

RoofTop Selector 帮助文档

Ver. 1.0

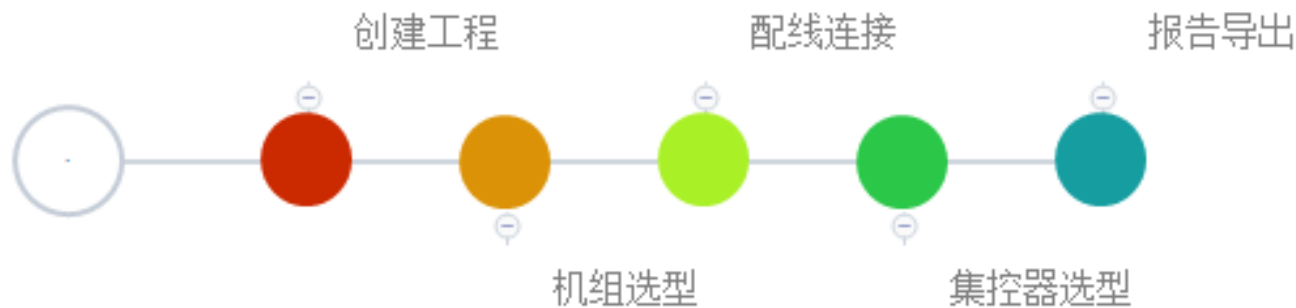
2023/9/25

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一、概述

格力新一代选型软件，经过对市场全面的调研分析，并结合多年的选型经验，深入钻研多联产品选型逻辑之间的关系，针对客户的痛点，全面优化选型流程，使其可以适用于不同的客户群体，便捷的操作中体现出专业选型的严谨，让客户每一次选型，都成为一次愉快的“旅行”。



