

VRF Selector Help

Ver. 2.3

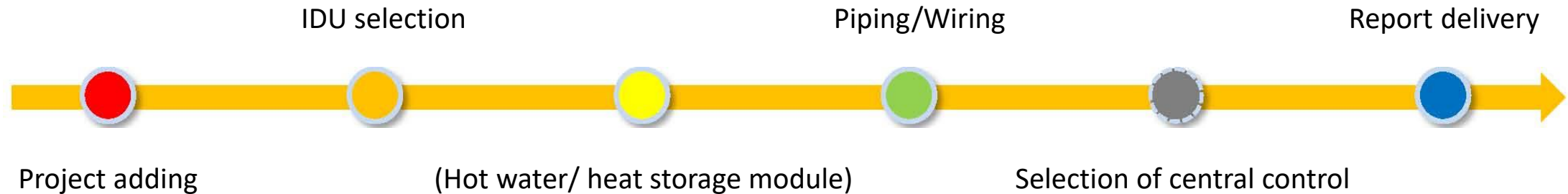
2022/4/15

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1、 Overview

Gree new generation VRF selector is developed based on years of experience in model selection and comprehensive research and analysis on the market. We carefully studied the selection logic of VRF products and optimized the selection process to tackle the pain points of customers, so as to make it suitable to different groups of customers. It is convenient to use, professional and precise. Each selection can be a joyful trip.

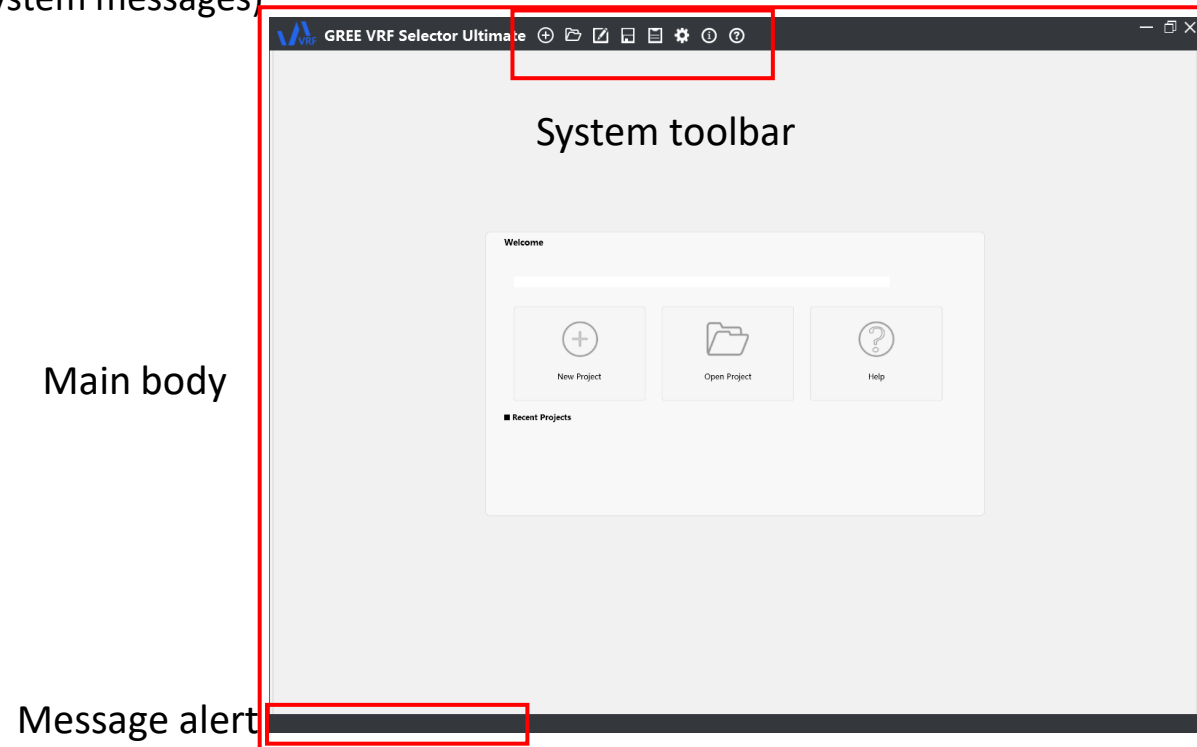


2、 Model Selection

1.Homepage

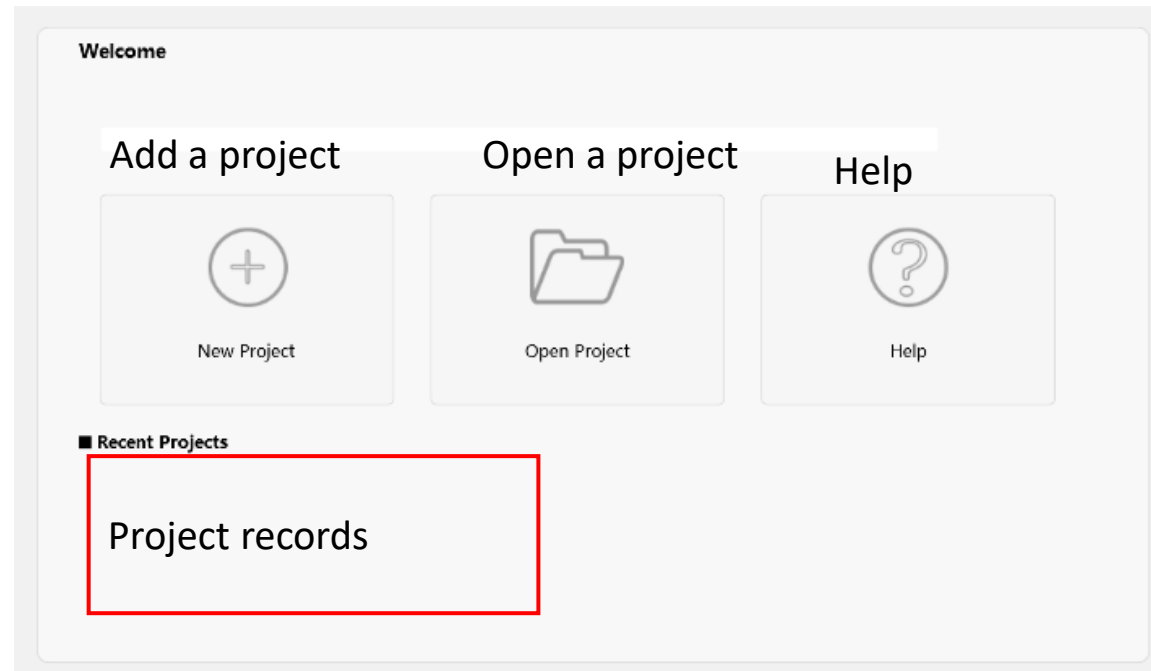
The homepage is divided into three sections.

- 1、 System toolbar(including project adding, save, edit and system setting)
- 2、 Main body (display area of the software)
- 3、 Message alert (display of system messages)

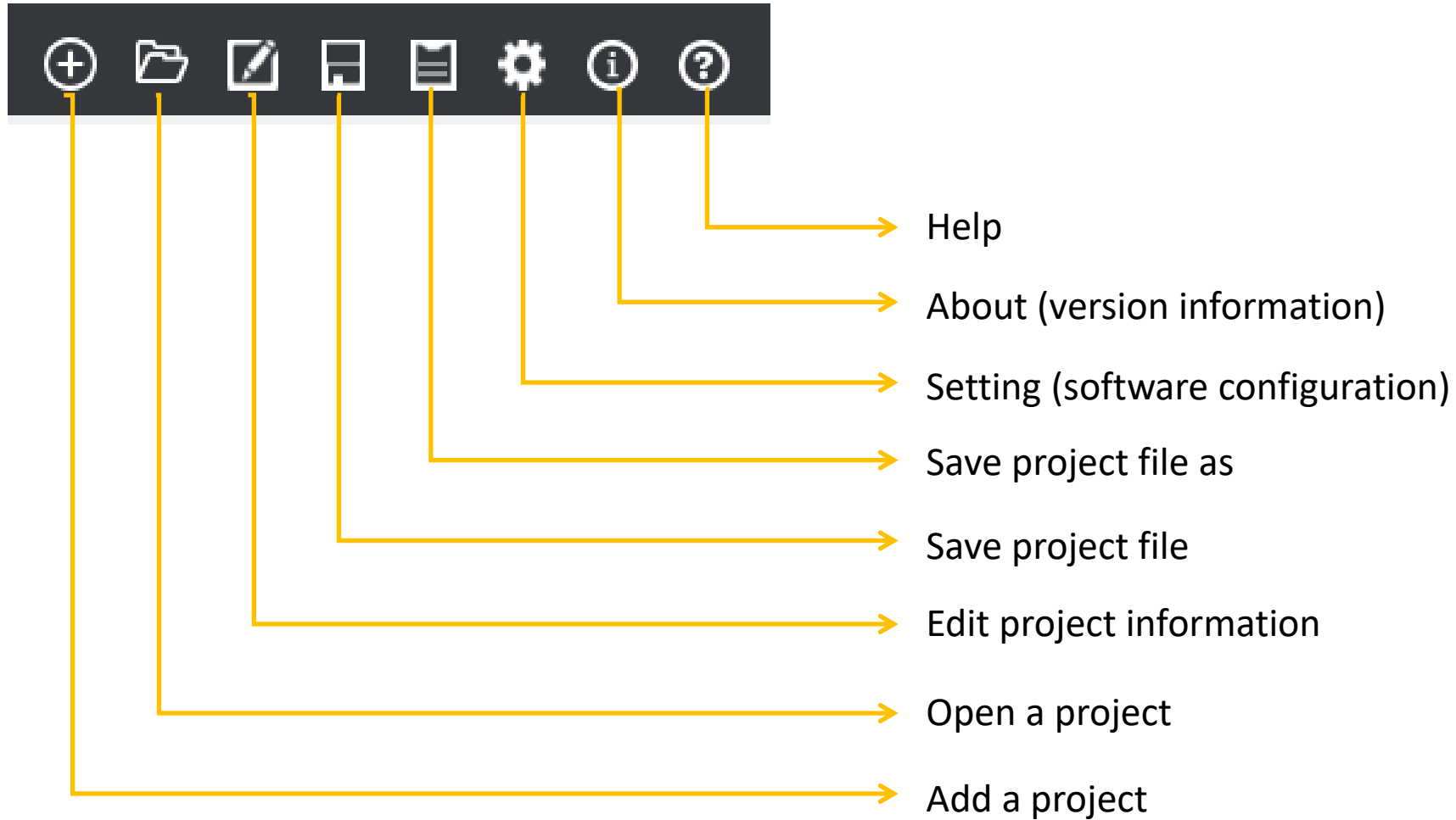


1.1 Welcome page

After the software is started, you will see a welcome page at the main body.



1.2 System toolbar



1.3 Setting

1. Unit setting (This is to set units that are used for calculation during model selection)

Setting

Unit | Selection calculation | Save automatically | CAD configuration | Other

☐ Metric system ☒ Imperial system

Temperature: ☐ °C ☒ °F

Length: ☐ m ☒ ft

Capacity: ☐ kw ☒ kBtu/h

Pipe diameter: ☐ mm ☒ in

Weight: ☐ kg ☒ Lbs.

Pressure: ☐ Pa ☒ inWG

Volume: ☐ L ☒ gal

Airflow volume: ☐ m³/h ☒ CFM

HeatLoad: ☐ kw ☒ kBtu/h

* Restart software to take effect

Confirm Cancel

1.3 Setting

2. Selection calculation (the way of auto adjustment, R/E pipe selection, tolerance allowed, correction factor)

IDU and ODU are adjusted at the same time by default.

The screenshot shows a software window titled 'Setting' with a close button (X) in the top right corner. The window has several tabs: 'Unit', 'Selection calculation' (which is active), 'Save automatically', 'CAD configuration', and 'Other'. The 'Selection calculation' tab contains the following settings:

- Adjust methods** ⓘ
 - ☒ Adjust IDU and ODU at the same time
 - ☐ Only adjust outdoor unit
- R/E pipe Selection Mode** ⓘ
 - ☒ Calculate R/E pipe
 - ☐ Don't calculate R/E pipe
 - ☐ Collect information of R/E pipe only
- Indoor unit tolerances allowed** ⓘ

Cooling	-10%	<input type="range"/>	20%	0%
Heating	-10%	<input type="range"/>	20%	0%
Sensible Cooling	-10%	<input type="range"/>	20%	0%
- Simultaneously maximum usage rate of IDU** ⓘ

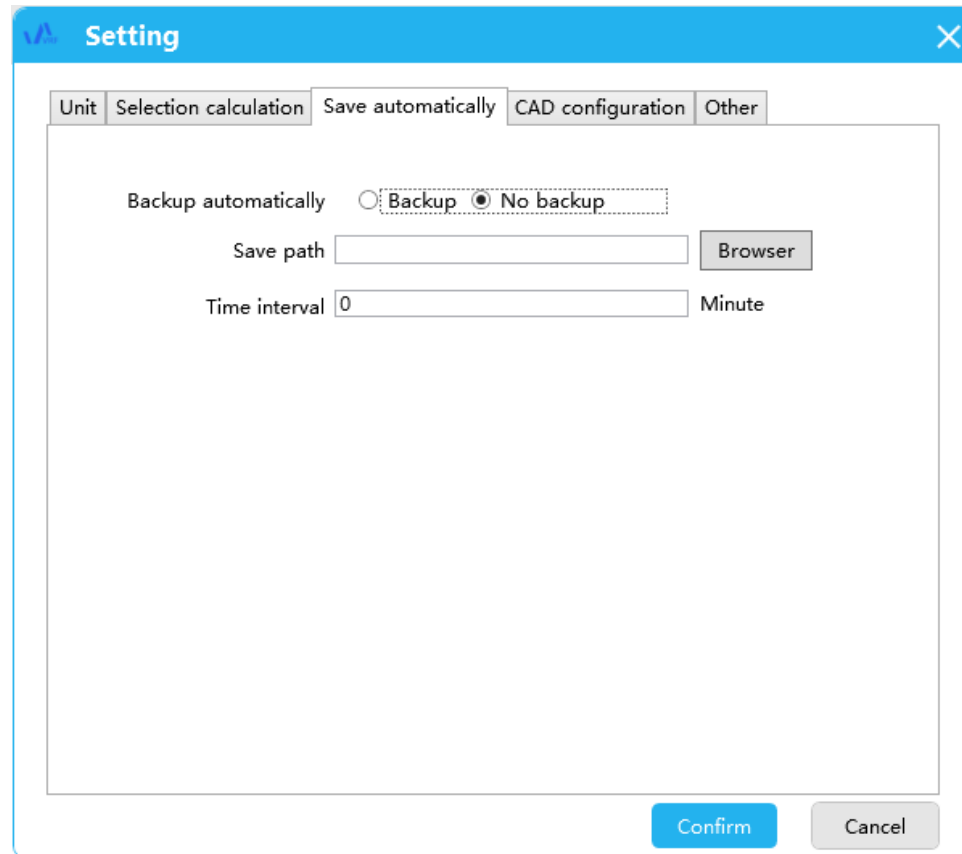
Cooling	80%	<input type="range"/>	100%	100%
Heating	80%	<input type="range"/>	100%	100%
- Select the modification item of the actual capacity of the unit** ⓘ

	Indoor unit			Outdoor unit		
Cooling	<input checked="" type="checkbox"/> m	<input checked="" type="checkbox"/> b		<input checked="" type="checkbox"/> a	<input checked="" type="checkbox"/> b	
Heating	<input checked="" type="checkbox"/> m	<input checked="" type="checkbox"/> b	<input checked="" type="checkbox"/> c	<input checked="" type="checkbox"/> a	<input checked="" type="checkbox"/> b	<input checked="" type="checkbox"/> c

At the bottom right of the dialog are two buttons: 'Confirm' and 'Cancel'.

1.3 Setting

3. Save automatically (Set the path and time interval for auto saving)



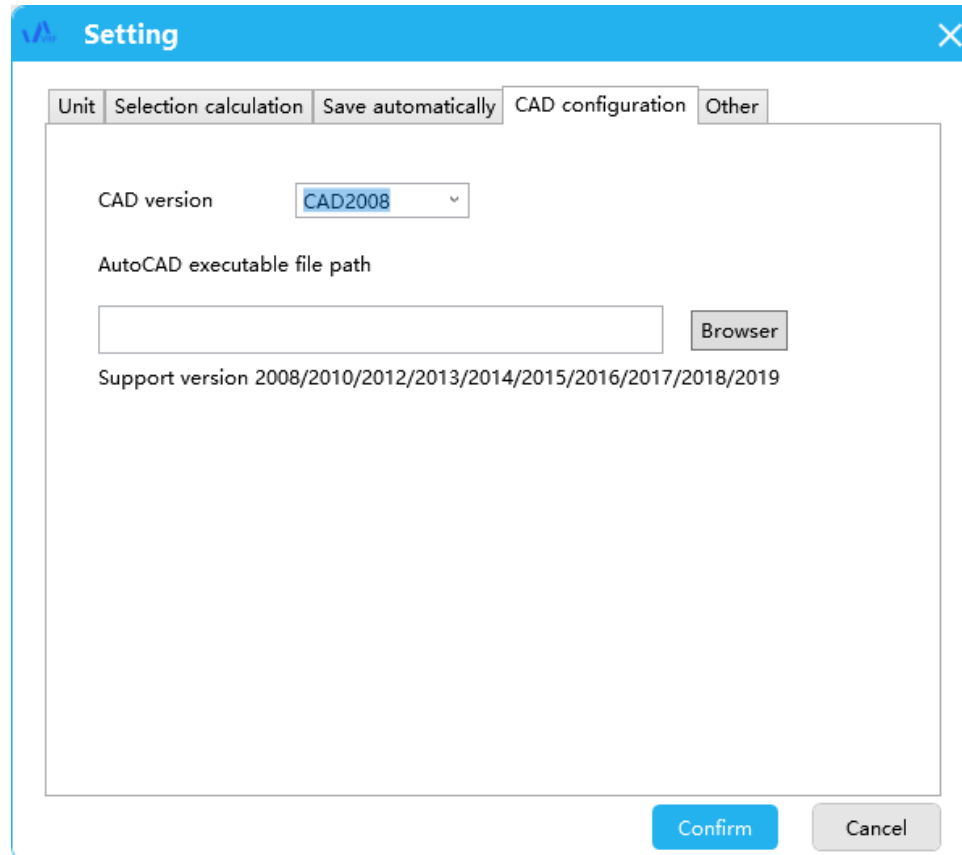
The image shows a software settings window titled "Setting" with a blue header bar and a close button (X) in the top right corner. The window contains five tabs: "Unit", "Selection calculation", "Save automatically", "CAD configuration", and "Other". The "Save automatically" tab is currently selected. Inside this tab, there are three main settings:

- Backup automatically:** A label followed by two radio buttons. The first is labeled "Backup" and is unselected. The second is labeled "No backup" and is selected (indicated by a filled circle).
- Save path:** A text input field followed by a "Browser" button.
- Time interval:** A text input field containing the number "0", followed by the word "Minute".

At the bottom right of the dialog, there are two buttons: "Confirm" (in blue) and "Cancel" (in grey).

1.3 Setting

4. AutoCAD configuration (AutoCAD version, executable file path)



The image shows a 'Setting' dialog box with a blue title bar and a close button. It contains five tabs: 'Unit', 'Selection calculation', 'Save automatically', 'CAD configuration' (which is selected), and 'Other'. The 'CAD configuration' tab displays a 'CAD version' dropdown menu set to 'CAD2008', an 'AutoCAD executable file path' text box with an empty field and a 'Browser' button, and a 'Support version' label with the text '2008/2010/2012/2013/2014/2015/2016/2017/2018/2019'. At the bottom right are 'Confirm' and 'Cancel' buttons.

Setting

Unit Selection calculation Save automatically CAD configuration Other

CAD version CAD2008

AutoCAD executable file path

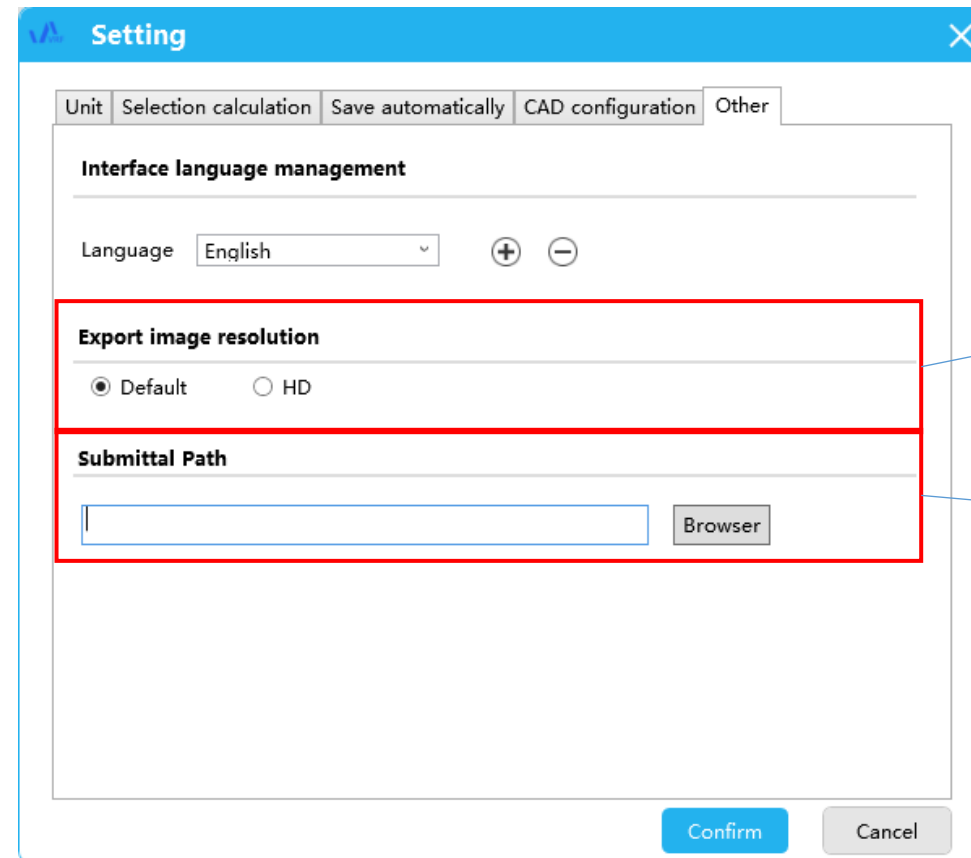
Browser

Support version 2008/2010/2012/2013/2014/2015/2016/2017/2018/2019

Confirm Cancel

1.3 Setting

5. Others (Add or delete languages,submittal)



The screenshot shows a 'Setting' dialog box with a blue header and a close button. It has five tabs: 'Unit', 'Selection calculation', 'Save automatically', 'CAD configuration', and 'Other'. The 'Other' tab is active. Inside, there are three sections: 'Interface language management' with a 'Language' dropdown set to 'English' and '+' '-' buttons; 'Export image resolution' with 'Default' (selected) and 'HD' radio buttons; and 'Submittal Path' with an empty text field and a 'Browser' button. A red rectangle highlights the 'Export image resolution' and 'Submittal Path' sections. At the bottom are 'Confirm' and 'Cancel' buttons.

