include Future units  
(Material, Piping and Wiring diagram, etc.)

Select "Selection of outdoor air unit"  
This is reflected in "Report outputs"

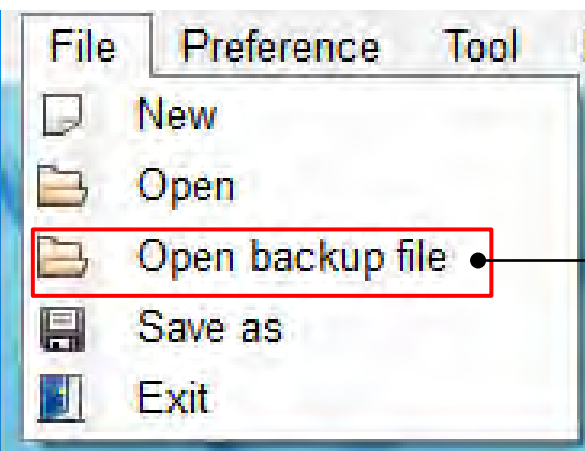
### Setting for Auto save



Select Autosave time



The backup is saved to the DS folder at the selected time.



The backup can be read from  
"File – Open backup file"

## Setting for Partial load ratio

**Preference**

Unit setting | Language setting | Brand setting | Naming setting | Outdoor air unit setting | Autosave

**Autosave**

- ☒ Without autosave
- ☐ 5minutes
- ☐ 10minutes
- ☐ 15minutes
- ☐ 30minutes
- ☐ 60minutes

**Partial load ratio**

Cooling	20 %
Heating	20 %

**Indoor unit**

File | Preference | Tool | Help | Update

**Indoor unit** | **Outdoor unit** | Piping

**Details of indoor unit**

Indoor unit type image

Input new outdoor unit

Name: QD01  
Comments:  
Refrigerant: R410A  
Model: VRV3 Heat Recovery space saving combination  
Type: VRV3 Heat Recovery space saving combination  
Model: Manual selection

PS

Combination: 100%  
Language No: 0 %

☐ Full Load  
☒ **Partial Load**  
Operating ratio C: 20%  
Operating ratio H: 20%

Outdoor dry bulb temperature  
Cooling: C 35.0 Heating: C 7.0

Actual capacity  
Cooling: W Heating: W

Piping  
Actual piping length: 7.5

Position of outdoor unit relative to indoor unit  
☐ Higher ☒ Same Floor ☐ Lower

Height difference between outdoor and indoor units: 0.0

**Partial Load operation**

**Partial Load operation**

Full Load operation | **Partial Load operation**

Combination: 100%

**Partial load ratio**

- ☒ **Operating ratio designation**  
Cooling: 20 %  
Heating: 20 %
- ☐ Partial Indoor designation

Outdoor Model: Ind03 Compact cassette  
Combination: Ind04 Compact cassette, Ind05 Compact cassette, Ind06 Compact cassette, Ind07 Compact cassette

Rated Capacity  
Cooling: Heating:

Actual Capacity(outdoor)  
Cooling: Heating:

Total indoor capa.  
Cooling: Heating:

Actual Capacity(indoor)  
Cooling: Heating:

Reset | Check capacity | OK

**Input "Partial load ratio"**

**It is reflected in the "Outdoor" screen**  
Select "Partial load ratio"

**Input "Partial load ratio"**

**It is reflected in the "Partial load ratio"**

**"Partial load" enables you to select the outdoor unit by incorporating the Partial operation of indoor units.**

# Initial settings (Default configuration)

## Design Simulator

The image shows the 'Design Simulator' software interface. The 'Preference' menu is open, and 'Default configuration' is selected. The 'Default configuration' dialog box is displayed, showing settings for 'Temperature', 'Required capacity', and 'Safety factor'. The 'Temperature' section has two sub-sections: 'Indoor unit' and 'Outdoor unit', each with 'Cooling' and 'Heating' options. The 'Required capacity' section has 'Indoor unit' and 'Safety factor' options. The 'Safety factor' is set to 50%.

**Select "Default configuration"**

**Open Default configuration menu**

**Select "Temperature"**

**Input "Temperature"**

**Select "Temperature"**

**Input "Temperature"**

**Input "Safety factor"**

**Input "Temperature"**

**Select "Require capacity"**

Temperature	
Unit	<input checked="" type="radio"/> C <input type="radio"/> F
<b>Indoor unit</b>	
Cooling	27 / 80.6
Heating	20 / 68
<b>Outdoor unit</b>	
Cooling	35 / 95
Heating	7 / 44.6
<b>Outdoor air unit</b>	
Cooling	18 (C) / 64 (F)
Discharge	
Outside DBT	33 / 91.4
Outside WBT	28.0 / 82.4
Heating	25 (C) / 77 (F)
Discharge	
Outside	0 / 32

Required capacity	
Unit	<input checked="" type="radio"/> kW <input type="radio"/> kBTU/h
<b>Indoor unit</b>	
TC	0.5 / 2
SC	0.5 / 2
HC	0.5 / 2
<b>Safety factor</b>	
%	50



## Setting for Default configuration (1/2)

Default configuration

Temperature

Unit ☒ C ☐ F

Indoor unit

Cooling

Heating

Outdoor unit

Cooling

Heating

Required capacity

Unit ☒ kW ☐ kBTU/h

Indoor unit

TC

SC

HC

Safety factor %

Outdoor air unit

Cooling

Discharge

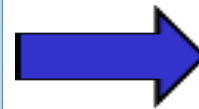
Outside DBT

WBT

Heating

Discharge

Outside



When “Temperature / Required capacity / safety factor” are input, It is reflected on the “Indoor” screen.

Estimated capacity condition

Indoor temperature

Outdoor temp.

Safety factor

Update

Qty	RC C (kW)	RC H (kW)	Est TC (kW)	Est SC (kW)	Est HC (kW)	WxH D (mm)	Weight (kg)	Airflow (l/s)	Sound (dB)
	1.1	1.3				245x270x570	15	147.2	34
	1.1	1.3				245x270x570	14.5	147.2	34
	2.2	2.8				245x270x570	16	160	34
	2.8	3.2				245x270x570	16	162.7	35
	3.6	4.1				245x270x570	15	166.6	37
	4.6	5.0				245x270x570	16	188.8	38
	5.6	6.3				245x270x570	17	197.2	41
	7.1	8.0				245x270x570	17	206.1	50
	8.6	8.3				245x270x570	22	319.4	38
	7.1	8.0				245x270x570	22	355.5	38
	9.0	10.0				200x040x040	27	444.4	40
	10.0	11.2				288x040x040	27	486.1	42
	11.2	12.5				288x040x040	27	500	44
	12.5	14.0				288x040x040	27	527.7	46
	14.0	16.0				200x040x040	27	555.5	47
	5.6	6.3				288x040x040	26.5	394.4	38
	7.1	8.0				288x040x040	26.5	394.4	38
	9.0	10.0				200x040x040	29.5	400	39
	10.0	11.2				288x040x040	29.5	400	39
	11.2	12.5				288x040x040	29.5	450	41
	12.5	14.0				200x040x040	29.5	505.5	44
	14.0	16.0				288x040x040	29.5	566.6	47
	5.6	6.3				288x040x040	26.5	394.4	38

Input new indoor unit

Name

Comments

Model

☐ Manual selection

Type

Model

Design criteria

Cooling

DBT

RH %

Required capacity

TC

SC

Heating

DBT

Required capacity

HC

Input new indoor unit

Name

Comments

Model

☐ Manual selection

Type

Model

Airflow level

RC

Options

Design criteria

Cooling

DBT

RH %

Required capacity

TC

SC

Heating

DBT

Required capacity

HC

Additional information

Input new DX kit - indoor unit

Name

Comments

Model Selection

☒ Cooling and Heating ☐ Cooling only ☐ Heating Only

DX kit selection information input

Other unit

Model name

Cooling

Rated TC

DBT

RH %

Heating

Rated HC

DBT

Heat exchanger capacity

Input range

Select picture

☐ ☐

Model

RC

Additional information

## Setting for Default configuration (2/2)

Default configuration

Temperature			
Unit	<input checked="" type="radio"/> C	<input type="radio"/> F	
Indoor unit			
Cooling	27	80.6	
Heating	20	68	
Outdoor unit			
Cooling	35	95	
Heating	7	44.6	

Required capacity			
Unit	<input checked="" type="radio"/> kW	<input type="radio"/> kBTU/h	
Indoor unit			
TC	0.5	2	
SC	0.5	2	
HC	0.5	2	
Safety factor %			
	50		

Outdoor air unit			
Cooling			
Discharge	18 (C)	64 (F)	
Outside			
DBT	33	91.4	
WBT	28.0	82.4	
Heating			
Discharge	25 (C)	77 (F)	
Outside			
	0	32	

Reset OK Cancel

When “Temperature / Required capacity / safety factor” are input, It is reflected on the “Indoor” screen.

Input new outdoor air unit

Name OutAir1

Comments

Model

Airflow rate and static pressure  
1080m3/h 50-185Pa

Model  
ARDH054GTAH

RC  
Wired RC(Touch)

Cooling			
Discharge DBT/WBT			
Discharge	18 (C)		
Outside			
DBT	C	33.0	
RH %		67.1	
Capacity	kW	14.4	

Heating			
Discharge DBT			
Discharge	25 (C)		
Outside DBT			
	C	0	
Capacity	kW	8.9	

Additional information  
Room setting

Cancel Add

Input new DX kit - outdoor air unit

Name DX1

Comments

Model Selection  
☒ Cooling and Heating ☐ Cooling only ☐ Heating Only

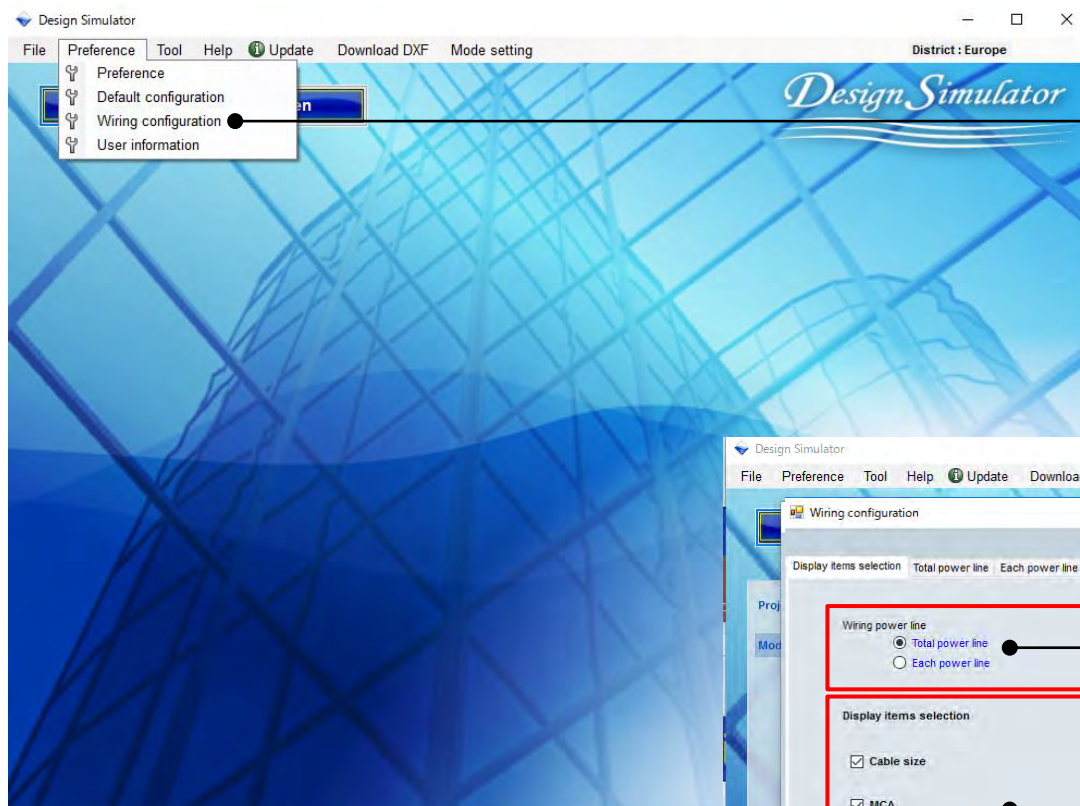
DX kit selection information input

Other unit			
Head Not In Use			
Cooling			
Rated TC	kW	5.1	
Discharge			
DBT	C	18	
WBT	C	17.5	
Outside			
DBT	C	33.0	
RH %		67.1	
Model	UTY-VDGX	UTP-VX30A	
RC	Wired RC(Touch)		
Additional information Room setting			

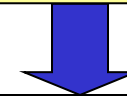
Model name			
Outdoor air unit			
Heating			
Rated HC	kW	5.7	
Discharge DBT			
	C	25	
Outside DBT			
	C	0	
Heat exchanger capacity			
	cm3	960	
Input range			
		1 - 3950	
Select picture			
<input checked="" type="radio"/> <input type="radio"/>			

# Initial settings (Wiring configuration)

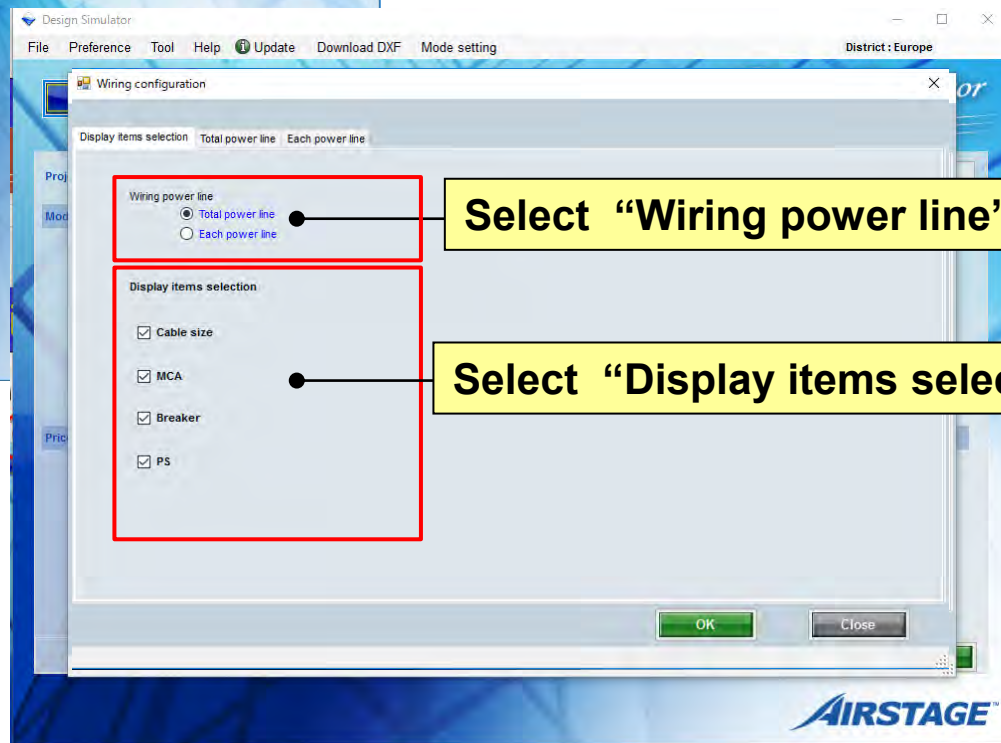
## Design Simulator



Select “wiring configuration”



Open “wiring configuration”



Select “Wiring power line”

Select “Display items selection”



## Display items selection(1/2)

Wiring configuration

Display items selection   Total power line   Each power line

Wiring power line

☒ Total power line

☐ Each power line

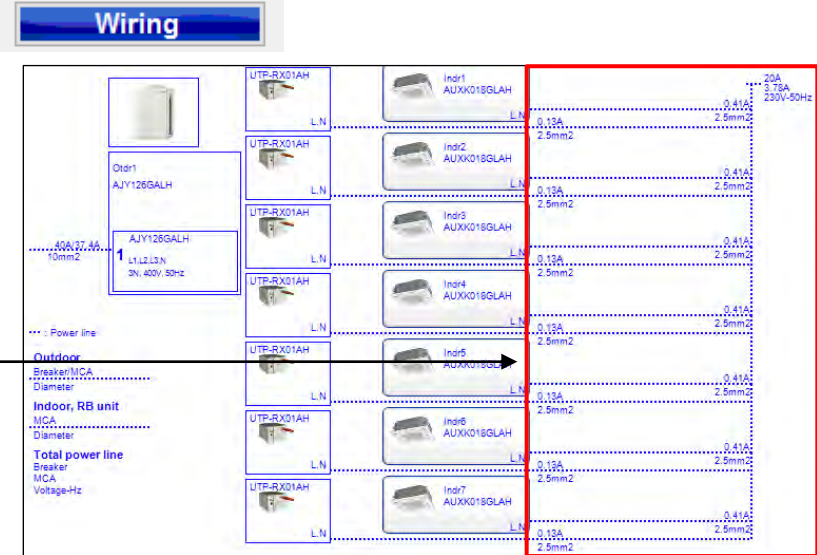
Display items selection

☒ Cable size

☒ MCA

☒ Breaker

☒ PS



“Total” or “each” can be selected for the display format of “Wiring power line”



## Display items selection(2/2)

**Wiring**

Wiring configuration

Display items selection   Total power line   Each power line

Wiring power line

☒ Total power line

☐ Each power line

**Display items selection**

☒ Cable size

☒ MCA

☒ Breaker

☒ PS

**Outdoor Breaker/MCA**

Cable size

40A/37.4A  
10mm<sup>2</sup>

AJY126GALH  
L1(L2,L3,N)  
3N, 400V, 50Hz

UTP-RX01AH

Indr1 AUXK018GLAH

Indr2 AUXK018GLAH

Indr3 AUXK018GLAH

Indr4 AUXK018GLAH

Indr5 AUXK018GLAH

Indr6 AUXK018GLAH

Indr7 AUXK018GLAH

0.13A  
2.5mm<sup>2</sup>

0.41A  
2.5mm<sup>2</sup>

20A  
3.78A  
230V-50Hz

**Indoor, RB unit**

MCA

Cable size

Power line

Outdoor Breaker/MCA  
Diameter

Indoor, RB unit  
MCA  
Diameter

Total power line  
Breaker  
MCA  
Voltage-Hz

The items displayed in "Wiring" can be set to show/hide

### Total power line (1/2)

The screenshot shows the 'Wiring configuration' dialog box with the 'Total power line' tab selected. The dialog is divided into three sections: 'Total power line', 'Small system', and '8 Room Multi System'. The 'Total power line' section contains the following fields and annotations:

- Select "VRF system type"**: Points to the 'VRF system' dropdown menu, which is currently set to 'V-II Heat Recovery space saving combination'.
- Input "Breaker"**: Points to the 'Breaker' input field, which is set to '20'.
- Input "Limit of total MCA"**: Points to the 'Limit of total MCA' input field, which is set to '15'.
- Select "Earth leakage circuit breaker"**: Points to the 'Earth leakage circuit breaker' input field, which is set to '30'.
- Input "PS"**: Points to the 'PS' input field, which is set to '230V-50Hz'.

The 'Small system' section contains the following fields and annotations:

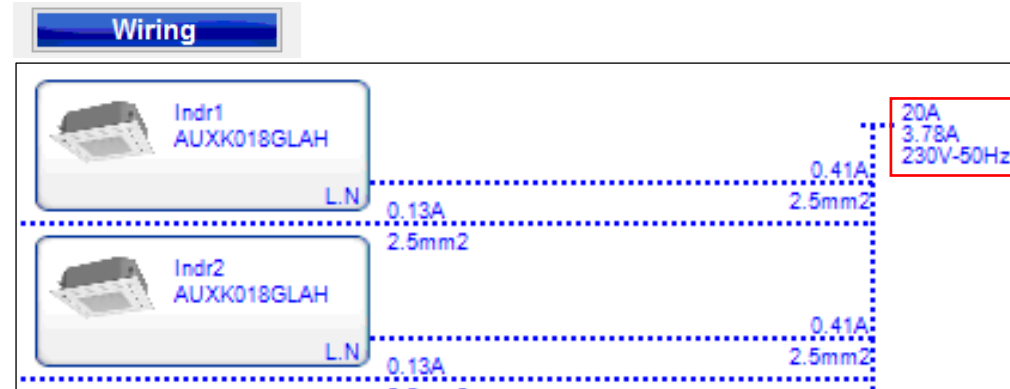
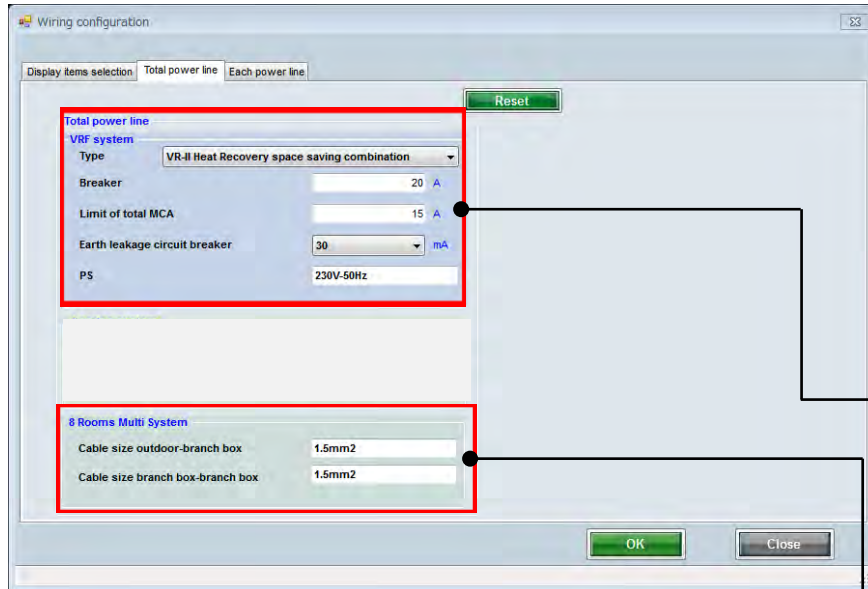
- Input "Cable size"**: Points to the 'Cable size' input field, which is set to '2.5mm2'.
- Input "PS"**: Points to the 'PS' input field, which is set to '200V-50Hz'.