二、选型

1.软件主界面

软件主窗体主要分为三个部分。

- 1、系统工具栏（包括工程的新建，保存，编辑以及系统级的设置）
- 2、主窗体页（软件内容的展示区域）
- 3、消息提示栏（显示系统消息提示）

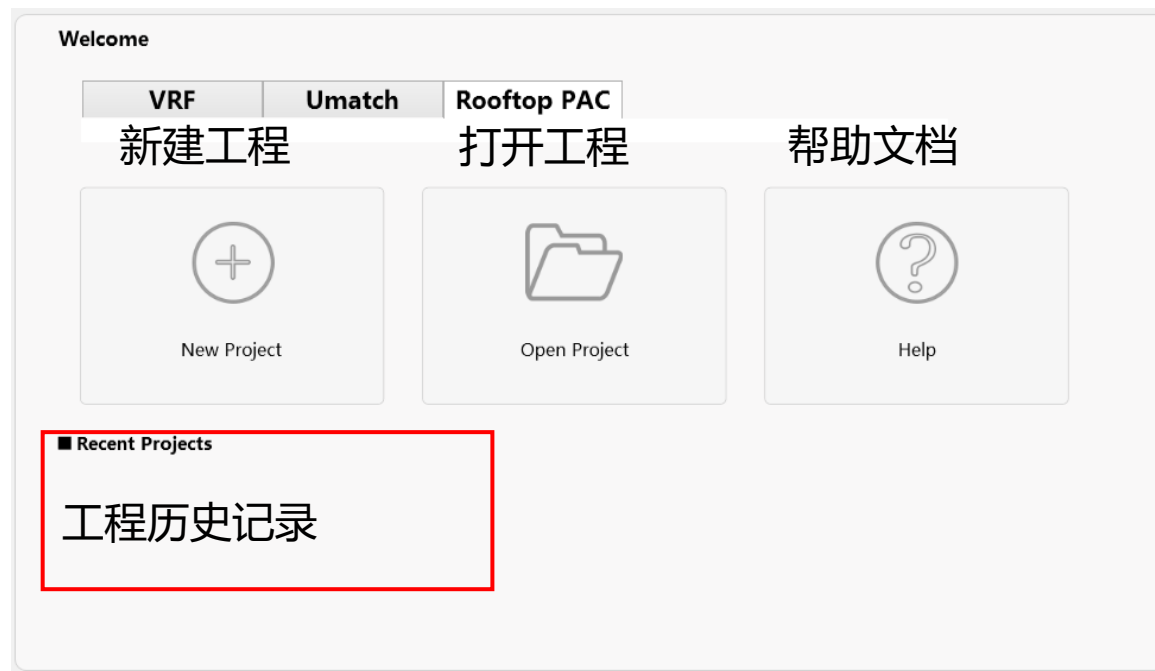
主窗体页

消息提示栏



1.1 欢迎界面

启动软件后，在主窗体中显示的是欢迎界面

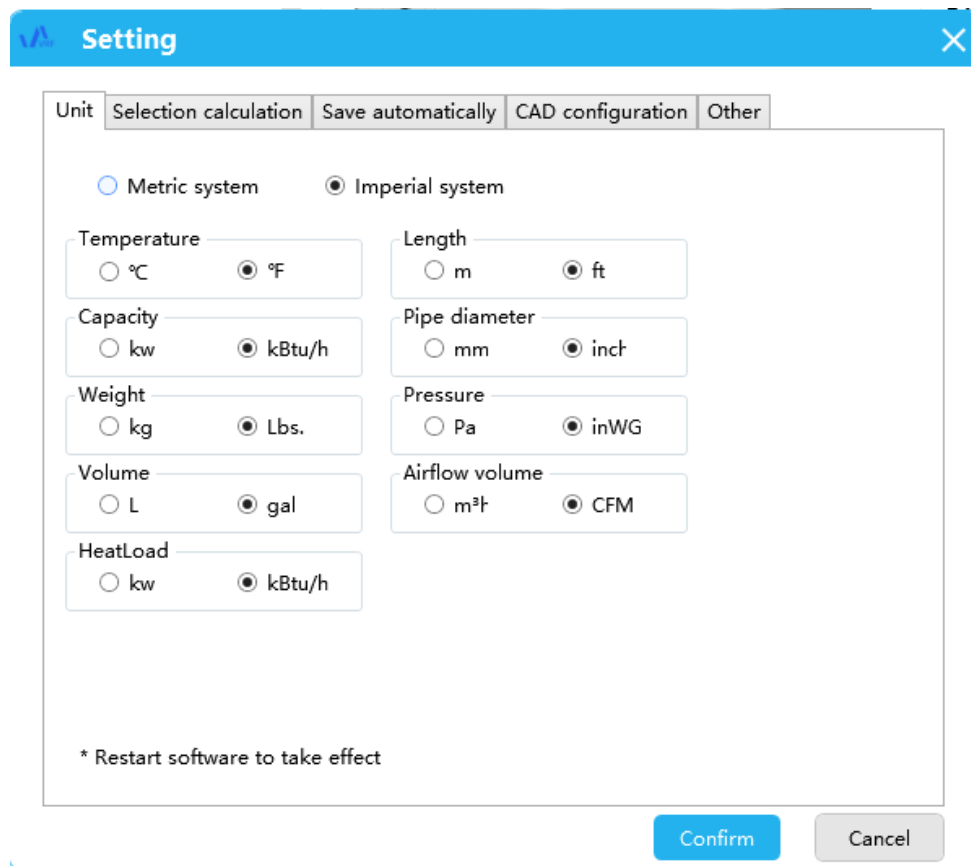


1.2 系统工具栏



1.3设置

1、单位设置（设置选型过程中运算的单位）



The image shows a 'Setting' dialog box with a blue header bar containing a logo and a close button. Below the header is a tabbed interface with five tabs: 'Unit' (selected), 'Selection calculation', 'Save automatically', 'CAD configuration', and 'Other'. The 'Unit' tab contains two main options: 'Metric system' (unselected) and 'Imperial system' (selected). Below these are several unit selection groups, each with two radio buttons. The groups are: Temperature (°C, °F), Length (m, ft), Capacity (kw, kBtu/h), Pipe diameter (mm, inch), Weight (kg, Lbs.), Pressure (Pa, inWG), Volume (L, gal), and Airflow volume (m³/h, CFM). A note at the bottom states '* Restart software to take effect'. At the bottom right are 'Confirm' and 'Cancel' buttons.

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 ☒ inch

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设置

2.选型计算（自动调整方式、允许误差、修正系数）

默认选型过程中
内外机同时调整

Setting

Unit Selection calculation Save automatically CAD configuration Other

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%

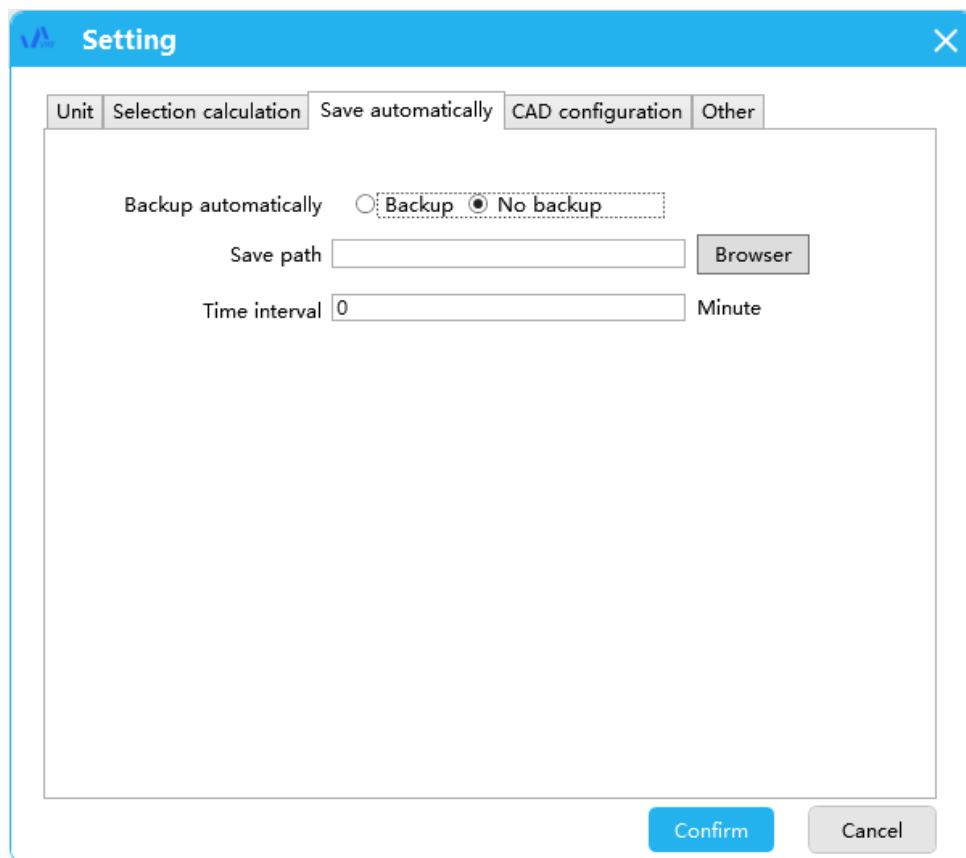
Select the modification item of the actual capacity of the unit ⓘ

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

Confirm Cancel

1.3设置

3.自动保存设置 (设定自定保存的路径、周期)