HD image export setting

Submittal path setting
(This function is only for North American market at present)

2. Project adding

Click the icon of project adding at the toolbar or the welcome page to open the window of new project.

Project information

Project information

Area: North Americ

Frequency: 50Hz 60Hz

Project Name

Address

Date: 2021/9/4

Contract No.

Client information

Name

Position

Company

Address

Tel

Fax

☐ Save client information

Designer information

Name

Position

Company

Address

Tel

Fax

☐ Save designer information

Remark

Confirm Cancel

Enter project information

Choose an area for data customization.

Choose power specification.

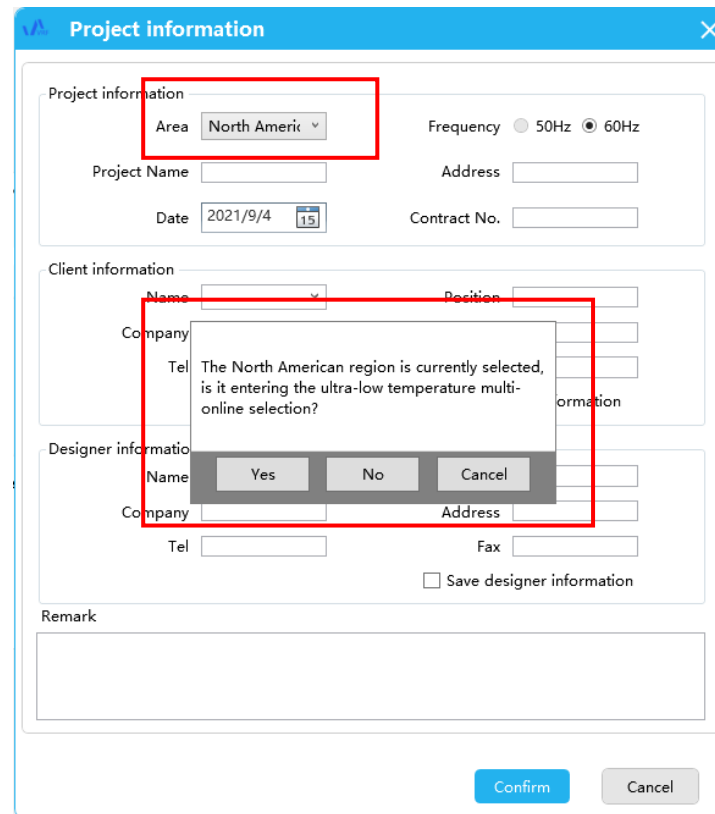
Enter client information.

Enter designer information.

After entering all the information, click “Confirm” to enter the interface of IDU selection.

2. Project adding

Note: After selecting “North America”, you can choose whether to jump to the selection of ultra-low temperature models when you click “Confirm”.



The screenshot shows a 'Project information' dialog box with a blue header and a close button. The dialog is divided into several sections: 'Project information', 'Client information', 'Designer information', and 'Remark'. In the 'Project information' section, the 'Area' dropdown is set to 'North America' and is highlighted with a red rectangle. The 'Frequency' section has radio buttons for '50Hz' and '60Hz', with '60Hz' selected. The 'Client information' section has fields for 'Name', 'Position', 'Company', and 'Tel'. The 'Designer information' section has fields for 'Name', 'Company', 'Address', 'Tel', and 'Fax', along with a checkbox for 'Save designer information'. A confirmation pop-up dialog is overlaid on the 'Client information' section, asking 'The North American region is currently selected, is it entering the ultra-low temperature multi-online selection?' with 'Yes', 'No', and 'Cancel' buttons. The 'Remark' section is a large text area at the bottom. At the bottom of the main dialog are 'Confirm' and 'Cancel' buttons.

Project information

Area: North America

Frequency: 50Hz 60Hz

Project Name:

Address:

Date: 2021/9/4

Contract No.:

Client information

Name:

Position:

Company:

Tel:

Designer information

Name:

Company:

Address:

Tel:

Fax:

☐ Save designer information

Remark

Confirm Cancel

3. IDU selection

IDU selection Interface

Selection process navigation bar (Note: Other interfaces are shielded until IDUs are added.)

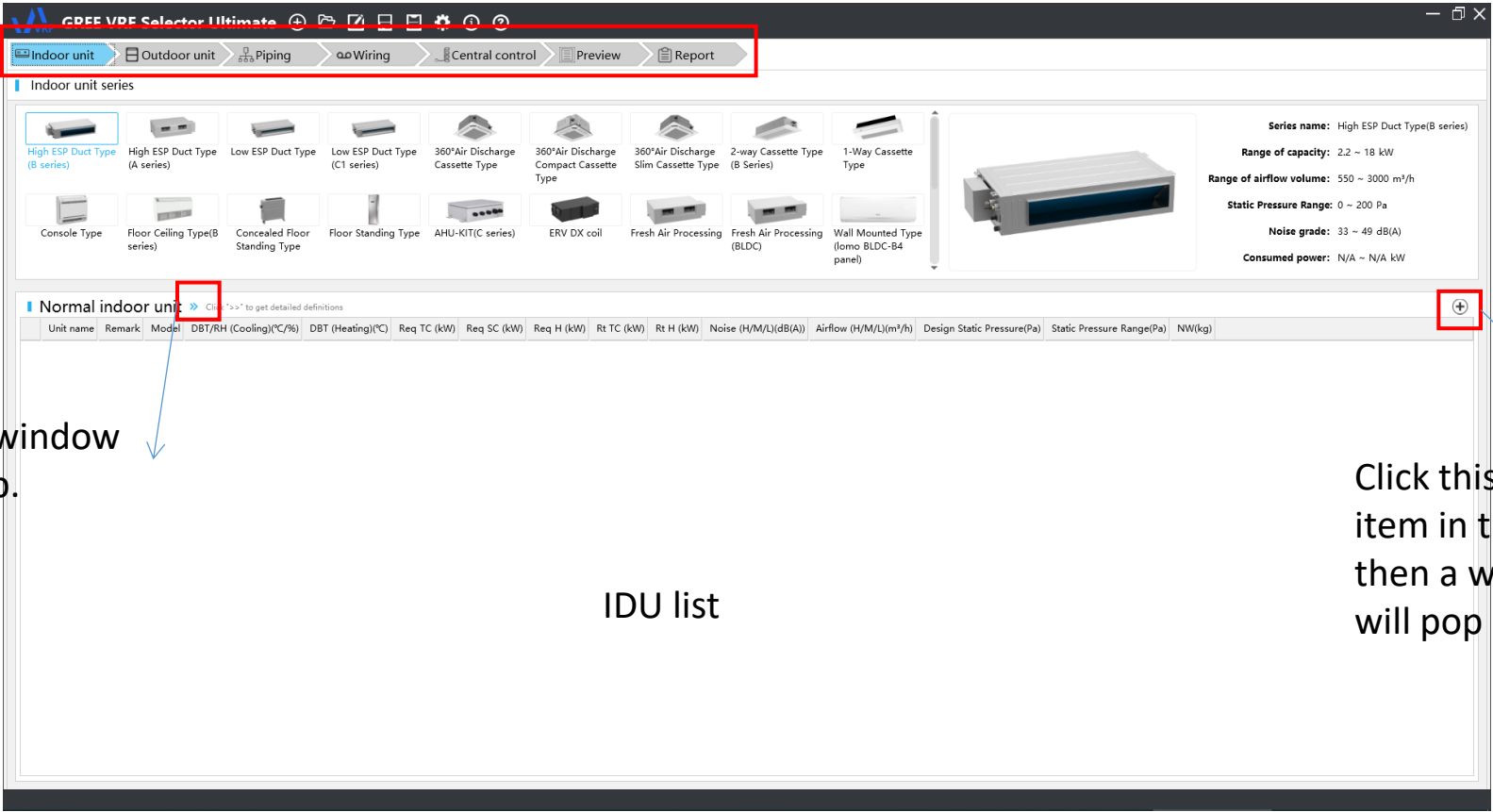
List of IDU series

IDU information

Click the blue arrow and a window of specifications will pop up.

Click this icon or double-click an item in the list of IDU series, then a window of IDU adding will pop up.

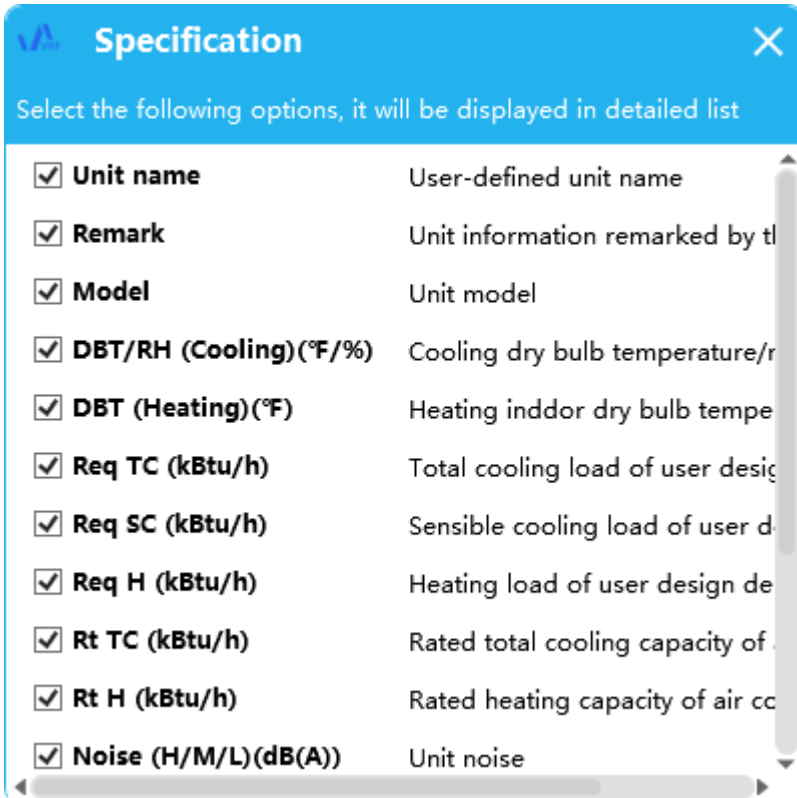
IDU list



3. IDU selection

Selection of specifications

Normal indoor unit >> Click ">>" to get detailed definitions											+
Unit name	Remark	Model	DBT/RH (Cooling)(°F/%)	DBT (Heating)(°F)	Req TC (kBtu/h)	Req SC (kBtu/h)	Req H (kBtu/h)	Rt TC (kBtu/h)	Rt H (kBtu/h)	Noise (H/M/L)(dB(A))	Airflow (H/M/L)(CFM)

A blue dialog box titled "Specification" with a close button (X) in the top right corner. Below the title bar, it says "Select the following options, it will be displayed in detailed list". There is a list of 11 items, each with a checked checkbox and a description. The items are: Unit name (User-defined unit name), Remark (Unit information remarked by tl), Model (Unit model), DBT/RH (Cooling)(°F/%) (Cooling dry bulb temperature/r), DBT (Heating)(°F) (Heating inddor dry bulb tempe), Req TC (kBtu/h) (Total cooling load of user desig), Req SC (kBtu/h) (Sensible cooling load of user d), Req H (kBtu/h) (Heating load of user design de), Rt TC (kBtu/h) (Rated total cooling capacity of), Rt H (kBtu/h) (Rated heating capacity of air co), and Noise (H/M/L)(dB(A)) (Unit noise). A scrollbar is visible on the right side of the list.

<input checked="" type="checkbox"/> Unit name	User-defined unit name
<input checked="" type="checkbox"/> Remark	Unit information remarked by tl
<input checked="" type="checkbox"/> Model	Unit model
<input checked="" type="checkbox"/> DBT/RH (Cooling)(°F/%)	Cooling dry bulb temperature/r
<input checked="" type="checkbox"/> DBT (Heating)(°F)	Heating inddor dry bulb tempe
<input checked="" type="checkbox"/> Req TC (kBtu/h)	Total cooling load of user desig
<input checked="" type="checkbox"/> Req SC (kBtu/h)	Sensible cooling load of user d
<input checked="" type="checkbox"/> Req H (kBtu/h)	Heating load of user design de
<input checked="" type="checkbox"/> Rt TC (kBtu/h)	Rated total cooling capacity of
<input checked="" type="checkbox"/> Rt H (kBtu/h)	Rated heating capacity of air co
<input checked="" type="checkbox"/> Noise (H/M/L)(dB(A))	Unit noise

1.By selecting these parameters, you can adjust data items shown in the IDU list of the IDU selection interface.

2.You can view the explanation of each abbreviated parameter.

3. IDU selection

Window of IDU adding

Indoor unit

Unit name: Ind 1

Remark:

IDU series: AHU-KIT(C series)

AHU Type: ☒ Return Air ☐ Fresh Air

☐ Manual selection

Design condition T1 T3 More...

Cooling

Dry bulb temp. 80.60 °F

Wet bulb temp. 66.20 °F

Relative HUM 45.77 %

Heating

Dry bulb temp. 68.00 °F

Required Capacity ☐ Sensible cooling

Total cooling 0 kBtu/h

Heating 0 kBtu/h

height difference to ODU 0 ft

Cancel Add

AHU-KIT

Indoor unit

Unit name: Ind 1

Remark:

IDU series: High ESP Duct Type(B series)

☐ Manual selection

Design condition T1 T3 More...

Cooling

Dry bulb temp. 80.60 °F

Wet bulb temp. 66.20 °F

Relative HUM 45.77 %

Heating

Dry bulb temp. 68.00 °F

Required Capacity ☐ Sensible cooling

Total cooling 0 kBtu/h

Heating 0 kBtu/h

Static pressure 0 inWG

height difference to ODU 0 ft

Cancel Add

Common IDU

Indoor unit

Unit name: Ind 1

Remark:

IDU series: ERV DX coil

☐ Manual selection

Design condition T1 T3 More...

Cooling

Dry bulb temp. 80.60 °F

Wet bulb temp. 66.20 °F

Relative HUM 45.77 %

Heating

Dry bulb temp. 68.00 °F

Required Capacity

Static pressure 0 inWG

Fresh air 0 CFM

height difference to ODU 0 ft

Cancel Add

Fresh air unit

Set unit name and remark

Click the blue arrow or select the select box and then a manual selection window will pop up.

(When you add AHU-KIT, select AHU. Once added, it can't be changed.)

Set working condition

Design load
(Different design load selections are displayed as per IDU series.)

Other settings, height difference to ODU
(For example, position of the ODU relative to IDUs)

Click "Add" to add one IDU.

3. IDU selection

Auto recommendation

Indoor unit

Unit name

Ind 1

Remark

IDU series

High ESP Duct Type(B series)

Manual selection

Design condition T1 T3 More...

Cooling

Dry bulb temp. 27.00 °C

Wet bulb temp. 19.00 °C

Relative HUM 45.77 %

Heating

Dry bulb temp. 20.00 °C

Required Capacity ☐ Sensible cooling

Total cooling 10 kW

Heating 10 kW

Static pressure 0 Pa

height difference to ODU

0 m

Cancel

Add

Normal indoor unit >> Click ">>" to get detailed definitions

Unit name	Remark	Model	DBT/RH (Cooling)(°C/%)	DBT (Heating)(°C)	Req TC (kW)	Req SC (kW)	Req H (kW)	Rt TC (kW)	Rt H (kW)	Noise (H/M/L)(dB(A))	Airflow (H/M/L)(m³/h)
Ind 1		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	10	10	11.2	40/37/35	1800/1450/1250
Ind 2		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	10	10	11.2	40/37/35	1800/1450/1250
Ind 3		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	10	10	11.2	40/37/35	1800/1450/1250

(Fully automatic)

1. Every time you click "Add", it will automatically select IDUs according to the selected IDU series, input working condition and design load. The selected IDUs will be displayed in the IDU list.
2. IDUs will be adjusted automatically in following selections.
3. If no IDU is satisfied, it will inform you of the cause.

(Semi automatic)

After clicking the blue arrow, a manual selection window will pop up. When the manual select box is not selected:

1. Double-click the specific model and set the rated power of that model as design load; when you click "Add", the unit that satisfies the required capacity will be recommended and added to the IDU list.
2. IDUs will be adjusted automatically in following selections.

3.IDU selection

Manual selection

Indoor unit

Unit name

Remark

IDU series

☒ Manual selection

Model

Design condition

T1 T3 More...

Cooling

Dry bulb temp. °C

Wet bulb temp. °C

Relative HUM %

Heating

Dry bulb temp. °C

Required Capacity

☐ Sensible cooling

Total cooling kW

Heating kW

Static pressure Pa

height difference to ODU

m

Cancel

Add

Indoor unit series

High ESP Duct Type (B series)

High ESP Duct Type (A series)

Low ESP Duct Type

360° Air Discharge Cassette Type

360° Air Discharge Compact Cassette Type

360° Air Discharge Slim Cassette Type

4-Way Cassette Type (phasing out)

2-way Cassette Type (B Series)

2-Way Cassette Type (phasing out)

1-Way Cassette Type

Indoor unit list

Model	Rt TC (kW)	Rt H (kW)	NW(kg)	Noise (H/M/L)(dB(A))	Static Pressure Range(Pa)
GMV-ND22PHS/B-T	2.2	2.5	32	33/30/28	0~150
GMV-ND25PHS/B-T	2.5	2.8	32	33/30/28	0~150
GMV-ND28PHS/B-T	2.8	3.2	32	33/30/28	0~150
GMV-ND32PHS/B-T	3.2	3.6	32	33/31/29	0~150
GMV-ND36PHS/B-T	3.6	4	32	33/31/29	0~150
GMV-ND40PHS/B-T	4	4.5	34	36/34/32	0~150
GMV-ND45PHS/B-T	4.5	5	34	36/34/32	0~150
GMV-ND50PHS/B-T	5	5.6	34	36/34/32	0~150
GMV-ND56PHS/B-T	5.6	6.3	43	37/35/33	0~200
GMV-ND63PHS/B-T	6.3	7.1	43	37/35/33	0~200
GMV-ND71PHS/B-T	7.1	8	43	38/36/34	0~200
GMV-ND80PHS/B-T	8	9	43	38/36/34	0~200
GMV-ND90PHS/B-T	9	10	57	40/37/35	0~200
GMV-ND100PHS/B-T	10	11.2	57	40/37/35	0~200

(Completely manual)

After selecting the select box, a manual selection window will pop up.

- 1.Double-click the specific model. If the current input load is “0”, then set the design load; if the current load is not “0”, then do not change the design load. The column of Model will display the selected IDUs. When you click “Add”, the unit will be added to the IDU list.
- 2.IDUs will not be adjusted in following selections.

3.IDU selection

Preview Submittal report(This function is only for North America at present)

Indoor unit

Unit name

Remark

IDU series

Wall Mounted Type(lomo B4

Manual selection

Design condition

T1 T3 More...

Cooling

Dry bulb temp. °F

Wet bulb temp. °F

Relative HUM %

Heating

Dry bulb temp. °F

Required Capacity

Sensible cooling

Total cooling kBtu/h

Heating kBtu/h

height difference to ODU

ft

Cancel

Add

Indoor unit series

2-way Cassette Type
(B Series)

1-Way Cassette
Type

Wall Mounted Type
(Cozy A3 panel)

Wall Mounted Type
(Cozy E3 panel)

Wall Mounted Type
(lomo B4 panel)

Console Type

Floor Ceiling Type

Air Handler(B series)

AHU-KIT(C series)

Fresh Air Processing

Indoor unit list

Click to preview Submittal report

Preview

Model	Rt TC (kBtu/h)	Rt H (kBtu/h)	NW(Lbs)	Noise (H/M/L)(dB(A))
GMV-ND06G/B4B-T(U)	6	6	23.5	35/33/30
GMV-ND07G/B4B-T(U)	7.5	8.5	23.5	35/33/30
GMV-ND09G/B4B-T(U)	9.5	10.5	23.5	35/33/30
GMV-ND12G/B4B-T(U)	12	13.5	23.5	38/35/31
GMV-ND14G/B4B-T(U)	15	17	27.5	43/40/37
GMV-ND18G/B4B-T(U)	18	20	35.5	43/41/37
GMV-ND24G/B4B-T(U)	24	25.5	35.5	44/41/37
GMV-ND30G/B4B-T(U)	30	34	41	49/46/40
GMV-ND36G/B4B-T(U)	32.5	36	41	52/48/40

- 1.Select any series and choose a model;
- 2.Click “Preview” button;
- 3.Submittal report can be previewed when operation and sources are normal ;
- 4.If preview is unavaible, corresponding reasons will be displayed.

