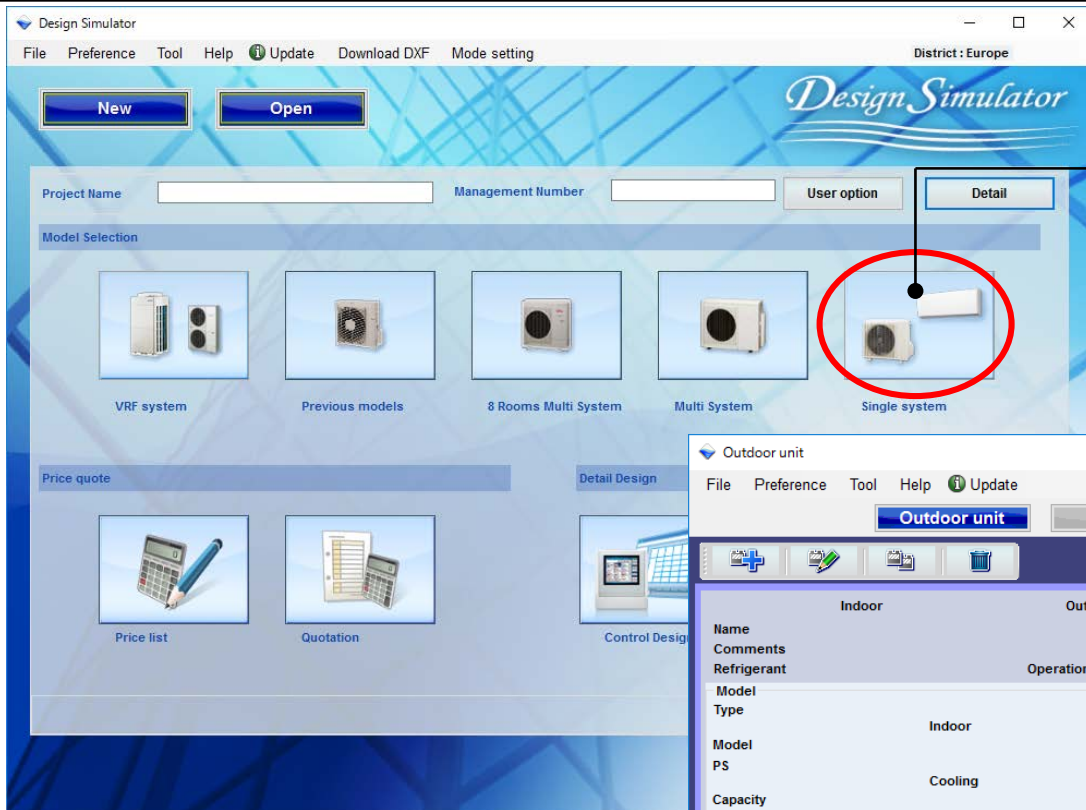


# Initial settings

# Design Simulator



Select "Single System"