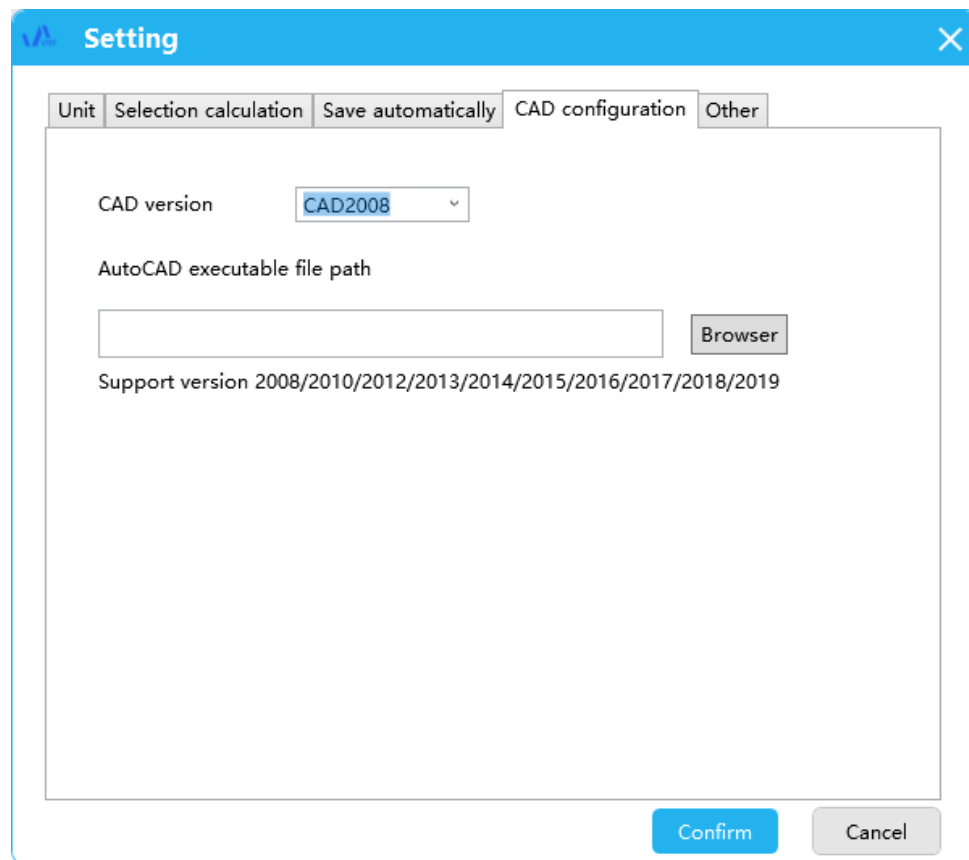
The image shows a software settings window titled "Setting" with a close button (X) in the top right corner. The window contains five tabs: "Unit", "Selection calculation", "Save automatically", "CAD configuration", and "Other". The "Save automatically" tab is currently selected. Inside this tab, there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

- Backup automatically:** This section contains 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:** This is a text input field. To its right is a button labeled "Browser".
- Time interval:** This is a text input field containing the number "0". To its right is the label "Minute".

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

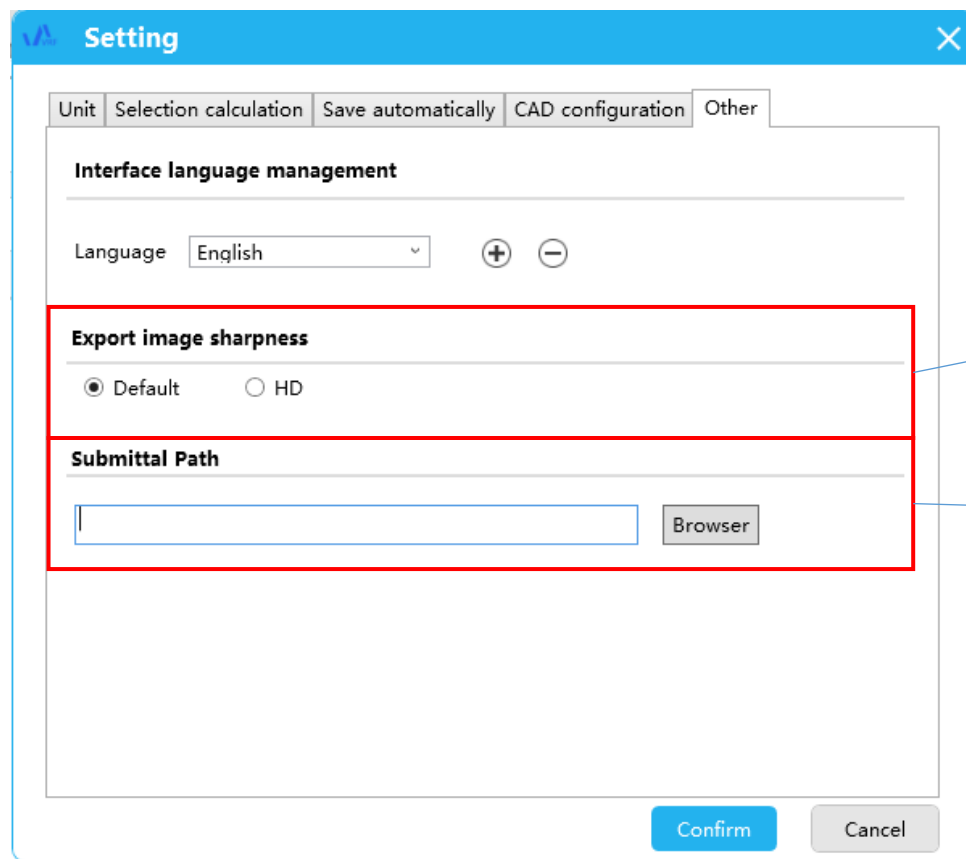
1.3设置

4.AutoCAD设置 (AutoCAD版本、启动程序路径)