The '8 Room Multi System' section contains the following fields and annotations:

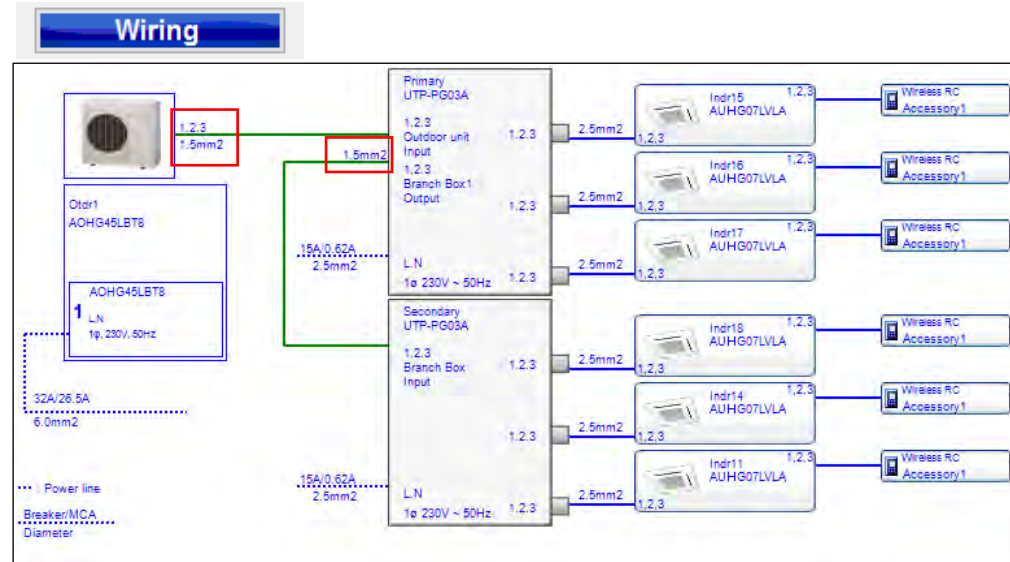
- Input "Cable size outdoor-branch box"**: Points to the 'Cable size outdoor-branch box' input field, which is set to '1.5mm2'.
- Input "Cable size branch box-branch box"**: Points to the 'Cable size branch box-branch box' input field, which is set to '1.5mm2'.

The dialog also features a 'Reset' button at the top right, and 'OK' and 'Close' buttons at the bottom right.

## Total power line (2/2)



**“Total power line” can be set for each type of VRF system**



**The display value and the limit value of the “wiring diagram” can be changed**

**“Total power line” can be set for each type of 8rooms Multi system**

## Each power line(1/2)

Wiring configuration

Display items selection: Total power line | Each power line

Series: All Unit: All

Reset

Series	Unit	Type	Model	MCA (A)	Cable size	Breaker (A)	PS
FM	Outdoor	8 Room Multi System	AOYG45LBT8	26.5	6.0mm2	32	1φ, 230V, 50Hz
FM	Indoor	Compact cassette	AUYG07LVLA	0.19	2.5mm2	0	200V-50Hz
FM	Indoor	Compact cassette	AUYG09LVLA	0.19	2.5mm2	0	200V-50Hz
FM	Indoor	Floor	AGYG09LVCA	0.19	2.5mm2	0	200V-50Hz
FM	Indoor	Floor	AGYG12LVCA	0.23	2.5mm2	0	200V-50Hz
FM	Indoor	Floor	AGYG14LVCA	0.25	2.5mm2	0	200V-50Hz
FM	Indoor	Floor/ceiling	ABYG14LVTA	0.26	2.5mm2	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG07LLTA	0.41	2.5mm2	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG09LLTA	0.38	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG07LJCA	0.17	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG09LJCA	0.19	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG12LJCA	0.24	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG18LFCA	0.41	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG24LFCA	0.66	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted(Slim)	ASYG07LUCA	0.16	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted(Slim)	ASYG09LUCA	0.18	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted(Slim)	ASYG12LUCA	0.21	2.5mm2	0	200V-50Hz
FM	Indoor	Wall mounted(Slim)	ASYG14LUCA	0.25	2.5mm2	0	200V-50Hz

OK Close

Annotations:

- Select "VRF system type"
- Input "Cable size"
- Input "Breaker"
- Input "PS"

## Each power line(2/2)

Wiring configuration

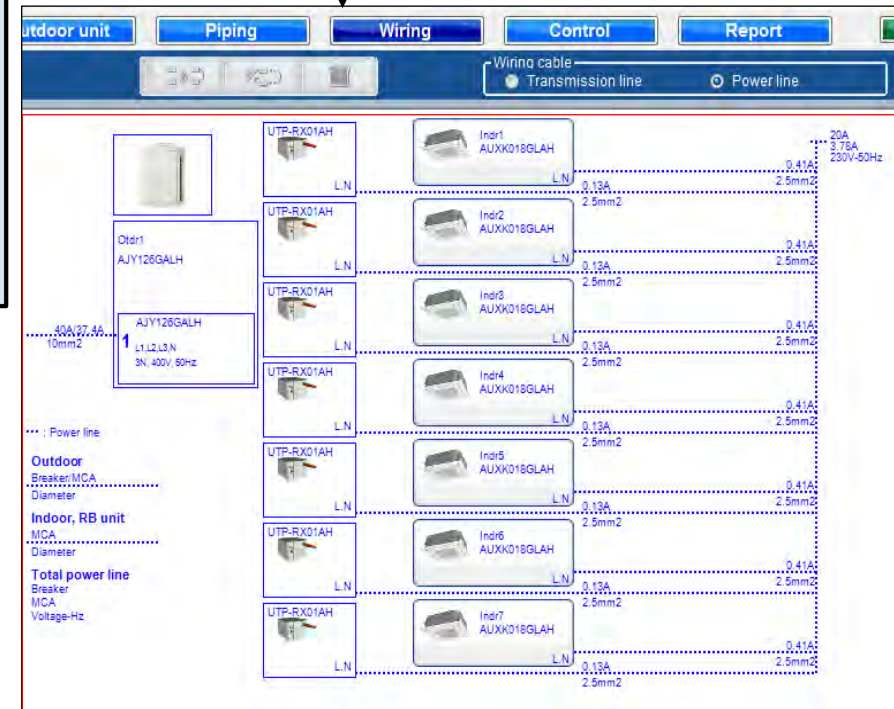
Display items selection Total power line Each power line

Series All Unit All

Reset

Series	Unit	Type	Model	MCA (A)	Cable size	Breaker (A)	PS
FM	Outdoor	8 Rooms Multi System	AOYG45LB78	26.5	6.0mm <sup>2</sup>	32	1φ, 230V, 50Hz
FM	Indoor	Compact cassette	AUYG07LVLA	0.19	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Compact cassette	AUYG09LVLA	0.19	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Compact cassette	AUYG12LVLB	0.24	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Compact cassette	AUYG14LVLB	0.28	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Compact cassette	AUYG18LVLB	0.38	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Floor	AGYG09LVCA	0.19	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Floor	AGYG12LVCA	0.23	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Floor	AGYG14LVCA	0.25	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Floor/ceiling	ABYG14LVTA	0.26	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Floor/ceiling	ABYG18LVTB	0.45	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG07LLTA	0.41	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG09LLTA	0.38	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG12LLTB	0.44	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG14LLTB	0.64	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Slim duct(Drain pump internal)	ARYG18LLTB	0.55	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG07LJCA	0.17	2.5mm <sup>2</sup>	0	200V-50Hz
FM	Indoor	Wall mounted	ASYG09LJCA	0.19	2.5mm <sup>2</sup>	0	200V-50Hz

OK Close

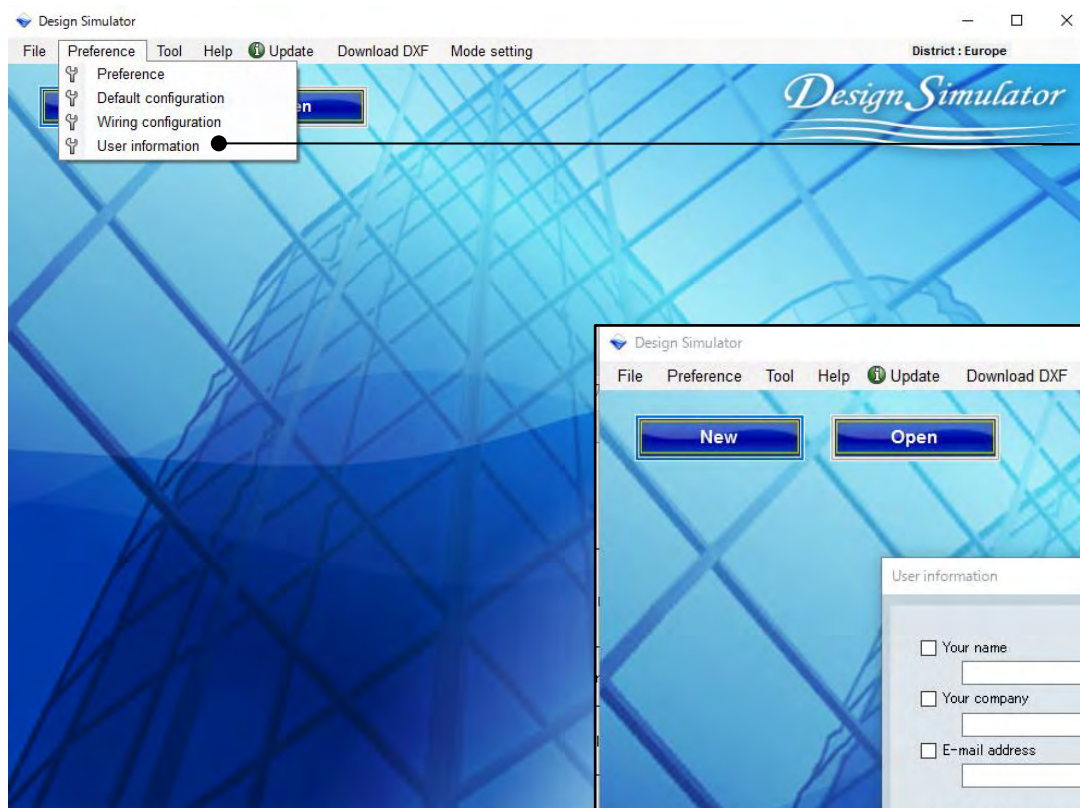


The display value of the “wiring diagram” can be changed depending on the series  
“Breaker (A)” cannot be changed for the indoor unit

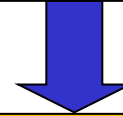


# Initial settings (User information)

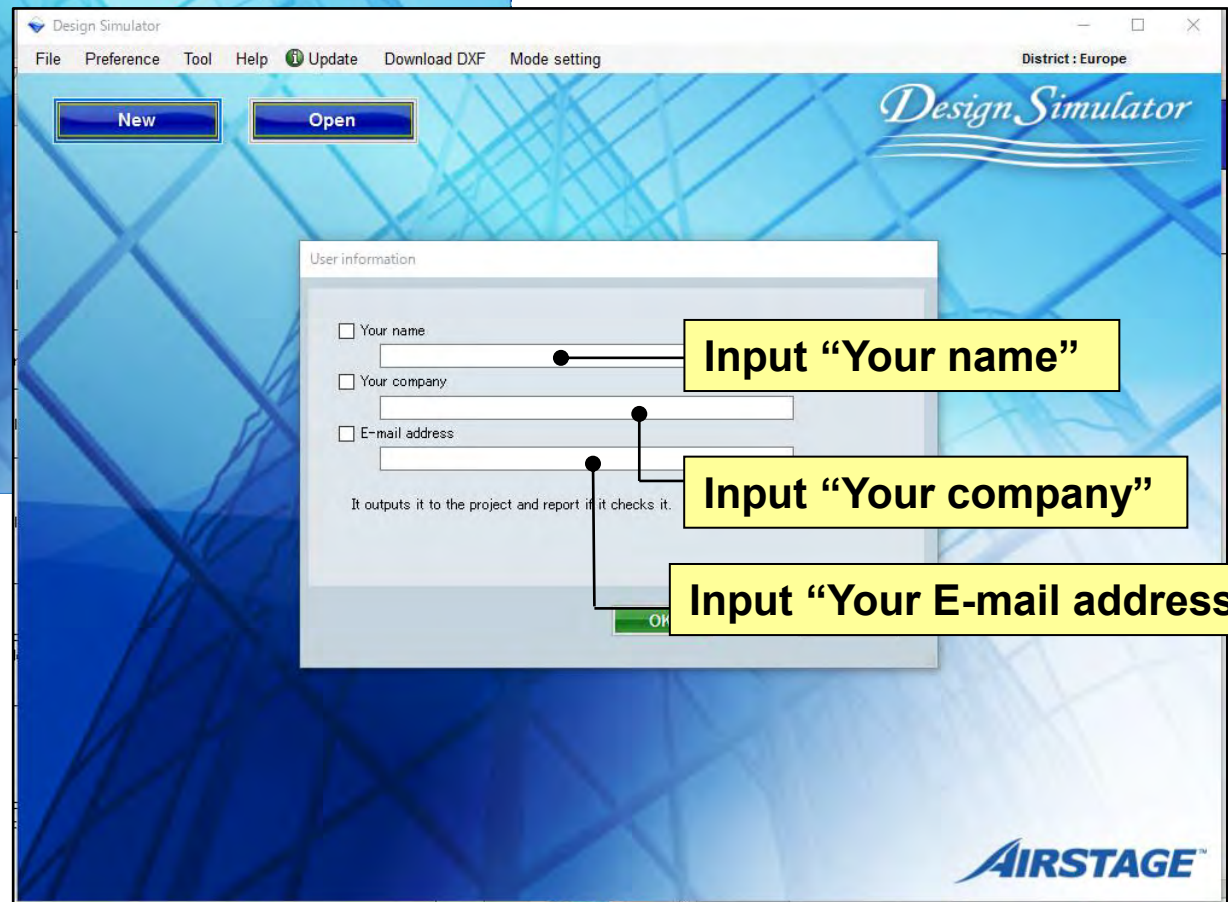
*Design Simulator*



Select "User information"



Open "User information menu"



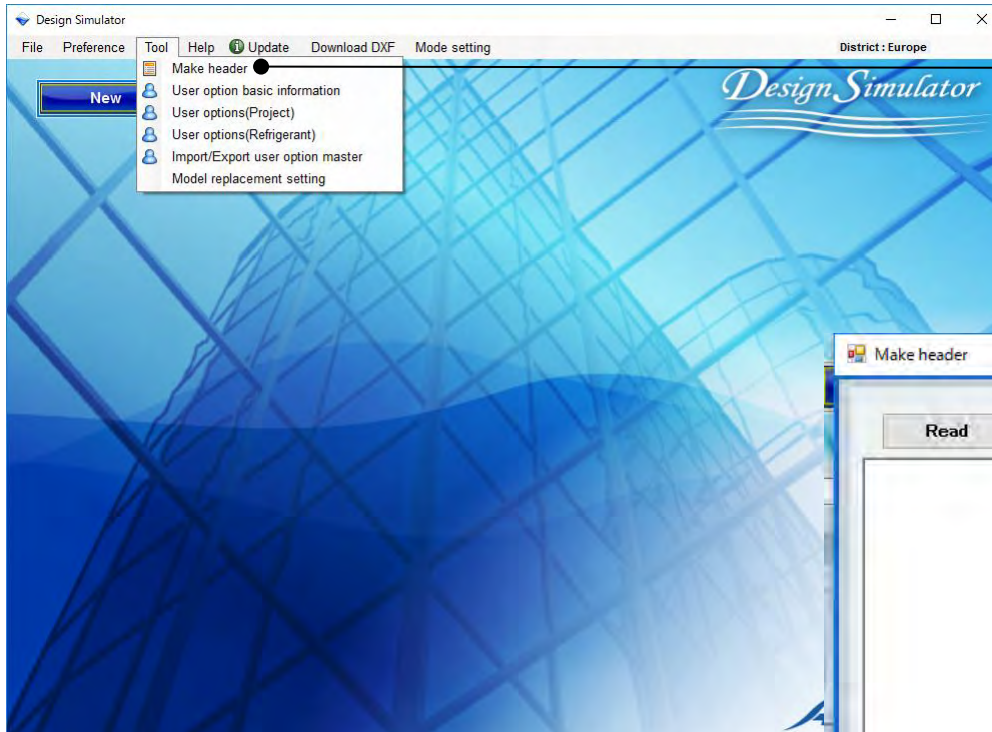
Input "Your name"

Input "Your company"

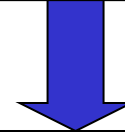
Input "Your E-mail address"

# Initial settings

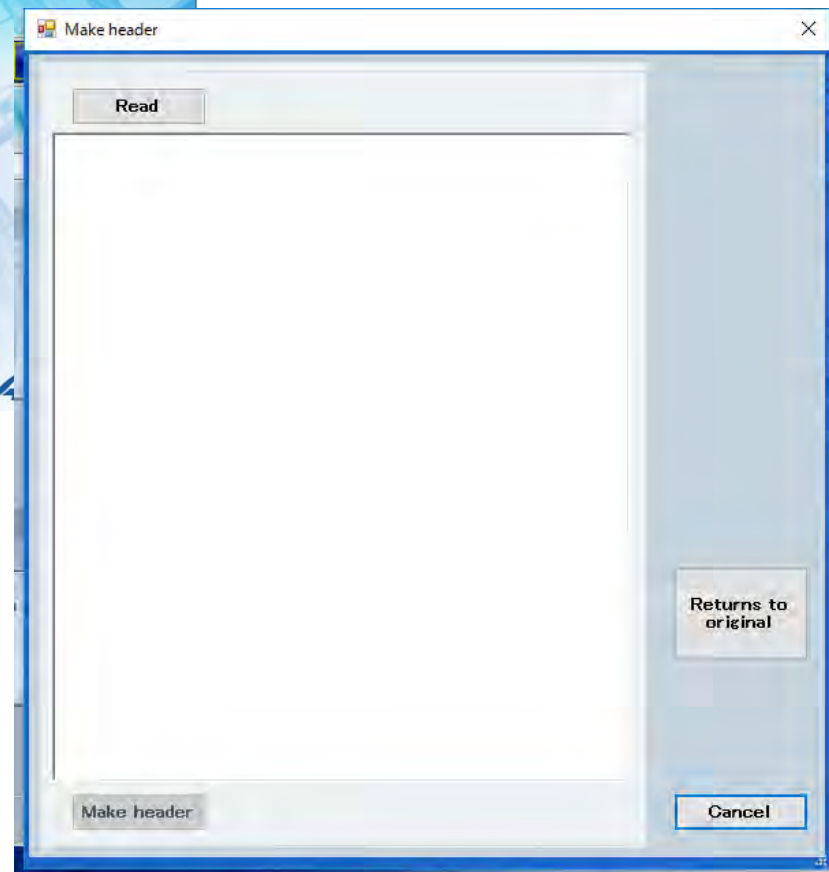
## Design Simulator



Select "Make header"