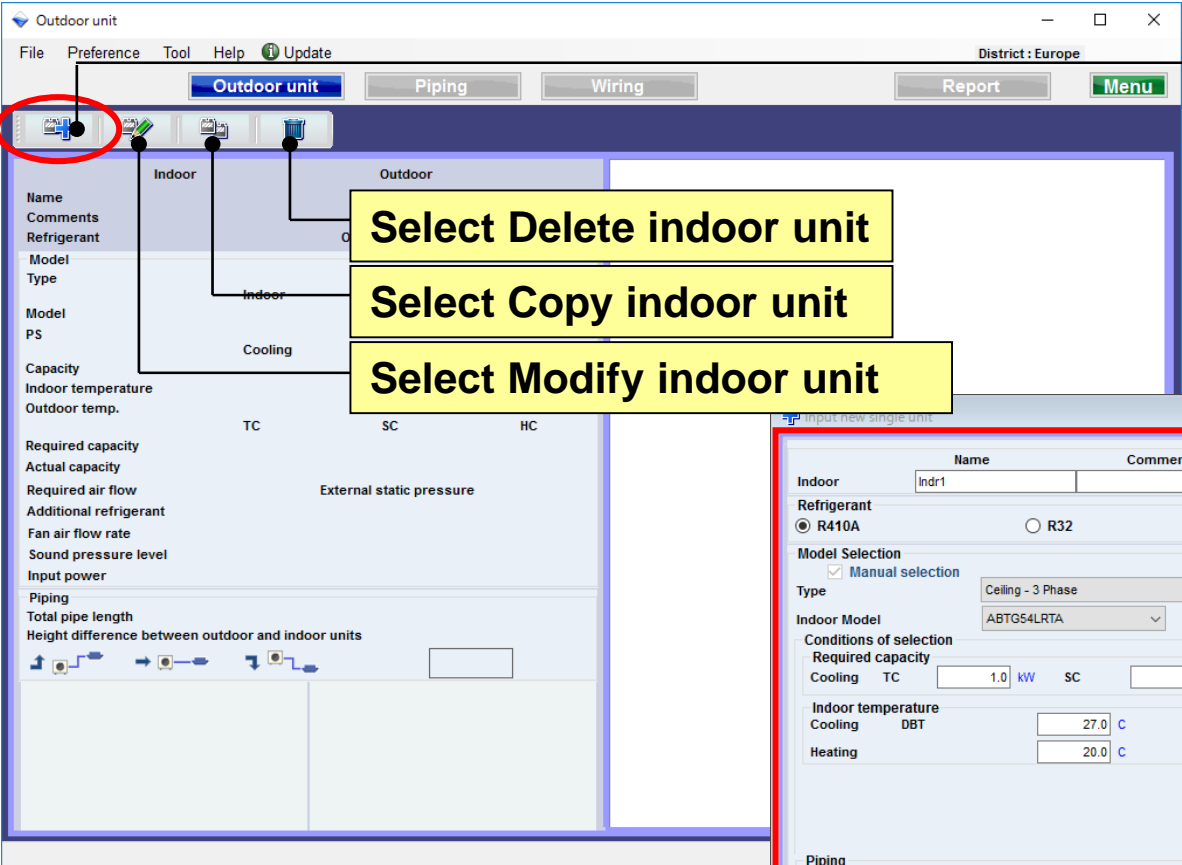
Indoor unit settings initial screen

The 'Outdoor unit' window is shown with the 'Indoor' tab selected. The window contains a table for configuring indoor and outdoor units, along with various calculation and piping settings.

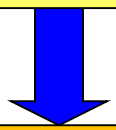
	Indoor	Outdoor
Name		
Comments		
Refrigerant		
Model		
Type		
Model		
PS		
Capacity		
Indoor temperature		
Outdoor temp.		
Required capacity		
Actual capacity		
Required air flow		
Additional refrigerant		
Fan air flow rate		
Sound pressure level		
Input power		
Piping		
Total pipe length		
Height difference between outdoor and indoor units		

Below the table, there are icons for piping configuration and a text input field for height difference.

## Indoor · Outdoor selection method (1/4)



Select “add new indoor unit”



Open indoor unit · Outdoor unit initial registration screen

Select Delete indoor unit

Select Copy indoor unit

Select Modify indoor unit

Input new single unit

Indoor		Outdoor	
Name	Comments	Name	Comments
Indr1		Oldr1	

Refrigerant: ☒ R410A ☐ R32

Operation type: ☒ Heat pump ☐ Cooling only

Model Selection: ☒ Manual selection

Type: Ceiling - 3 Phase

Indoor Model: ABTG54LRTA

Outdoor Model: AOTG54LATT

Conditions of selection

Required capacity		Heating	
Cooling	TC	SC	HC
1.0 kW	1.0 kW	1.0 kW	1.0 kW

Indoor temperature

Cooling	DBT	WBT
27.0 C	19.0 WBT	

Outdoor temp.

Cooling	DBT	Heating
35.0 C	7.0 C	

Piping

7.5 m 9.52x15.88

Additional refrigerant: 0.0 lbs

Height difference: 0 m

Room setting

Pipe size change: 9.52(3/8)x15.88(5/8)"

Capacity	TC	SC	HC
Required capacity	1.0 kW	1.0 kW	1.0 kW
Actual capacity	16.0 kW	11.1 kW	18.0 kW

Remote controller: Wireless RC(Accessory)

Options

Cancel OK

### Indoor · Outdoor selection method (2/4)

Preference input name display

Input comments. (Limitation ten characters)  
It is possible to write freely. ( Ex. : 1Floor Office 1)

Select operation type

Select Refrigerant

Model-information function

Select indoor model · outdoor model

Input required capacity.