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3. IDU selection

Actions of IDU list

GRE VRF Selector Ultimate

Indoor unit series

High ESP Duct Type (D series) High ESP Duct Type (B series) High ESP Duct Type (B3 series) High ESP Duct Type (A series) Medium ESP Duct Type Low ESP Duct Type (C1 series) 360° Air Discharge Cassette Type (D series) 360° Air Discharge Cassette Type 360° Air Discharge Compact Cassette Type 360° Air Discharge Slim Cassette Type 2-way Cassette Type (B Series) 1-way Cassette Type (B series) 1-Way Cassette Type Console Type Floor Ceiling Type (B series) Concealed Floor Standing Type Floor Standing Type AHU-KIT(C series)

Series name: High ESP Duct Type(D series)
Range of capacity: 2.2 ~ 18 kW
Range of airflow volume: 550 ~ 3000 m³/h
Static Pressure Range: 0 ~ 200 Pa
Noise grade: 35 ~ 49 dB(A)

Normal indoor unit

Unit name	Remark	Model	DBT/RH (Cooling)(°C/%)	DBT (Heating)(°C)	Req TC (kW)	Req SC (kW)	Req H (kW)	Rt TC (kW)	Rt H (kW)	Noise (H/M/L)(dB(A))	Airflow (H/M/L)(m³/h)	Design Static Pressure(Pa)	Static Pressure Range(Pa)	NW(kg)
Ind 1		GMV-ND22PHS/D-T	27 / 45.77	20	0	0	0	2.2	2.5	35/31/29	550/480/400	0	0~80	30.5
Ind 2		GMV-ND22PHS/B-T	27 / 45.77	20	0	0	0	2.2	2.5	33/30/28	550/480/400	0	0~150	32
Ind 3		GMV-ND63PHS/B3-T	27 / 45.77	20	0	0	0	6.3	7.1	37/35/33	1000/800/700	0	0~200	43.5
Ind 4		GMV-ND224PH/A-T	27 / 45.77	20	22.4	0	2			54/52/49	4000/3600/3200	60	50~200	82
Ind 5		GMV-ND90PMS/A1-T	27 / 45.77	20	9	0	1			40/36/32	1700/1500/1100	60	0~80	43.5

Delete
Edit
Copy
Bulk replication

Click a certain IDU in the list, then three icons will show up in the header.

Right-click a certain IDU in the list, then an action menu will appear.

The three icons correspond to the three actions in the menu:

Delete: Delete the corresponding IDU;

Edit: Edit the corresponding IDU;

Copy: Copy the corresponding IDU.

Bulk replication: Bulk Copy the corresponding IDU.

3. IDU selection

Display of different IDU series

GREE VRF Selector Ultimate

Indoor unit > Outdoor unit > Piping > Wiring > Central control > Preview > Report

Indoor unit series

High ESP Duct Type (B series) High ESP Duct Type (A series) Low ESP Duct Type Low ESP Duct Type (C1 series) 360° Air Discharge Cassette Type 360° Air Discharge Compact Cassette Type 360° Air Discharge Slim Cassette Type 2-way Cassette Type (B Series) 1-Way Cassette Type

Console Type Floor Ceiling Type (B series) Concealed Floor Standing Type Floor Standing Type **AHU-KIT (C series)** ERV DX coil Fresh Air Processing Fresh Air Processing (BLDC) Wall Mounted Type (lomo BLDC-B4 panel)

Series name: AHU-KIT (C series)
Range of capacity: 2.8 ~ 252 kW

Normal indoor unit > Click ">>" to get detailed definitions

Unit name	Remark	Model	DBT/RH (Cooling)(°C/%)	DBT (Heating)(°C)	Req TC (kW)	Req SC (kW)	Req H (kW)	Rt TC (kW)	Rt H (kW)	Noise (H/M/L)(dB(A))	Airflow (H/M/L)(m³/h)	Design Static Pressure(Pa)	Static Pressure Range(Pa)	NW(kg)
Ind 1		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	11.2	10	11.2	40/37/35	1800/1450/1250	0	0~200	57
Ind 2		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	11.2	10	11.2	40/37/35	1800/1450/1250	0	0~200	57
Ind 3		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	11.2	10	11.2	40/37/35	1800/1450/1250	0	0~200	57
Ind 4		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	11.2	10	11.2	40/37/35	1800/1450/1250	0	0~200	57
Ind 5		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	11.2	10	11.2	40/37/35	1800/1450/1250	0	0~200	57
Ind 6		GMV-ND100PHS/B-T	27 / 45.77	20	10	0	11.2	10	11.2	40/37/35	1800/1450/1250	0	0~200	57

Fresh air unit > Click ">>" to get detailed definitions

Unit name	Remark	Model	DBT/RH (Cooling)(°C/%)	DBT (Heating)(°C)	Design fresh air(m³/h)	Design Static Pressure(Pa)	Airflow (H/M/L)(m³/h)	Static Pressure Range(Pa)	Rt TC (kW)	Rt H (kW)	Noise (H/M/L)(dB(A))	NW(kg)
Ind 14		GMV-VDR5PH/SA-S	27 / 45.77	20	500	0	500/400/300	0~150	8.5	4	41/37/32	120
Ind 15		GMV-VDR5PH/SA-S	27 / 45.77	20	500	0	500/400/300	0~150	8.5	4	41/37/32	120
Ind 16		GMV-VDR5PH/SA-S	27 / 45.77	20	500	0	500/400/300	0~150	8.5	4	41/37/32	120
Ind 17		GMV-VDR5PH/SA-S	27 / 45.77	20	500	0	500/400/300	0~150	8.5	4	41/37/32	120

AHU-KIT > Click ">>" to get detailed definitions

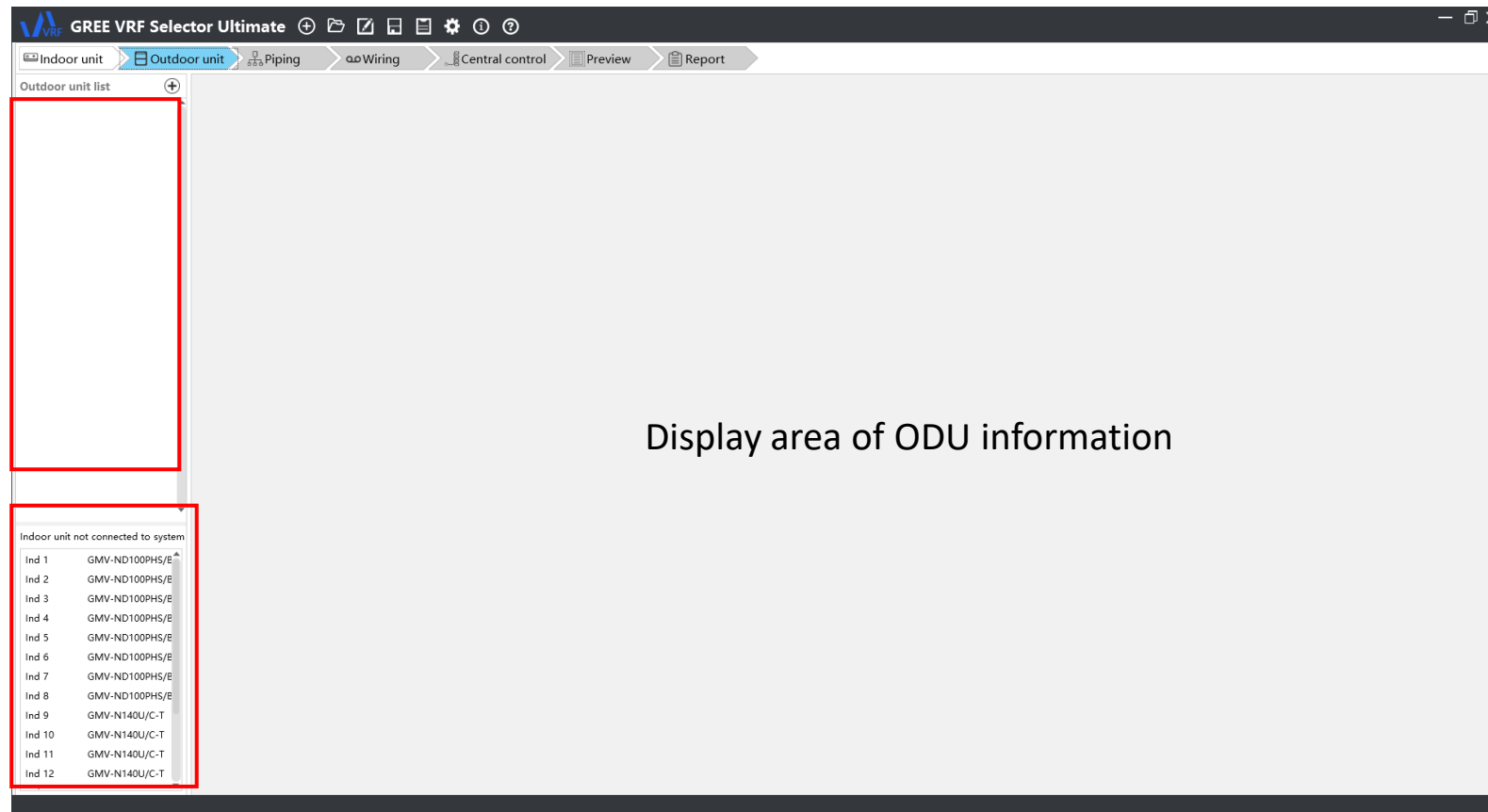
Unit name	Remark	Model	DBT/RH (Cooling)(°C/%)	DBT (Heating)(°C)	Req TC (kW)	Req SC (kW)	Req H (kW)	Rated Capacity(kW)	Range of cooling capacity(kW)	Range of heating capacity(kW)	Suggested Airflow Range(m³/h)	NW(kg)
Ind 9		GMV-N140U/C-T	27 / 45.77	20	10	0	11.2	11.2	9~11.2	10~12.5	1350~2128	10.5
Ind 10		GMV-N140U/C-T	27 / 45.77	20	10	0	11.2	11.2	9~11.2	10~12.5	1350~2128	10.5
Ind 11		GMV-N140U/C-T	27 / 45.77	20	10	0	11.2	11.2	9~11.2	10~12.5	1350~2128	10.5
Ind 12		GMV-N140U/C-T	27 / 45.77	20	10	0	11.2	11.2	9~11.2	10~12.5	1350~2128	10.5
Ind 13		GMV-N140U/C-T	27 / 45.77	20	10	0	11.2	11.2	9~11.2	10~12.5	1350~2128	10.5

Common IDUs, fresh air units and AHU-KIT are displayed separately in three zones because they have different parameter lists.

4. ODU selection

ODU selection Interface

After IDU selection is done, click “Outdoor unit” at the process navigation bar to enter the ODU selection interface.



List of ODUs

Display area of ODU information

List of IDUs that are not added to the system

4. ODU selection

Add an ODU system

Edit, delete

Add a system

The screenshot displays the GREE VRF Selector Ultimate software interface. The main window has a top menu bar with tabs: Indoor unit, Outdoor unit (selected), Piping, Wiring, Central control, Preview, and Report. Below the menu bar, there's a section for 'Outdoor unit list' showing 'System 1' and 'System 2'. A red box highlights the '+' icon next to 'System 2', with an arrow pointing to the 'Add a system' text. Another red box highlights the edit and delete icons next to 'System 1', with an arrow pointing to the 'Edit, delete' text. The 'Outdoor unit editing' dialog box is open, showing details for 'System 2'. It includes fields for Unit name, Power Supply, Function type, Series, and Model. The 'Selection' section shows 'Maximum connection ratio' as 135%, 'Total capacity' with TC, H, SC, and Unit values, and 'ODU Rated' and 'Indoor Req' values. The 'Design condition' section shows Cooling and Heating parameters for Indoor and Outdoor units. The 'Indoor unit connected to air conditioning system' table is empty. The 'Indoor unit not connected to system' table lists units from Ind 7 to Ind 17. The 'Design Static Pressure(Pa)' table shows values for Design Static Pressure, Static Pressure Range, and NW(kg). The 'GMV-ND100PHS/B-T' table shows Required Capacity, TC, SC, H, and Unit(kW) values.

Unit name	Remark
Ind 1	GMV-N
Ind 2	GMV-N
Ind 3	GMV-N
Ind 4	GMV-N
Ind 5	GMV-N
Ind 6	GMV-N

Unit name	Model	Req TC (kW)	Req H (kW)	Req SC (kW)
Ind 7	GMV-ND100PHS/B-T			
Ind 8	GMV-ND100PHS/B-T			
Ind 9	GMV-N140U/C-T			
Ind 10	GMV-N140U/C-T			
Ind 11	GMV-N140U/C-T			
Ind 12	GMV-N140U/C-T			
Ind 13	GMV-N140U/C-T			
Ind 14	GMV-VDR5PH/SA-S			
Ind 15	GMV-VDR5PH/SA-S			
Ind 16	GMV-VDR5PH/SA-S			
Ind 17	GMV-VDR5PH/SA-S			

Design Static Pressure(Pa)	Static Pressure Range(Pa)	NW(kg)
0	0~200	57
0	0~200	57
0	0~200	57
0	0~200	57
0	0~200	57
0	0~200	57

GMV-ND100PHS/B-T				
Required Capacity	Unit(kW)	TC	SC	H
10	0	11.2		

4. ODU selection

System selection window

Press the icon of system adding and the system selection window will pop up.

Power supply selection

Edit system name

ODU series select box

ODU system information

Manual selection

Functions to be selected: heat pump, heat recovery, hot water VRF, cooling only,GMV Water Heat Pump,GMV Water Heat Recovery

Design condition

List of IDUs to be added to the system
Select one IDU or press "Shift" and left-click to select multiple IDUs. Then drag the IDU(s) to the list of system IDUs. In this way, IDUs are successfully added. After IDUs are added, it will automatically recommend the ODU.

Display of IDU parameters

Outdoor unit editing


Unit name System 2

Power Supply 380~415V,3Ph,50Hz

Function type Heat pump

Series E Heat Pump(EU)(phasing out)

Model GMV-2016WM/E-X



Manual Selection

Maximum connection ratio 110 %

Total capacity	TC	H	SC	Unit
ODU Rated	201.5	226.5	/	kW
Indoor Req	196	220.5	0	kW

Maximum of IDU: 80 Range of ESP: 0~82 Pa

Design condition

Cooling

Indoor DBT 27.00 °C WBT 19.00 °C RH 45.77 %

Outdoor DBT 35.00 °C

Heating

Indoor DBT 20.00 °C

Outdoor DBT 7.00 °C WBT 6.00 °C RH 85.36 %

Indoor unit connected to air conditioning system

Unit name	Model	Req TC (kW)	Req H (kW)	Req SC (kW)
Ind 2	GMV-N560U/C-T+GMV-N560U/C-T+GMV-N280U/C-T	196	220.5	0

List of system IDUs

Indoor unit not connected to system

Ind 3 GMV-ND100PHS/B-T

Ind 4 GMV-ND100PHS/B-T

Ind 5 GMV-ND100PHS/B-T

Ind 6 GMV-ND100PHS/B-T

Ind 7 GMV-ND100PHS/B-T

Ind 8 GMV-ND100PHS/B-T

Ind 9 GMV-ND100PHS/B-T

Ind 10 GMV-ND100PHS/B-T

Ind 11 GMV-ND100PHS/B-T

GMV-N560U/C-T+GMV-N560U/C-T+GMV-N280U/

Required Capacity

Unit(kW)

TC	196	SC	0	H	220.5
----	-----	----	---	---	-------

* Applicable for one-to-one unit

Drag the indoor unit to this table

Cancel Confirm

4. ODU selection

GMV Water ODU selection

GMV Water ODU selection

Outdoor unit editing

Unit nameSystem 2Power Supply380~415V,3Ph,50HzFunction typeat pump(GMV Water)

SeriesGMV water Heat pumpModelGMV-W335WM/A-X89.55 %

GMV-W335WM/A-X

Selection

Maximum connection ratio110 %

Total capacity

TC	H	SC	Unit
33.5	37.5	/	kW

ODU Rated

33.5	37.5	/	kW
------	------	---	----

Indoor Req

30	33.6	0	kW
----	------	---	----

Maximum of IDU: 19Range of ESP: 0 Pa

Design condition

Cooling

Indoor

DBT27.00 °C

WBT19.00 °C

RH45.77 %

Outdoor

IWT35.00 °C

Heating

Indoor

DBT20.00 °C

Outdoor

IWT7.00 °C

WaterFlow

Water Flow6.00 m³/h

Manual Selection

Indoor unit connected to air conditioning system

Unit name	Model	Req TC (kW)	Req H (kW)	Req SC (kW)
Ind 3	GMV-ND100PHS/B-T	10	11.2	0
Ind 4	GMV-ND100PHS/B-T	10	11.2	0
Ind 5	GMV-ND100PHS/B-T	10	11.2	0

List of system IDUs

Drag the indoor unit to this table

Indoor unit not connected to system

Ind 6

GMV-ND100PHS/B-T

Ind 7

GMV-ND100PHS/B-T

Ind 8

GMV-ND100PHS/B-T

Ind 9

GMV-ND100PHS/B-T

Ind 10

GMV-ND100PHS/B-T

Ind 11

GMV-ND100PHS/B-T

Ind 12

GMV-ND100PHS/B-T

Ind 2

GMV-N560U/C-T+GMV-N560U/C

GMV-ND100PHS/B-T

Required Capacity

Unit(kW)

TC	10	SC	0	H	11.2
----	----	----	---	---	------

Cancel

Confirm

GMV Water condition
IWT — Inlet Water Temperature

4. ODU selection

Manual selection, free combination of ODUs

After IDUs are dragged in place, click “Manual Selection” or ODU module combination, then the window of module combination will appear.

Set the range of connection ratio of the ODU system

Recommended ODU systems that satisfy the range of connection ratio

Manual Selection

Maximum of IDU: 19 Range of ESP: 0~110 Pa DBT 35.00 °C RH 85.36 %

Range of connection ratio(%) Lower limit 50 Upper limit 135 Screen unit mode

	Ratio(%)	Rt TC (kW)	Rt H (kW)	Model	Unit module	Unit module	Unit module	Unit module
<input type="radio"/>	133.93	22.4	25	GMV-VQ224WM/C-X	GMV-VQ224WM/C-X			
<input type="radio"/>	107.14	28	31.5	GMV-VQ280WM/C-X	GMV-VQ280WM/C-X			
<input type="radio"/>	89.55	33.5	37.5	GMV-VQ335WM/C-X	GMV-VQ335WM/C-X			
<input type="radio"/>	75	40	45	GMV-VQ400WM/C-X	GMV-VQ400WM/C-X			
<input type="radio"/>	66.67	45	50	GMV-VQ450WM/C-X	GMV-VQ450WM/C-X			
<input type="radio"/>	59.52	50.4	56.5	GMV-VQ504WM/C-X	GMV-VQ504WM/C-X			
<input type="radio"/>	53.57	56	63	GMV-VQ560WM/C-X	GMV-VQ560WM/C-X			

Indoor unit connected to air conditioning system

Unit name	Model	Req TC (kW)	Req H (kW)	Req SC (kW)
Ind 1	GMV-ND100PHS/B-T	10	11.2	0

Indoor unit not connected to system

GMV-ND100PHS/B-T

Cancel Confirm

You can choose modules that make up the ODU system (four modules at most) according to the actual condition.

Click “Confirm” to complete the selection of ODUs.

4. ODU selection

Selection of special modules

If you select GMV6 heat pump series, heat storage module selection button will appear.

Outdoor unit editing

Unit name: System 2 Power Supply: 380~415V,3Ph,50Hz Function type: Heat pump

Series: 6 Heat Pump (Universal series) Model: GMV-335WM/G-X 89.55 % **Storage heat module selection**

GMV-335WM/G-X

Selection

Maximum connection ratio: 110 %

Total capacity	TC	H	SC	Unit
ODU Rated	33.5	37.5	/	kW
Indoor Req	30	33.6	0	kW

Maximum of IDU: 19 Range of ESP: 0~110 Pa

Design condition

Cooling		Heating	
Indoor		Indoor	
DBT	27.00 °C	DBT	20.00 °C
WBT	19.00 °C	DBT	7.00 °C
RH	45.77 %	WBT	6.00 °C
Outdoor		Outdoor	
DBT	35.00 °C	RH	85.36 %

Manual Selection

Indoor unit connected to air conditioning system

Unit name	Model	Req TC (kW)	Req H (kW)	Req SC (kW)
Ind 3	GMV-ND100PHS/B-T	10	11.2	0
Ind 4	GMV-ND100PHS/B-T	10	11.2	0
Ind 5	GMV-ND100PHS/B-T	10	11.2	0

Indoor unit not connected to system

Ind 6	GMV-ND100PHS/B-T			
Ind 7	GMV-ND100PHS/B-T			
Ind 8	GMV-ND100PHS/B-T			
Ind 9	GMV-ND100PHS/B-T			
Ind 10	GMV-ND100PHS/B-T			
Ind 11	GMV-ND100PHS/B-T			
Ind 12	GMV-ND100PHS/B-T			
Ind 2	GMV-N560U/C-T+GMV-N560U/C			

GMV-ND100PHS/B-T

Required Capacity

TC	SC	H
10	0	11.2

Unit(kW)

Drag the indoor unit to this table

Cancel Confirm

If you select EU GMV6 HR or hot water VRF ODU, hot water module selection button will appear.