Open Make header

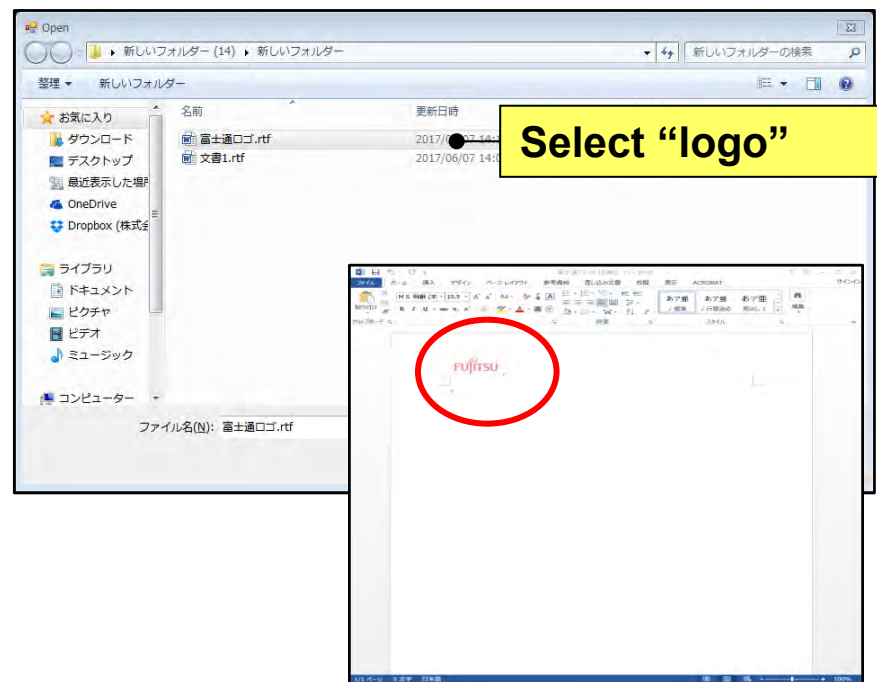
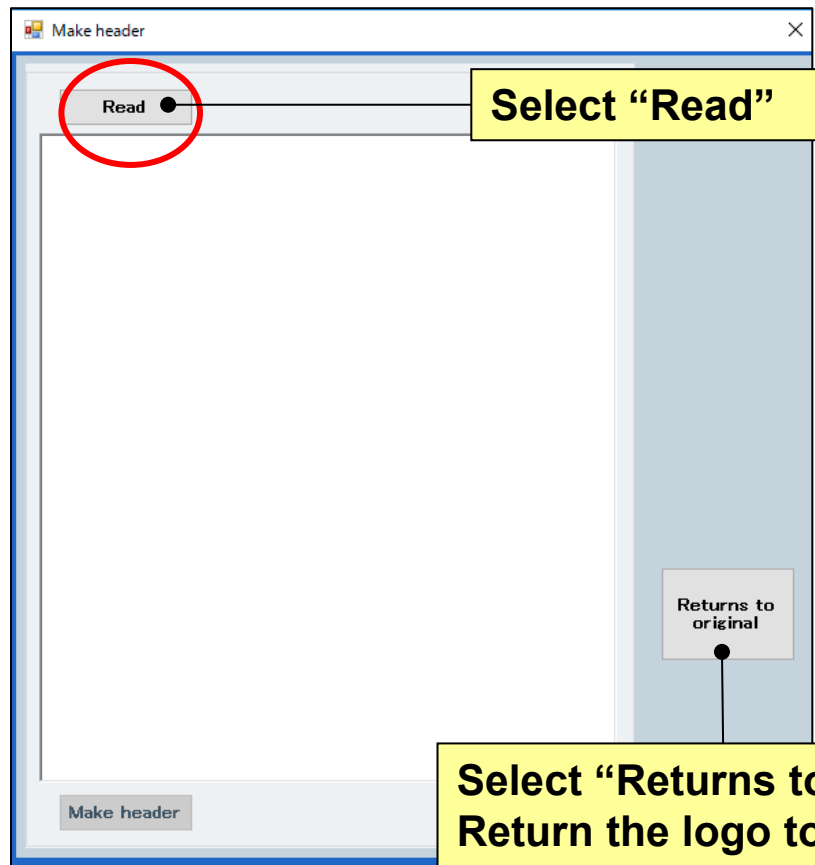


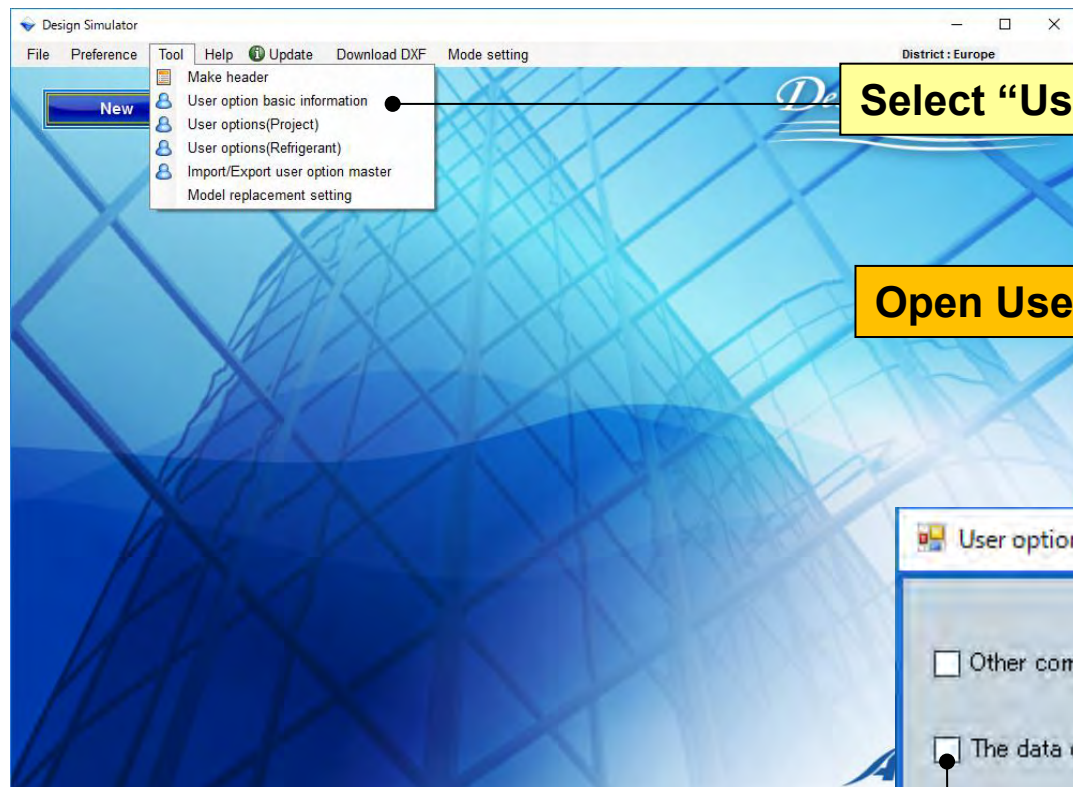
# Initial settings

## Design Simulator

### Make header

The report header logo can be freely changed for each company

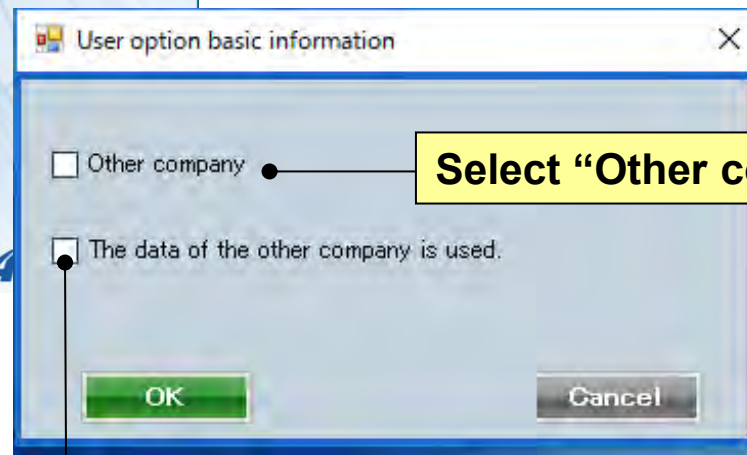




**Select “User option basic information”**



**Open User option basic information menu**

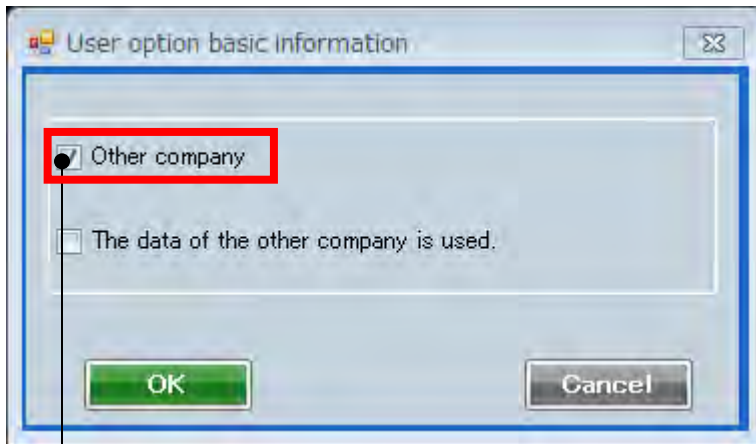


**Select “Other company”**

**Select “The date of the other company is used.”**



## User option basic information



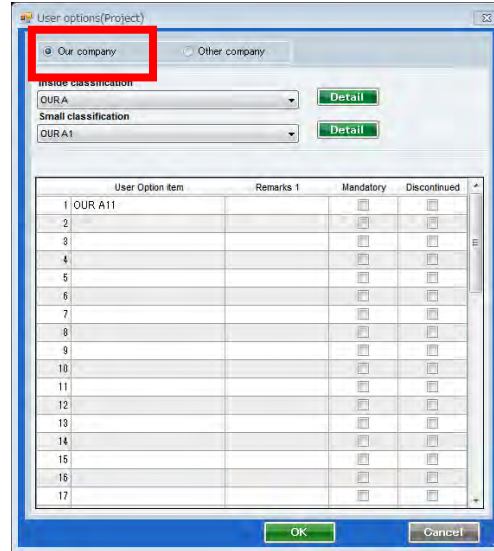
User option basic information

☒ Other company

☐ The data of the other company is used.

OK Cancel

Only the options registered in your company can be selected



User options(Project)

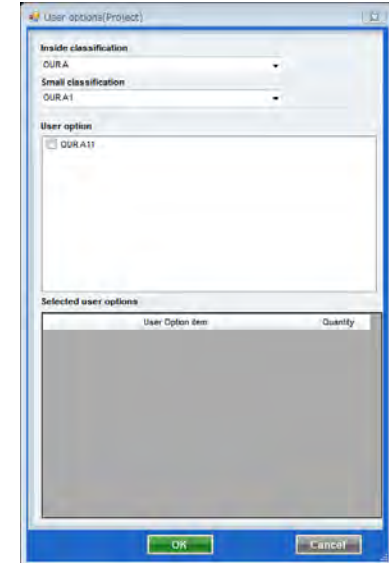
☒ Our company ☐ Other company

Inside classification: OUR A Detail

Small classification: OUR A1 Detail

User Option item	Remarks 1	Mandatory	Discontinued
1 OUR A11		<input type="checkbox"/>	<input type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
11		<input type="checkbox"/>	<input type="checkbox"/>
12		<input type="checkbox"/>	<input type="checkbox"/>
13		<input type="checkbox"/>	<input type="checkbox"/>
14		<input type="checkbox"/>	<input type="checkbox"/>
15		<input type="checkbox"/>	<input type="checkbox"/>
16		<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel



User options(Project)

Inside classification: OUR A

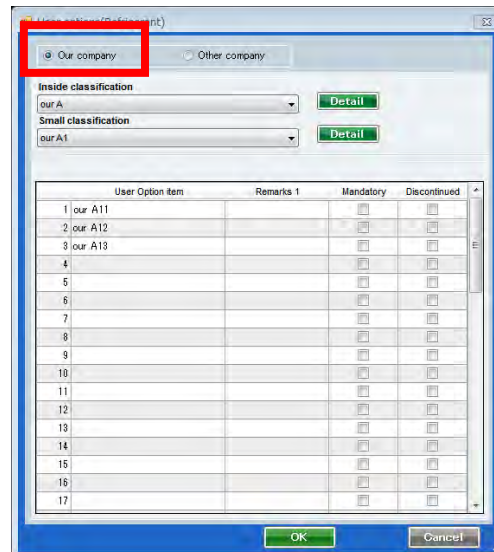
Small classification: OUR A1

User option: ☒ OUR A11

Selected user options:

User Option item	Quantity
------------------	----------

OK Cancel



User options(Project)

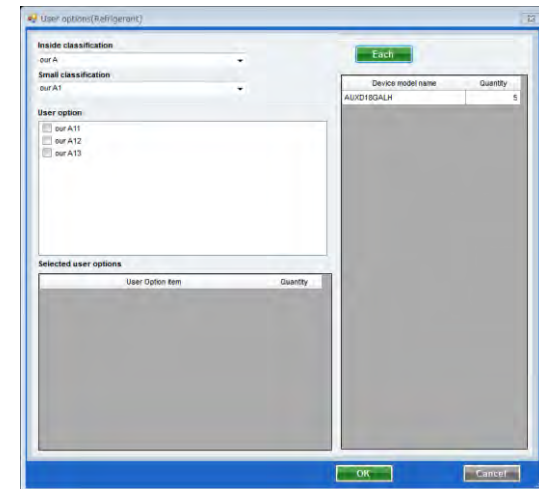
☒ Our company ☐ Other company

Inside classification: our A Detail

Small classification: our A1 Detail

User Option item	Remarks 1	Mandatory	Discontinued
1 our A11		<input type="checkbox"/>	<input type="checkbox"/>
2 our A12		<input type="checkbox"/>	<input type="checkbox"/>
3 our A13		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
11		<input type="checkbox"/>	<input type="checkbox"/>
12		<input type="checkbox"/>	<input type="checkbox"/>
13		<input type="checkbox"/>	<input type="checkbox"/>
14		<input type="checkbox"/>	<input type="checkbox"/>
15		<input type="checkbox"/>	<input type="checkbox"/>
16		<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel



User options(Refrigerant)

Each

Inside classification: our A

Small classification: our A1

User option: ☐ our A11 ☐ our A12 ☐ our A13

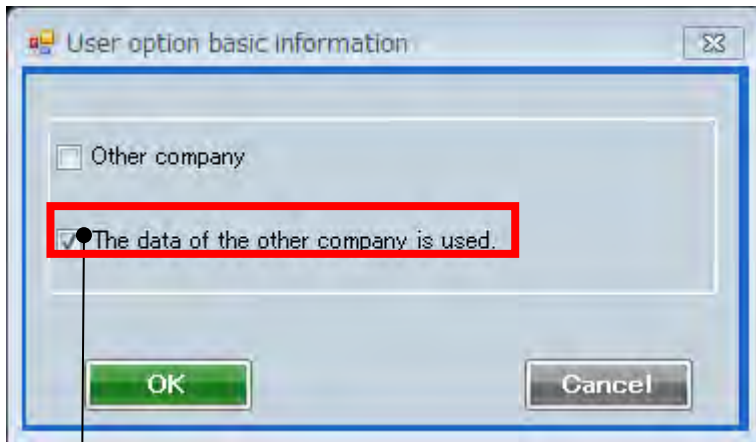
Selected user options:

User Option item	Quantity
------------------	----------

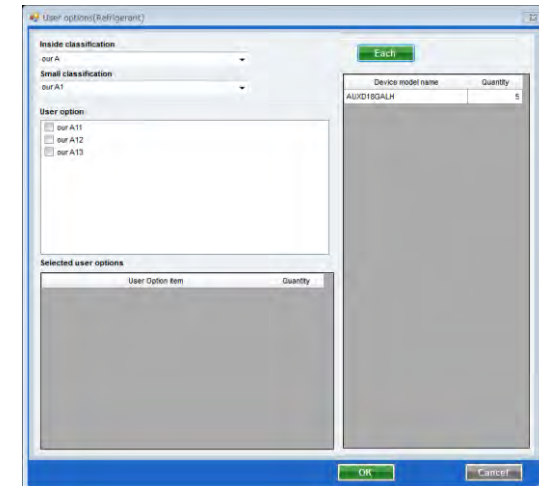
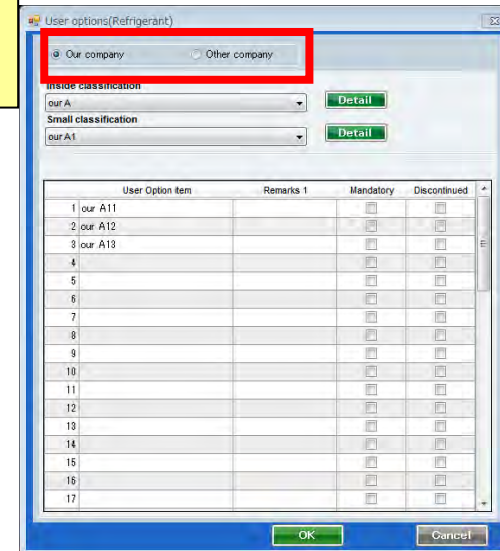
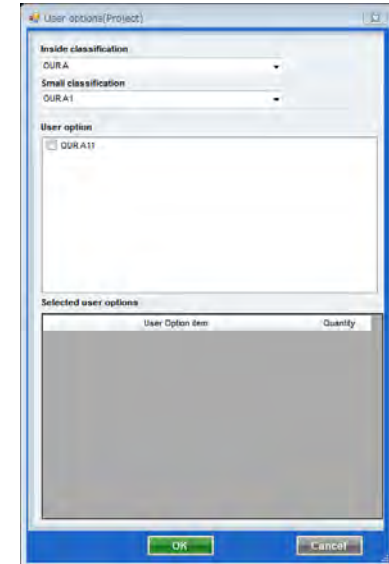
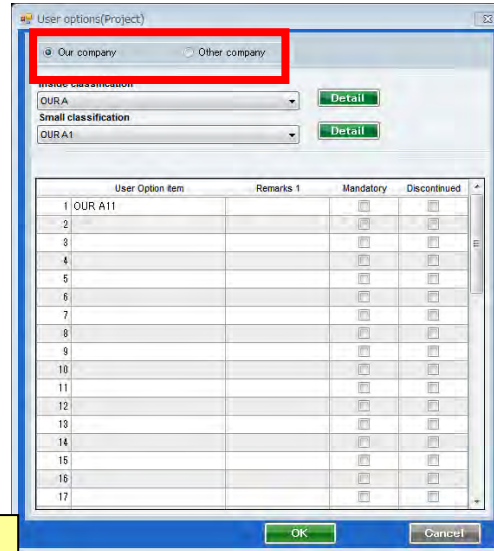
OK Cancel



## User option basic information

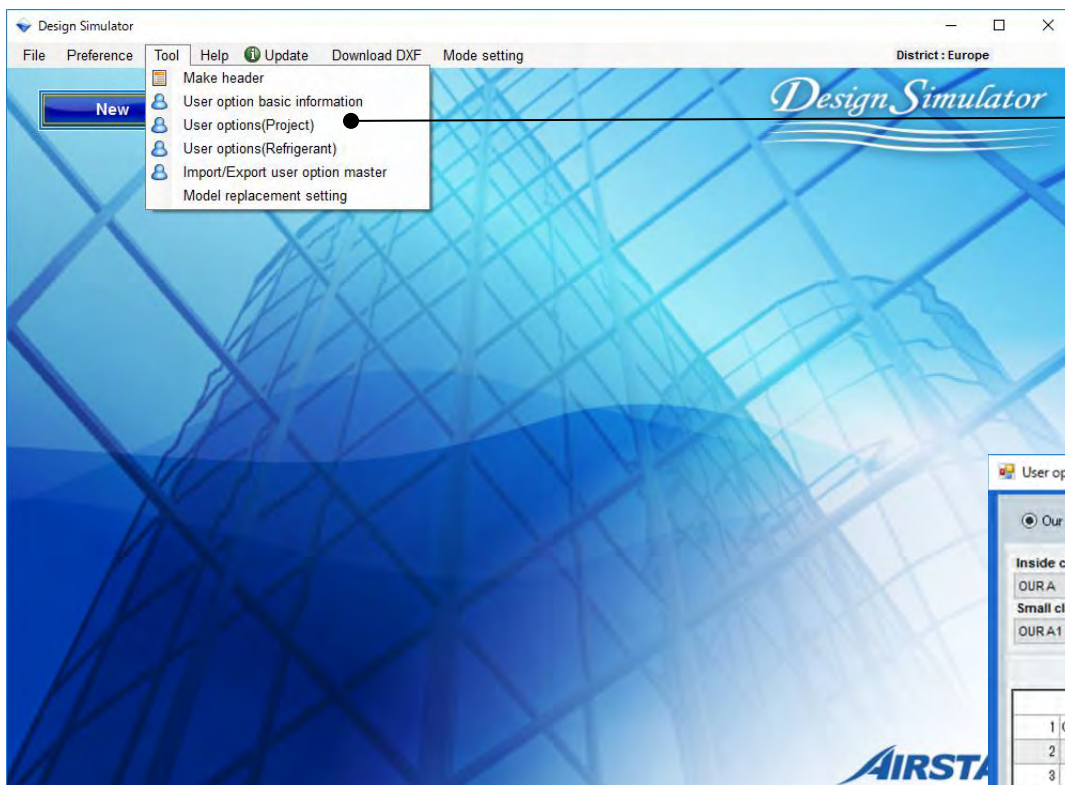


Both the options registered in your company and the other company can be selected

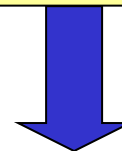


# Initial settings

## Design Simulator



Select “User option (Project)”



Open “User option (Project)”

The 'User options(Project)' dialog box is shown. It has two radio buttons at the top: 'Our company' (selected) and 'Other company'. Below are two sections: 'Inside classification' with a dropdown set to 'OUR A' and a 'Detail' button; and 'Small classification' with a dropdown set to 'OUR A1' and a 'Detail' button. At the bottom is a table with 17 rows and 4 columns: 'User Option item', 'Remarks 1', 'Mandatory', and 'Discontinued'. The first row is pre-filled with '1 OUR A'. The 'Discontinued' column has a checked checkbox for the first row. At the bottom are 'OK' and 'Cancel' buttons.