Select type of Indoor unit

Input design conditions.  
If you don't decide design conditions, input it under the ratings condition of cooling "27C" and heating "20C".

Pipe size can be changed to some models

Input new single unit

Name: Indr1, Otdr1

Comments:

Refrigerant: ☒ R410A, ☐ R32

Operation type: ☒ Heat pump, ☐ Cooling only

Model Selection: ☒ Manual selection, Ceiling - 3 Phase

Indoor Model: ABTG54LRTA, Outdoor Model: AOTG54LATT

Conditions of Selection:

Required capacity: Cooling TC 1.0 kW, SC 1.0 kW, Heating HC 1.0 kW

Indoor temperature: Cooling DBT 27.0 C, Heating 20.0 C

Outdoor temp.: Cooling DBT 35.0 C, Heating 7.0 C

Piping: 7.5 m, 9.52x15.88

Additional refrigerant: 0.0 lbs

Room setting

Height difference: Pipe size change 9.52(3/8)x15.88(5/8)\*\*

Capacity	TC	SC	HC
Required capacity	1.0 kW	1.0 kW	1.0 kW
Actual capacity	16.0 kW	11.1 kW	18.0 kW

Remote controller: Wireless RC(Accessory)

Options

Cancel OK

## Indoor • Outdoor selection method (3/4)

Indoor

Indr1

Outdoor

Otdr1

Refrigerant

☒ R410A

☐ R32

Operation type

☒ Heat pump

☐ Cooling only

Model Selection

☒ Manual selection

Type

Slim duct

Indoor Model

ARYG12LLTB

Outdoor Model

AOYG12LALL

Conditions of selection

Required capacity

Cooling

TC

0.50 kW

SC

0.50 kW

Heating

HC

Indoor temperature

Cooling

DBT

27.0 C

19.0 WBT

Heating

20.0 C

Outdoor temp.

Cooling

DBT

Heating

Primary setting

☐ Required air flow

☐ External static pressure

Required air flow

Range

650 m3/h

External static pressure

Range

25 Pa

Piping

5.0 m

6.35x9.52

Additional refrigerant

0.0 lbs

Height difference

0 m

Room setting

Capacity

Required capacity

Actual capacity

TC

0.50 kW

4.40 kW

SC

0.50 kW

3.19 kW

HC

0.50 kW

5.70 kW

Remote controller

Wired RC(Accessory)

Option

Cancel

OK

Input the value of "Actual piping Length" and "Height difference".  
Select position of outdoor unit relative to indoor unit.

Select Primary setting

Input Require air flow  
External static pressure

Required capacity• Actual capacity

Select Optional parts

# Outdoor unit settings

# Design Simulator

( Ex. Case1)

Input new single unit

Name	Comments	Name	Comments
Indoor	Ind1 1Floor Office 1	Outdoor	Out1

Refrigerant: R410A  
Operation type: Heat pump

Model Selection: Manual selection  
Type: CompactCassette  
Indoor Model: AUYG12LVLB  
Outdoor Model: AOYG12LALL

Conditions of selection  
Required capacity  
Cooling TC: 2.00 kW SC: 2.00 kW Heating HC: 0.50 kW

Indoor temperature  
Cooling DBT: 27.0 C  
Heating DBT: 20.0 C

Outdoor temp.  
Cooling DBT: 35.0 C  
Heating DBT: 7.0 C

Piping  
Piping length: 5.0 m  
Additional refrigerant: 0.0 kg  
Height difference: 0 m

Capacity  
Required capacity  
Cooling TC: 2.00 kW SC: 2.00 kW Heating HC: 0.50 kW  
Actual capacity  
Cooling TC: 4.40 kW SC: 3.07 kW Heating HC: 5.70 kW

Remote controller: Wired RC(High grade)

Options: OK

( Ex. Case2)