Outdoor unit editing

Unit name: System 2 Power Supply: 380~415V,3Ph,50Hz Function type: Heat recovery

Series: GMV6 Heat Recovery(EU) Model: GMV-VQ335WM/C-X 89.55 % **Model selection for hot water system**

GMV-VQ335WM/C-X

Selection

Maximum connection ratio: 110 %

Total capacity	TC	H	SC	Unit
ODU Rated	33.5	37.5	/	kW
Indoor Req	30	33.6	0	kW

Maximum of IDU: 19 Range of ESP: 0~110 Pa

Design condition

Cooling		Heating	
Indoor		Indoor	
DBT	27.00 °C	DBT	20.00 °C
WBT	19.00 °C	DBT	7.00 °C
RH	45.77 %	WBT	6.00 °C
Outdoor		Outdoor	
DBT	35.00 °C	RH	85.36 %

Manual Selection

Indoor unit connected to air conditioning system

Unit name	Model	Req TC (kW)	Req H (kW)	Req SC (kW)
Ind 3	GMV-ND100PHS/B-T	10	11.2	0
Ind 4	GMV-ND100PHS/B-T	10	11.2	0
Ind 5	GMV-ND100PHS/B-T	10	11.2	0

Indoor unit not connected to system

Ind 6	GMV-ND100PHS/B-T			
Ind 7	GMV-ND100PHS/B-T			
Ind 8	GMV-ND100PHS/B-T			
Ind 9	GMV-ND100PHS/B-T			
Ind 10	GMV-ND100PHS/B-T			
Ind 11	GMV-ND100PHS/B-T			
Ind 12	GMV-ND100PHS/B-T			
Ind 2	GMV-N560U/C-T+GMV-N560U/C			

GMV-ND100PHS/B-T

Required Capacity

TC	SC	H
10	0	11.2

Unit(kW)

Drag the indoor unit to this table

Cancel Confirm

4. ODU selection

Special module selection – heat storage module

Series: GMV6 Heat Pump (Universal s) Model: GMV-1975WM/G-X 99.24%

GMV-615WM/G-X+GMV-680WM/G-X+GMV-680WM/G-X

Selection

Maximum connection ratio: 110 %

Total capacity	TC	H	SC	Unit
ODU Rated	197.5	222	/	kW
Indoor Req	196	220.5	0	kW

Maximum of IDU: 80 Range of ESP: 0~110 Pa

Design condition

Cooling

Indoor

DBT: 27.00 °C

WBT: 19.00 °C

RH: 45.77 %

Outdoor

DBT: 35.00 °C

Heating

Indoor

DBT: 20.00 °C

Outdoor

DBT: 7.00 °C

WBT: 6.00 °C

RH: 85.36 %

Manual Selection

Click the heat storage module selection button to enter the heat storage module selection panel.

Click the button of return to go back to the panel of ODU design condition.

Series: GMV6 Heat Pump (Universal s) Model: GMV-1975WM/G-X 99.24%

GMV-615WM/G-X+GMV-680WM/G-X+GMV-680WM/G-X

Selection

Maximum connection ratio: 110 %

Total capacity	TC	H	SC	Unit
ODU Rated	197.5	222	/	kW
Indoor Req	196	220.5	0	kW

Maximum of IDU: 80 Range of ESP: 0~110 Pa

Confirm and Return

☐ Storage heat module

Allow access to the configuration ratio: 90 - 150 %

Actual access to the configuration ratio: 0.00 %

Model	Rated Capacity	Count
XRZ180L/A-T	18 kW	0
Total	0 kW	0

Manual Selection

Select heat storage module and it will recommend you the number of heat storage modules according to the current capacity of ODUs.

After selecting heat storage module, enter the number of heat storage modules in the input box.

4. ODU selection

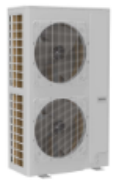
Special module selection – hot water module (hot water VRF)

Series GMV5 Home

Model GMV-S120WL/A-S

83.33 %

Model selection for hot water system



Manual Selection

Selection

Maximum connection ratio 110 %

Total capacity	TC	H	SC	Unit
ODU Rated	12.1	14	/	kW
Indoor Req	10	11.2	0	kW

Maximum of IDU: 7 Range of ESP: 0 Pa

Design condition

Cooling

Indoor

DBT 27.00 °C

WBT 19.00 °C

RH 45.77 %

Outdoor

DBT 35.00 °C

Heating

Indoor

DBT 20.00 °C

Outdoor

DBT 20.00 °C

WBT 6.00 °C

RH 0 %

Click the hot water module selection button to enter the hot water module selection panel.

Select hot water/floor heating/solar energy

☒ Hot water

☒ Floor heating

☐ Connected to solar energy?

Hot water

Demand:

Total demand of hot water 0 L

Number of people 0 Daily water consumption per capita 0 L

Hot Water Generator

Hot Water Generator 1 Fall with outdoor unit 0 m

Water tank

Total volume of water tank

Water tank 1 Fall with outdoor unit 0 m

Water tank 2 Fall with outdoor unit 0 m

Floor heating

Total load of floor heat 0 kW

Room type Living roc Heat load index 140 w/m² Room area 0 m²

Click the button of return to go back to the panel of ODU design condition.

Hot water panel


Floor heating panel

4. ODU selection

Special module selection – hot water module (GMV6 HR)

Series
GMV6 Heat Recovery(EU)

Model
GMV-VQ335WM/C-X
100.3%
Model selection for hot water system



Selection

Maximum connection ratio
110 %

Total capacity	TC	H	SC	Unit
ODU Rated	33.5	37.5	/	kW
Indoor Req	30	33.6	0	kW

Maximum of IDU: 19
Range of ESP: 0~110 Pa

Design condition

Cooling
Indoor

DBT 27.00 °C
WBT 19.00 °C
RH 45.77 %

Outdoor

DBT 35.00 °C

Heating
Indoor

DBT 20.00 °C

Outdoor

DBT 7.00 °C
WBT 6.00 °C
RH 85.36 %

Manual Selection

Click the hot water module selection button to enter the hot water module selection panel.

Select hot water/floor heating/solar energy

☐ Hot water
 ☐ Floor heating
 ☐ Connected to solar energy?
 [Return to model selection for outdoor unit](#)

Hot water
Demand:
 Total demand of hot water L
 Total demand of floor heating kW

Hot Water Generator
 Total load of floor heat kW

Hot Water Generator 1	<input type="text"/>	Floor Heating 1	<input type="text" value="0"/> kW	Fall with outdoor unit	<input type="text" value="0"/> m
Hot Water Generator 2	<input type="text"/>	Floor Heating 2	<input type="text" value="0"/> kW	Fall with outdoor unit	<input type="text" value="0"/> m

Water tank
 Total volume of water tank L

Water tank 1	<input type="text"/>	volume of water 1	<input type="text" value="0"/> L	Fall with Generator	<input type="text" value="0"/> m
Water tank 2	<input type="text"/>	volume of water 2	<input type="text" value="0"/> L	Fall with Generator	<input type="text" value="0"/> m

Click the button of return to go back to the panel of ODU design condition.

➤ Enter total demand

Hot water generator and floor heating

➤ Water tank

4. ODU selection

ODU Sbumittal preview(This function is only for North America at present)

Outdoor unit editing

Unit nameSystem 1Power Supply208~230V,3Ph,60HzFunction typeHeat pumpClick to preview Submittal reportPreview

SeriesGMV5 Heat Pump(AHRI)ModelGMV-216WM/B-F(U)100.00 %

GMV-96WM/B-F(U)+GMV-120WM/B-F(U)

Selection

Maximum connection ratio135 %

Total capacity

TC

H

SC

Unit

ODU Rated

216

243

/

kBtu/h

Indoor Req

216

240

0

kBtu/h

Maximum of IDU: 36

Range of ESP: 0~0.328 inWG

Design condition

Cooling

Indoor

DBT80.60 °F

WBT66.20 °F

RH45.77 %

Outdoor

DBT95.00 °F

Heating

Indoor

DBT68.00 °F

Outdoor

DBT44.60 °F

WBT42.80 °F

RH85.36 %

Manual Selection

Range of connection ratio(%) Lower limit50Upper limit135Screen unit mode

	Ratio(%)	Rt TC (kBtu/h)	Rt H (kBtu/h)	Model	Unit module	Unit module	Unit module
<input type="radio"/>	128.57	168	189	GMV-168WM/B1-F(U)	GMV-168WM/B1-F(U)		
<input type="radio"/>	128.57	168	189	GMV-168WM/B-F(U)	GMV-72WM/B-F(U)	GMV-96WM/B-F(U)	
<input type="radio"/>	112.5	192	216	GMV-192WM/B-F(U)	GMV-96WM/B-F(U)	GMV-96WM/B-F(U)	
<input type="radio"/>	100	216	243	GMV-216WM/B-F(U)	GMV-96WM/B-F(U)	GMV-120WM/B-F(U)	
<input type="radio"/>	90	240	270	GMV-240WM/B-F(U)	GMV-120WM/B-F(U)	GMV-120WM/B-F(U)	
<input type="radio"/>	81.82	264	297	GMV-264WM/B-F(U)	GMV-72WM/B-F(U)	GMV-96WM/B-F(U)	GMV-96WM/B-F(U)
<input type="radio"/>	75	288	324	GMV-288WM/B-F(U)	GMV-96WM/B-F(U)	GMV-96WM/B-F(U)	GMV-96WM/B-F(U)
<input type="radio"/>	69.23	312	351	GMV-312WM/B-F(U)	GMV-96WM/B-F(U)	GMV-96WM/B-F(U)	GMV-120WM/B-F(U)
<input type="radio"/>	64.29	336	378	GMV-336WM/B-F(U)	GMV-96WM/B-F(U)	GMV-120WM/B-F(U)	GMV-120WM/B-F(U)

Indoor unit connected to air conditioning system

Unit name	Model	Req TC (kBtu/h)	Req H (kBtu/h)	Req SC (kBtu/h)
Ind 1	GMV-N18G/E3A-D(U)	18	20	0

Drag the indoor unit to this table

Indoor unit not connected to system

GMV-N18G/E3A-D(U)

CancelConfirm

1.After connecting to an IDO, a ODU model will be recommended automatically or selected manually;

2.Click “Preview” button;



3.Submittal report can be previewed when operation and sources are normal ;


4.If preview is unavaible, corresponding reasons will be displayed.

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4. ODU selection

Click “Confirm” to complete the selection of ODUs. The detailed information of selected ODUs is displayed at the ODU system structure display area of the ODU selection interface.

System 1  



Model	GMV-1975WM/G-X	99.24%		
GMV-615WM/G-X+GMV-680WM/G-X+GMV-680WM/G-X				
Selection				
Total capacity	TC	H	SC	Unit
ODU Rated	197.5	222	/	kW
Indoor Req	196	220.5	0	kW

Design condition

Cooling

Indoor

DBT 27 °C

WBT 19 °C

RH 45.77 %

Outdoor

DBT 35 °C

Heating

Indoor

DBT 20 °C


Outdoor

DBT 7 °C

WBT 6 °C

RH 85.36 %

Maximum of IDU: 80 Range of ESP: 0~110 Pa



→ ODU system information

AHU-KIT >> Click ">>" to get detailed definitions

Unit name	Remark	Model	DBT/RH (Cooling)(°C/%)	DBT (Heating)(°C)	Req H (kW)	Req SC (kW)	Req H (kW)
Ind 1		GMV-N560U/C-T+GMV-N560U/C-T+GMV-N280U/C-T	27 / 45.77	20	196	0	220.5

→ Detailed information of IDUs contained in the system

5. Piping

Piping interface (Take heat pump system as an example)

Piping toolbar

Legend

List of ODUs

List of IDUs not connected to pipes

List of hot water generators not connected to pipes

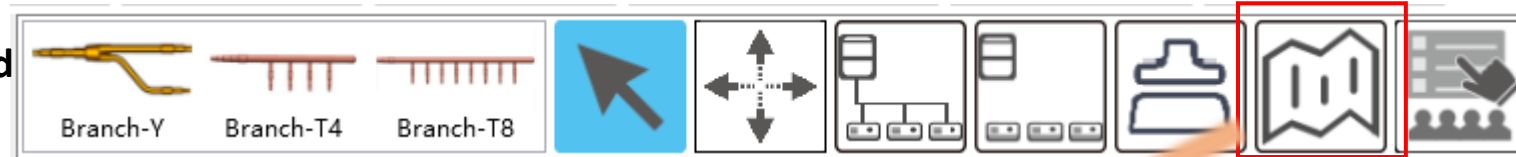
Main interface of piping

System message alert

The screenshot displays the GREE VRF Selector Ultimate software interface. The top menu bar includes 'Indoor unit', 'Outdoor unit', 'Piping', 'Wiring', 'Central control', 'Preview', and 'Report'. The 'Piping' tab is active. On the left sidebar, there are three lists: 'Outdoor unit list' (System 1: 121.75%), 'System 1: Unconnected indoor unit' (Ind 1, Ind 2, Ind 3, Ind 4, Ind 5), and 'System 1: Unconnected Generator'. The main workspace is a grid for piping layout. A red box highlights the 'Piping toolbar' and 'Legend' at the top. Another red box highlights the 'List of IDUs not connected to pipes' in the sidebar. A third red box highlights the 'System message alert' at the bottom, which reads: 'There is indoor unit not being connected!'.

5. Piping

Piping legend



Legend

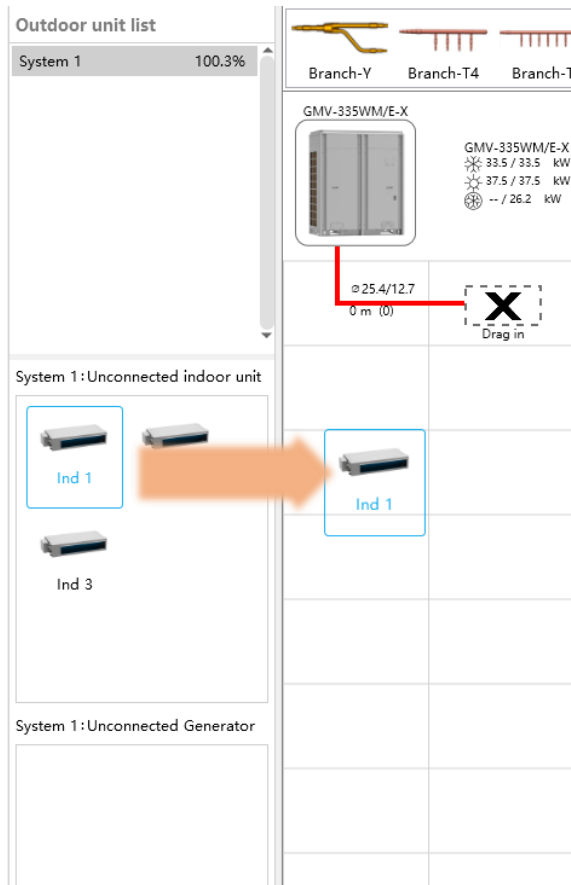
Item	Explain
1	Branch Name : Branch Model
2	Gas pipe /The pipe diameter of Liquid
3	The length of pipe(Elbow quantity)
4	H:Drop from ODU
5	Unit name
6	Unit model
7	Cooling Rated Capacity /Actual Capacity
8	Heating Rated Capacity /Actual Capacity
9	Sensible Cooling -- /Actual Capacity(l
10	Branch
11	Indoor unit
12	Connecting pipe
13	An unconnected branch

Click the icon of legend,
and the legend window
will appear.

5. Piping

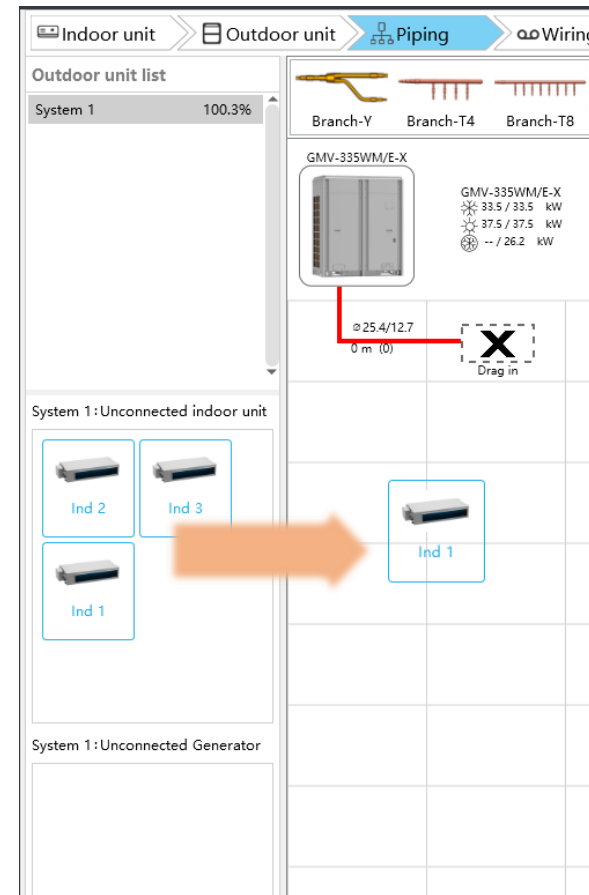
Piping process – Drag IDUs

Drag one IDU



Left-click the IDU and drag it to the main interface of piping.

Drag multiple ODU

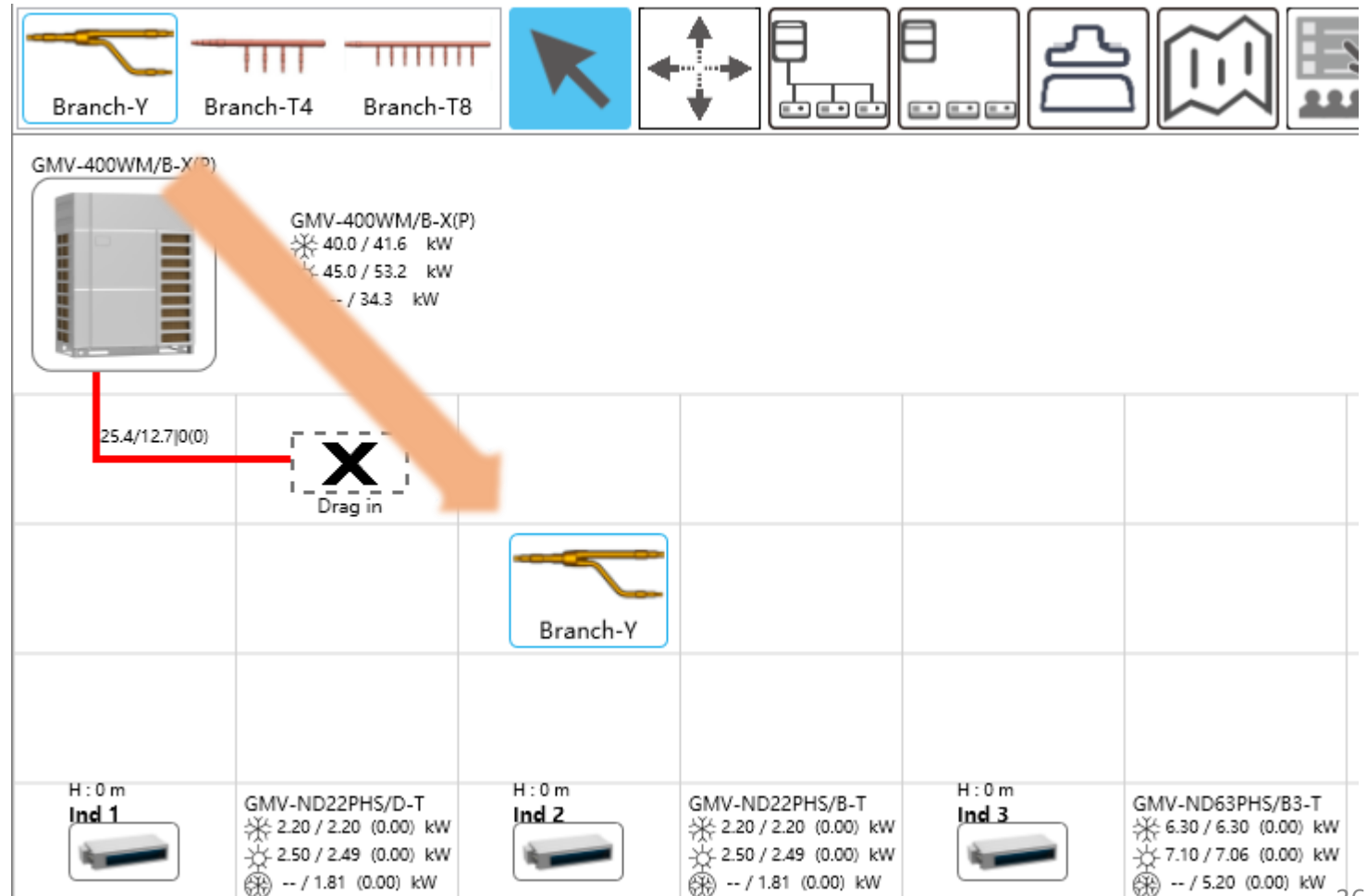


Press and hold “Shift” to select multiple IDUs. Don’t release “Shift” when dragging the IDU(s). Add multiple IDUs to the piping interface.