User Option item	Remarks 1	Mandatory	Discontinued
1 OUR A		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
11		<input type="checkbox"/>	<input type="checkbox"/>
12		<input type="checkbox"/>	<input type="checkbox"/>
13		<input type="checkbox"/>	<input type="checkbox"/>
14		<input type="checkbox"/>	<input type="checkbox"/>
15		<input type="checkbox"/>	<input type="checkbox"/>
16		<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>

## User option(Project)(1/2)

User options(Project)

☒ Our company ☐ Other company

Inside classification: OUR A Detail

Small classification: OUR A1 Detail

	User Option item	Remarks 1	Mandatory	Discontinued
1	OUR A		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2			<input type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>
5			<input type="checkbox"/>	<input type="checkbox"/>
6			<input type="checkbox"/>	<input type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>
11			<input type="checkbox"/>	<input type="checkbox"/>
12			<input type="checkbox"/>	<input type="checkbox"/>
13			<input type="checkbox"/>	<input type="checkbox"/>
14			<input type="checkbox"/>	<input type="checkbox"/>
15			<input type="checkbox"/>	<input type="checkbox"/>
16			<input type="checkbox"/>	<input type="checkbox"/>
17			<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel



Design Simulator

File Preference Tool Help Update Download DXF Mode setting

District : Europe

New Open User option Detail

Project Name: Management Number:

Model Selection

VRF system 2017/06/07 Previous models

Price quote

Price list Quotation

Select "Discontinued"  
The checked options are not displayed in the selection list

User options(Project)

Inside classification: OUR A

Small classification: OUR A

User option

selected user options

User Option item	Quantity
------------------	----------

OK Cancel

## User option(Project)(2/2)

User options(Project)

☒ Our company ☐ Other company

Inside classification  
OUR A Detail

Small classification  
OUR A1 Detail

User Option item	Remarks 1	Mandatory	Discontinued
1 OUR A		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
11		<input type="checkbox"/>	<input type="checkbox"/>
12		<input type="checkbox"/>	<input type="checkbox"/>
13		<input type="checkbox"/>	<input type="checkbox"/>
14		<input type="checkbox"/>	<input type="checkbox"/>
15		<input type="checkbox"/>	<input type="checkbox"/>
16		<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel



Design Simulator

File Preference Tool Help Update Download DXF Mode setting

District : Europe

New Open

Project Name Management Number User option Detail

Model Selection

VRF system 2017.06/07

Previous models

Price quote

Price list Quotation

User options(Project)

Inside classification  
OUR A

Small classification  
OUR A1

User option  
☒ OUR A11

Selected user options

User Option item	Quantity
OUR A11	1

OK Cancel

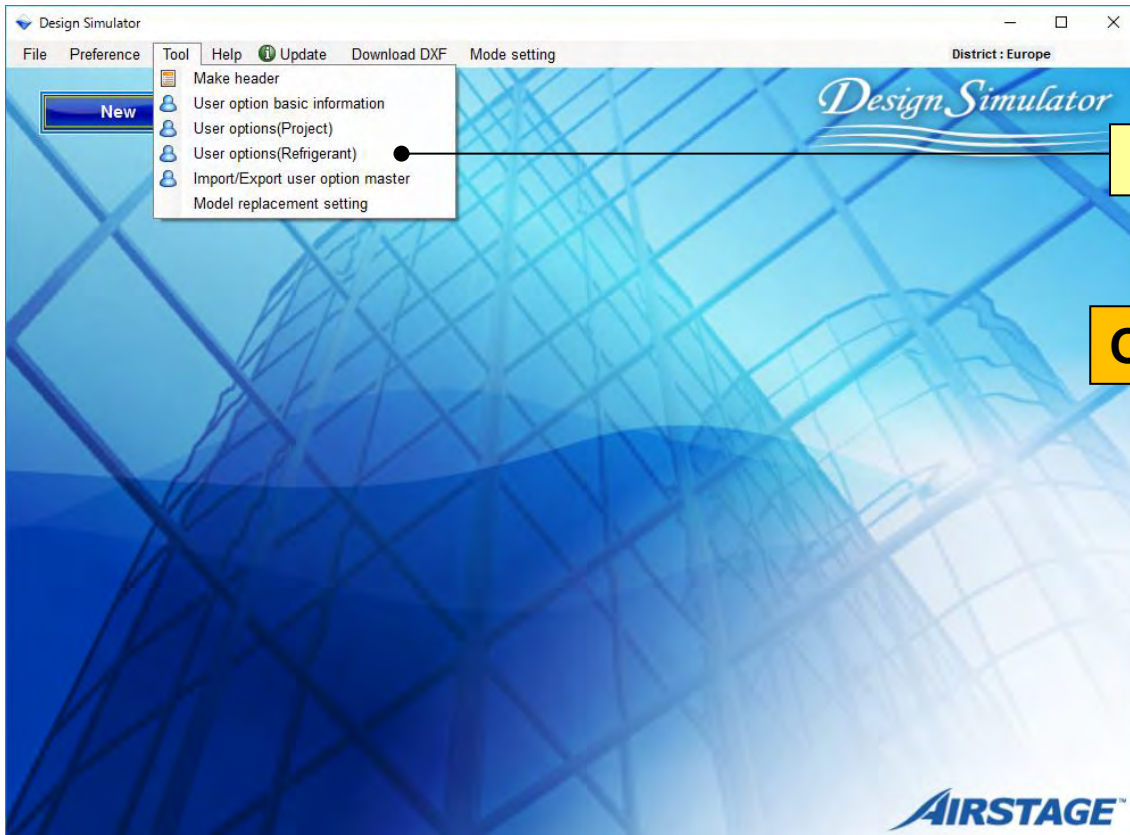
Select "Mandatory"

The checked options are always selected in the project

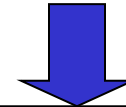


# Initial settings

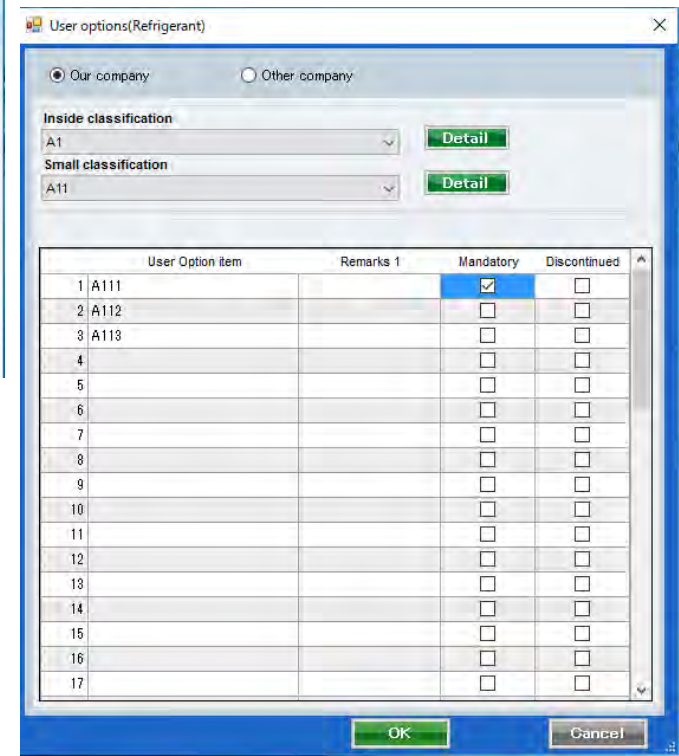
## Design Simulator



Select "User option (Refrigerant)"



Open "User option (Refrigerant)"



The optional parts to be used individually can be registered.



## User option(Refrigerant)(1/2)

User options(Refrigerant)

☒ Our company ☐ Other company

Inside classification  
A1 Detail

Small classification  
A11 Detail

User Option item	Remarks 1	Mandatory	Discontinued
1 A111		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 A112		<input type="checkbox"/>	<input type="checkbox"/>
3 A113		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
11		<input type="checkbox"/>	<input type="checkbox"/>
12		<input type="checkbox"/>	<input type="checkbox"/>
13		<input type="checkbox"/>	<input type="checkbox"/>
14		<input type="checkbox"/>	<input type="checkbox"/>
15		<input type="checkbox"/>	<input type="checkbox"/>
16		<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel

User options(Refrigerant)

Inside classification  
A1

Small classification  
A11

User option  
☒ A111  
☐ A112  
☐ A113

Selected user options

User Option item	Quantity
A111	1

OK Cancel

Select "User option"

Select "Mandatory"

The checked options are always selected for each refrigerant system

## User option(Refrigerant)(2/2)

User options(Refrigerant)

☒ Our company ☐ Other company

Inside classification  
A1 Detail

Small classification  
A11 Detail

User Option item	Remarks 1	Mandatory	Discontinued
1 A111		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2 A112		<input type="checkbox"/>	<input type="checkbox"/>
3 A113		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
11		<input type="checkbox"/>	<input type="checkbox"/>
12		<input type="checkbox"/>	<input type="checkbox"/>
13		<input type="checkbox"/>	<input type="checkbox"/>
14		<input type="checkbox"/>	<input type="checkbox"/>
15		<input type="checkbox"/>	<input type="checkbox"/>
16		<input type="checkbox"/>	<input type="checkbox"/>
17		<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel

Wiring

Indoor unit Outdoor unit Piping Wiring Control Report Menu

Wiring cable  
☒ Transmission line ☐ Power line

User options(Refrigerant)

Inside classification  
A1 Detail

Small classification  
A11 Detail

User option  
☐ A112  
☐ A113

Selected user options

User Option item	Quantity
AUXB04GALH	14

OK Cancel

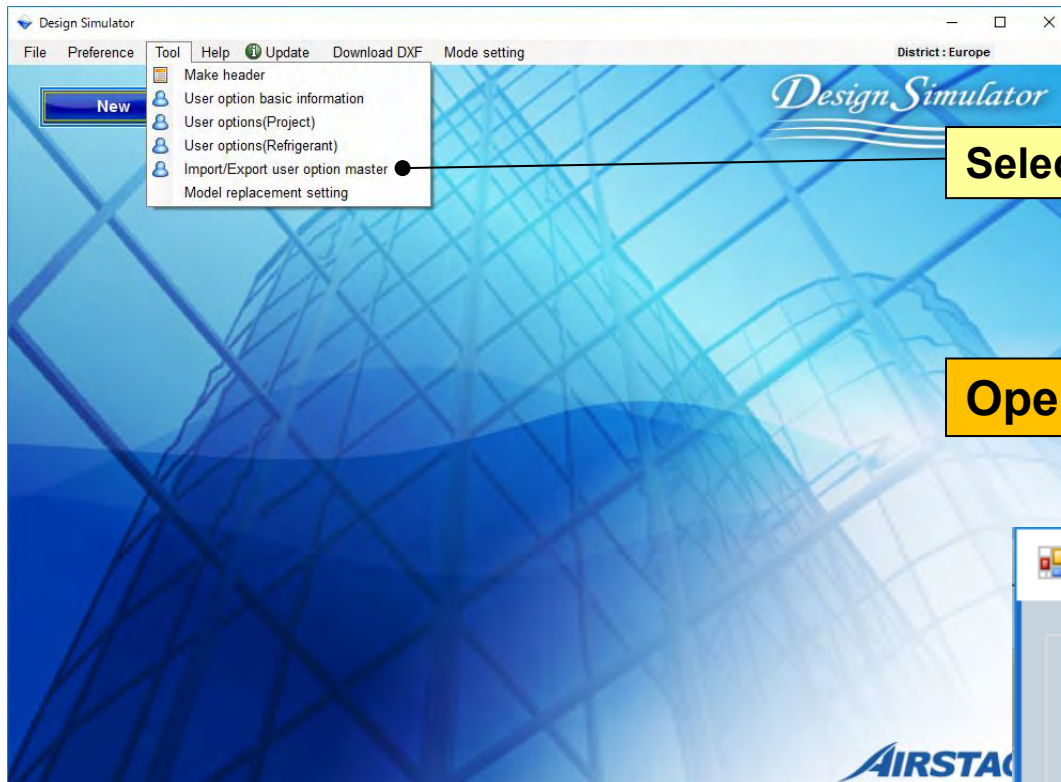
Select "User option"

Select "Dis continued"

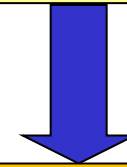
The checked options are not displayed in the selection list

# Initial settings

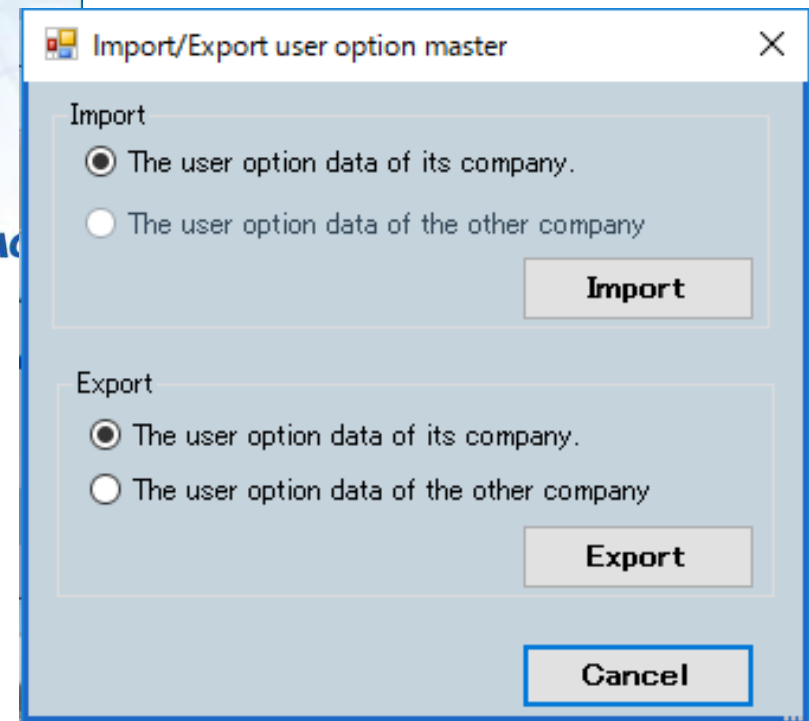
## Design Simulator



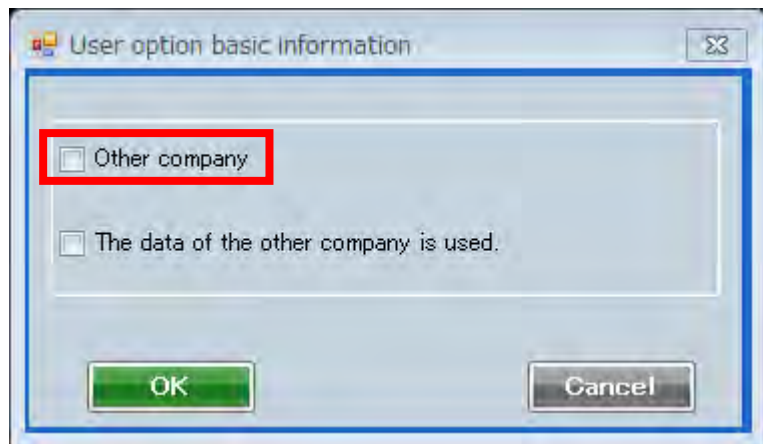
Select "Import/Export user option master"



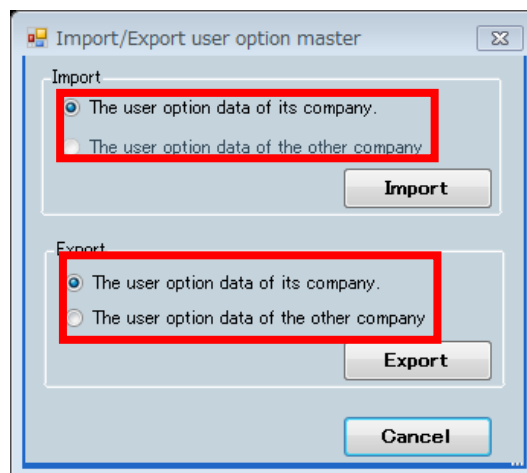
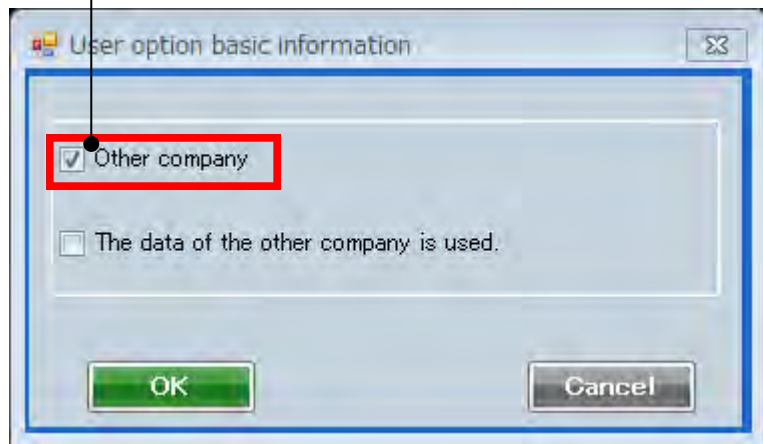
Open "User option basic information"



## Import/Export user option master(1/2)



Select "Other company"

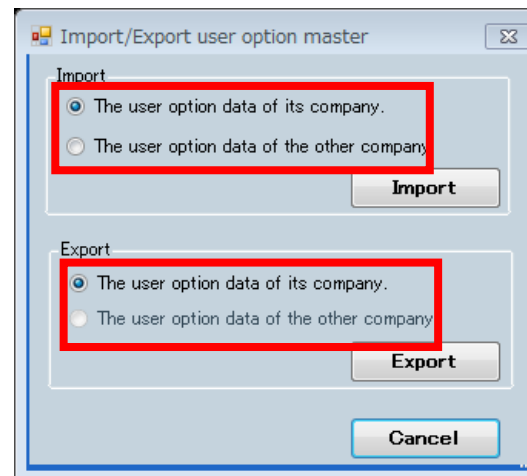


**Import:**

Only "The user option data of its company" can be selected.

**Export:**

Both items can be selected.



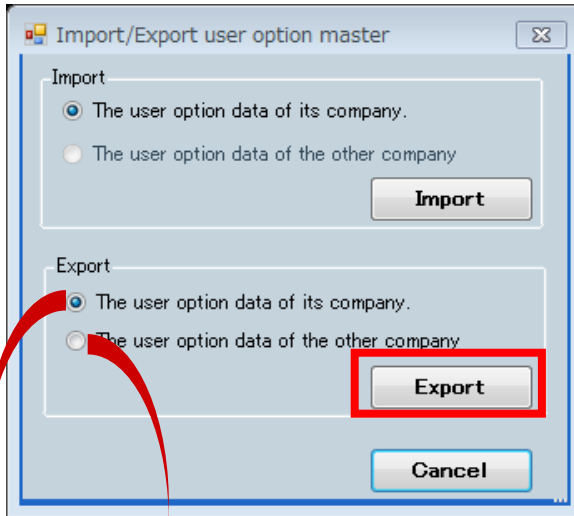
**Import:**

Both items can be selected.

**Export:**

Only "The user option data of its company" can be selected.

## Import/Export user option master(2/2)



Import/Export user option master

Import

☒ The user option data of its company.

☐ The user option data of the other company

Export

☒ The user option data of its company.

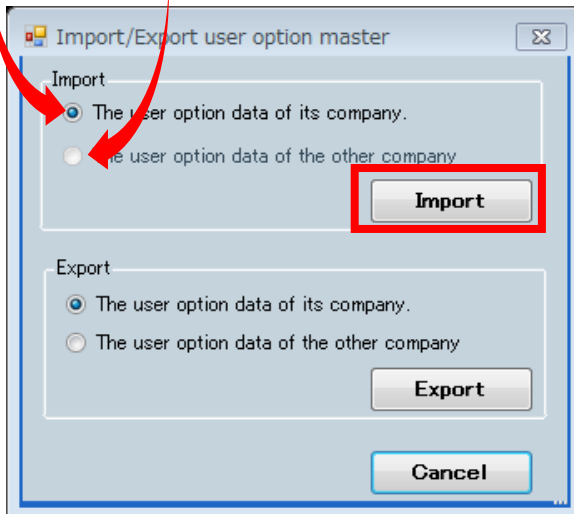
☐ The user option data of the other company

Cancel

### Export:

Select “The user option data of its company.”  
Only the data registered for your company will be exported. (\*.uof)

Select “The user option data of the other company.”  
Only the data registered for the other company will be exported. (\*.uof)



Import/Export user option master

Import

☒ The user option data of its company.

☐ The user option data of the other company

Export

☐ The user option data of its company.

☐ The user option data of the other company

Cancel

### Import:

Select “The user option data of its company.”  
The data of your company can be imported. (\*.uof)

Select “The user option data of the other company.”  
The data of the other company can be imported. (\*.uof)



**Select "Model replacement setting"**

**Open "Model replacement setting"**

**Select "Import"**

**Select "Export"**

**Select "sort"**

**Select "Clear"**

**Select "Search"**

**Select "New"**

**Select "Add"**

**Model replacement setting**

Table name: Replacement table - 01

Unit: Indoor

Search Model:

What model (before replacement)

Model	RC C (kW)	RC H (kW)	Unit	Type	Model	RC C (kW)	RC H (kW)
INDZ15A	1.7	1.9	Indoor	Compact cassette	AUXB04GALH	1.1	1.3
INDZ20A	2.2	2.5	Indoor	Compact cassette	AUXB07GALH	2.2	2.8
INDZ25A	2.8	3.2	Indoor	Compact cassette	AUXB09GALH	2.8	3.2
INDZ32A	3.6	4.0	Indoor	Compact cassette	AUXB12GALH	3.6	4.1
INDZ40A	4.5	5.0	Indoor	Compact cassette	AUXB14GALH	4.5	5.0
INDZ50A	5.6	6.3	Indoor	Compact cassette	AUXB18GALH	5.6	6.3
INDZ15A3	1.7	1.9	Indoor	Slim duct(Drain pump internal)	ARXD04GALH	1.1	1.3
INDZ20A3	2.2	2.5	Indoor	Slim duct(Drain pump internal)	ARXD07GALH	2.2	2.8
INDZ25A3	2.8	3.2	Indoor	Slim duct(Drain pump internal)	ARXD09GALH	2.8	3.2
INDZ32A3	3.6	4.0	Indoor	Slim duct(Drain pump internal)	ARXD12GALH	3.6	4.0
INDZ40A3	4.5	5.0	Indoor	Slim duct(Drain pump internal)	ARXD14GALH	4.5	5.0
INDZ50A3	5.6	6.3	Indoor	Slim duct(Drain pump internal)	ARXD18GALH	5.6	6.3
INDZ63A3	8.0	9.0	Indoor	Slim duct(Drain pump internal)	ARXD24GALH	7.1	8.0

Record: New, delete

OK, Cancel

# Initial settings

# Design Simulator

## model replacement setting(1/4)

The model can be registered which is to be replaced and after replacement with the model replacement function.