Input new single unit

Name	Comments	Name	Comments
Indoor	Ind2 2Floor Conference rm	Outdoor	Out2

Refrigerant: R410A  
Operation type: Heat pump

Model Selection: Manual selection  
Type: Cassette(Grille Mt Black)  
Indoor Model: AUYG18LRLB  
Outdoor Model: AOYG18LBCA

Conditions of selection  
Required capacity  
Cooling TC: 4.00 kW SC: 4.00 kW Heating HC: 0.50 kW

Indoor temperature  
Cooling DBT: 25.0 C  
Heating DBT: 20.0 C

Outdoor temp.  
Cooling DBT: 35.0 C  
Heating DBT: 7.0 C

Piping  
Piping length: 5.0 m  
Additional refrigerant: 0.0 kg  
Height difference: 0 m

Capacity  
Required capacity  
Cooling TC: 4.00 kW SC: 4.00 kW Heating HC: 0.50 kW  
Actual capacity  
Cooling TC: 6.33 kW SC: 4.55 kW Heating HC: 7.31 kW

Remote controller: Wired RC(High grade)

Options: OK

( Ex. Case3)

Input new single unit

Name	Comments	Name	Comments
Indoor	Ind2 2Floor Conference	Outdoor	Out2

Refrigerant: R410A  
Operation type: Heat pump

Model Selection: Manual selection  
Type: Ceiling  
Indoor Model: ABYG18LV7B  
Outdoor Model: AOYG18LALL

Conditions of selection  
Required capacity  
Cooling TC: 5.00 kW SC: 3.00 kW Heating HC: 0.50 kW

Indoor temperature  
Cooling DBT: 25.0 C  
Heating DBT: 20.0 C

Outdoor temp.  
Cooling DBT: 35.0 C  
Heating DBT: 7.0 C

Piping  
Piping length: 5.0 m  
Additional refrigerant: 0.0 kg  
Height difference: 0 m

Capacity  
Required capacity  
Cooling TC: 5.00 kW SC: 3.00 kW Heating HC: 0.50 kW  
Actual capacity  
Cooling TC: 6.33 kW SC: 4.55 kW Heating HC: 7.31 kW

Remote controller: Wired RC(High grade)

Options: OK

( Ex. Case1)

Installation area : 1Floor Office 1  
Type : Compact cassette  
RC : Wired remote controller  
Design temperature : 27C  
Required capacity (TC) : 2.0kW (Cooling)

( Ex. Case2)

Installation area : 2Floor Conference room1  
Type : Cassette  
RC : Wired remote controller  
Design temperature : 25C  
Required capacity (TC) : 4.0kW (Cooling)

( Ex. Case3)

Installation area : 2Floor Conference room2  
Type : Ceiling  
RC : Wired remote controller  
Design temperature : 25C  
Required capacity (TC) : 5.0kW (Cooling)  
Required capacity (SC) : 3.0kW (Cooling)

## Indoor - Outdoor selection method (4/4)

Input new single unit

Indoor	Name	Comments	Outdoor	Name	Comments
Refrigerant	Indr2	2Floor Conference	Oldr2		
<input checked="" type="radio"/> R410A			<input checked="" type="radio"/> Heat pump		
<input type="radio"/> R32			<input type="radio"/> Cooling only		

Model Selection

☒ Manual selection

Type: Ceiling

Indoor Model: ABYG18LVTB

Outdoor Model: AOYG18LALL

Conditions of selection

Required capacity

Cooling	TC	SC	Heating	HC
5.00 kW	3.00 kW	0.50 kW		

Indoor temperature

Cooling	DBT	WBST
25.0 C	18.0 WBT	

Outdoor temp.

Cooling	DBT	Heating
35.0 C	7.0 C	

Piping

Additional refrigerant: 0.0 lbs

Height difference: 0 m

Room setting

Capacity

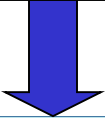
TC	SC	HC
5.00 kW	3.00 kW	0.50 kW
Required capacity	5.72 kW	3.76 kW
Actual capacity		7.50 kW

Remote controller: Wired RC(High grade)

Options

Cancel

Select "OK"



Outdoor unit and indoor unit product information and image display.