5. Piping

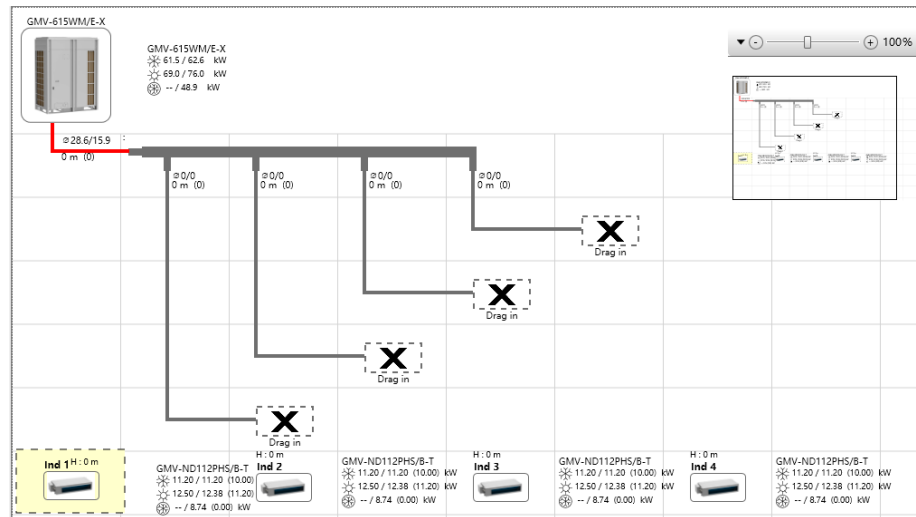
Piping process – Drag branches

Select proper branches based on needs. Left-click and drag it to the piping interface.

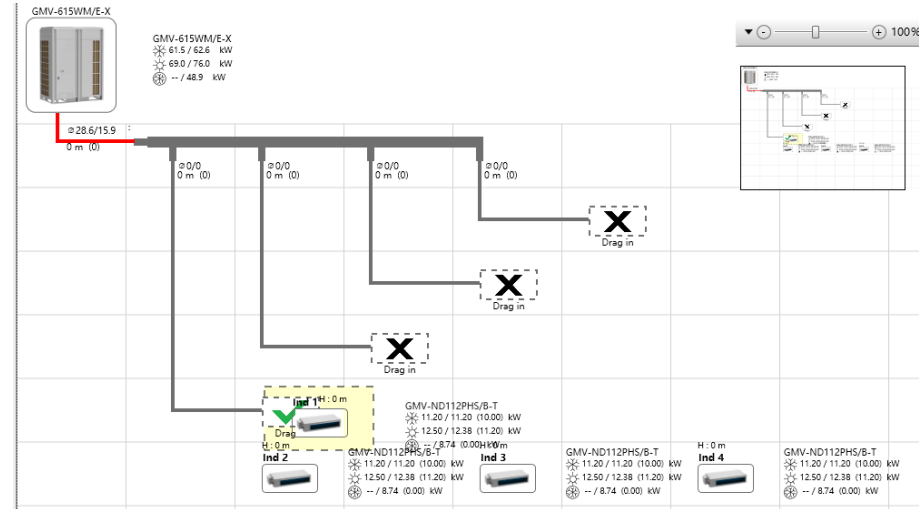


5. Piping

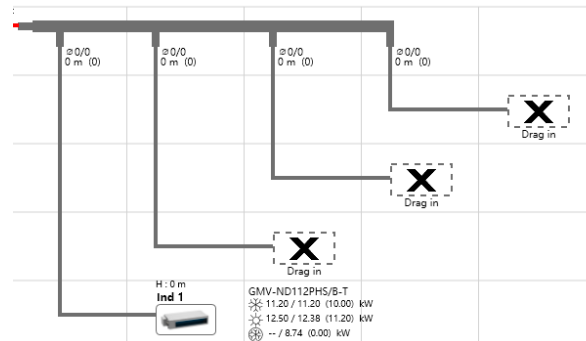
Piping process – Connection between branches and IDUs



Left-click the surrounding area of an IDU and drag it to the branch terminal marked with "X".



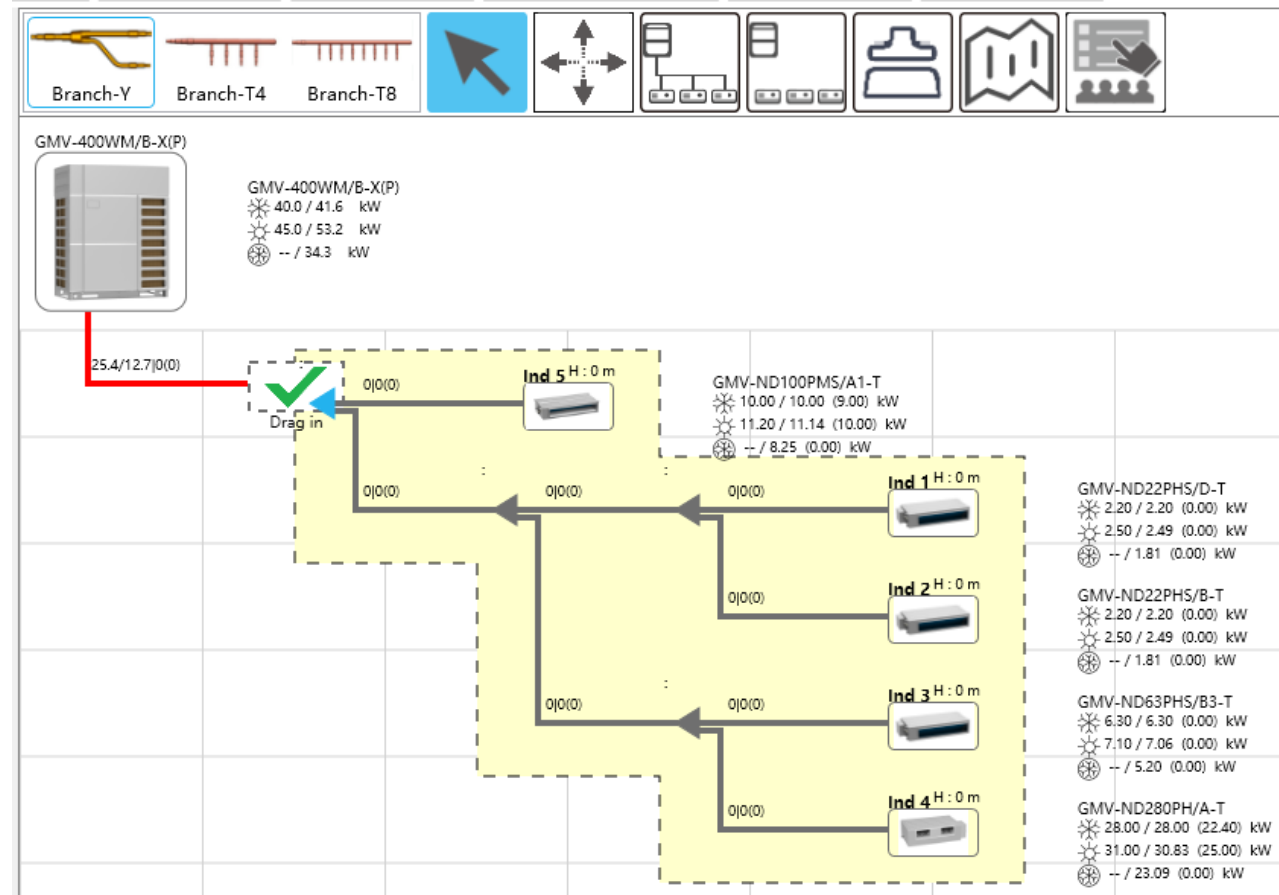
When the branch terminal shows "V", release the left mouse button. In this way, the branch is connected to the IDU.



5. Piping

Piping process – Connection between indoor and outdoor sides

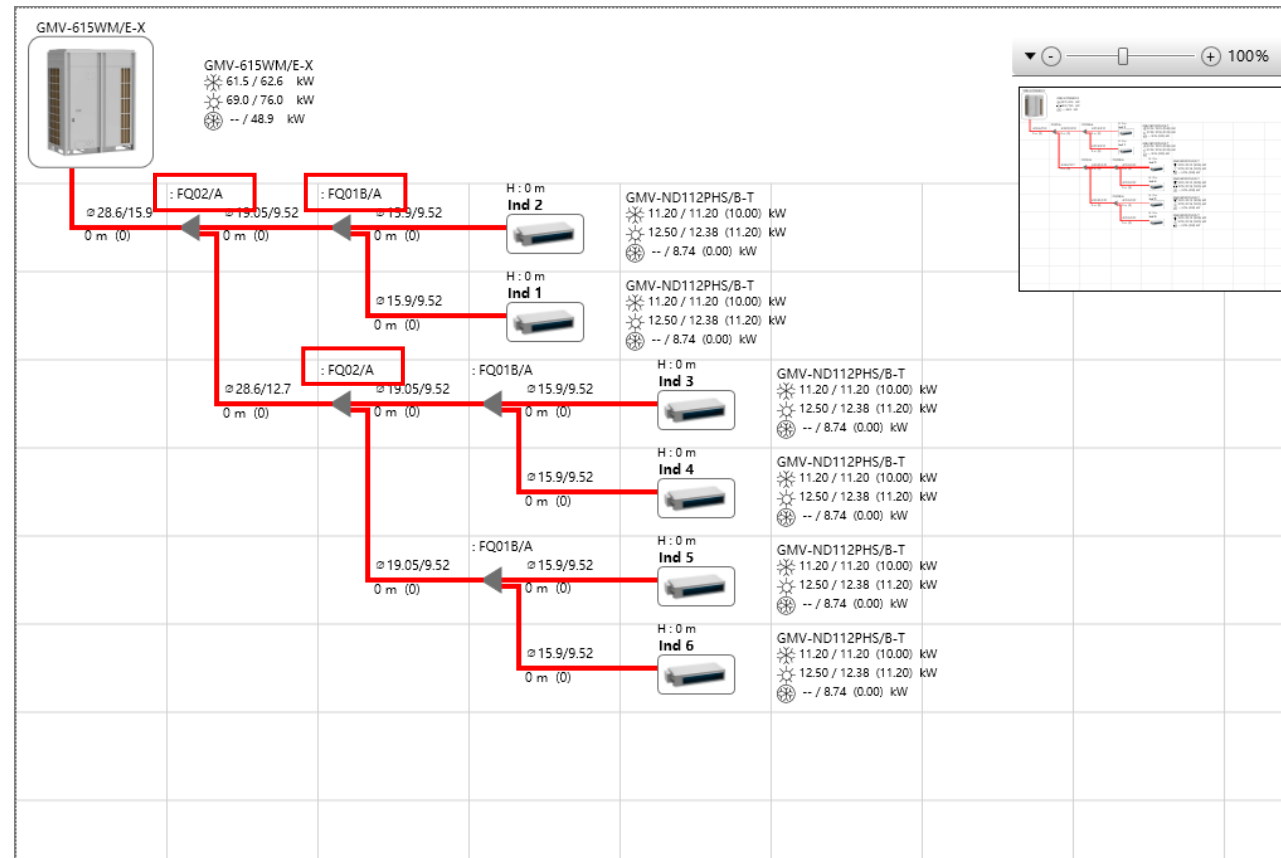
After all the IDUs and branches are connected, drag the surrounding area of the first branch in the whole piping network to the outdoor side, just like connecting the IDU to a branch. In this way, the outdoor and indoor sides are connected.



5. Piping

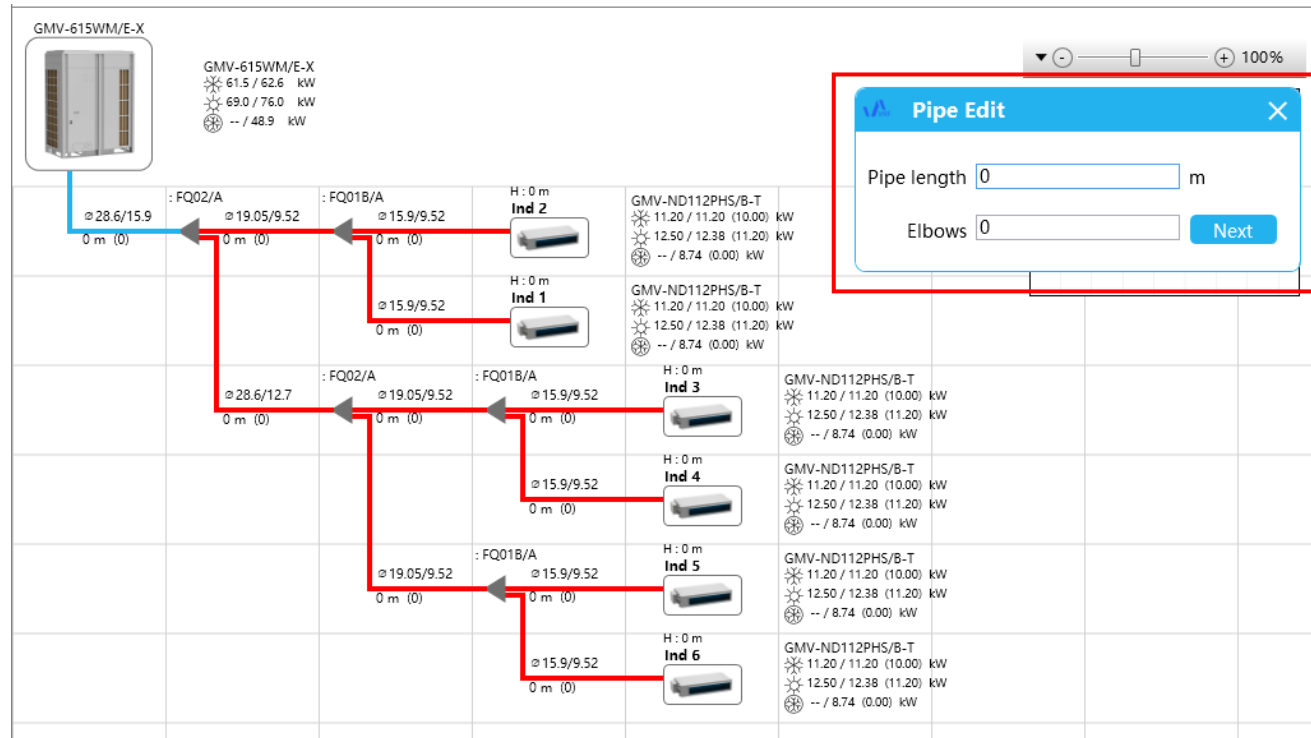
Piping process – Branch selection

After the indoor and outdoor sides are connected, the whole piping network will automatically conduct branch selection.



5. Piping

Piping process – Input pipe length and the number of elbows

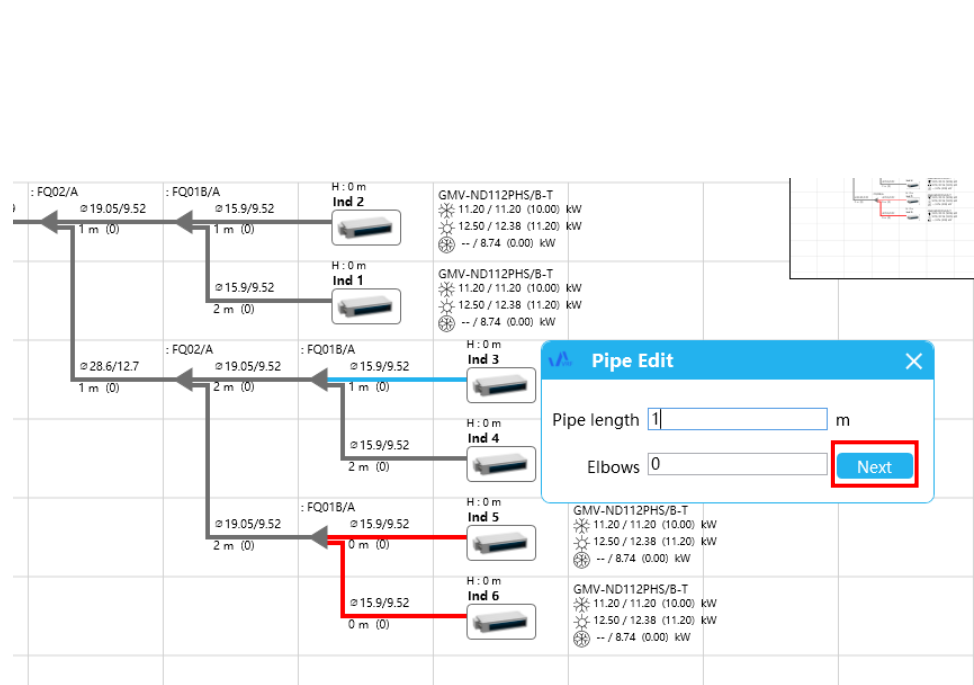


Move the cursor to any one pipeline. When the pipeline color is changed, double-click the mouse and then an edit window will pop up. Input pipe length and the number of elbows.

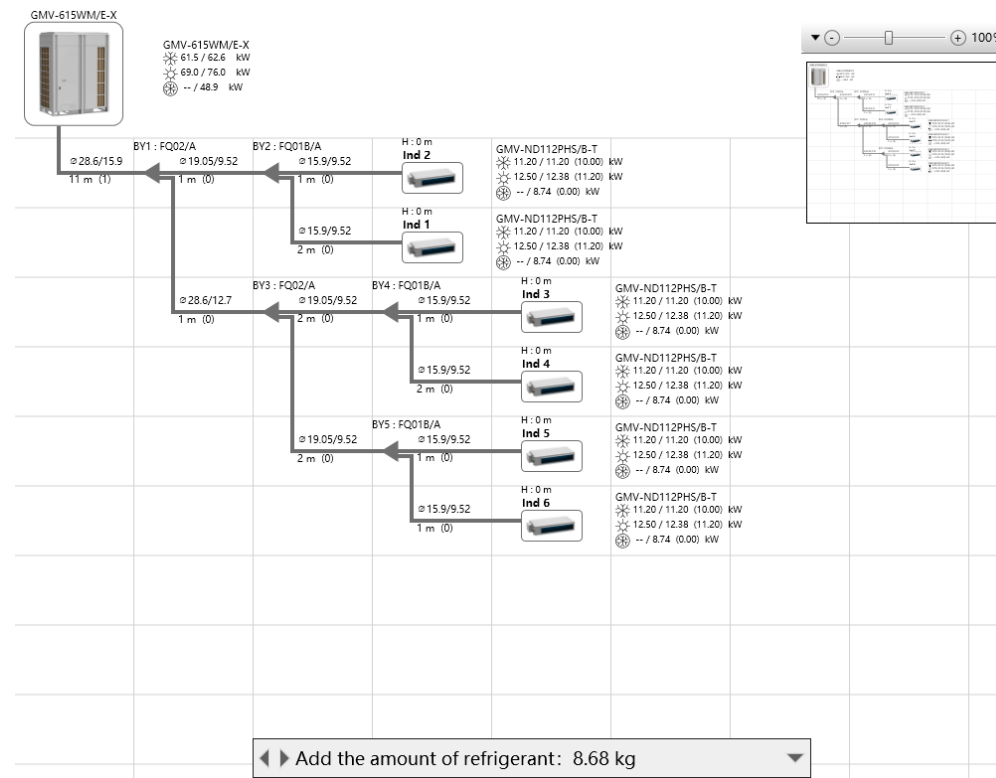
Press “↑”, “↓” on the keyboard to switch the input box.

5. Piping

Piping process – Input pipe length and the number of elbows



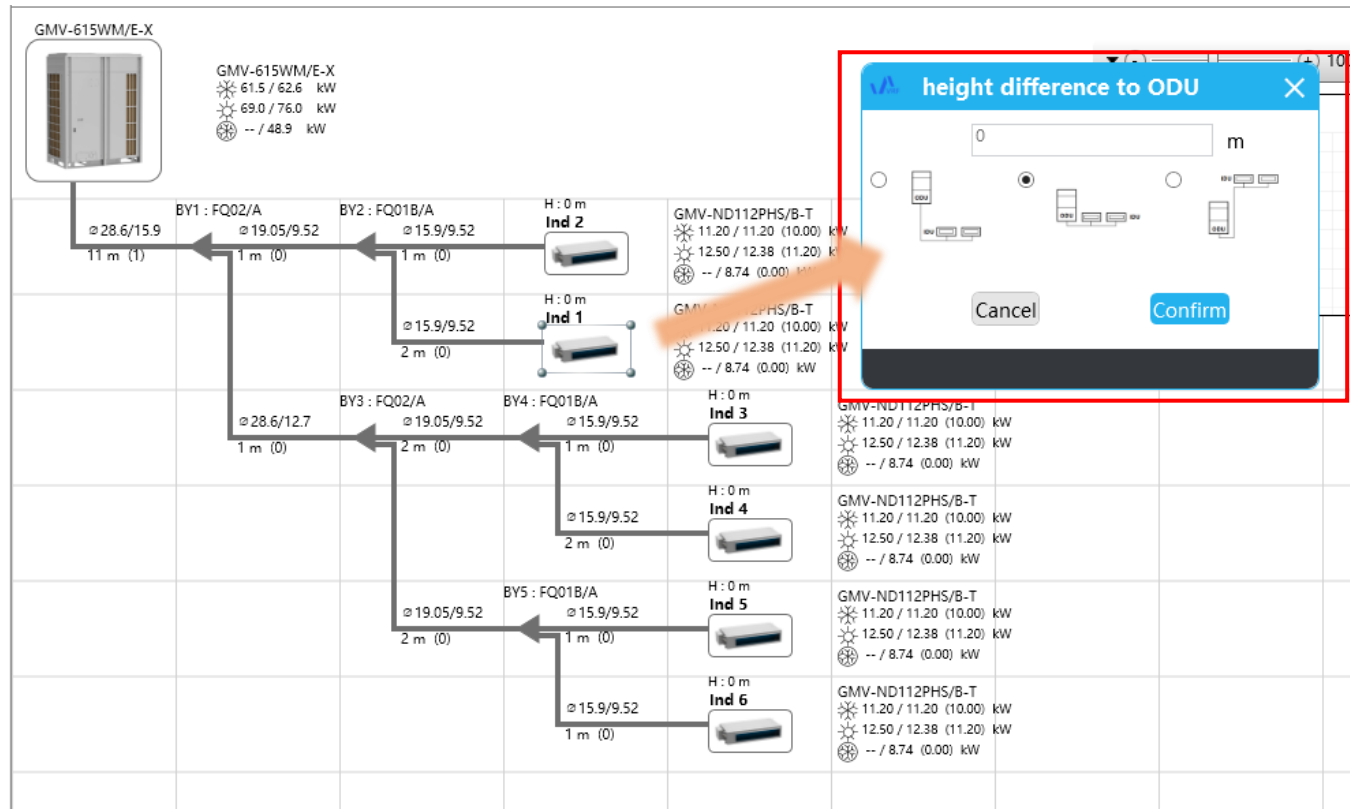
After entering the pipe length and the number of elbows, click “Next” or press the key “Enter” and it will automatically switch to the next pipeline whose length is 0.