1.3设置

5.其他设置（增删语言、高清图像、submittal）



高清图像导出设置

Submittal资源路径设置
(此功能暂开放北美区域)

2.工程建立

点击工具栏新建工程或者欢迎界面新建工程按钮，打开新建工程窗体

Project information

Project information

Area: North America 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

工程信息录入：

可以选择不同的区域，做到区域数据定制化

可以选择不同的电源规格

客户基本信息录入

设计者基本信息录入

信息录入完毕后，点击确认，进入机组选型界面

2.工程建立

附：选择北美地区后，点击确定时，可选择是否跳转，进入“超低温选型软件”

The image shows a software window titled "Project information" with a close button (X) in the top right corner. The window contains several sections of input fields:

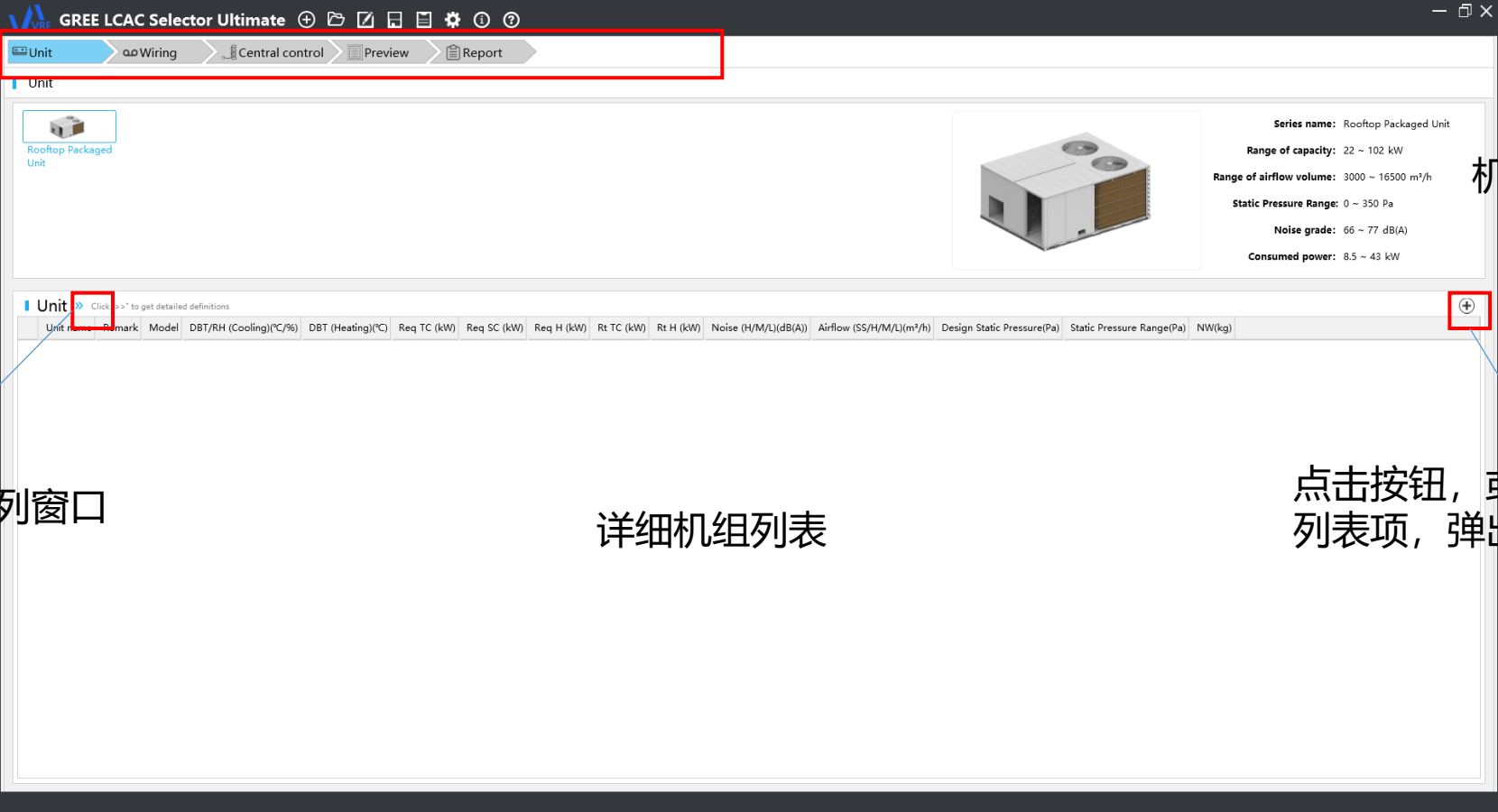
- Project information:** Includes a dropdown menu for "Area" (currently set to "North America"), a "Frequency" section with radio buttons for "50Hz" and "60Hz" (60Hz is selected), "Project Name", "Address", "Date" (set to 2021/9/4), and "Contract No.".
- Client information:** Includes fields for "Name", "Position", "Company", and "Tel".
- Designer information:** Includes fields for "Name", "Company", "Address", "Tel", and "Fax". There is also a checkbox labeled "Save designer information".
- Remark:** A large text area at the bottom for additional notes.

A red rectangular box highlights the "Area" dropdown menu. Overlaid on the "Client information" and "Designer information" sections is a smaller dialog box with the following text: "The North American region is currently selected, is it entering the ultra-low temperature multi-online selection?". This dialog box has three buttons: "Yes", "No", and "Cancel". At the bottom of the main "Project information" window, there are two buttons: "Confirm" (in blue) and "Cancel" (in grey).