Outdoor unit

File Preference Tool Help Update

Outdoor unit

Name	Indoor	Outdoor
Comments	Indr1	Oldr1
Refrigerant	1F_Office 1	
Operation type	R410A	Heat pump

Model Selection

Type: CompactCassette

Indoor	Outdoor
Model: AUYG12LVLB	AOYG12LALL
PS: 230V, 50Hz	

Capacity

Cooling	Heating
3.50 kW	4.10 kW

Indoor temperature

Cooling	Heating
27.0C	20.0C

Outdoor temp.

TC	SC	HC
35.0C	7.0C	

Required capacity

TC	SC	HC
2.00 kW	2.00 kW	0.50 kW

Actual capacity

TC	SC	HC
4.40 kW	3.07 kW	5.70 kW

Additional refrigerant: 0.0 lbs

Fan air flow rate: 410 - 600 m3/h

Sound pressure level: 27 - 37 dB(A)

Input power: 1050 W

Piping

Total pipe length: 5.0m

Height difference between outdoor and indoor units: 0.0m

Images of indoor and outdoor units.

## Model-information (1/2)

+

Input new indoor unit

×

Indoor

Name

Comments

Indr1

1F\_Office 1

Outdoor

Name

Comments

Otdr1

Refrigerant

☒ R410A

☐ R32

Model Selection

☒ Manual selection

Type

CompactCassette

Indoor Model

AUYG12LVLB

Outdoor Model

AOYG12LALL

Conditions of selection

Required capacity

Cooling

TC

2.00

kW

SC

Indoor temperature

Cooling

DBT

27.0

C

Heating

20.0

C

Piping

5.0

m

Additional refrigerant

0.0

lbs

Room setting

Capacity

Required capacity

2.00

kW

Actual capacity

4.40

kW









Remote controller

Wireless RC(Accesso

Model-information

CompactCassette

Outdoor

Image	Name	Capa C (kW)	Capa H (kW)	Airflow (m3/h)	ESP (Pa)	Sound (dB)	HxWxD (mm)	Weight (lbs)	Image	Name	Sound (dB)
	AUYG12LVLB	3.50	4.10	410/600		27/37	245x570x570	33.1		AOYG12LALL	47/48
	AUYG14LVLB	4.30	5.00	410/680		27/38	245x570x570	33.1		AOYG14LALL	49/49
	AUYG18LVLB	5.20	6.00	410/680		26/38	245x570x570	33.1		AOYG18LALL	50/50
	AUYG24LVLA	6.80	8.00	450/930		30/49	245x570x570	35.3		AOYG24LALA	52/53

Click Select button to select a model as Manual selection.

Close

Select

Select "Model-information"

Model-information screen

## Model-information (2/2)

Model-information											
CompactCassette											
Outdoor											
Image	Name	Capa C (kW)	Capa H (kW)	Airflow (m3/h)	ESP (Pa)	Sound (dB)	HxWxD (mm)	Weight (lbs)	Image	Name	Sound (dB)
	AUYG12LVLB	3.50	4.10	410/600		27/37	245x570x570	33.1		AOYG12LALL	47/48
	AUYG14LVLB	4.30	5.00	410/680		27/38	245x570x570	33.1		AOYG14LALL	49/49
	AUYG18LVLB	5.20	6.00	410/680		26/38	245x570x570	33.1		AOYG18LALL	50/50
	AUYG24LVLB	6.80	8.00	450/930		30/49	245x570x570	35.3		AOYG24LALL	52/53

Indoor unit can be selected

Input new single unit

Name

Indr1

Comments

1F\_Office 1

Outdoor

Oldr1

Comments

Refrigerant

☒ R410A

☐ R32

Model Selection

☒ Manual selection

Type

CompactCassette

Indoor Model

AUYG14LVLB

Outdoor Model

AOYG14LALL

Conditions of selection

Required capacity

Cooling

TC

2.00 kW

SC

2.00 kW

Heating

HC

0.50 kW

Indoor temperature

Cooling

DBT

27.0 C

19.0 WBT

Heating

20.0 C

Outdoor temp.