**(1) Add New**

**(2) Input "Text"**

**(3) Select "indoor or outdoor"**

**(4) Select "Model information"**

**(5) Select "type"**

**(6) select "Unit"**

Table name: Replacement table - 01

Search Mode: [Search] [Clear]

What model (before replacement):

Model	RC C (kW)	RC H (kW)	Unit	Type	Model	RC C (kW)	RC H (kW)
INDZ15A	1.7	1.9	Indoor	Compact cassette	AUXB04GALH	1.1	1.3
INDZ20A	2.2	2.5	Indoor	Compact cassette	AUXB07GALH	2.2	2.8
INDZ25A	2.8	3.2	Indoor	Compact cassette	AUXB09GALH	2.8	3.2
INDZ32A	3.6	4.0	Indoor				
INDZ40A	4.5	5.0	Indoor				
INDZ50A	5.6	6.3	Indoor				
INDZ15A3	1.7	1.9	Indoor				
INDZ20A3	2.2	2.5	Indoor				
INDZ25A3	2.8	3.2	Indoor				
INDZ32A3	3.6	4.0	Indoor				
INDZ40A3	4.5	5.0	Indoor				
INDZ50A3	5.6	6.3	Indoor				
INDZ63A3	8.0	9.0	Indoor				

Model-information

Indoor

Type: Compact cassette

Image	Name	Capa C (kW)	Capa H (kW)	Airflow (l/s)	Sp (Pa)	Sound (dB)	WxHxD (mm)	Weight (kg)	Pipe (mm)
	AUXB04GALH	1.1	1.3	97.2/125/147.2		25/30/34	245x570x570	14.50	6.35x
	AUXB04GBLH	1.1	1.3	97.2/125/147.2		21/28/34	245x570x570	14.50	6.35x
	AUXB07GALH	2.2	2.8	97.2/125/147.2					
	AUXB09GALH	2.8	3.2	97.2/125/147.2					
	AUXB12GALH	3.6	4.1	108.3/147.2/161.1					
	AUXB14GALH	4.5	5.0	108.3/161.1/182.9					
	AUXB18GALH	5.6	6.3	111.1/161.1/182.9					
	AUXB24GALH	7.1	8.0	125/230.5/253.8					

How to edit model: Select a model on above list and click a row on list of

Unit	Type	Model	RC C	RC H
Indoor	Compact cassette	AUXB04GALH	1.1	1.3
Indoor	Compact cassette	AUXB07GALH	2.2	2.8
Indoor	Compact cassette	AUXB09GALH	2.8	3.2
Indoor	Compact cassette	AUXB12GALH	3.6	4.1
Indoor	Compact cassette	AUXB14GALH	4.5	5.0
Indoor	Compact cassette	AUXB18GALH	5.6	6.3
Indoor	Slim duct(Drain pump internal)	ARXD04GALH	1.1	1.3
Indoor	Slim duct(Drain pump internal)	ARXD07GALH	2.2	2.8
Indoor	Slim duct(Drain pump internal)	ARXD09GALH	2.8	3.2
Indoor	Slim duct(Drain pump internal)	ARXD12GALH	3.6	4.0
Indoor	Slim duct(Drain pump internal)	ARXD14GALH	4.5	5.0
Indoor	Slim duct(Drain pump internal)	ARXD18GALH	5.6	6.3
Indoor	Slim duct(Drain pump internal)	ARXD24GALH	7.1	8.0

## model replacement setting(2/4)

Model replacement setting

Table name: Replacement table - 01 maintenance Import Export

Search Model:  Search Clear ↕ ↕

Edit Unit: Indoor 💡

What model (before replacement)			Replace with (after replacement)				
Model	RC C (kW)	RC H (kW)	Unit	Type	Model	RC C (kW)	RC H (kW)
NDZ15A	1.7	1.9	door	Compact cassette	AUXB04GALH	1.1	1.3
NDZ20A	2.2	2.5	door	Compact cassette	AUXB07GALH	2.2	2.8
NDZ25A	2.8	3.2	door	Compact cassette	AUXB09GALH	2.8	3.2
NDZ32A	3.6	4.0	door	Compact cassette	AUXB12GALH	3.6	4.1
NDZ40A	4.5	5.0	door	Compact cassette	AUXB14GALH	4.5	5.0
NDZ50A	5.6	6.3	door	Compact cassette	AUXB18GALH	5.6	6.3
NDZ15A3	1.7	1.9	door	Slim duct(Drain pump internal)	ARXD04GALH	1.1	1.3
NDZ20A3	2.2	2.5	door	Slim duct(Drain pump internal)	ARXD07GALH	2.2	2.8
NDZ25A3	2.8	3.2	door	Slim duct(Drain pump internal)	ARXD09GALH	2.8	3.2
NDZ32A3	3.6	4.0	door	Slim duct(Drain pump internal)	ARXD12GALH	3.6	4.0
NDZ40A3	4.5	5.0	door	Slim duct(Drain pump internal)	ARXD14GALH	4.5	5.0
NDZ50A3	5.6	6.3	door	Slim duct(Drain pump internal)	ARXD18GALH	5.6	6.3
NDZ63A3	8.0	9.0	door	Slim duct(Drain pump internal)	ARXD24GALH	7.1	8.0

Record: New delete ↕ ↕

OK Cancel

The model to be replaced and the model after replacement can be registered with the model replacement function.

A. Model to be replaced (Optional text)

B. Model after replacement (Only the model of this company)

\*Select from the list screen

## model replacement setting(3/4)

Model replacement setting

Table name: Replacement table - 01

**maintenance** Import Export

Search Model:  Search Clear

What model (before replacement) Replace with (after replacement)

Model	RC C (kW)	RC H (kW)	Unit	Type	Model	RC C (kW)	RC H (kW)
INDZ15A	1.7	1.9	Indoor	Compact cassette	AUXB04GALH	1.1	1.3
INDZ20A	2.2	2.5	Indoor	Compact cassette	AUXB07GALH	2.2	2.8
INDZ25A	2.8	3.2	Indoor	Compact cassette	AUXB09GALH		
INDZ32A	3.6	4.0	Indoor	Compact cassette	AUXB12GALH		
INDZ40A	4.5	5.0	Indoor	Compact cassette	AUXB14GALH		
INDZ50A	5.6	6.3	Indoor	Compact cassette	AUXB18GALH	5.6	6.3
INDZ15A3	1.7	1.9	Indoor	Slim duct(Drain pump internal)	ARXD04GALH	1.1	1.3
INDZ20A3	2.2	2.5	Indoor	Slim duct(Drain pump internal)	ARXD07GALH	2.2	2.8
INDZ25A3	2.8	3.2	Indoor	Slim duct(Drain pump internal)	ARXD09GALH	2.8	3.2
INDZ32A3	3.6	4.0	Indoor	Slim duct(Drain pump internal)	ARXD12GALH	3.6	4.0
INDZ40A3	4.5	5.0	Indoor	Slim duct(Drain pump internal)	ARXD14GALH	4.5	5.0
INDZ50A3	5.6	6.3	Indoor	Slim duct(Drain pump internal)	ARXD18GALH	5.6	6.3
INDZ63A3	8.0	9.0	Indoor	Slim duct(Drain pump internal)	ARXD24GALH	7.1	8.0

Record: New +

Select "maintenance"

The multiple replacement tables can be selected

Open "Model replacement setting"

Select "New"

Select "rename"

Select "delete"

Select "order"

List maintenance

New + rename delete

Table name

Replacement table-01

Replacement table-02

OK Cancel

(1) Maintenance (e.g. table addition and deletion)

The screenshot shows a 'List maintenance' dialog box. It contains a table with the following data:

Table name
Replacement table : 01
Replacement table : 02
Replacement table : 03

Buttons for 'New', 'rename', and 'delete' are located to the left of the table. 'OK' and 'Cancel' buttons are at the bottom.

What model		Replace with	
APW12	APW12L8TH		
APW13	APW13L8TH		
APW14	APW14L8TH		
APW15	APW15L8TH		
APW16	APW16L8TH		
APW17	APW17L8TH		
APW18	APW18L8TH		
APW19	APW19L8TH		
APW20	APW20L8TH		
APW21	APW21L8TH		
APW22	APW22L8TH		
APW23	APW23L8TH		
APW24	APW24L8TH		
APW25	APW25L8TH		
APW26	APW26L8TH		
APW27	APW27L8TH		
APW28	APW28L8TH		
APW29	APW29L8TH		
APW30	APW30L8TH		
APW31	APW31L8TH		
APW32	APW32L8TH		
APW33	APW33L8TH		
APW34	APW34L8TH		
APW35	APW35L8TH		
APW36	APW36L8TH		
APW37	APW37L8TH		
APW38	APW38L8TH		
APW39	APW39L8TH		
APW40	APW40L8TH		
APW41	APW41L8TH		
APW42	APW42L8TH		
APW43	APW43L8TH		
APW44	APW44L8TH		
APW45	APW45L8TH		
APW46	APW46L8TH		
APW47	APW47L8TH		
APW48	APW48L8TH		
APW49	APW49L8TH		
APW50	APW50L8TH		
APW51	APW51L8TH		
APW52	APW52L8TH		
APW53	APW53L8TH		
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APW55	APW55L8TH		
APW56	APW56L8TH		
APW57	APW57L8TH		
APW58	APW58L8TH		
APW59	APW59L8TH		
APW60	APW60L8TH		
APW61	APW61L8TH		
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APW65	APW65L8TH		
APW66	APW66L8TH		
APW67	APW67L8TH		
APW68	APW68L8TH		
APW69	APW69L8TH		
APW70	APW70L8TH		
APW71	APW71L8TH		
APW72	APW72L8TH		
APW73	APW73L8TH		
APW74	APW74L8TH		
APW75	APW75L8TH		
APW76	APW76L8TH		
APW77	APW77L8TH		
APW78	APW78L8TH		
APW79	APW79L8TH		
APW80	APW80L8TH		
APW81	APW81L8TH		
APW82	APW82L8TH		
APW83	APW83L8TH		
APW84	APW84L8TH		
APW85	APW85L8TH		
APW86	APW86L8TH		
APW87	APW87L8TH		
APW88	APW88L8TH		
APW89	APW89L8TH		
APW90	APW90L8TH		
APW91	APW91L8TH		
APW92	APW92L8TH		
APW93	APW93L8TH		
APW94	APW94L8TH		
APW95	APW95L8TH		
APW96	APW96L8TH		
APW97	APW97L8TH		
APW98	APW98L8TH		
APW99	APW99L8TH		
APW100	APW100L8TH		

## (2) Import/export of each table

**(2) The data of each table can be imported/exported.**



The image shows the Design Simulator application window and an 'Update' dialog box. The application window has a menu bar with 'File', 'Preference', 'Tool', 'Help', 'Update', 'Download DXF', and 'Mode setting'. The 'Update' menu item is circled in red. Below the menu bar are 'New' and 'Open' buttons. The 'Update' dialog box is open, showing the Design Simulator logo and 'AIRSTAGE' logo. It lists version information: 'DesignSimulator Ver.3.1.3.02', 'DB Ver.2017.05.25', 'DesignSimulator\_Installation Ver.1.0.0.0', and 'DesignSimulator\_Installation DB Ver.2017.06.01'. It also includes a copyright notice: 'Copyright (c) 2010 Fujitsu General Limited. All rights reserved.' The dialog has several buttons: 'Licence', 'Version History', 'Auto update', 'Manual update', and 'Close'. The 'Version History' button is highlighted with a blue border. There are also links for 'General global site' and 'Animation explanation'.

**Select "Update"**

**Select "Licence"**

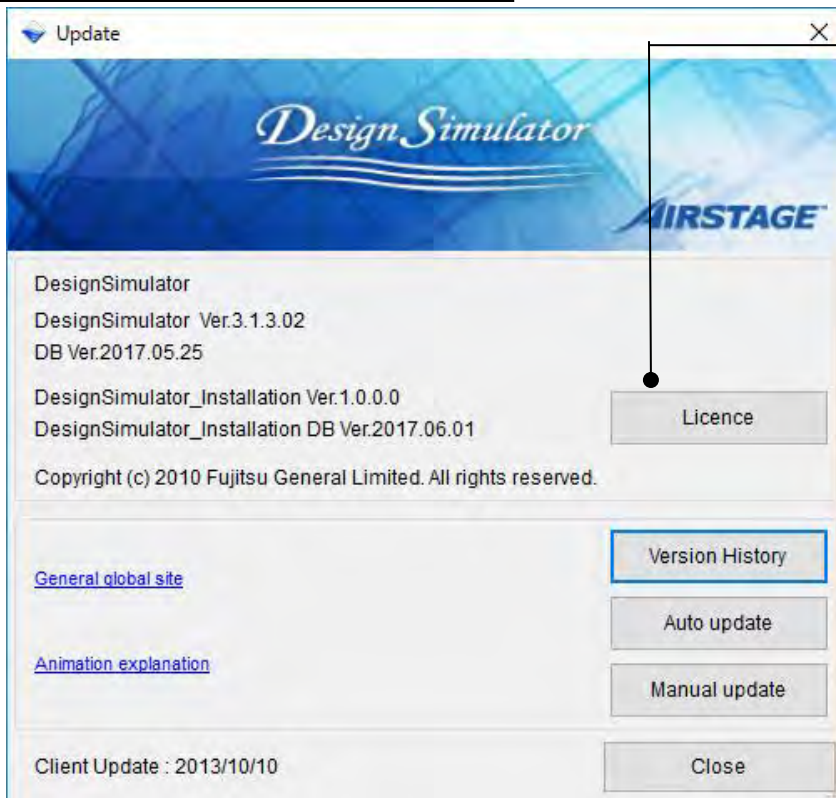
**Select "Version History"**

**Select "Manual update"**

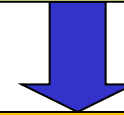
# Initial settings

# Design Simulator

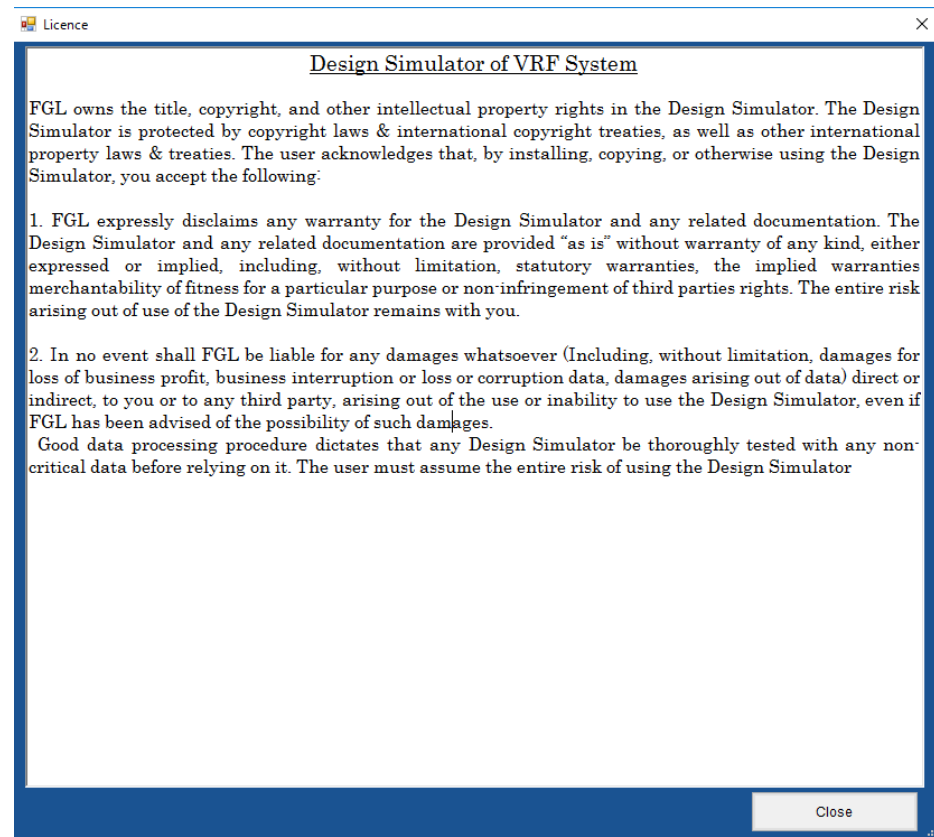
## Update(1/3)



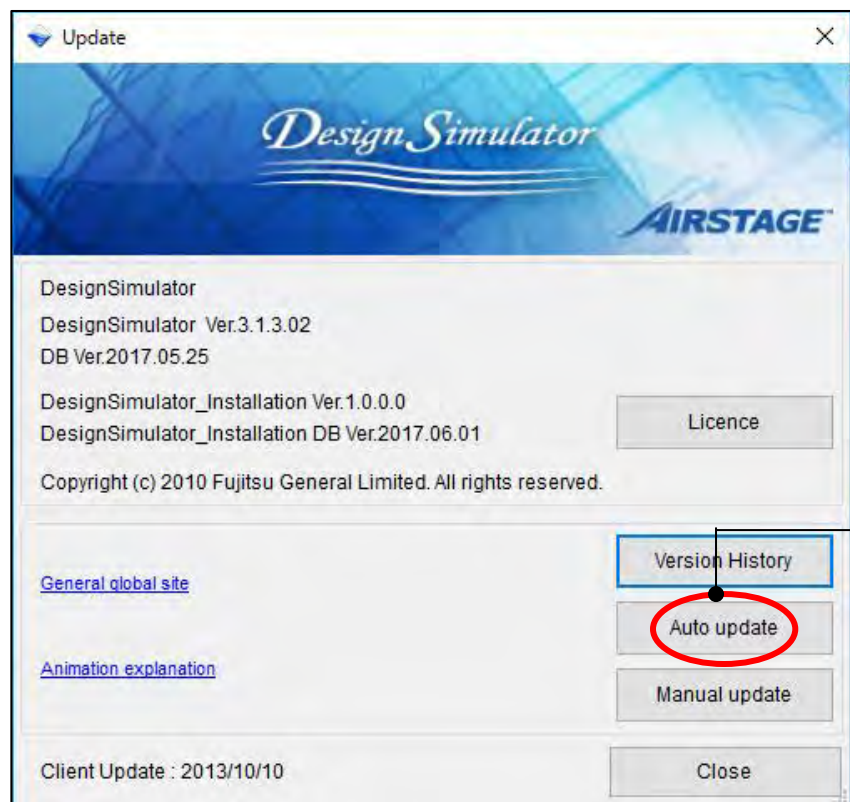
Select "Licence"



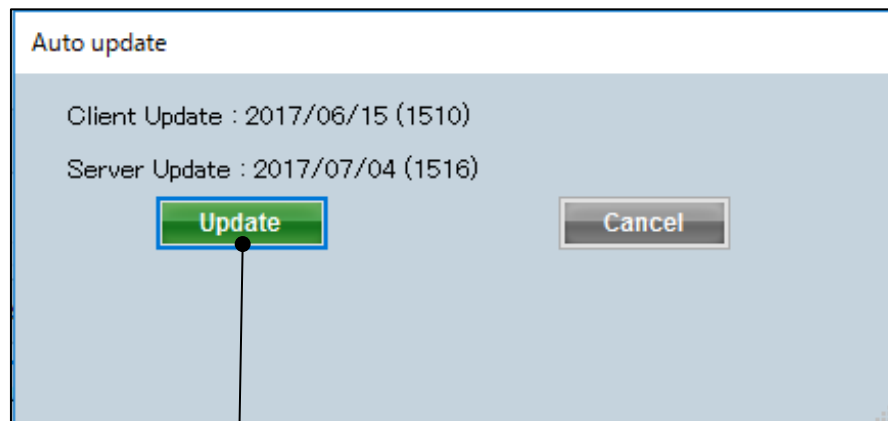
Open "Design Simulator of VRF System"



## Update(2/3)

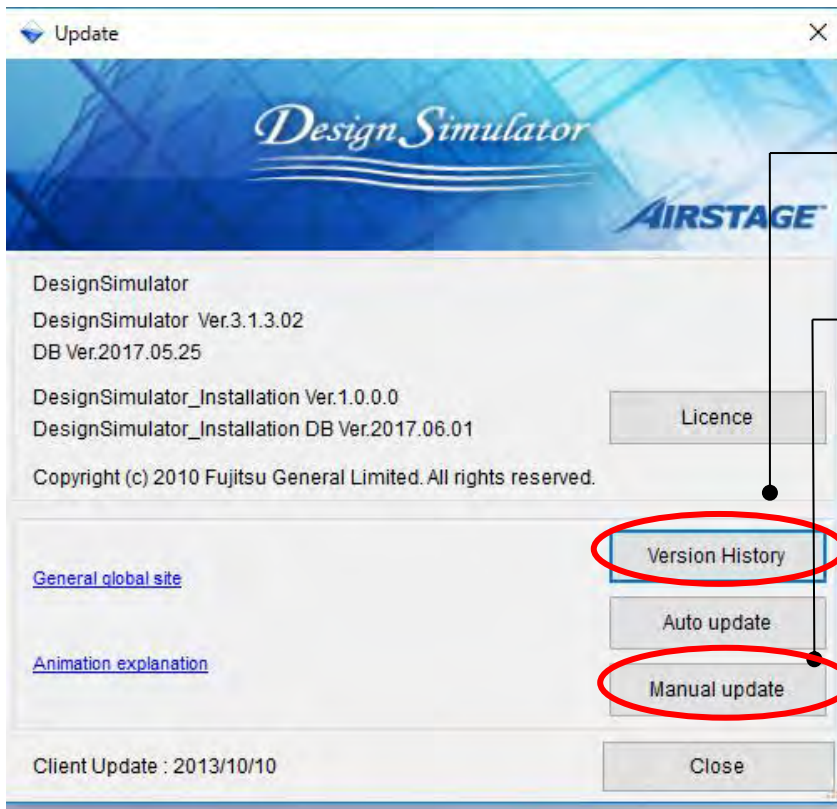


Select "Auto update"