This is the entire piping network after all the data is input.

5. Piping

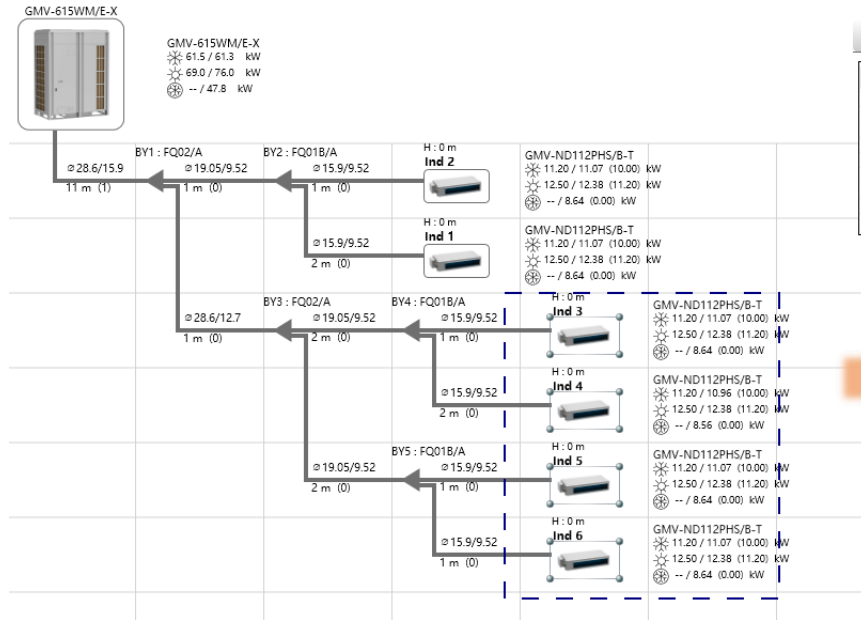
Height difference setting



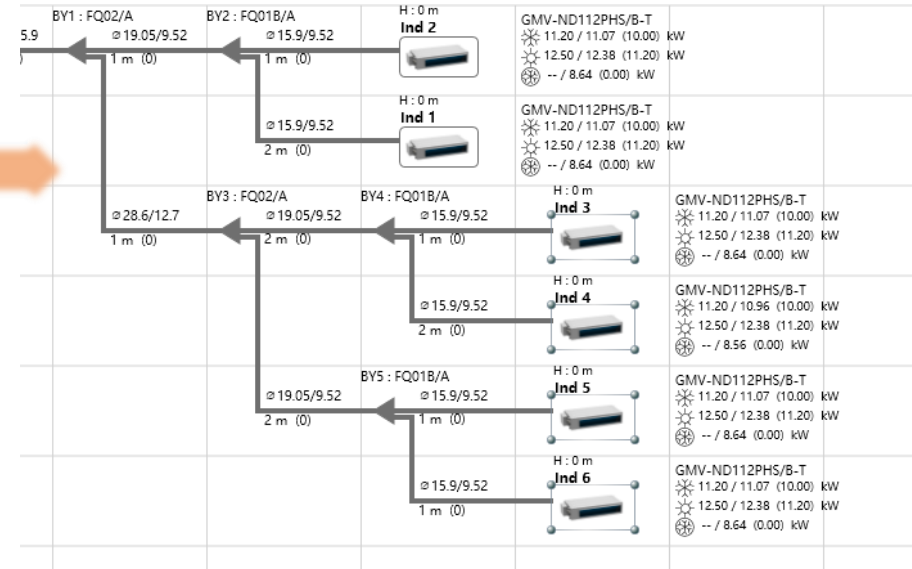
At the piping interface, double-click the picture of an IDU/heat storage module, a window of height difference setting will pop up.

5. Piping

Piping edit—Frame selection



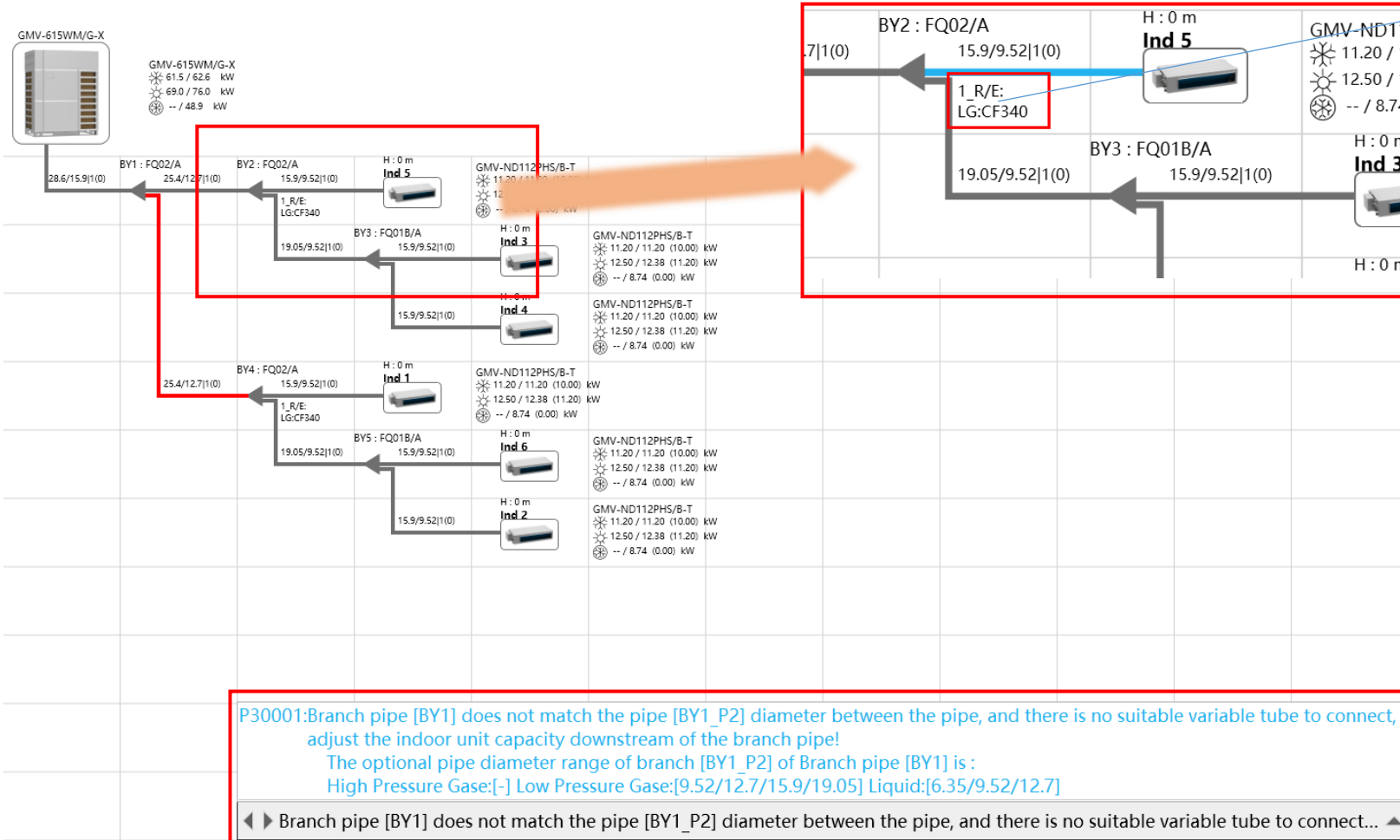
Selected devices will have four dots around.



Move the cursor to the blank space of the piping network, then click and hold the left mouse button to drag the cursor, which will create a dotted frame. Make sure the devices that require operation are within the frame. Then release the left mouse button.

5.Piping

Pipe connection process → R/E pipe selec



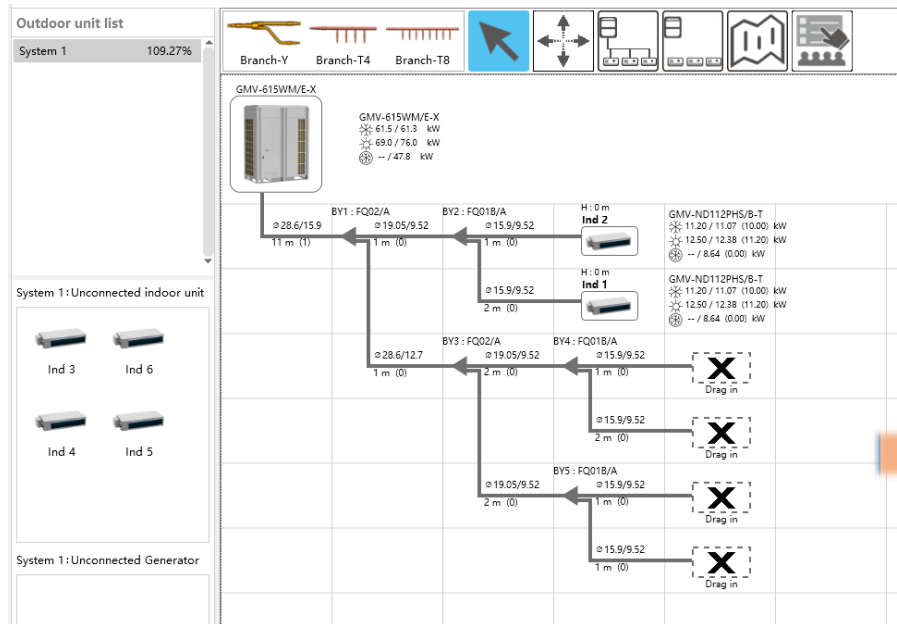
R/E pipe model

After selecting branch pipe models and the diameter of pipes, it will match the pipes with branches of the connected branch pipe:

- 1.When they can be matched directly, the branch will select the diameter whose diameter is same with the pipe;
- 2.When they can't be matched directly, the proper R/E pipe will automatically recommended for connection.
- 3.If there's no proper R/E pipe, the prompt will be displayed.

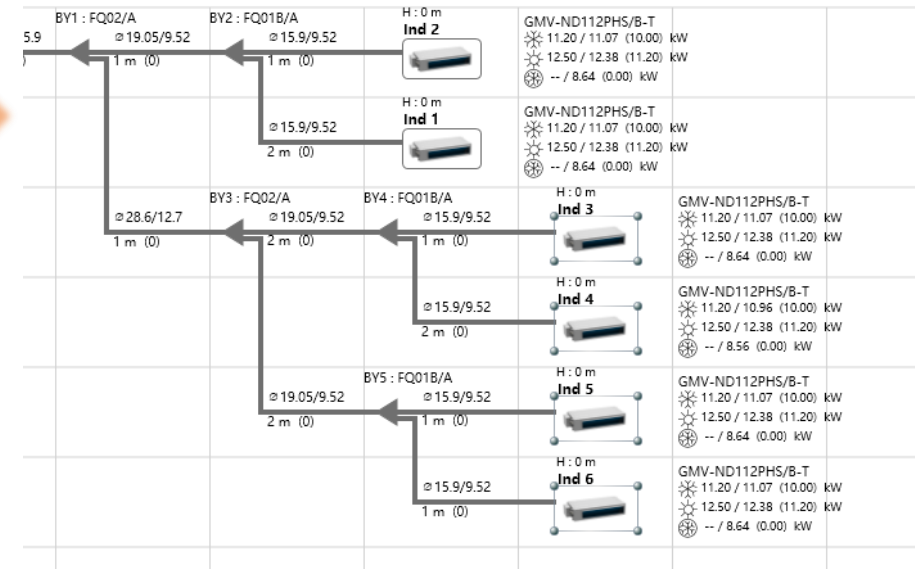
5. Piping

Piping edit—Delete



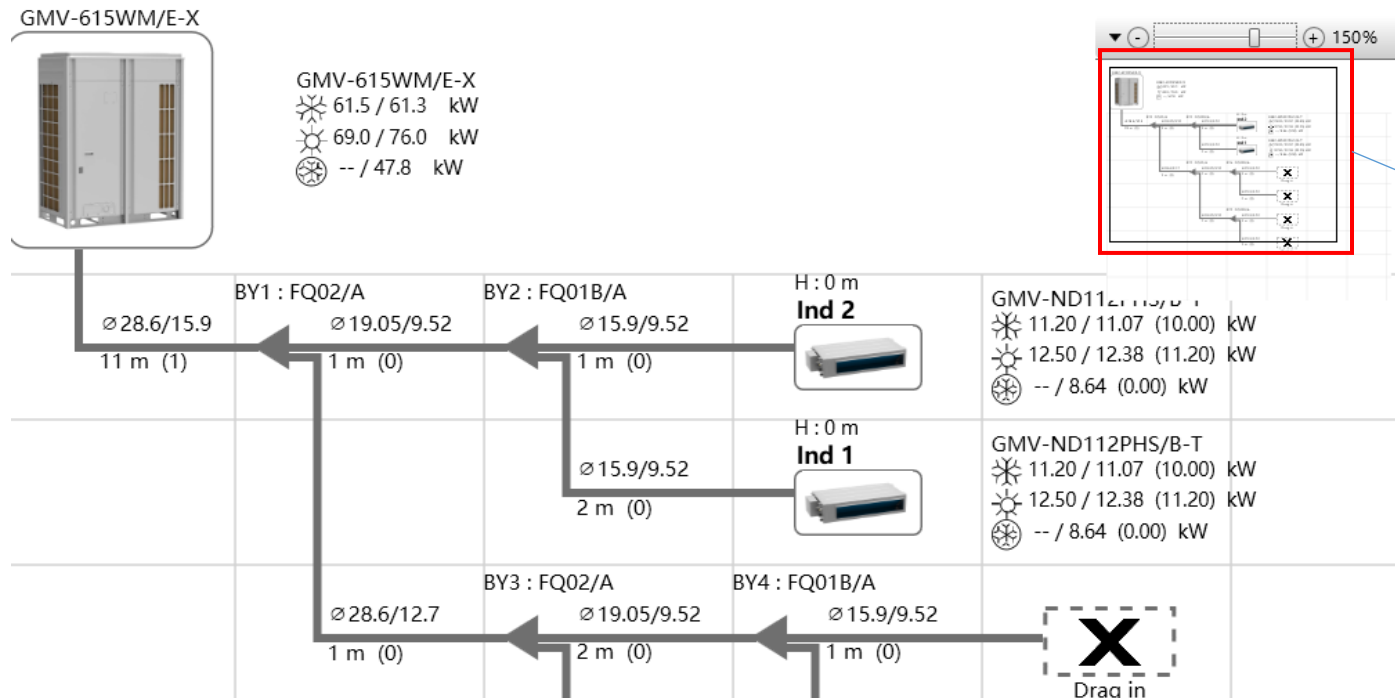
When devices are selected, whether through frame selection or a single click, press “Delete” on the keyboard.

This will delete devices that are selected in a frame. If indoor units are selected, they will be placed in the list of unconnected indoor units.



5. Piping

Piping edit—Zoom



If the whole piping network cannot be displayed, use the mouse to slide the box and view local area.

There is a reduced-size version of the piping network at the right corner of the piping interface. Move the slide to zoom in and out.

6. Wiring

Wiring interface

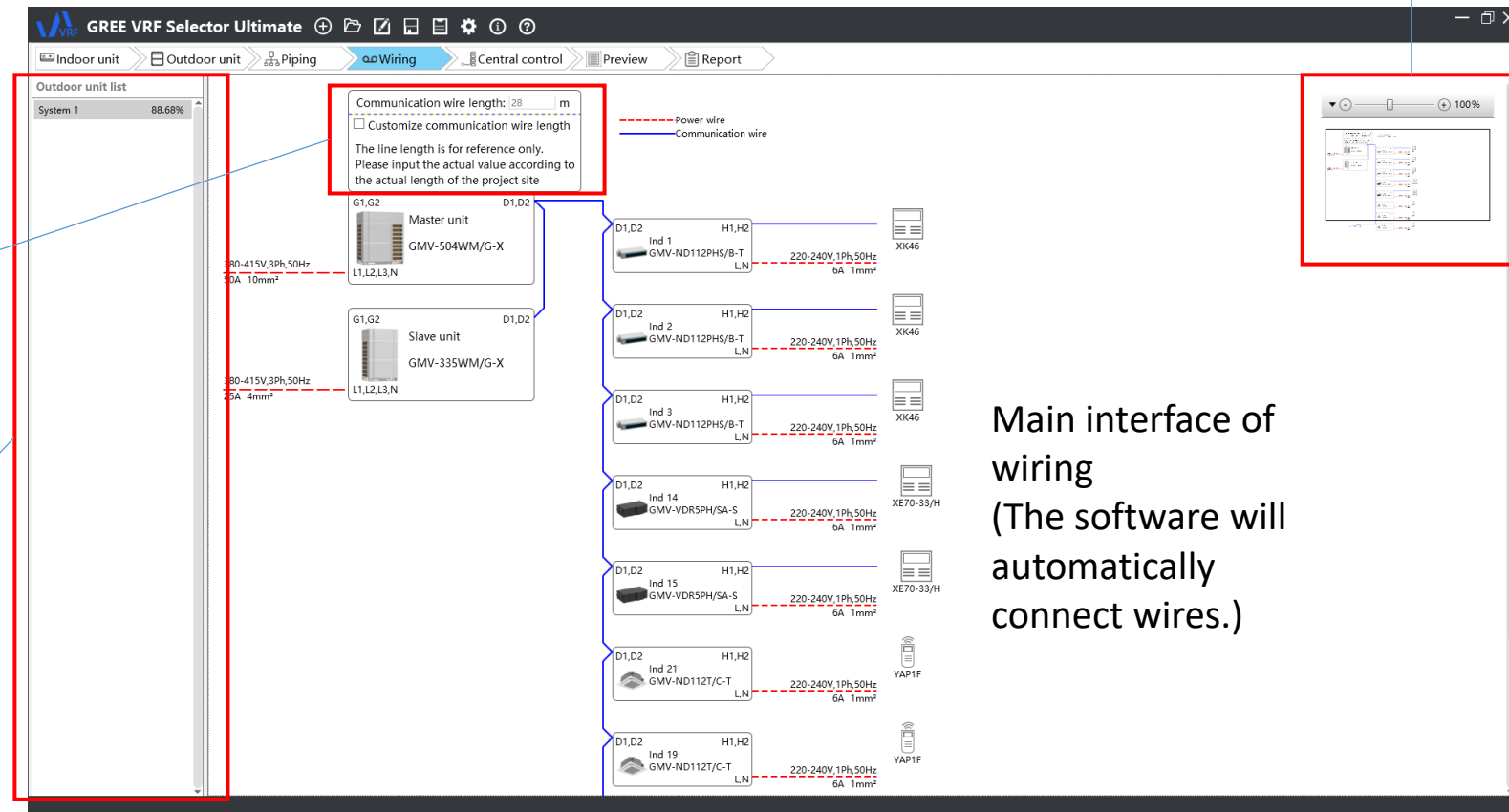
After pipe connection is done, click the navigation bar to enter the wiring interface.

General view

Customize communication wire length:

1. When it's not ticked, the suggested wire length is calculated automatically.
2. When it's ticked, please input the actual length of communication wire

System list

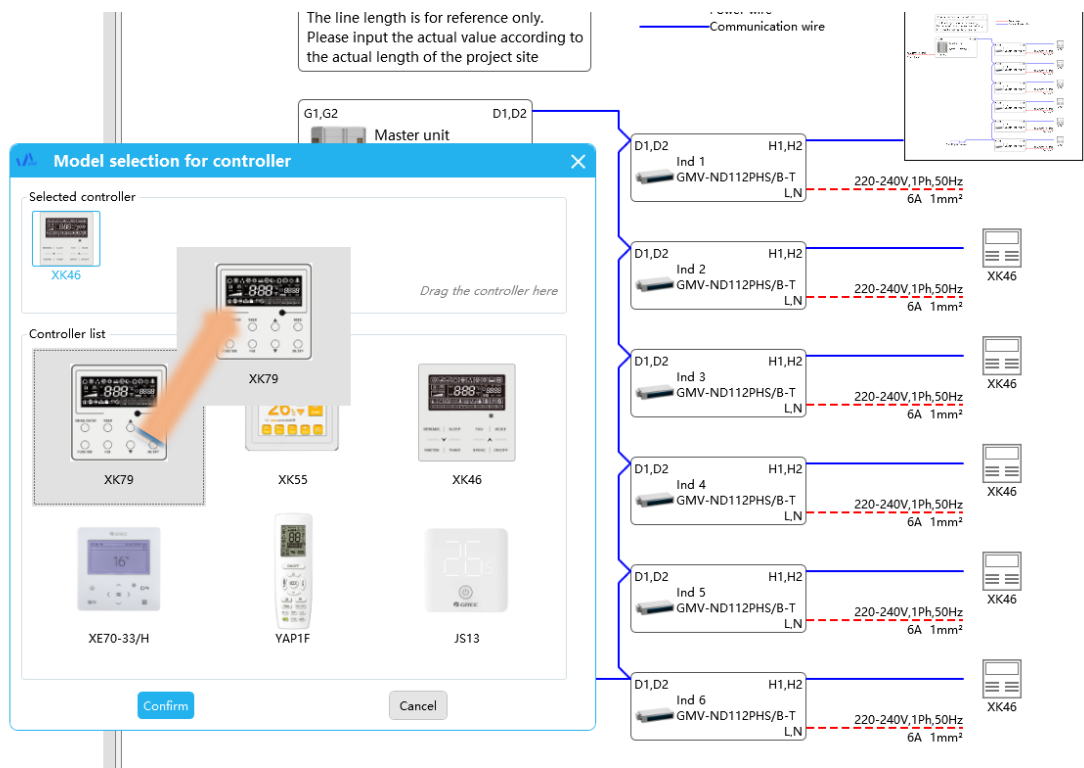


Main interface of wiring
(The software will automatically connect wires.)