Cooling

DBT

35.0 C

Heating

7.0 C

Piping

5.0 m

6.35x12.70

Additional refrigerant

0.0 lbs

Height difference

0 m

Room setting

Capacity

Required capacity

Actual capacity

TC

2.00 kW

5.40 kW

SC

2.00 kW

3.65 kW

HC

0.50 kW

6.50 kW

Remote controller

Wireless RC(Accessory)

Cancel

OK



## Room Setting

Input new single unit

Indoor		Comments		Outdoor		Comments	
Name	Indr1		1F_Office 1	Name	Otdr1		

Refrigerant  
☒ R410A ☐ R32

Operation type  
☒ Heat pump

Model Selection  
☒ Manual selection

Type  
CompactCassette

Indoor Model  
AUYG14LVLB

Outdoor Model

Conditions of selection

Required capacity

Cooling TC 2.00 kW SC 2.00 kW Heating HC 0.50 kW

Indoor temperature

Cooling DBT 27.0 C 19.0 WBT

Heating 20.0 C

Outdoor temp.

Cooling DBT

Heating

Piping

5.0 m 6.35x12.70

Additional refrigerant 0.0 lbs

Height difference 0 m

Room setting

Capacity

Required capacity TC 2.00 kW SC 2.00 kW HC 0.50 kW

Actual capacity TC 5.40 kW SC 3.65 kW HC 6.50 kW

Remote controller Wireless RC(Accessory)

Cancel

Select "Room setting"

Open Room setting screen

Room setting

Floor type Single Floor

Floor Floor1

Floor setting

Item setting

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)
1	<input type="checkbox"/>	Floor1 Room1	10						27	19	20
2	<input type="checkbox"/>	Floor1 Room2	20						27	19	20
3	<input type="checkbox"/>	Floor1 Room3	20						27	19	20
4	<input type="checkbox"/>	Floor1 Room4	10						27	19	20
5	<input type="checkbox"/>	Floor1 Room5	10						27	19	20
6	<input type="checkbox"/>	Floor1 Room6	10						27	19	20
7	<input type="checkbox"/>	Floor1 Room7	10						27	19	20
8	<input type="checkbox"/>	Floor1 Room8	10						27	19	20
9	<input type="checkbox"/>	Floor1 Room9	10						27	19	20
10	<input type="checkbox"/>	Floor1 Room10	10						27	19	20

☐ Set the temperature of the room to the indoor unit

Add room Remove

Cancel OK

## Floor setting

Room setting

Floor type: Single Floor

Floor: Floor1

**Floor setting**

Item setting

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)
1	<input type="checkbox"/>	Floor1	Room1	10							
2	<input type="checkbox"/>	Floor1	Room2	20							
3	<input type="checkbox"/>	Floor1	Room3	20							
4	<input type="checkbox"/>	Floor1	Room4	10							
5	<input type="checkbox"/>	Floor1	Room5	10							
6	<input type="checkbox"/>	Floor1	Room6	10							
7	<input type="checkbox"/>	Floor1	Room7	10							
8	<input type="checkbox"/>	Floor1	Room8	10							
9	<input type="checkbox"/>	Floor1	Room9	10							
10	<input type="checkbox"/>	Floor1	Room10	10							

☐ Set the temperature of the room to the indoor unit

**Floor setting**

Floor

1	Floor1
2	Floor2

**Add floor**

**Remove**

**Cancel**

**OK**

Select "Floor setting"

Open Floor setting screen

Floor can be added or removed

Floor2 can be added

Room setting

Floor type: Multi Floor

Floor: Floor2

**Floor setting**

Item setting

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)
--------	-------	------	------------	-----------	------------	------------	------------	------------	-------------	-------------	-----------

Add Floor

Remove Floor

## Room setting to each floor

**Add room to Floor**

**Remove room from Floor**

Select “Add room”

Add or remove room

Room can be added to Floor2

**Add room to Floor**

**Remove room from Floor**

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)	Air
1	<input type="checkbox"/>	Floor2	2F_Conference1	20	20	8	20	10	30	27	19	20
2	<input type="checkbox"/>	Floor2	2F_Conference2	20	20	8	20	10	30	27	19	20