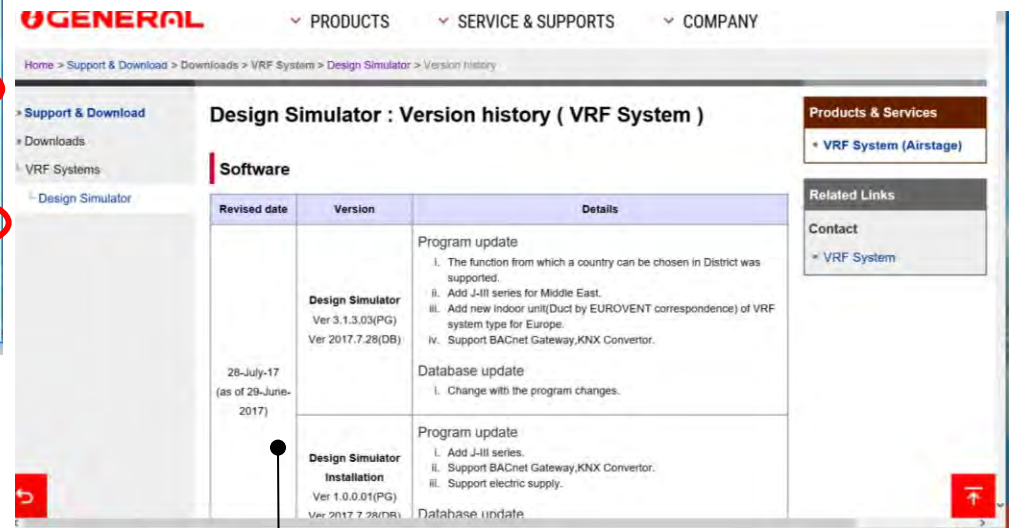
When the "Update" button is pressed, the Design Simulator version is be updated

## Update(3/3)



Select "Version History"

Select "Manual update"

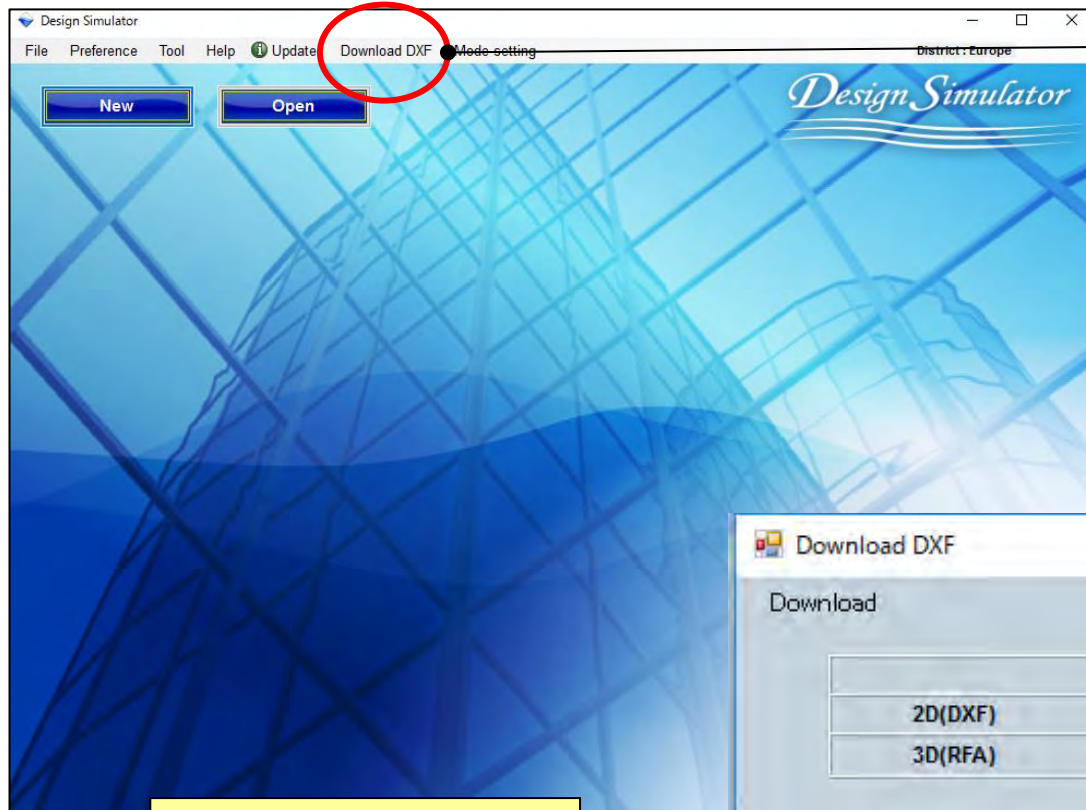


The latest version information can be displayed by pressing "Version History / Version History"



# Initial settings

## Design Simulator

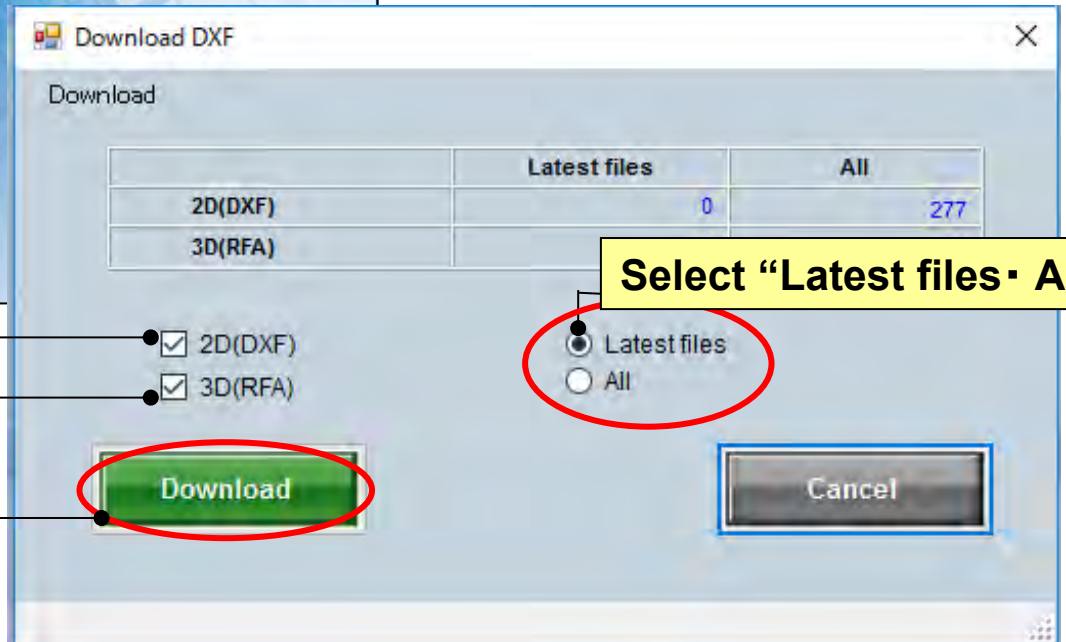


Select "Download DXF"

Select "2D (DXF)"

Select "3D (RFA)"

Select "Download"

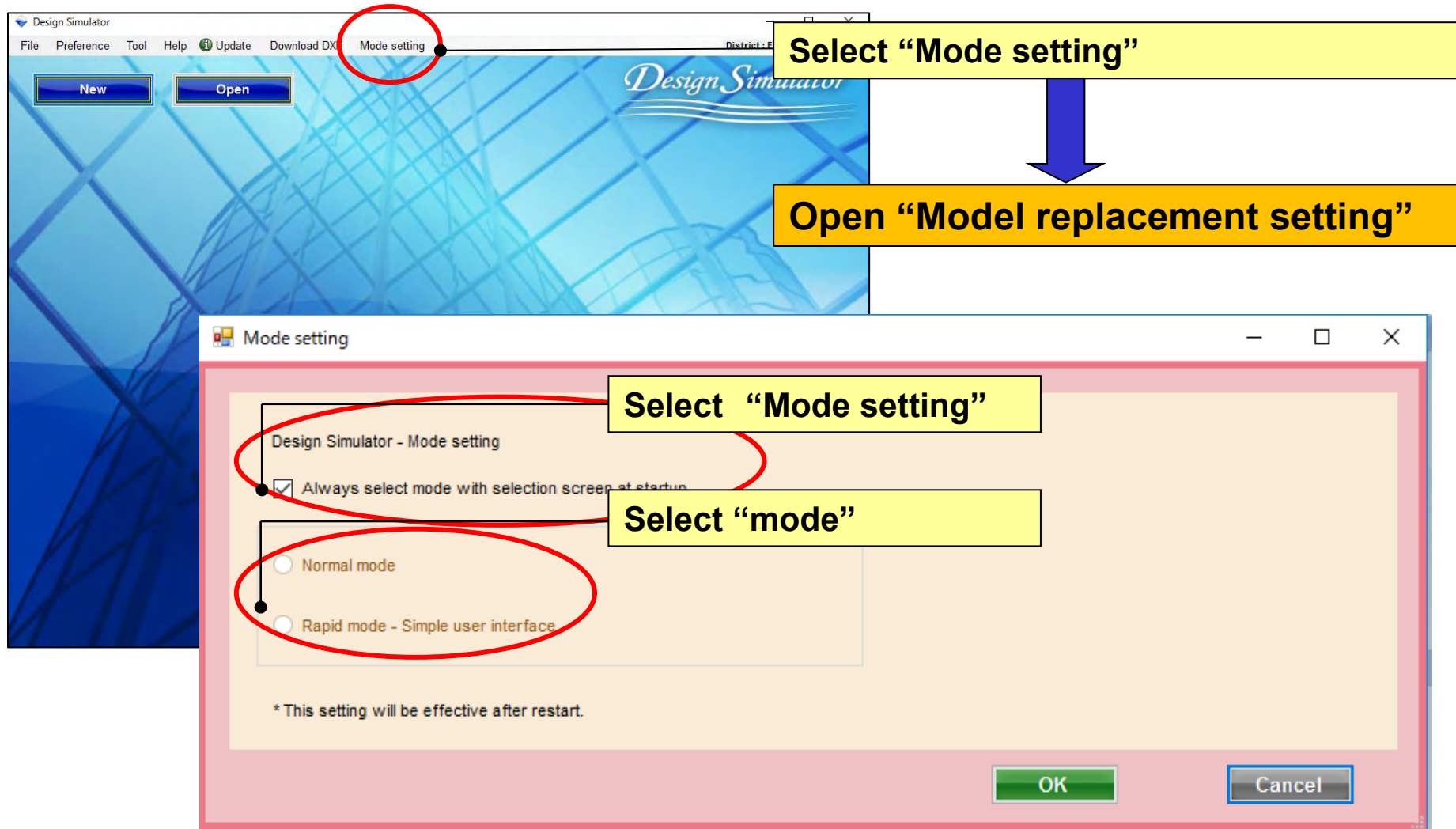


Select "Latest files · All"



# Initial settings

## Design Simulator



The image shows the initial settings process for the Design Simulator. The main window has a menu bar with 'File', 'Preference', 'Tool', 'Help', 'Update', 'Download DX', and 'Mode setting'. The 'Mode setting' menu item is circled in red. A yellow callout box points to it with the text 'Select "Mode setting"'. Below this, a blue arrow points to another yellow callout box with the text 'Open "Model replacement setting"'. The 'Mode setting' dialog box is shown in the foreground, with a pink background. It contains the following options:

- ☒ Always select mode with selection screen at startup
- ☐ Normal mode
- ☐ Rapid mode - Simple user interface

The 'Normal mode' and 'Rapid mode' radio buttons are circled in red. A yellow callout box points to the 'Always select mode with selection screen at startup' checkbox with the text 'Select "mode"'. At the bottom of the dialog box, there is a note: '\*This setting will be effective after restart.' and two buttons: 'OK' and 'Cancel'.

**Select "Mode setting"**

**Open "Model replacement setting"**

**Select "Mode setting"**

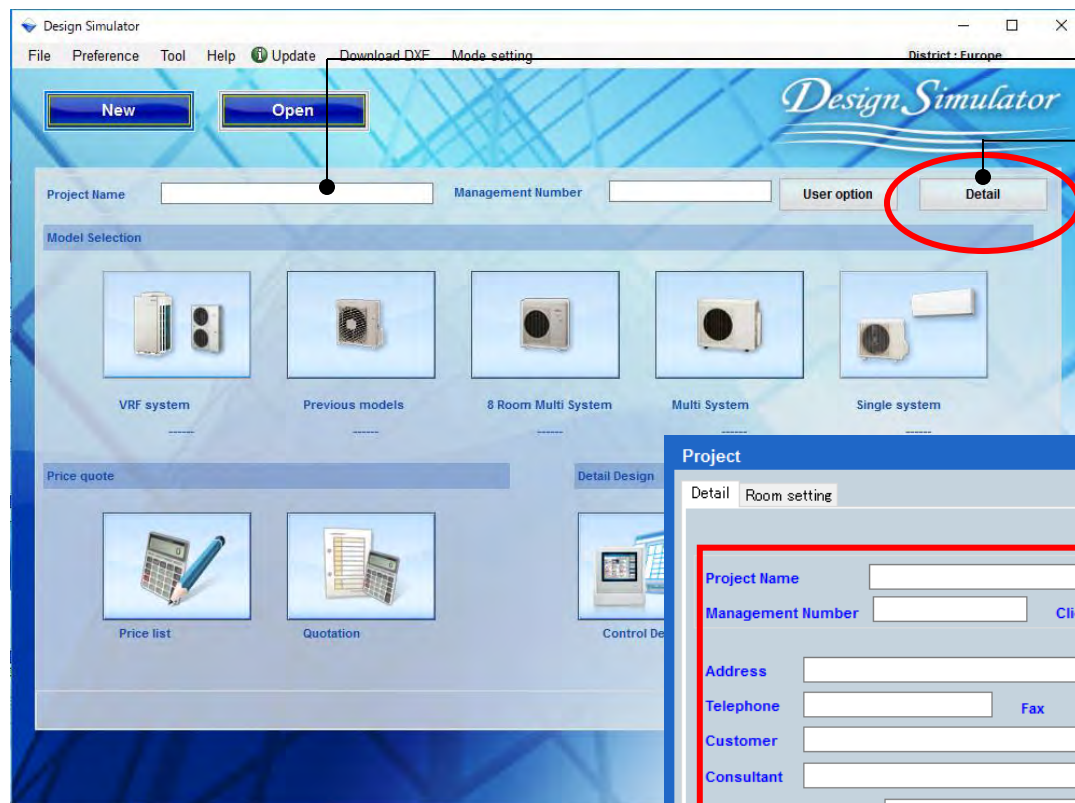
**Select "mode"**

**OK** **Cancel**

Normal mode or simple mode can be selected.

# System settings(Detail)

Design Simulator



Input project name

Select "Detail"



Open project information screen

The screenshot shows the 'Project' dialog box with a red border around the input fields. The dialog has two tabs: 'Detail' and 'Room setting'. The 'Detail' tab is selected. The fields include: Project Name, Management Number, Client Name, Building (dropdown), Address, Telephone, Fax, e-Mail, Customer, Installer, Consultant, Construct, Date of installation, Commissioning start, Note (text area), Your name, Your company, and E-mail address. At the bottom, there are 'Cancel' and 'OK' buttons.

# System settings(Detail)

Design Simulator

## Room setting function

Select Floor

Add or Remove Floor

Displayed item setting

Project

Detail Room setting

Floor type Multi Floor

Floor All

Floor setting

Item setting

	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
1	Floor1	1F_Office	10.0	10.0	5.0	10	5	15	27	43.4	20	8
2	Floor1	2F_Conference1	20.0	20.0	8.0	20	10	30	27	43.4	20	22
3	Floor1	2F_Conference2	20.0	20.0	8.0	20	10	30	27	43.4	20	22
4	Floor1	1F_Office2_1	10.0	10.0	5.0	10	5	15	27	43.4	20	8
5	Floor1	1F_Office2_2	10.0	10.0	5.0	10	5	15	27	43.4	20	8
6	Floor1	1F_Office2_3	10.0	10.0	5.0	10	5	15	27	43.4	20	8
7	Floor1	1F_Office2_4	10.0	10.0	5.0	10	5	15	27	43.4	20	8
8	Floor1	1F_Office2_5	10.0	10.0	5.0	10	5	15	27	43.4	20	8
9	Floor1	1F_Office2_6	10.0	10.0	5.0	10	5	15	27	43.4	20	8
10	Floor1	1F_Office2_7	10.0	10.0	5.0	10	5	15	27	43.4	20	8

Set indoor unit to Room

Remove Floor

Collective setting

Remove

Cancel OK

- 1. Set the number of floors and rooms of building**
- 2. Set indoor unit to each room of building**
- 3. Safety Measures Design**

**1. Set the number of floors and rooms of building**

**2. Set indoor unit to each room of building**

**3. Safety Measures Design**



# System settings(Detail)

Design Simulator

Set the number of floors of building

**Floor setting**

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
1 Floor1	1F_Office	10.0	10.0								
2 Floor1	2F_Conference1	20.0	20.0								
3 Floor1	2F_Conference2	20.0	20.0								
4 Floor1	1F_Office2_1	10.0	10.0								
5 Floor1	1F_Office2_2	10.0	10.0								
6 Floor1	1F_Office2_3	10.0	10.0								
7 Floor1	1F_Office2_4	10.0	10.0								
8 Floor1	1F_Office2_5	10.0	10.0								
9 Floor1	1F_Office2_6	10.0	10.0								
10 Floor1	1F_Office2_7	10.0	10.0								

**Add Floor**

**Remove Floor**

Select "Floor setting"

Open Floor setting screen

Floor can be added or removed

Floor2 can be added

**Floor setting**

Floor2

**Add floor**

**Remove**

**Cancel**

**OK**

# System settings(Detail)

Design Simulator

Set indoor unit to each room of building

Project

Detail Room setting

Floor type Multi Floor

Floor Floor2

Floor setting Item setting

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
-------	------	------------	-----------	------------	------------	------------	------------	-------------	--------------	-----------	-------------------------

Collective setting

Add room Remove

Cancel OK

Select "Add room"

Add or remove room

Add room to Floor

Remove room from Floor

Room can be added to Floor2

Project

Detail Room setting

Floor type Multi Floor

Floor Floor2

Floor setting Item setting

	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
1	Floor2	2F_Conference1	20	20	8	20	10	30	27	43.4	20	22
2	Floor2	2F_Conference2	20	20	8	20	10	30	27	43.4	20	22

# System settings(Detail)

Design Simulator

Set the displayed item

The screenshot shows the 'Room setting' window. The 'Item setting' button is highlighted with a red circle. The table below shows the data displayed in the window.

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
1 Floor1	1F_Office	10.0	10.0	5.0	10	5	15	27	43.4	20	8
2 Floor1	2F_Conference1	20.0	20.0	8.0	20	10	30	27	43.4	20	22
3 Floor1	2F_Conference2	20.0	20.0	8.0	20	10	30	27	43.4	20	22
4 Floor1	1F_Office2_1	10.0	10.0	5.0	10	5	15	27	43.4	20	8
5 Floor1	1F_Office2_2	10.0	10.0	5.0	10	5	15	27	43.4	20	8
6 Floor1	1F_Office2_3	10.0	10.0	5.0	10	5	15	27	43.4	20	8

Select "Item setting"

Open Item setting screen

Displayed item can be set

Check the items you want to display

Checked items are displayed

Displayed item unit

Displayed item

Only unit can be changed for Air Space / person

11-18 can be set arbitrarily by user

	Item	Unit	Use
1	Length	m	<input checked="" type="checkbox"/>
2	Width	m	<input checked="" type="checkbox"/>
3	Height	m	<input checked="" type="checkbox"/>
4	Rq TC	kW	<input checked="" type="checkbox"/>
5	Rq SC	kW	<input checked="" type="checkbox"/>
6	Rq HC	kW	<input checked="" type="checkbox"/>
7	Tmp C	DBT/RH %	<input checked="" type="checkbox"/>
8	Tmp C	DBT/RH %	<input checked="" type="checkbox"/>
9	Tmp H	C	<input checked="" type="checkbox"/>
10	Air space / person	m3	<input checked="" type="checkbox"/>
11	person	person	<input checked="" type="checkbox"/>
12	Remarks2		<input type="checkbox"/>
13	Remarks3		<input type="checkbox"/>
14	Remarks4		<input type="checkbox"/>
15	Remarks5		<input type="checkbox"/>
16	Remarks6		<input type="checkbox"/>
17	Remarks7		<input type="checkbox"/>
18	Remarks8		<input type="checkbox"/>

Project

Detail Room setting

Floor type Multi Floor

Floor All

Floor setting

Item setting

	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
1	Floor1	1F_Office	10.0	10.0	5.0	10	5	15	27	43.4	20	8
2	Floor1	2F_Conference1	20.0	20.0	8.0	20	10	30	27	43.4	20	22
3	Floor1	2F_Conference2	20.0	20.0	8.0	20	10	30	27	43.4	20	22

**1. Set the number of floors and rooms of building**

**2. Set indoor unit to each room of building**

**3. Safety Measures Design**

### Room setting function

Project

Detail: Room setting

Floor type: Multi Floor

Floor: Floor2

Floor setting

Item setting

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (RH %)	Tmp H (C)	Air space / person (m3)
1 Floor2	2F_Conference1	20	20	8	20	10	30	27	43.4	20	22
2 Floor2	2F_Conference2	20	20	8	20	10	30	27	43.4	20	22

Collective setting

Add

Can

Select "Collective setting"

Open Collective setting screen

Select Floor

Select Series

Collective setting

Floor: Floor2

Series: All

The indoor unit which is already set as a room is also indicated.