3.机组选型

机组选型界面布局

选型流程导航栏（注：添加机组前，其他界面被屏蔽）



机组系列列表

机组系列信息

点击蓝色箭头弹出参数列窗口

详细机组列表

点击按钮，或者双击机组系列列表项，弹出添加机组窗口

3.机组选型

详细参数列选择

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 (SS/H/
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Specification

Select the following options, it will be displayed in detailed list

☒ Unit name

User-defined unit name

☒ Remark

Unit information remarked by tl

☒ Model

Unit model

☒ DBT/RH (Cooling)(°C/%)

Cooling dry bulb temperature/r

☒ DBT (Heating)(°C)

Heating inddor dry bulb tempe

☒ Req TC (kW)

Total cooling load of user desig

☒ Req SC (kW)

Sensible cooling load of user d

☒ Req H (kW)

Heating load of user design de

☒ Rt TC (kW)

Rated total cooling capacity of

☒ Rt H (kW)

Rated heating capacity of air cc

☒ Noise (H/M/L)(dB(A))

Unit noise

1.通过勾选对应的参数选项，来调整机组选型界面中机组展示列表的数据列。

2.说明每个简写列名对应的参数信息

3.内机选型

添加内机窗口

The screenshot shows a software window titled "RoofTop Unit" with a close button (X) in the top right corner. The window is divided into several sections:

- Unit Information:** Includes fields for "Unit name" (containing "Unit 1"), "Remark", "Power:" (380~415V,3Ph), "Function Type:" (Duct), and "Series:" (Rooftop Packaged Unit). There is a "Manual selection" checkbox with a blue arrow pointing to it.
- Design condition:** A section with a blue header bar. It contains two columns of settings for "Cooling" and "Heating". Each column has "Indoor" and "Outdoor" sub-sections with fields for DBT (Dry Bulb Temperature), WBT (Wet Bulb Temperature), and RH (Relative Humidity).

Condition	Mode	Parameter	Value	Unit	
Cooling	Indoor	DBT	27.00	°C	
		WBT	19.00	°C	
		RH	45.77	%	
	Outdoor	DBT	35.00	°C	
		WBT			
		RH			
Heating	Indoor	DBT	20.00	°C	
		WBT			
		RH			
	Outdoor	DBT	7.00	°C	
		WBT	6.00	°C	
		RH	85.36	%	
- Required Capacity:** A section with a blue header bar. It contains three fields: "Total cooling" (0 kW), "Heating" (0 kW), and "Static pressure" (0 Pa).

At the bottom of the window, there are "Cancel" and "Add" buttons. The text "普通内机" (General Indoor Unit) is displayed below the "Add" button.

设定内机名称、备注、功能类型电源规格

点击蓝色箭头, 或勾选选择框,
弹出手动选择窗口

工况设定

设计负荷
(根据不同的内机系列,
显示不同的设计负荷选型)

点击“添加”时, 添加一台机组

3.内机选型

自动推荐

RoofTop Unit

Unit name

Unit 1

Remark

Power:

380~415V,3Ph

Function Type:

Duct

Series:

RoofTop Packaged Unit

☐ Manual selection >>

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

%

Required Capacity

Total cooling

0

kW

Heating

0

kW

Static pressure

0

Pa

Cancel

Add

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 (SS/H/M/L)(m³/h)	Design Static Pressure(Pa)	Static Pressure Range(Pa)	NW(kg)
Unit 1		GK-H5.5TH/NaA-X(E)	27 / 45.77	20	0	0	0	22	26	66/ - / -	3000/ - / -	0	0	268
Unit 2		GK-H7.5TH/NaA-X(E)	27 / 45.77	20	28	0	31	28	31	68/ - / -	4400/ - / -	0	0	348
Unit 3		GK-H10TH/NaA-X(E)	27 / 45.77	20	34	0	39	34	39	72/ - / -	5800/ - / -	0	0	350
Unit 4		GK-H15TH/NaA-M(E)	27 / 45.77	20	48.5	0	55.5	48.5	55.5	74/ - / -	9500/ - / -	125	0	590
Unit 5		GK-H20TH/NaA-M(E)	27 / 45.77	20	60	0	71	60	71	75/ - / -	15000/ - / -	125	0	820

(全自动)

- 1.每次点击add按钮，就会自动根据选择的内机系列，输入的工况、设计负荷来自动选择内机，并添加到内机展示列表
- 2.内机会在后续选项中自动调整
- 3.若无机型满足要求，则会提示原因

(半自动)

- 点击蓝色箭头后，会弹出手动选型窗体，不勾选手动选型框时：
- 1.双击特定型号内机时，将该机型额定功率设定为设计负荷；点击添加时，推荐满足负荷要求的机型，并添加到内机展示列表
 - 2.内机在后续选型中会自动调整

3.内机选型

手动选择

RoofTop Unit

Unit name

Unit 8

Remark

Power:

380~415V,3Ph

Function Type:

Duct

Series:

Rooftop Packaged Unit

☐ Manual selection

>>

Design condition

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

%

Required Capacity

Total cooling

102

kW

Heating

121

kW

Static pressure

125

Pa

Cancel

Add

Indoor unit series

Rooftop Packaged Unit

Indoor unit list

Model	Rt TC (kW)	Rt H (kW)	NW(kg)	Noise (H/M/L)(dB(A))	Static Pressure Range(Pa)
GK-H5.5TH/NaA-X(E)	22	26	268	66/ - / -	0~185
GK-H6.2TH/NaA-X(E)	22.5	26.5	268	66/ - / -	0~185
GK-H7.5TH/NaA-X(E)	28	31	348	68/ - / -	0~185
GK-H10TH/NaA-X(E)	34	39	350	72/ - / -	0~210
GK-H15TH/NaA-M(E)	48.5	55.5	590	74/ - / -	50~200
GK-H20TH/NaA-M(E)	60	71	820	75/ - / -	75~220
GK-H25TH/NaA-M(E)	84	95	1180	76/ - / -	100~250
GK-H30TC/NaA-M(E)	102	121	1009	77/ - / -	125~350