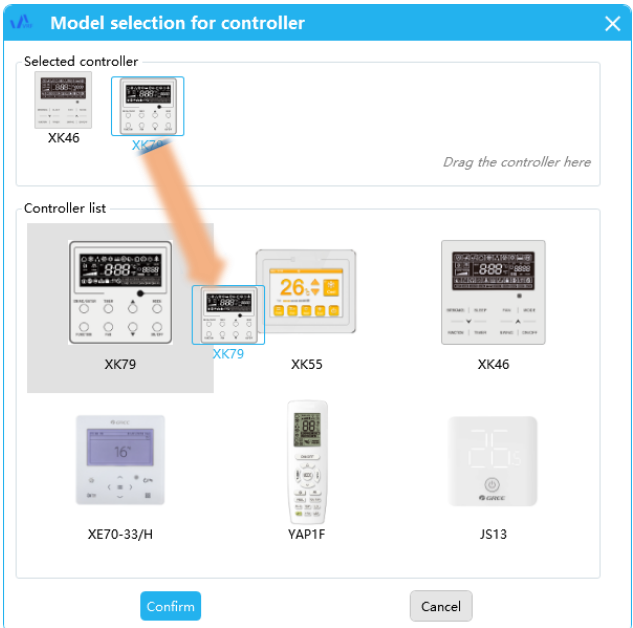
6. Wiring

Controller selection

Double-click the picture of IDU or controller, and a controller edit window will pop up.



Select the controller to be added and drag it to the box of selected controllers.

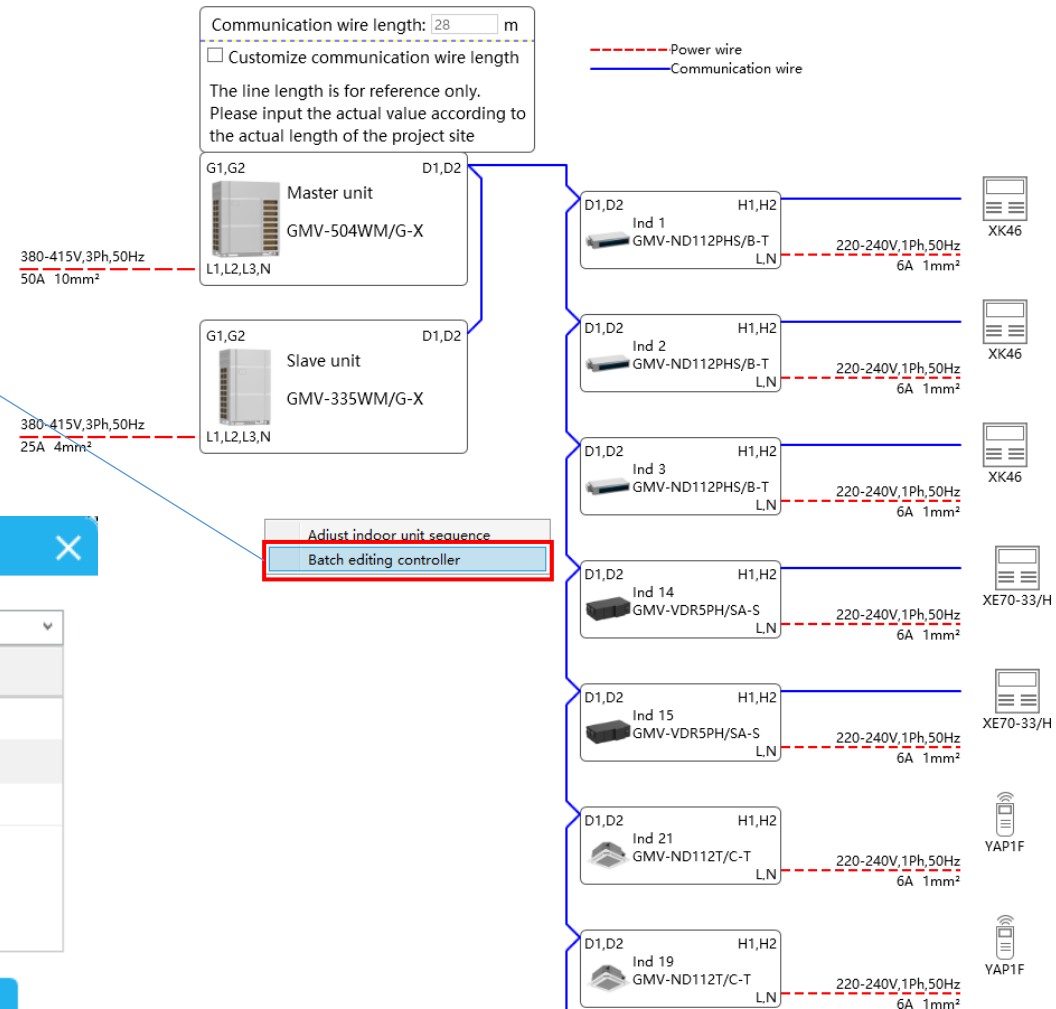
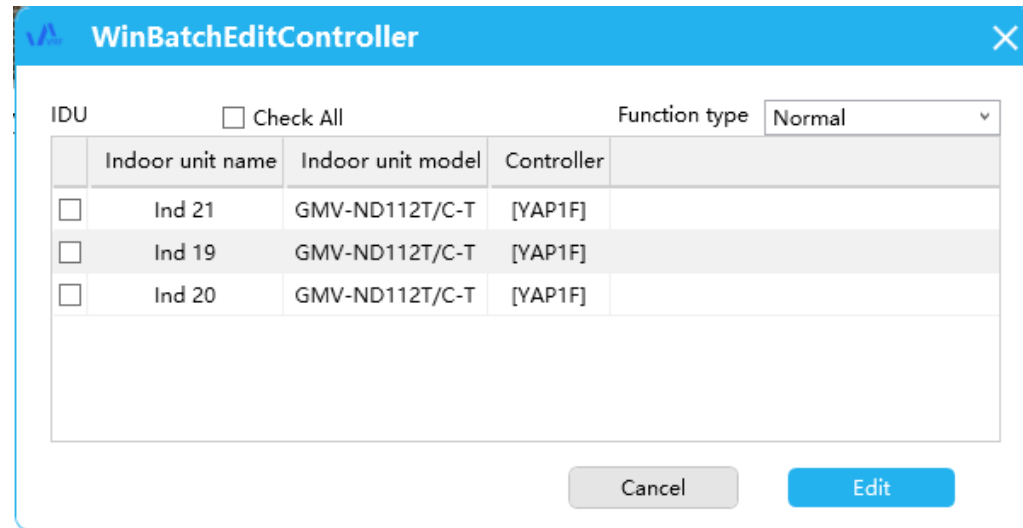


Click and drag a selected controller to the lower part and the controller is deleted.

6.Wiring

Batch edit controller→ Open the window

Right-click the page of wiring, click the second menu and open the window of batch edit controller



6.Wiring

Batch edit controller→ interface introduction

Select all indoor units

Select all indoor units
whose controllers
should be changed

WinBatchEditController

☒ Check All

Function type: Normal

IDU	Indoor unit name	Indoor unit model	Controller
<input checked="" type="checkbox"/>	Ind 21	GMV-ND112T/C-T	[YAP1F]
<input checked="" type="checkbox"/>	Ind 19	GMV-ND112T/C-T	[YAP1F]
<input checked="" type="checkbox"/>	Ind 20	GMV-ND112T/C-T	[YAP1F]

Cancel Edit

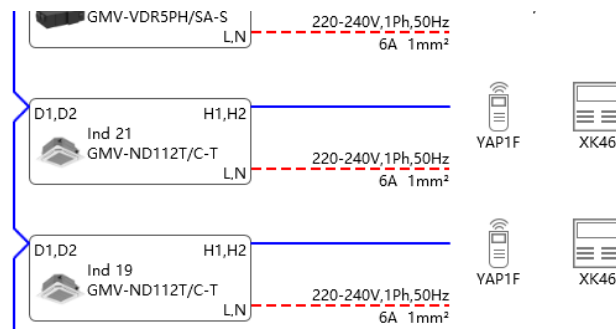
The drop-down box is for
the controller type:

- 1.Normal
- 2.Duct
- 3.ERV
- 4.LSP_C1

Click “Edit” and then the controller
selection window will pop up by
taking the first selected indoor unit
as the template

When the controller is changed, the
proposal for the controller will be
updated to all selected indoor units

When clicking cancel or closing the window, the batch edited
proposal will be refreshed to the wiring page.



WinBatchEditController

☒ Check All

Function type: Normal

IDU	Indoor unit name	Indoor unit model	Controller
<input checked="" type="checkbox"/>	Ind 21	GMV-ND112T/C-T	[YAP1F][XK46]
<input checked="" type="checkbox"/>	Ind 19	GMV-ND112T/C-T	[YAP1F][XK46]
<input checked="" type="checkbox"/>	Ind 20	GMV-ND112T/C-T	[YAP1F][XK46]

Cancel Edit

7. Selection of central control

Interface of central controller selection

Global control wiring

Add a group

Central controller list

Display area of central controllers in groups

Outdoor unit list

System 1
IDU:8

Central Controller

CE53-24/F(C)(obsoleted)
00:00
Max.System: 16, Max.IDU: 32

CE54-24/F(C)
Max.System: 16, Max.IDU: 32

CE52-24/F(C)
09:20
Max.System: 16, Max.IDU: 255

Group1

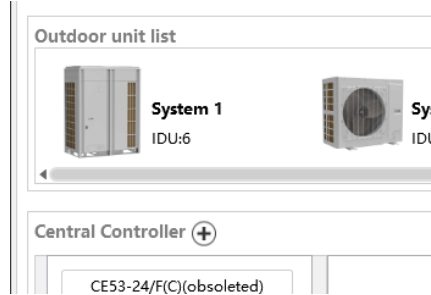
Connect external machine system

Drag in Controller

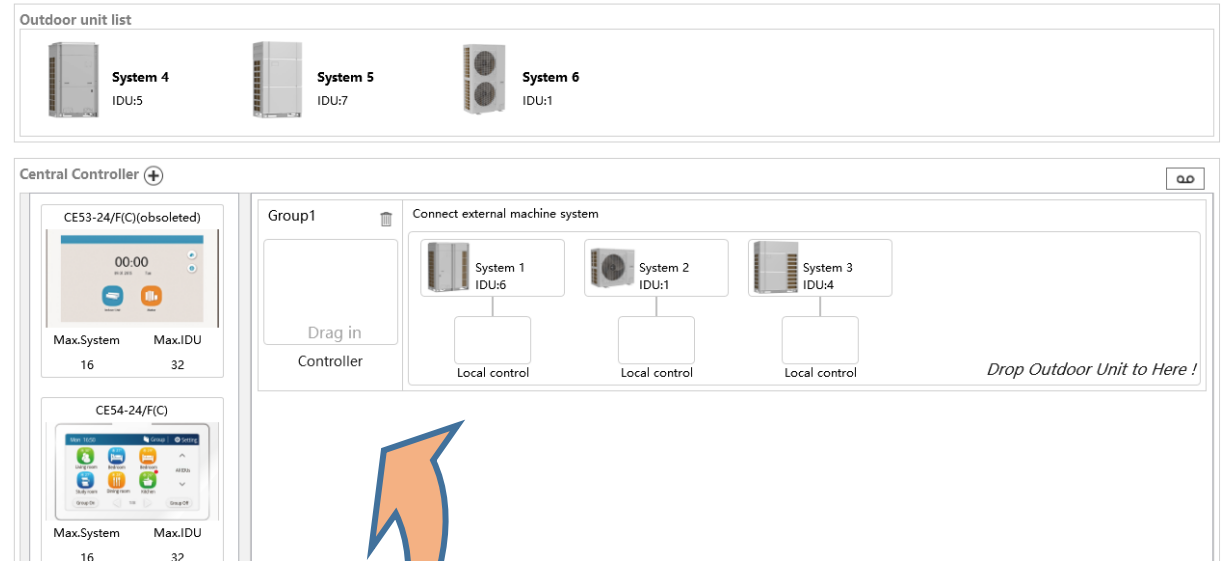
Drop Outdoor Unit to Here !

7. Selection of central control

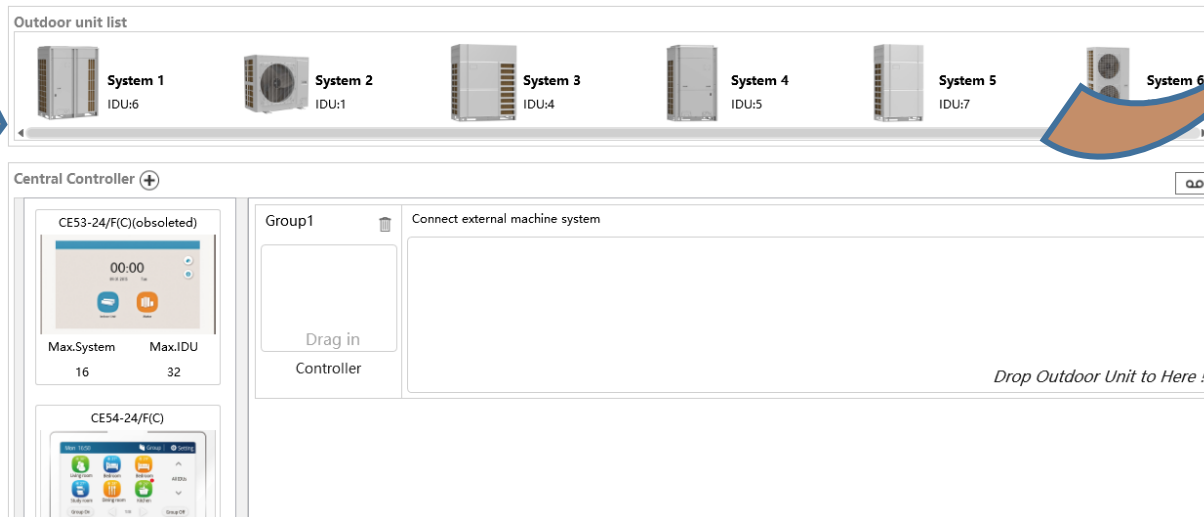
Add a group



Click the button of group adding, and then a new group will appear at the group display area.



Drag the ODU system to the box of ODU connection.



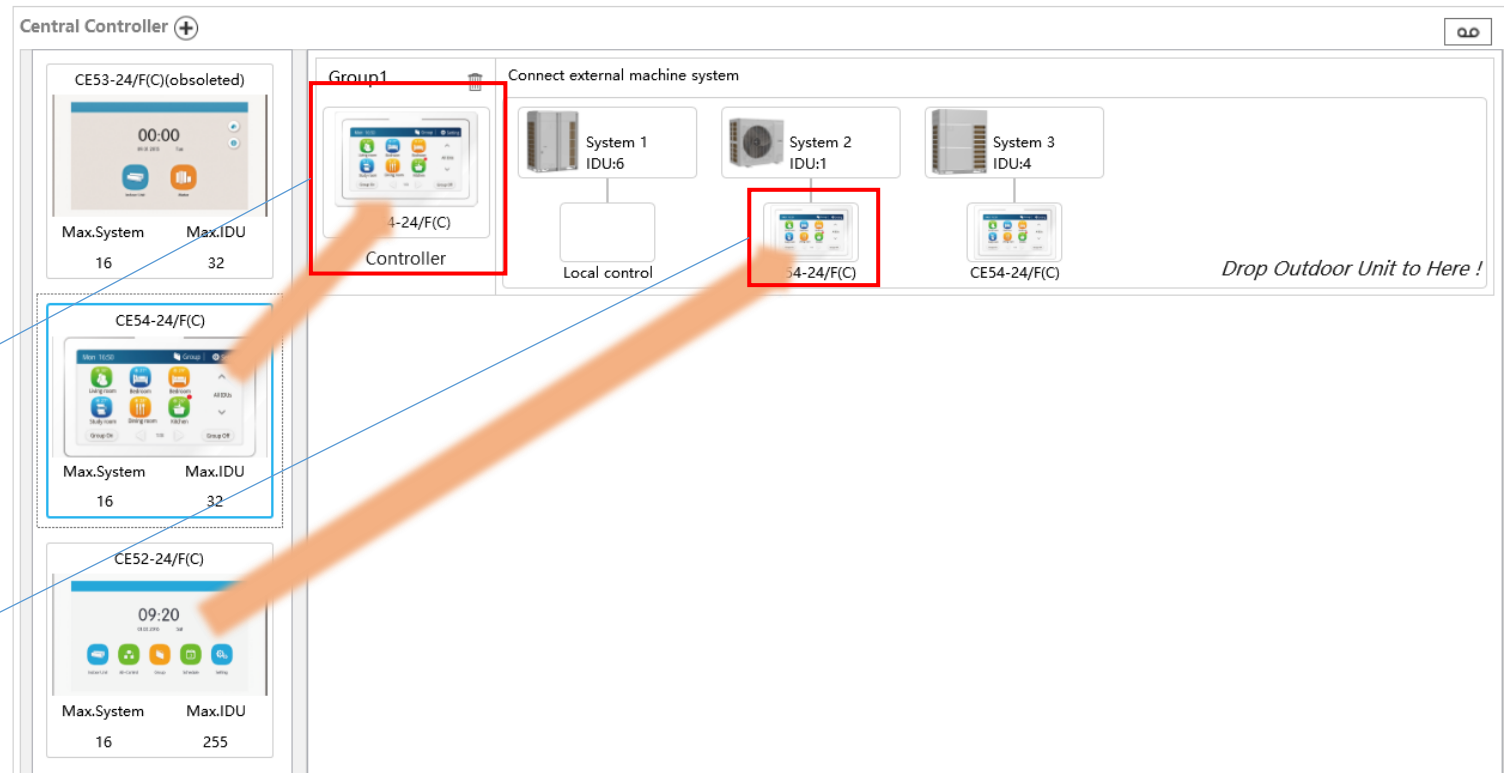
7. Selection of central control

Add central controllers

Central controllers can be dragged to two positions.

Global controller
(Control all the systems within the group.)

Local controller
(Control a single system.)