Select	Series	Name	Comments	Model	Capa C (kW)	Capa H (kW)	Outdoor
<input type="checkbox"/>	V2	Indr2	2F_Conference1	Cassette			
<input type="checkbox"/>	V2	Indr3	2F_Conference2	Ceiling			

Release Indoors

Select Indoors

Selected room information

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT/RH %)	Tmp C (DBT/RH %)	Tmp H (C)	Air space / person (m3)
Floor2	2F_Conference1	20.0	20.0	8.0	20	10	30	27	43.4	20	22

Connected indoor

Series	Name	Model	Tmp C (C/%)	Tmp H (C)	Discharge Tmp C (C/WBT)	Outside Tmp C (C/%)	Discharge Tmp H (C)	Outside Tmp H (C)	TC (kW)	SC (kW)	HC (kW)
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Close

Remove indoor unit from Room

The indoor unit which is already set is not indicated

Set indoor unit to Room



# System settings(Detail)

Design Simulator

Set indoor unit to each room

Collective setting

Floor: Floor1 Series: V2 ☐ The indoor unit which is already set as a room is also indicated.

Select	Series	Name	Comments	Model	Capa C (kW)	Capa H (kW)	Outdoor
<input checked="" type="checkbox"/>	V2	Indr1	1F_Office1	AUXB09GALH	2.0	3.2	Otdr1
<input type="checkbox"/>	V2	Indr2	2F_Conference1	ARXD04GALH	1.1	1.3	Otdr1
<input type="checkbox"/>	V2	Indr3	2F_Conference2	ABHA24GATH	7.1	8.0	Otdr1
<input type="checkbox"/>	V2	Indr4	1F_Office2_1	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr5	1F_Office2_2	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr6	1F_Office2_3	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr7	1F_Office2_4	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr8	1F_Office2_5	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr9	1F_Office2_6	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr10	1F_Office2_7	AUXB14GALH	4.5	5.0	Otdr1

**Release Indoors** **Select Indoors**

Selected room information

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)
Floor1	1F_Office	10.0	10.0	5.0	10	5

Connected indoor

Series	Name	Model	Tmp C (C%)	Tmp H (C)	Discharge Tmp C (C/WBT)	Outside Tmp C (C%)
--------	------	-------	------------	-----------	-------------------------	--------------------

Select Room

Select indoor unit you want to set

Select "Select Indoors"

The set indoor unit is displayed at each room

Collective setting

Floor: Floor1 Series: V2 ☐ The indoor unit which is already set as a room is also indicated.

Select	Series	Name	Comments	Model	Capa C (kW)	Capa H (kW)	Outdoor
<input type="checkbox"/>	V2	Indr2	2F_Conference1	ARXD04GALH	1.1	1.3	Otdr1
<input type="checkbox"/>	V2	Indr3	2F_Conference2	ABHA24GATH	7.1	8.0	Otdr1
<input type="checkbox"/>	V2	Indr4	1F_Office2_1	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr5	1F_Office2_2	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr6	1F_Office2_3	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr7	1F_Office2_4	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr8	1F_Office2_5	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr9	1F_Office2_6	AUXB14GALH	4.5	5.0	Otdr1
<input type="checkbox"/>	V2	Indr10	1F_Office2_7	AUXB14GALH	4.5	5.0	Otdr1

**Release Indoors** **Select Indoors**

Selected room information

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT/RH %)	Tmp C (DBT/RH %)	Tmp H (C)	Air space / person (m3)
Floor1	1F_Office	10.0	10.0	5.0	10	5	15	27	43.4	20	8

Connected indoor

Series	Name	Model	Tmp C (C%)	Tmp H (C)	Discharge Tmp C (C/WBT)	Outside Tmp C (C%)	Discharge Tmp H (C)	Outside Tmp H (C)	TC (kW)	SC (kW)	HC (kW)
2	Indr1	AUXB09GALH	27.0/43.4	20.0	-	-	-	-	2.7	2.0	3.2

Close

# System settings(Detail)

Design Simulator

Remove the indoor unit set at each room

Collective setting

Floor: All Series: All ☐ The indoor unit which is already set as a room is also indicated.

Floor	Room
Floor1	1F_Office
Floor1	2F_Conference1
Floor1	2F_Conference2
Floor1	1F_Office2_1
Floor1	1F_Office2_2
Floor1	1F_Office2_3
Floor1	1F_Office2_4
Floor1	1F_Office2_5
Floor1	1F_Office2_6
Floor1	1F_Office2_7

Select Series Name Comments Model Capa C (kW) Capa H (kW) Outdoor

**Release Indoors** **Select Indoors**

Selected room information

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)
Floor1	1F_Office2_7	10.0	10.0	5.0	10	5	

Connected indoor

Series	Name	Model	Tmp C (C/%)	Tmp H (C)	Discharge Tmp C (C/WBT)	Outside Tmp C (C/%)
V2	Indr10	AUXB14GALH	27.0/43.4	20.0	-	

Select Room

Select "Release Indoors"

The indoor unit set at each room can be removed

Collective setting

Floor: All Series: All ☐ The indoor unit which is already set as a room is also indicated.

Select	Series	Name	Comments	Model	Capa C (kW)	Capa H (kW)	Outdoor
<input type="checkbox"/>	V2	Indr10	1F_Office2_7	AUXB14GALH	4.5	5.0	Otdr1

**Release Indoors** **Select Indoors**

Selected room information

Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT/RH %)	Tmp C (DBT/RH %)	Tmp H (C)	Air space / person (m3)
Floor1	1F_Office2_7	10.0	10.0	5.0	10	5	15	27	43.4	20	8

Connected indoor

Series	Name	Model	Tmp C (C/%)	Tmp H (C)	Discharge Tmp C (C/WBT)	Outside Tmp C (C/%)	Discharge Tmp H (C)	Outside Tmp H (C)	TC (kW)	SC (kW)	HC (kW)
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Close

- 1. Set the number of floors and rooms of building**
- 2. Set indoor unit to each room of building**
- 3. Safety Measures Design**

### ■ Changes from existing

- Room settings screen items
- R32 indoor unit checkbox
- Piping, Wiring, Option, Output

## 1) Room setting additional point

- ① Room Areas
- ② Room Volume
- ③ Indoor unit Height
- ④ safety measure
- ⑤ R32 graph
- ⑥ Auto-selection Checkbox (Gas Sensor Only)

**Room Setting**

Detail Room setting

Floor setting \* Remove

select a floor to add rooms

Floor	Room	Length (m)	Width (m)	Height (m)	Room Area (m2)	Room Volume (m3)	IJ Height (H0) (m)	R32 VRF Safety measures Response measure 1
1 First floor	Room - A	3.0	3.0	2.3	9.0	20.7		IJ Air circulation
2 First floor	Room - B	2.0	3.0	3.5	6.0	21.0		IJ Air circulation
3 First floor	Room - C	2.0	3.0	3.5	6.0	21.0		IJ Air circulation
4 First floor	Room - D	3.0	3.0	2.3	9.0	20.7		IJ Air circulation
5 First floor	Room - E	5.0	3.0	2.3	15.0	34.5		H0 is 1.8 m or more
6 Basement	Room - L	3.0	5.0	3.5	15.0	52.5		H0 is 1.8 m or more

Room size

Indication of safety measures

Auto-selection Checkbox (Gas Sensor Only)

\*Required input \*\*Optional

Auto-select Gas Sensor Kit (inc. alarm) ☐ select one to an IU in the room which required safety measures

R32 Graph Customize List Cancel OK

## 2) R32 Indoor

Only R32 Indoor can be selected.

**Indoor Screen** ×

Name Indr7

Comments

Model

☐ Manual selection

Type ☒ R32

[R32/R410A] Compact cassette

[R32/R410A] Compact cassette





[R32] Slim duct

[R32/R410A] Wall-mounted

[R32/R410A] Wall-mounted (EEV external)

R32 Checkbox

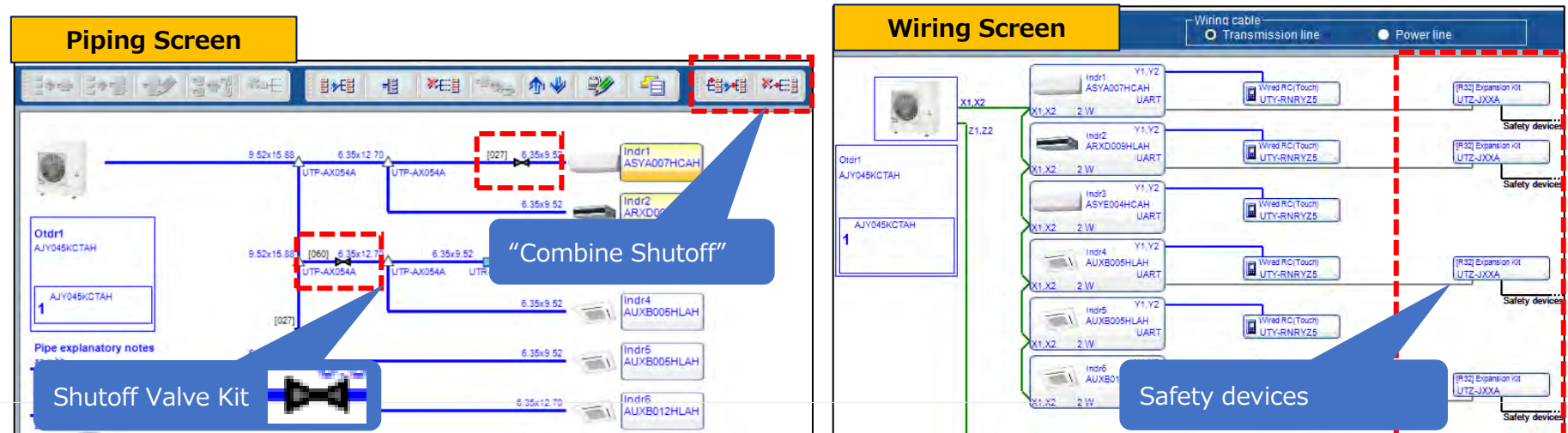
## R32 indoor unit.

[R32/R410A] Compact cassette		AUXB**HLAH
[R32] Slim duct		ARXD**HLAH
[R32/R410A] Wall-mounted		ASYA**HCAH
[R32/R410A] Wall-mounted (EEV external)		ASYE**HCAH



### 3) Piping and wiring screen

When Shutoff Valve Kit is selected on the option screen, the shutoff valve will be displayed on the piping and wiring screen. Select piping to connect Shutoff Valve Kit.



### 4) Added Option

[R32] Shutoff Valve Kit, Gas Sensor Kit, Expansion Kit

### 5) Output

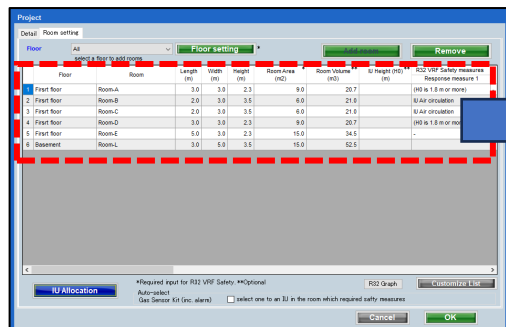
The report display safety design measures.

# Output

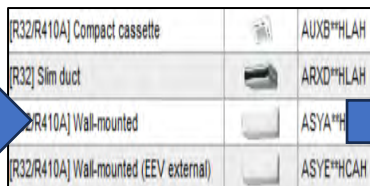
Floor <sup>1)</sup>	Room <sup>2)</sup>	Response measure 1 <sup>3)</sup>	Response measure 2 <sup>3)</sup>	Response measure 3 <sup>3)</sup>
Frsrt floor <sup>1)</sup>	Room-A <sup>2)</sup>	(H0 is 1.8 m or more) <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>
Frsrt floor <sup>1)</sup>	Room-B <sup>2)</sup>	IU Air circulation <sup>3)</sup>	Safety alarm <sup>3)</sup>	Safety shutoff valve or Ventilation <sup>3)</sup>
Frsrt floor <sup>1)</sup>	Room-C <sup>2)</sup>	IU Air circulation <sup>3)</sup>	Safety alarm <sup>3)</sup>	Safety shutoff valve or Ventilation <sup>3)</sup>
Frsrt floor <sup>1)</sup>	Room-D <sup>2)</sup>	(H0 is 1.8 m or more) <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>
Frsrt floor <sup>1)</sup>	Room-E <sup>2)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>
Basement <sup>1)</sup>	Room-L <sup>2)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>
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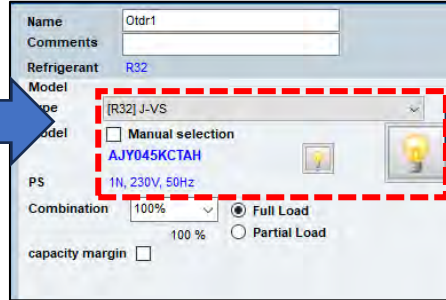
## (1) Room setting



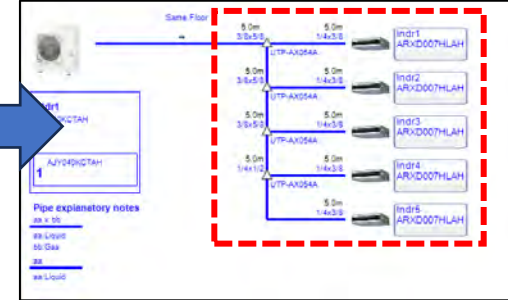
## (2) R32 Indoor Selection



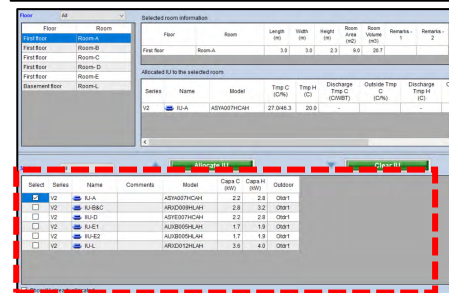
## (3) R32 Outdoor Selection



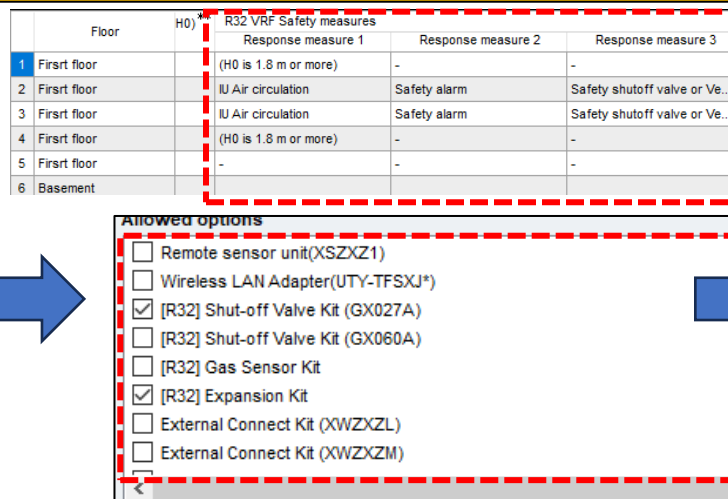
## (4) Input Pipe length



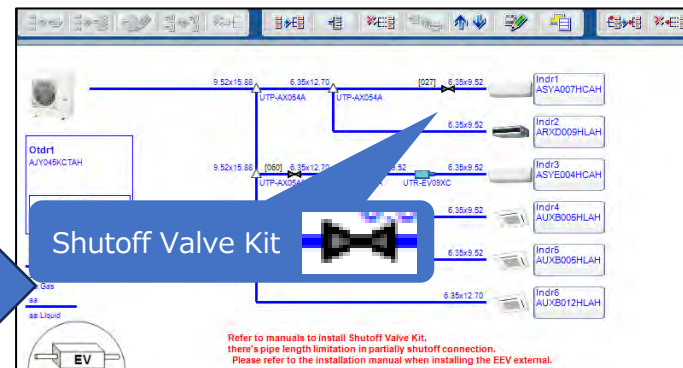
## (5) Allocate indoor Units to rooms



## (6) Confirming safety measures (7) Options selection



## (8) Shutoff Valve Kit is displayed on piping screen



The procedure is an example.  
The order of design is free.

### (1) Setting room and displaying Safety Measures Design

Design Simulator

File Preference Tool Help Update Download DXF Mode setting District : Europe / FUJITSU

New Open Project Manager

Project Name Management Number User option Detail

Model selection

Project

Detail Room setting

Floor All select a floor to add rooms Floor setting Add room Remove

Floor	Room	Length (m)	Width (m)	Height (m)	Room Area (m2) *	Room Volume (m3) **	IU Height (H0) (m) **	R32 VRF Safety measures
1 First floor	Room-A	3.0	3.0	2.3	9.0	20.7		Response measure 1
2 First floor	Room-B	2.0	3.0	3.5	6.0	21.0		(H0 is 1.8 m or more)
3 First floor	Room-C	2.0	3.0	3.5	6.0	21.0		IU Air circulation
4 First floor	Room-D	3.0	3.0	2.3	9.0	20.7		IU Air circulation
5 First floor	Room-E	5.0	3.0	2.3	15.0	34.5		(H0 is 1.8 m or more)
6 Basement	Room-L	3.0	5.0	3.5	15.0	52.5		-

Input Room size

Indication of safety measures

Auto-selection Checkbox (Gas Sensor Only)

IU Allocation

\*Required input R32 VRF Safety. \*\*Optional

Auto-select Gas Sensor Kit (inc. alarm) ☐ select one to an IU in the room which required safty measures

R32 Graph Customize List

Cancel OK

Select "Detail"



Floor setting

Room setting



Select "Add room"

## (2) R32 Indoor unit selection

Indoor unit

File Preference Tool Help Update

Indoor unit Outdoor unit

Input new indoor unit

Name Indr1

Comments

Model

☐ Manual selection

Type ☒ R32

Model [R32/R410A] Compact cassette

Airflow level High

RC Wired RC(Touch) Z5 Options

Design criteria

Cooling

DBT C 27.0 Required capacity TC kW 0.5

RH % 46.3 SC kW 0.5

Heating

DBT C 20 Required capacity HC kW 0.5

Additional information

Room setting

Cancel Add

☒ R32

Only R32 indoor unit can be displayed.

Indoor setting

Check the Room setting screen in "Detail"

### • R32 indoor unit example

[R32/R410A] Compact cassette		AUXB**HLAH
[R32] Slim duct		ARXD**HLAH
[R32/R410A] Wall-mounted		ASYA**HCAH
[R32/R410A] Wall-mounted (EEV external)		ASYE**HCAH

## (3) R32 Outdoor unit selection

Modify outdoor unit

Name: Otdr1

Comments:

Refrigerant: R32

Model Type: [R32] J-VS

Model: ☐ Manual selection  
AJY045KCTAH

PS: 1N, 230V, 50Hz

Combination: 100% ☒ Full Load ☐ Partial Load  
100 %

capacity margin ☐

Outdoor dry bulb temperature  
Cooling: C 35.0 Heating: C 7

Actual capacity  
Cooling: 13.1 kW Heating: 14.0 kW

Piping  
Actual piping length: m 11.0

Position of outdoor unit relative to indoor unit  
☐ Higher ☒ Same Floor ☐ Lower

Height difference between outdoor and indoor units: m 0.0

Indoor unit not yet connected

Partial Load operation

Cancel OK

Select "R32 outdoor unit"

Otdr1 AJY045KCTAH 93.6%

- Indr1 ASYA007HCAH
- Indr2 ARXD009HLAH
- Indr3 ASYE004HCAH
- Indr4 AUXB005HLAH
- Indr5 AUXB005HLAH
- Indr6 AUXB012HLAH



### (4) Input Piping length

Select "Piping length"

Input Piping length

The screenshot displays the 'Piping' design simulator interface. The top menu bar includes 'File', 'Preference', 'Tool', 'Help', and 'Update'. Below the menu is a toolbar with icons for various functions. The main workspace shows a piping diagram with an outdoor unit 'Otdr1 AJY040KCTAH' connected to five indoor units (Indr1 to Indr5) via UTP-AX054A pipes. The diagram includes labels for pipe sizes (e.g., 3/8x5/8, 1/4x3/8) and lengths (5.0m). A red dashed box highlights the 'Manual inputs pipe length' section in the left sidebar, which contains a 'Pipe length' button and a 'Reset length' button. The sidebar also displays 'Pipe explanatory notes' and 'Height difference between outdoor and indoor unit'.

**Note**

In order to design safety measures, the pipe length needs to be entered to calculate the amount of refrigerant.