(纯手动)

在勾选手动选型窗口后，会弹出手动选型窗体

1.双击特定型号内机时，若当前输入负荷为“0”，则设定设计负荷，若当前负荷不为“0”，则不改变设计负荷；Model会显示客户选择的具体内机，点击添加时，内机展示列表中添加此机型

2.内机在后续选型中不会调整

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3.内机选型

内机列表操作

Unit name	Remark	Model	DBT/DBT (Cooling/Heating) (°C/°F)	Req TC (kW)	Req SC (kW)	Req H (kW)	Rt TC (kW)	Rt H (kW)	Noise (H/M/L) (dB(A))	Airflow (SS/H/M/L) (m³/h)	Design Static Pressure (Pa)	Static Pressure Range (Pa)	NW (kg)
Unit 1		GK-H5.5TH(NaA-X)(E)	27 / 45.77	20	0	0	22	26	66 / -	3000 / -	0	0	268
Unit 2		GK-H7.5TH(NaA-X)(E)	27 / 45.77	20	26	0	28	34	68 / -	4400 / -	0	0	348
Unit 3		GK-H10TH(NaA-X)(E)	27 / 45.77	20	34	0	34	38	72 / -	5800 / -	0	0	350
Unit 4		GK-H15TH(NaA-X)(E)	27 / 45.77	20	48.5	0	48.5	55.3	74 / -	9500 / -	125	0	590
Unit 5		GK-H20TH(NaA-X)(E)	27 / 45.77	20	60	0	60	71	75 / -	15000 / -	125	0	820
Unit 6		GK-H25TH(NaA-X)(E)	27 / 45.77	20	84	0	84	95	76 / -	16500 / -	125	0	1180
Unit 7		GK-H30TC(NaA-M)(E)	27 / 45.77	20	102	0	121	102	77 / -	16500 / -	125	0	1009

单击列表某一内机，表头出现三个图标

右击列表某一内机，出现操作菜单

三个图标对应操作菜单三项：

Delete：可以删除对应的内机

Edit：可以编辑对应的内机

Copy：复制对应的内机

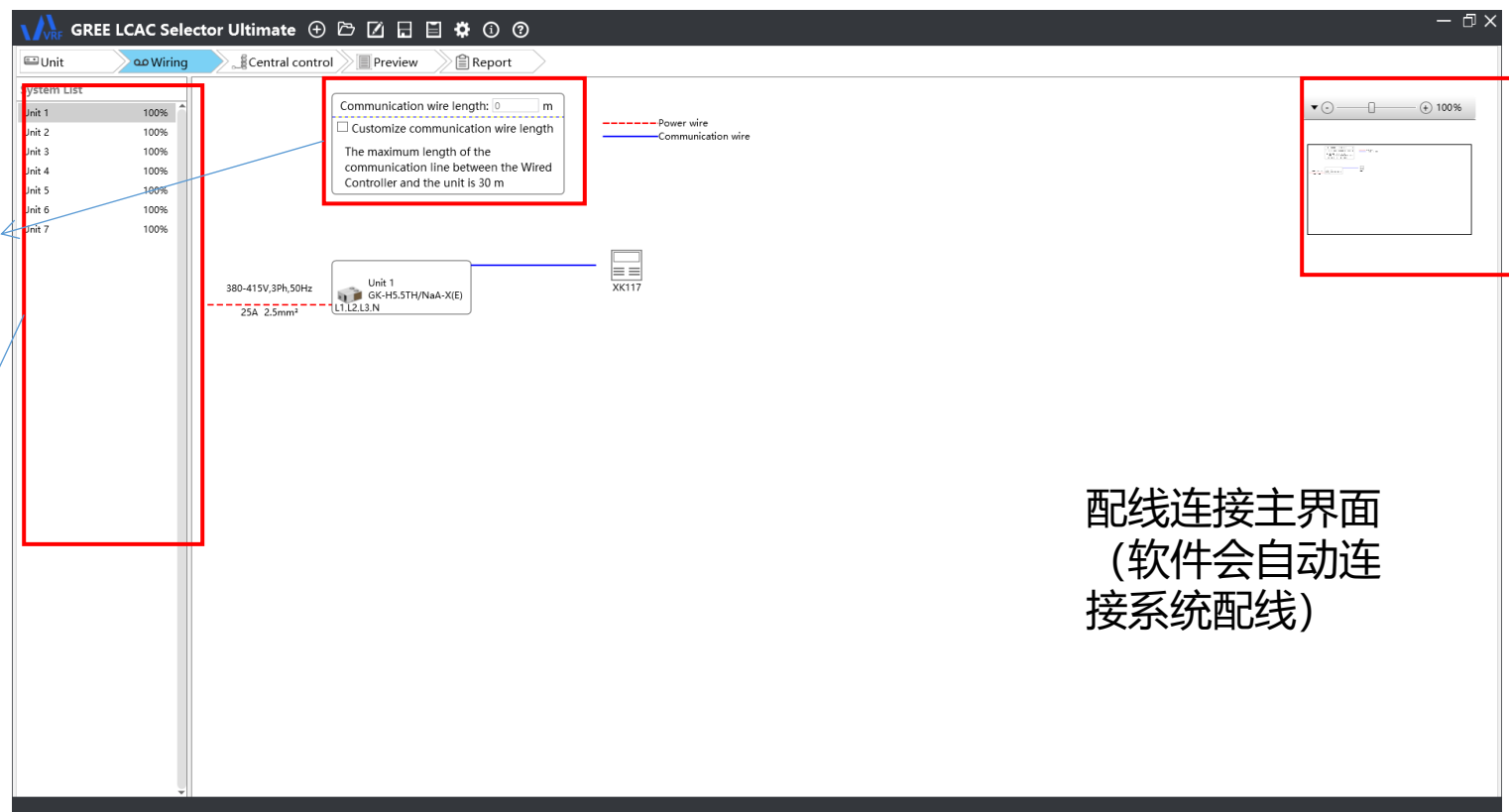
4.配线连接

配线连接界面

配管界面连接完毕后，点击导航栏，切换至配线界面

自定义通讯线长：
1.勾选时，自定义输入通讯线长

系统列表



视图概览

配线连接主界面
(软件会自动连接系统配线)