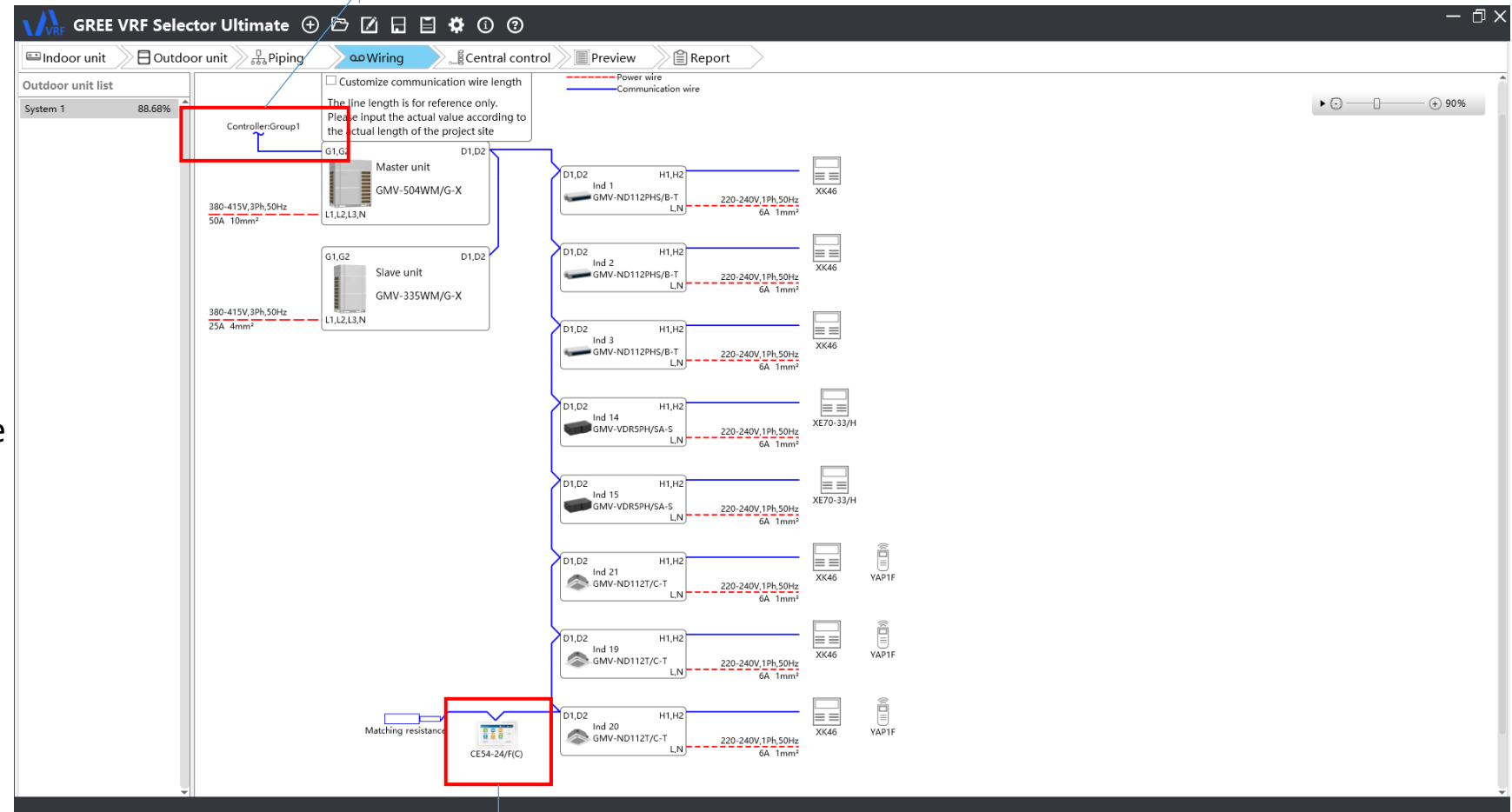


7. Selection of central control

Wiring change

Global central controller

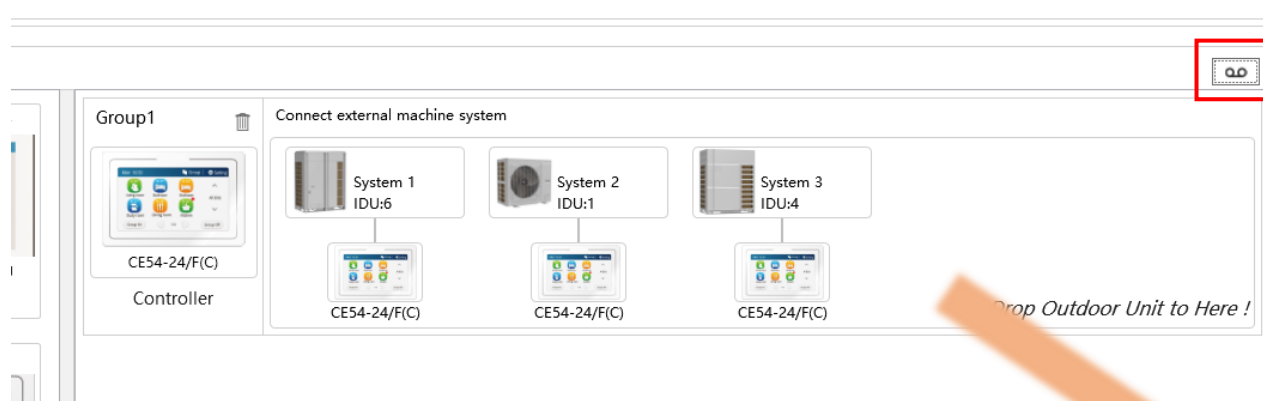
After selecting the central controllers, switch to the wiring interface at the navigation bar. The software will automatically connect the wires of central controllers in the systems.



Local central controller

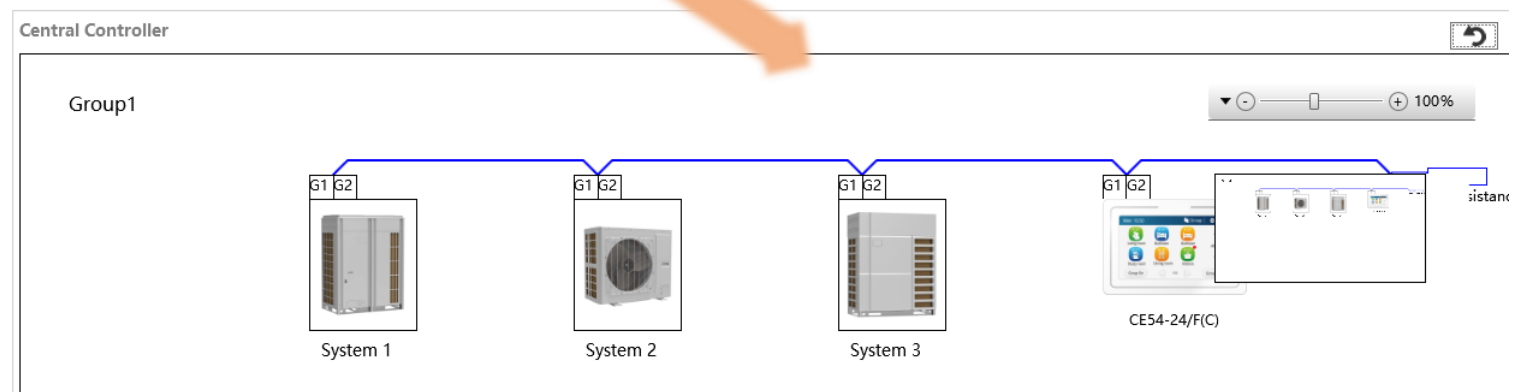
7. Selection of central control

Wiring of global central control



At the interface of central control selection, click this wiring button.

The wiring of global central control is displayed.

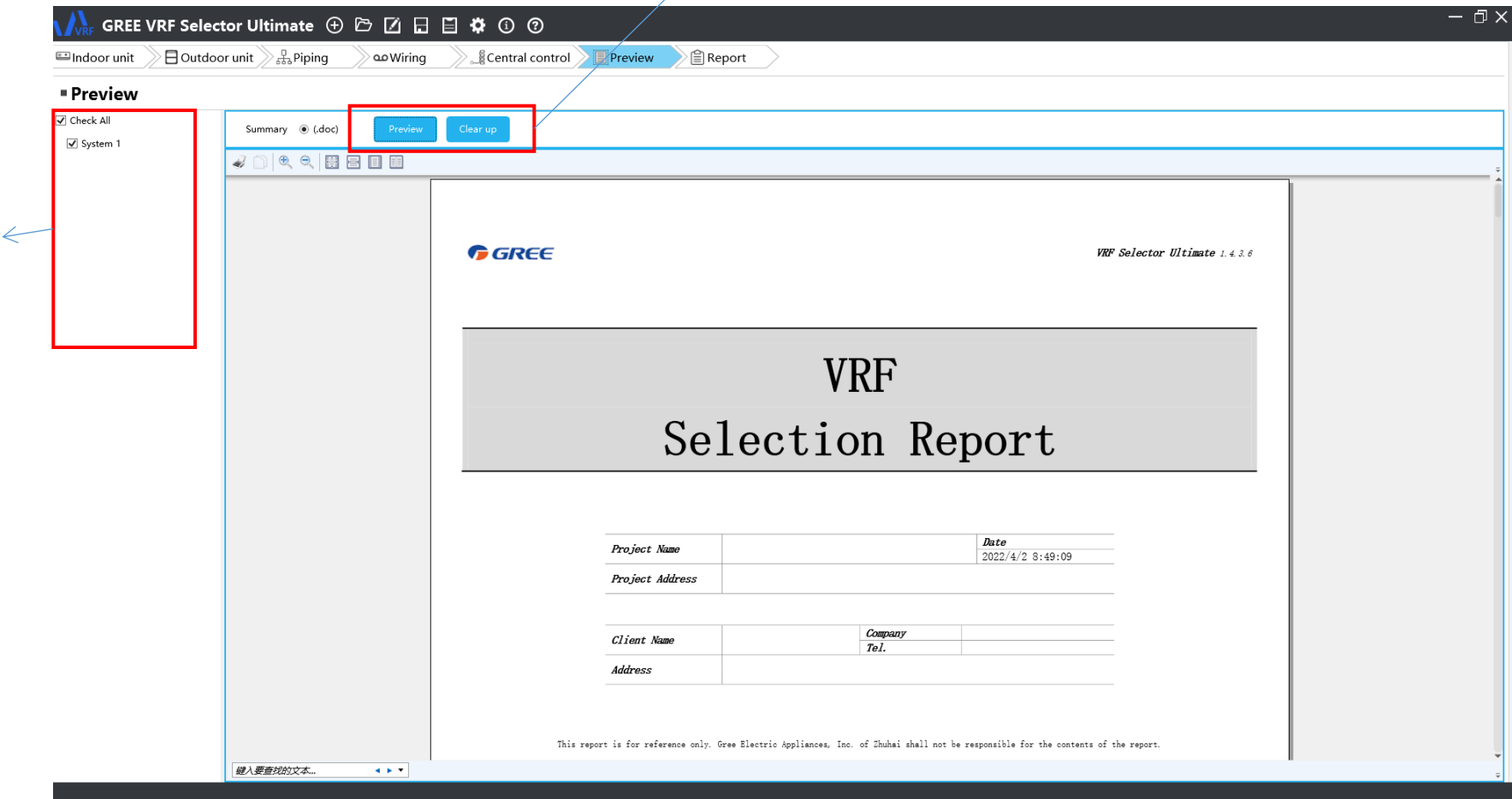


8.Report

Report preview

Click “Preview” to display the report
Click “Clear” to eliminate the report preview

System list
(Select the system whose report preview is needed)



8. Report

Interface of report

System list
(Select the system that
needs report export.)

Select piping
and wiring
diagrams.

Export Submittal
(This function is only for
North American market at
present)

Report

☐ Check All

☐ System 1

Path

Name

Report forms information

Summary ☐ (.doc) ☐ (.xls)

Parameter ☐ (.doc) ☐ (.xls)

CAD ☐ (.dwg)

Picture Output

Piping Image ☐ (.jpg)

Wiring Image ☐ (.jpg)

Export Submittal

Submittal ☐ (.pdf)

Select the export path.


Enter the name of export
document.

Select documents:

- 1.Summary
- 2.Table of parameters
- 3.CAD engineering diagrams

8. Report

System report, table of parameters, piping diagram, wiring diagram



VRF Selection Estimate (1/18)

VRF

Selection Report

Project Name

Date

Project Address

202/011 16-08-38

Client Name

Company

Address

Tel.

Table Of Contents

1. Abbreviations

2. Project Proposal

2.1 Units

2.2 Branch

13	Rtd CC	Rated Cooling Capacity	33	Vertical Dist	Fall with ODU
14	Act CC	Actual Cooling Capacity	34	Design ESP	Design Static Pressure
15	Rtd HC	Rated Heating Capacity	35	Design Airflow	Design Airflow Volume
16	Act HC	Actual Heating Capacity	36	CC Range	Range of Cooling Capacity
17	Rtd PLC	Rated Input Power for Cooling	37	HC Range	Range of Heating Capacity
18	Act PLC	Actual Input Power for Cooling	38	AEVR II	Allowable Heat Exchanger Volume Range
19	Rtd PSH	Rated Input Power for Heating	39	Air Flow Range	Suggested Airflow Range
20	Act PSH	Actual Input Power for Heating			

ONLY STEP W/ L A S

ONLY HEAT

NRQD16GA-S

Generator

SXTVD105CJ2-A-K

Water Tank

2.2 Branch

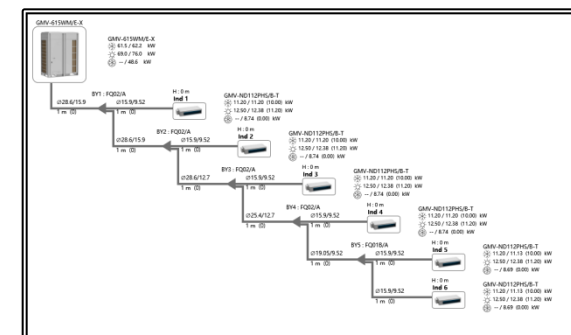
No.	Model	Description	Quantity	Unit Price	Total Price	Remark
1	FQ01B-A	Branch-Y	2			
2	FQ02A	Branch-Y	6			
3	ML01R	Branch-Y	2			
4	FQ03Nu-A	Branch-Y	2			
5	FQ04Nu-A	Branch-Y	7			
6	FQ05Nu-A	Branch-Y	1			
7	FQ01A-A	Branch-Y	1			

2.3 Controller

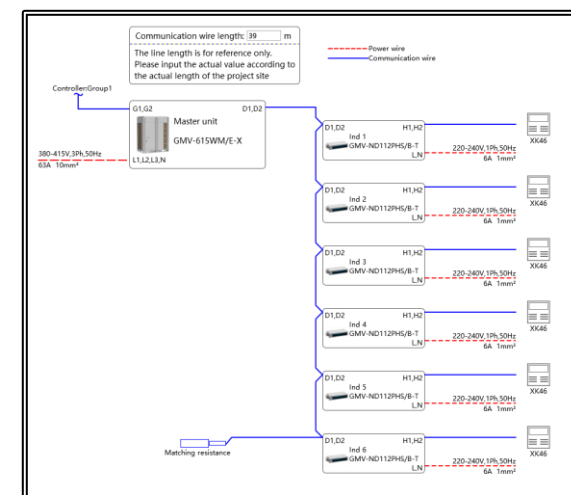
No.	Model	Description	Quantity	Unit Price	Total Price	Remark
1	NR06	Wired Controller	24			

System 1_IDU_Specifications					
Item	Value	Unit			
Model	GMV-ND112PHS/B-T	-			
Series name		-			
Model designation		-			
Noise (sound pressure level) (high)	40	dB(A)			
Noise (sound pressure level) (medium)	38	dB(A)			
Noise (sound pressure level) (low)	36	dB(A)			
Rated voltage	220-240	V			
Rated frequency	50	Hz			
Phase	1	-			
Power cable (core)	3	N			
Circuit breaker capacity	6	A			
MOP	/	A			
MCA	/	A			
Consumed power	/	kW			
Refrigerant type	R410A	-			
Standard controller	XX46	-			
Optional controller	YAP1F/YV1L1/XX86/XX79	-			
Connection method	Flare Connection	-			
IDU loading quantity (40°)	84	unit			

of parameters



Piping diagram

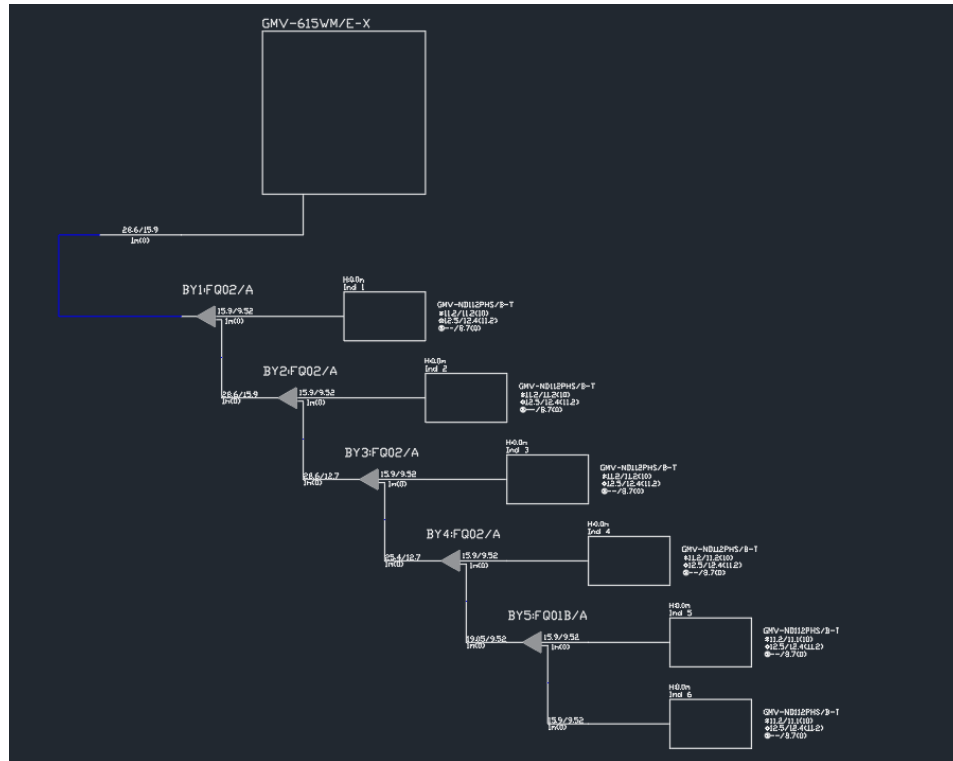


Wiring diagram

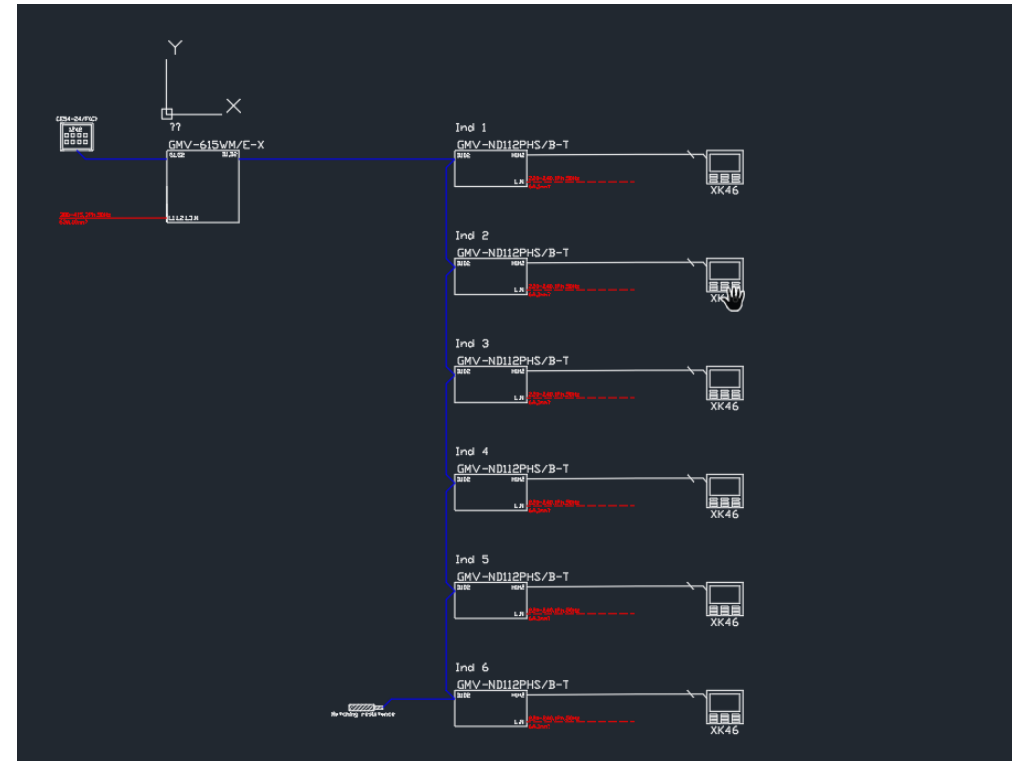
System report

8. Report

CAD engineering diagrams



Piping engineering
diagram



Wiring engineering
drawing

8. Report

Submittal report

(This function is only for North American market at present)

B:\Desktop\Submittal_testtest001.zip

名称	类型	压缩大小
System 1	文件夹	
System 2	文件夹	
System 3	文件夹	
System 4	文件夹	


Expot format

GMV SUBMITTAL

GREE COMMERCIAL

208~230V Wall-Mounted-A3

Model:GMV-N12G/A3A-D(U)



Specifications	Unit	Parameter
Model		
GMV-N12G/A3A-D(U)		
Performance		
Rated Cooling Capacity	kBtu/h	12
Rated Heating Capacity	kBtu/h	13.5
Sound Pressure Level	dB(A)	38/41/44
Electrical Data		
Power Supply	Voltage, Phase, Hertz	208/230, 1, 60
Maximum Overcurrent Protection (MOP)	A	15
Minimum Circuit Amps (MCA)	A	1
Fan		
Type x Quantity	—	Cross-flow x1
Air Flow Volume	CFM	282/324/370
Fan Motor Running Current	A	0.21
Fan Motor Power Output	W	20
Refrigerant Piping		
Connection Pipe	Gas (mm/inch)	Φ12.7/1/2
	Liquid (mm/inch)	Φ6.35/Φ 1/4
Connection method	—	Flare Connection
Refrigerant	—	R410A
Dimension/Weight		
Dimensions (H×W×D)	mm/inch	298×940×200 (11-3/4×37×7-7/8)
Net Weight	kg/lbs	12.5/27.6
Other		
Safety Certification	—	ETL

Job Name:

Date:

System Reference No.:

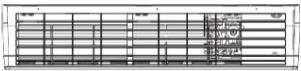
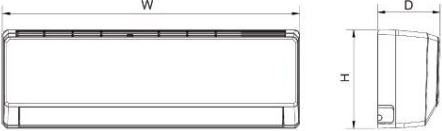
Engineer Signature:

Specifications subject to change without prior notice. © Gree Electric Appliances, Inc. of Zhuhai

GMV SUBMITTAL

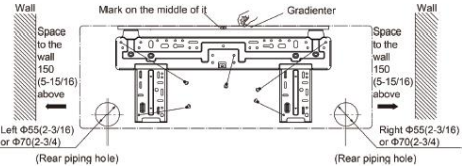
GREE COMMERCIAL

Outline and Physical Dimensions of GMV-N12G/A3A-D(U).



Item	W	H	D
Model			
GMV-N12G/A3A-D(U)	940(37)	298(11-3/4)	200(7-7/8)

The Installation of the Rear Panel



Unit:mm(in.)

R410A

INVERTER

ETL

AHRI CERTIFIED

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GREE COMMERCIAL

Submittal