## (5) Assign indoor unit on the room setting screen

**Select "IU Allocation"**

**Allocation indoor unit to room**

**Indoor setting and Allocated Indoor Unite**

**Project**

Detail **Room setting**

Floor All **Floor setting** \* **Add room** **Remove**

select a floor to add rooms

Floor	Room
1 First floor	Room-A
2 First floor	Room-B
3 First floor	Room-C
4 First floor	Room-D
5 First floor	Room-E
6 Basement	Room-L

**IU Allocation**

\*Required input  
Auto-select Gas Sensor

**Selected room information**

Floor	Room	Length (m)	Width (m)	Height (m)	Volume (m3)	Remarks - 1	Remarks - 2
First floor	Room-A	3.0	3.0	2.3	20.7		

**Allocated IU to the selected room**

Series	Name	Model	Tmp C (C/%)	Tmp H (C)	Discharge Temp (C)	Outside Temp C (C/%)	Discharge Temp H (C)	Out
V2	IU-A	ASYA007HCAH	27.0/46.3	20.0				

**Allocate IU** **Clear IU**

Select	Series	Name	Comments	Model	Capa C (kW)	Capa H (kW)
<input checked="" type="checkbox"/>	V2	IU-A		ASYA007HCAH	2.2	2.8
<input type="checkbox"/>	V2	IU-B&C		ARXD009HHLAH	2.8	3.2
<input type="checkbox"/>	V2	IU-D		ASYE007HCAH	2.2	2.8
<input type="checkbox"/>	V2	IU-E1		AUXB005HHLAH	1.7	1.9
<input type="checkbox"/>	V2	IU-E2		AUXB005HHLAH	1.7	1.9
<input type="checkbox"/>	V2	IU-L		ARXD012HHLAH	3.6	4.0

☒ Show IU already allocated.

# Confirming Safety Measures Design (1/2) *Design Simulator*

## (6) Check Safety Measures Design on Room setting screen

Project

Detail Room setting

Floor

All

Floor setting \*

Add room

Remove

select a floor to add rooms

	Floor	H0)**	R32 VRF Safety measures			Note
			Response measure 1	Response measure 2	Response measure 3	
1	First floor		(H0 is 1.8 m or more)	-	-	No required measure
2	First floor		IU Air circulation	Safety alarm	Safety shutoff valve or Ve...	There's no Gas Sensor Kit in this room.
3	First floor		IU Air circulation	Safety alarm	Safety shutoff valve or Ve...	There's no Gas Sensor Kit in this room.
4	First floor		(H0 is 1.8 m or more)	-	-	No required measure
5	First floor		-	-	-	No required measure
6	Basement					

Display of Safety Measures Design and note

Report

Displayed on report

93.R32 VRF Safety measures

Floor	Room	Response measure 1	Response measure 2	Response measure 3
First floor	Room-A	(H0 is 1.8 m or more)	-	-
First floor	Room-B	IU Air circulation	Safety alarm	Safety shutoff valve or Ventilation
First floor	Room-C	IU Air circulation	Safety alarm	Safety shutoff valve or Ventilation
First floor	Room-D	(H0 is 1.8 m or more)	-	-
First floor	Room-E	-	-	-
Basement	Room-L			

Customize List

OK

Floor	Room	Note
First floor	Room-A	No required measure
First floor	Room-B	There's no Gas Sensor Kit in this room.
First floor	Room-C	There's no Gas Sensor Kit in this room.
First floor	Room-D	No required measure

# Confirming Safety Measures Design (2/2) *Design Simulator*

Check R32 graph on the room settings screen

Project

Detail Room setting

Floor All select a floor to add rooms Floor setting \* Add room Remove

Floor	Room	Length (m)	Width (m)	Height (m)	Room Area (m <sup>2</sup> ) *	Room Volume (m <sup>3</sup> ) **	IU Height (H0) **	R32 VRF Safety measures
1 First floor	Room-A	3.0	3.0	2.3	9.0	20.7		Response measure 1
2 First floor	Room-B	2.0	3.0	3.5	6.0	21.0		(H0 is 1.8 m or more)
3 First floor	Room-C	2.0	3.0	3.5	6.0	21.0		IU Air circulation
4 First floor	Room-D	3.0	3.0	2.3	9.0	20.7		(H0 is 1.8 m or more)
5 First floor	Room-E	5.0	3.0	2.3	15.0	34.5		
6 Basement	Room-L	3.0	5.0	3.5	15.0	52.5		

IU Allocation

\*Required input for R32 VRF Safety. \*\*Optional

Auto-select Gas Sensor Kit (inc. alarm) ☐ select one to an IU in the room which required safety measures

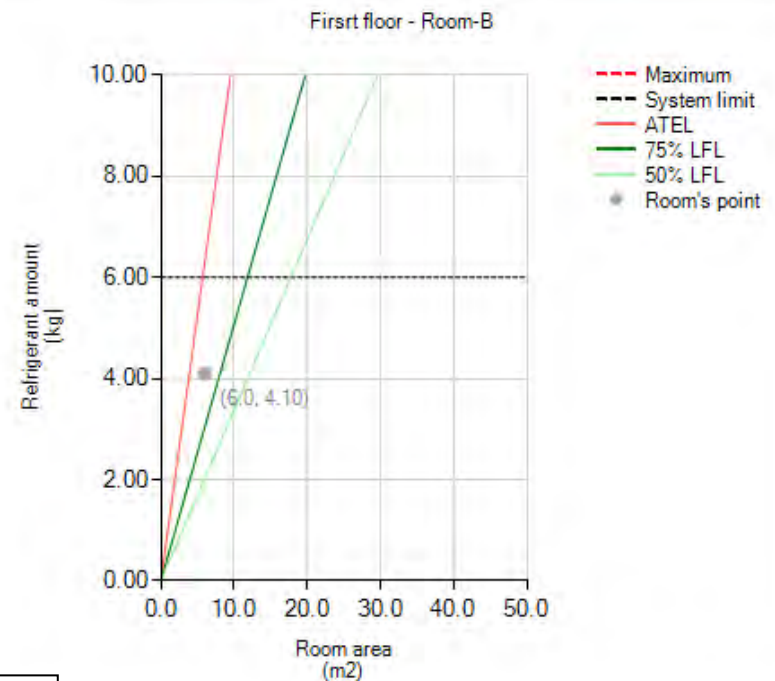
R32 Graph

Select "Floor"

Select "R32 Graph"

R32 Graph is displayed

R32 Graph



Standard concentration :LFL [kg/m<sup>3</sup>]

System maximum refrigerant amount :RefMax [kg]

### (7) Safety devices Option selection on piping screen

The screenshot displays the Design Simulator software interface. The main window is titled "Wiring" and shows a piping diagram with various components like indoor units, outdoor units, and safety devices. A yellow box labeled "Select Options" points to the "Options" button in the bottom left corner of the main window. Another yellow box labeled "Used option Screen" points to the "Used option" dialog box. The "Used option" dialog box contains a table with columns "No.", "Indoor", "Outdoor", "Gr", and "RC Line". It also has a section for "Allowed options" with checkboxes for various safety devices. A yellow box labeled "Allowed options" points to this section. The "Selected options" section at the bottom of the dialog box shows a list of selected items with their names, model numbers, and quantities.

**Select Options**

**Used option Screen**

**Allowed options**

No.	Indoor	Outdoor	Gr	RC Line
01	Indr1 ASYA007HCAH	-	-	2
02	Indr2 ARXD009HLAH	-	-	2
03	Indr3 ASYE004HCAH	-	-	2
04	Indr4 AUXB005HLAH	-	-	2
05	Indr5 AUXB005HLAH	-	-	2

**Allowed options**

- ☐ Remote sensor unit(XSZXZ1)
- ☐ Wireless LAN Adapter(UTY-TFSXJ\*)
- ☒ [R32] Shut-off Valve Kit (GX027A)
- ☐ [R32] Shut-off Valve Kit (GX060A)
- ☐ [R32] Gas Sensor Kit
- ☒ [R32] Expansion Kit
- ☐ External Connect Kit (XWZXZL)
- ☐ External Connect Kit (XWZXZM)

**Selected options**

Name	Model number	Quantity
[R32] Shut-off Valve Kit	UTP-GX027A	1
[R32] Expansion Kit	UTZ-JXXA	1

### Check the safety device on the Wiring screen

Wired RC(Touch) Z5  
Remote controller2

**Allowed options**

- ☐ Remote sensor unit(XSZXZ1)
- ☐ Wireless LAN Adapter(UTY-TFSXJ\*)
- ☒ [R32] Shut-off Valve Kit (GX027A)
- ☐ [R32] Shut-off Valve Kit (GX060A)
- ☐ [R32] Gas Sensor Kit
- ☒ [R32] Expansion Kit
- ☐ External Connect Kit (XWZXZL)
- ☐ External Connect Kit (XWZXZM)

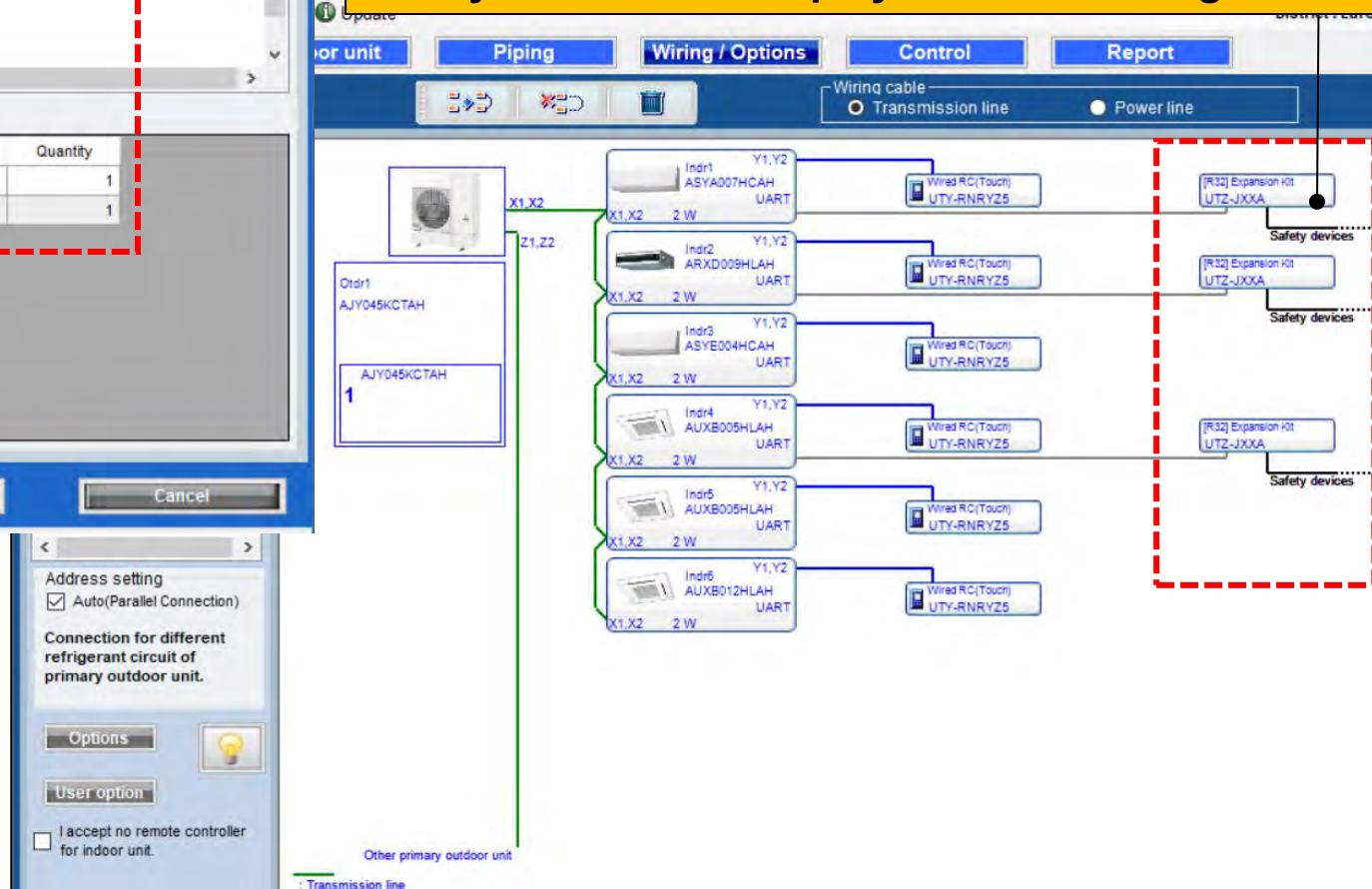
**Selected options**

Name	Model number	Quantity
[R32] Shut-off Valve Kit (G...	UTP-GX027A	1
[R32] Expansion Kit	UTZ-JXXA	1

OK Cancel

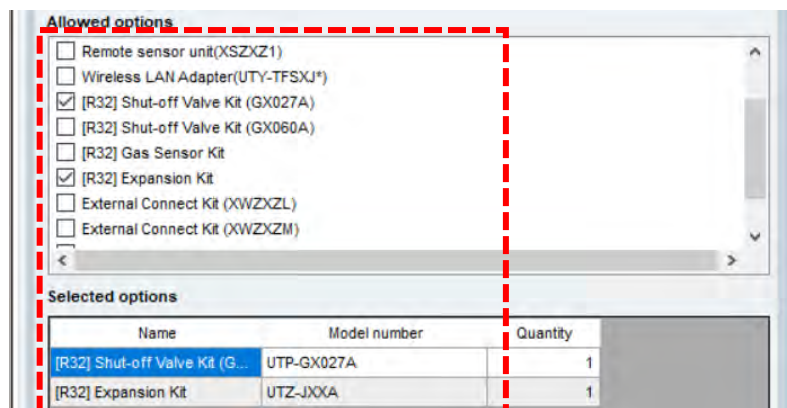
Expansion Kit are required to use Shutoff Valve Kit.

Safety devices are displayed on the wiring screen





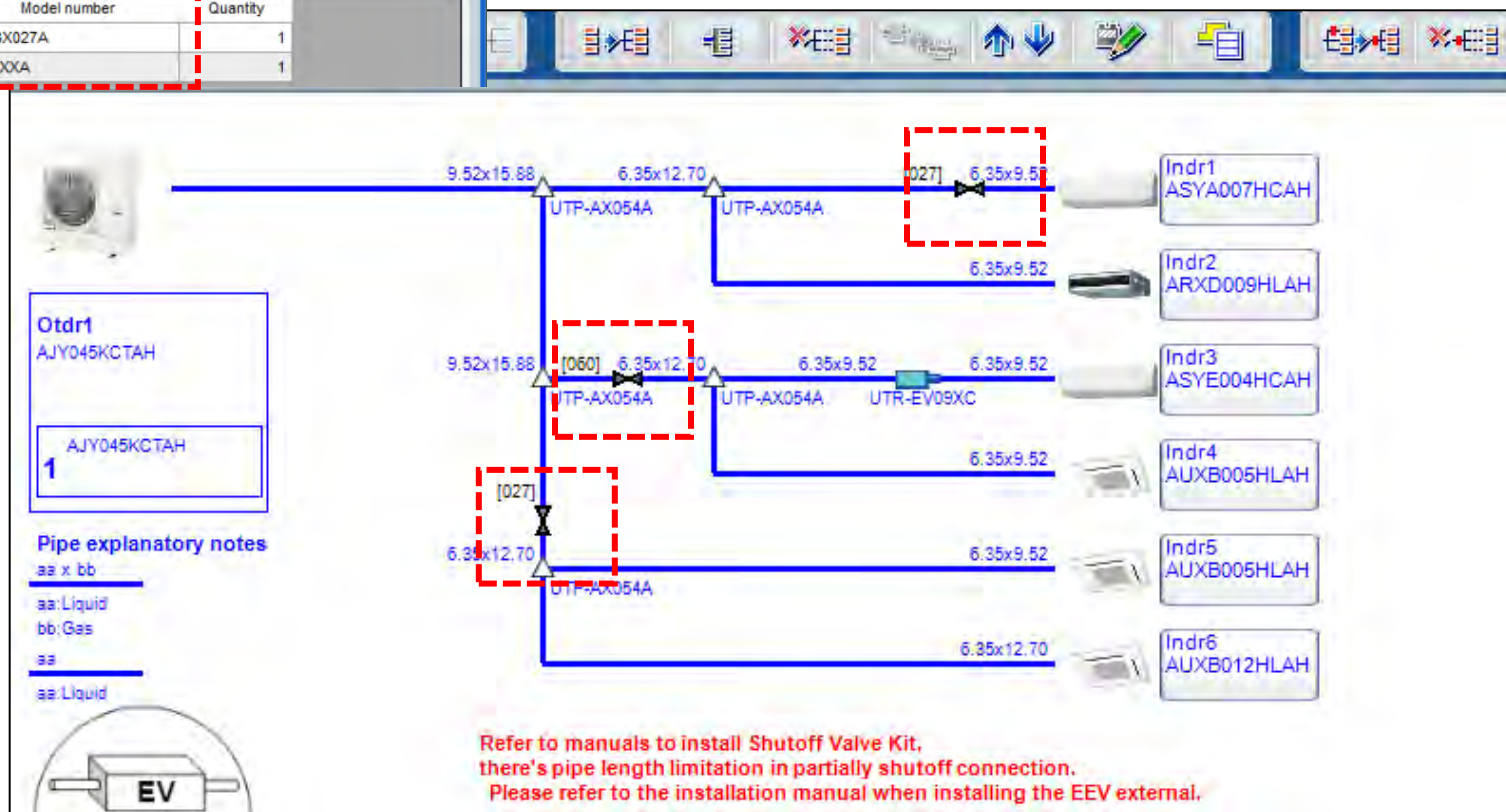
### (8) Shutoff Valve Kit is displayed on the piping screen



Select Shutoff Valve Kit on option screen



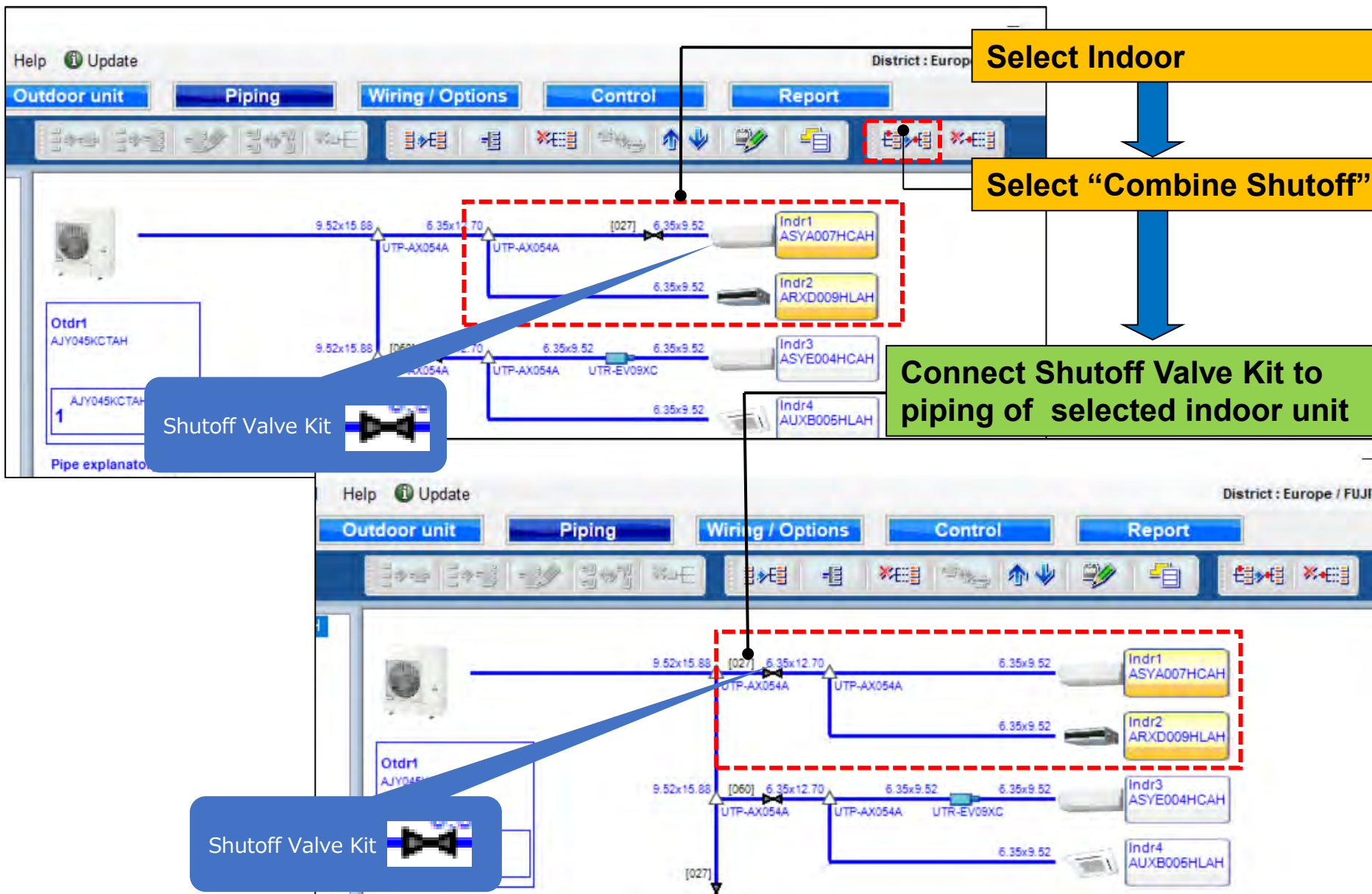
Safety devices are displayed on the piping screen



# Shutoff Valve Kit on piping (2/3)

Design Simulator

Operate the connection position of Shutoff Valve Kit on piping screen



# Shutoff Valve Kit on piping (3/3)

Design Simulator

Operate the connection position of Shutoff Valve Kit on piping screen