## Display item setting

Room setting

Floor type: Single Floor  
Floor: Floor1

Floor setting   **Item setting**

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)	Air P
1 <input type="checkbox"/>	Floor1	Room1	10						27	19	20	
2 <input type="checkbox"/>	Floor1	Room2	20									
3 <input type="checkbox"/>	Floor1	Room3	20									
4 <input type="checkbox"/>	Floor1	Room4	10									
5 <input type="checkbox"/>	Floor1	Room5	10									
6 <input type="checkbox"/>	Floor1	Room6	10									
7 <input type="checkbox"/>												
8 <input type="checkbox"/>												
9 <input type="checkbox"/>												
10 <input type="checkbox"/>												

Display item

Only Unit can be changed at Air Space/person

11-18 can be set arbitrarily by user

Item setting

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/WBT	<input checked="" type="checkbox"/>
8 Tmp C	DBT/WBT	<input checked="" type="checkbox"/>
9 Tmp H	C	<input checked="" type="checkbox"/>
10 Air space / person	m3	<input checked="" type="checkbox"/>
11 Remarks1		<input checked="" type="checkbox"/>
12 Remarks2		<input checked="" type="checkbox"/>
13 Remarks3		<input type="checkbox"/>
14 Remarks4		<input type="checkbox"/>
15 Remarks5		<input type="checkbox"/>
16 Remarks6		<input type="checkbox"/>
17 Remark		
18 Remark		

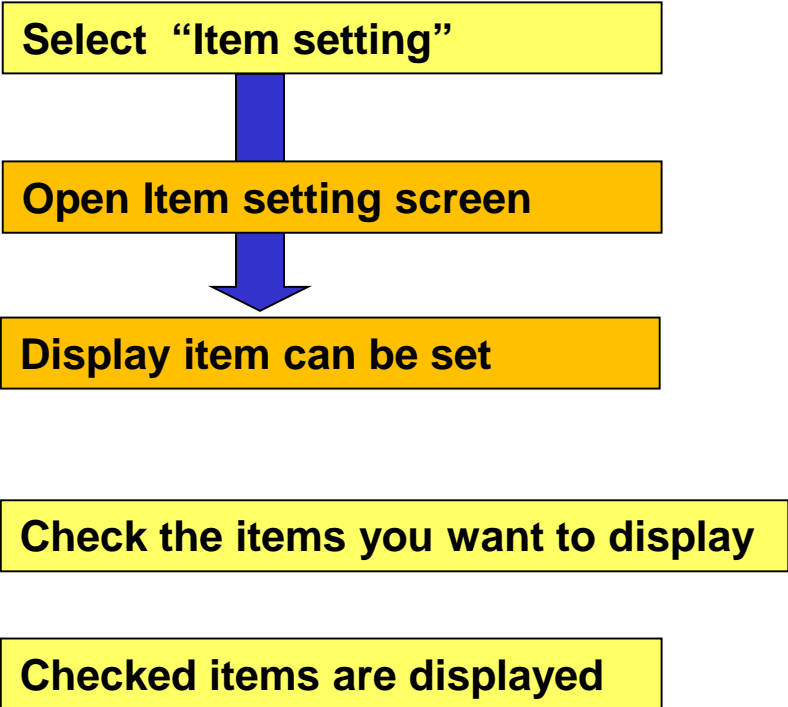
Item 10-18

Room setting

Floor type: Multi Floor  
Floor: Floor2

Floor setting   **Item setting**

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)	Air P
1 <input type="checkbox"/>	Floor2	2F_Conference1	20	20	8	20	10	30	27	19	20	
2 <input type="checkbox"/>	Floor2	2F_Conference2	20	20	8	20	10	30	27	19	20	



Room setting

Floor type: Multi Floor  
Floor: Floor2

Floor setting   **Item setting**

Select	Floor	Room	Length (m)	Width (m)	Height (m)	Rq TC (kW)	Rq SC (kW)	Rq HC (kW)	Tmp C (DBT)	Tmp C (WBT)	Tmp H (C)	Air P
1 <input type="checkbox"/>	Floor2	2F_Conference1	20	20	8	20	10	30	27	19	20	
2 <input type="checkbox"/>	Floor2	2F_Conference2	20	20	8	20	10	30	27	19	20	