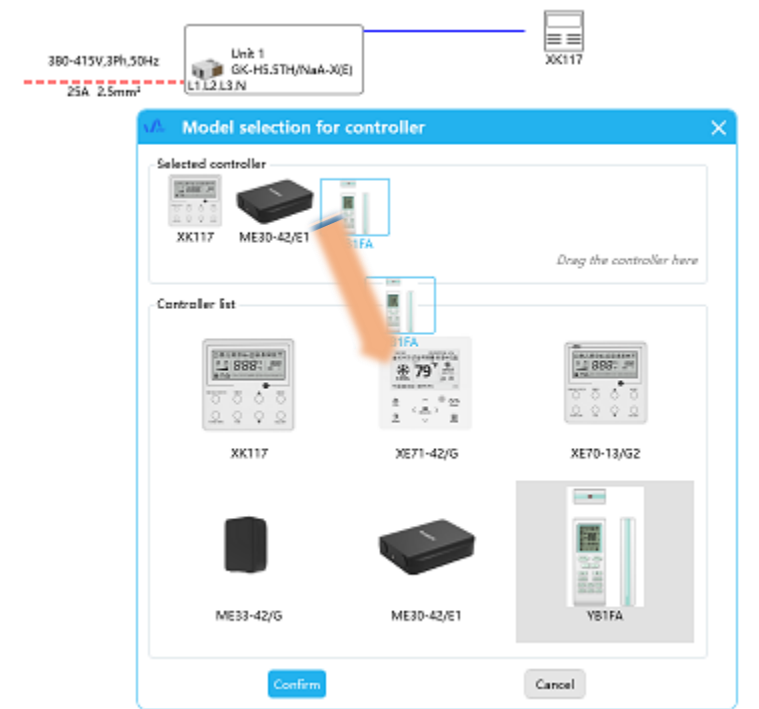
4.配线连接

控制器的选择

双击内机图片或控制器图片，弹出控制器编辑窗口



选择要添加的控制器，拖动到已选择的控制器框内，完成添加控制器



已添加的控制器，点击拖动到下方，完成移除控制器

5.集中控制器选型

集中控制器选型界面

添加分组按钮

集中控制器列表

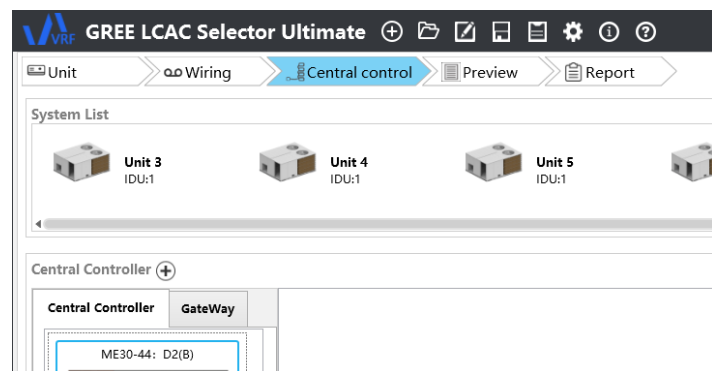
系统列表

全局性开启配线图

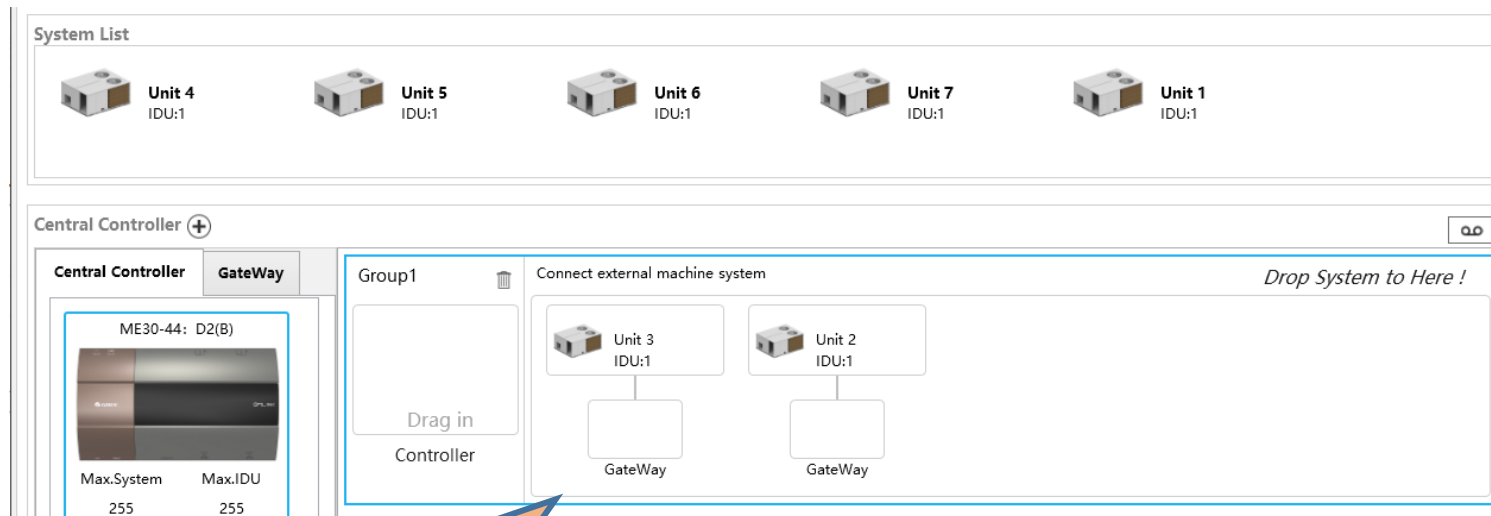
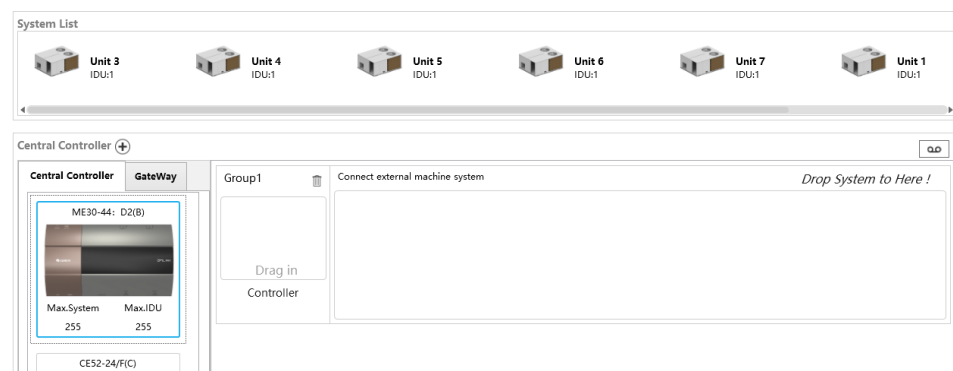
集中控制器分组展示区域

5.集中控制器选型

添加分组



点击添加分组按钮，就会在分组展示区添加一个新的分组



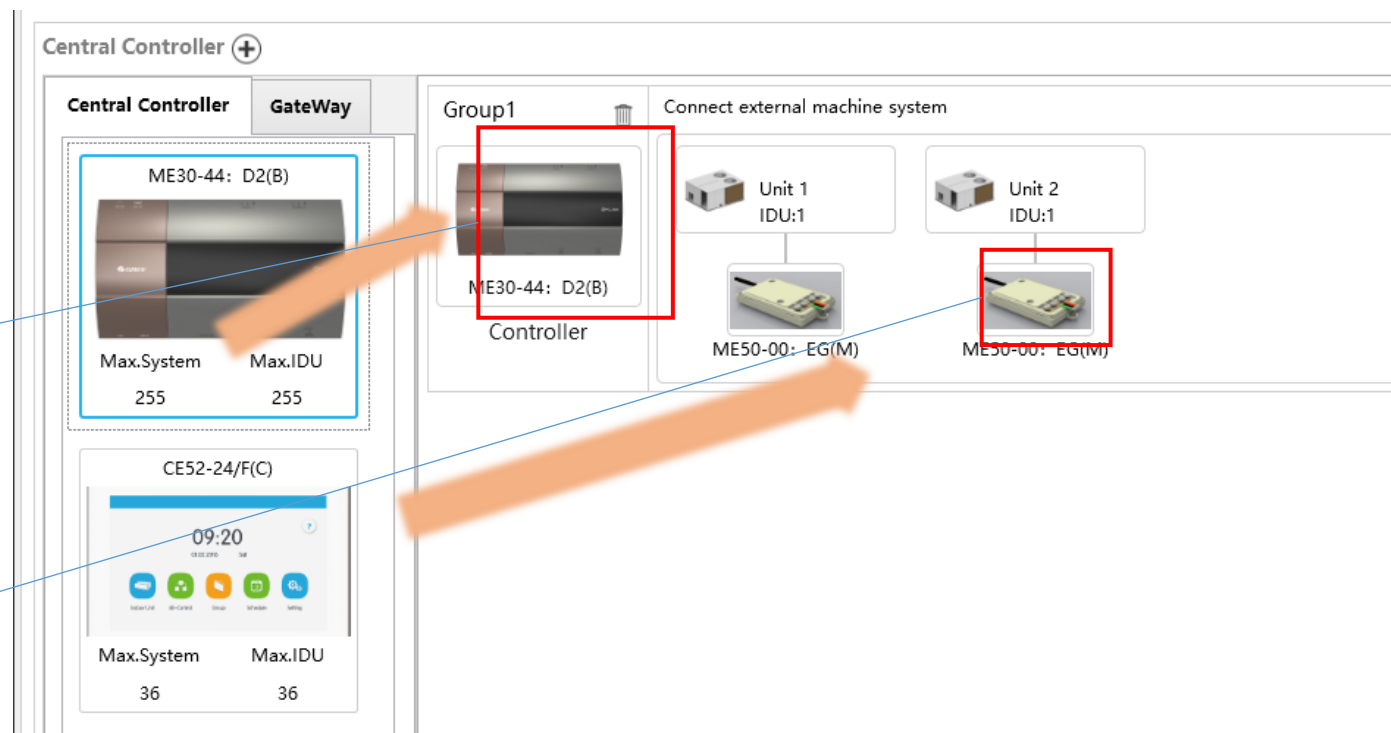
拖动外机系统到连接外机单元框内

5.集中控制器选型

添加集中控制器

全局控制器
(对组内所有的系统进行控制)

网关

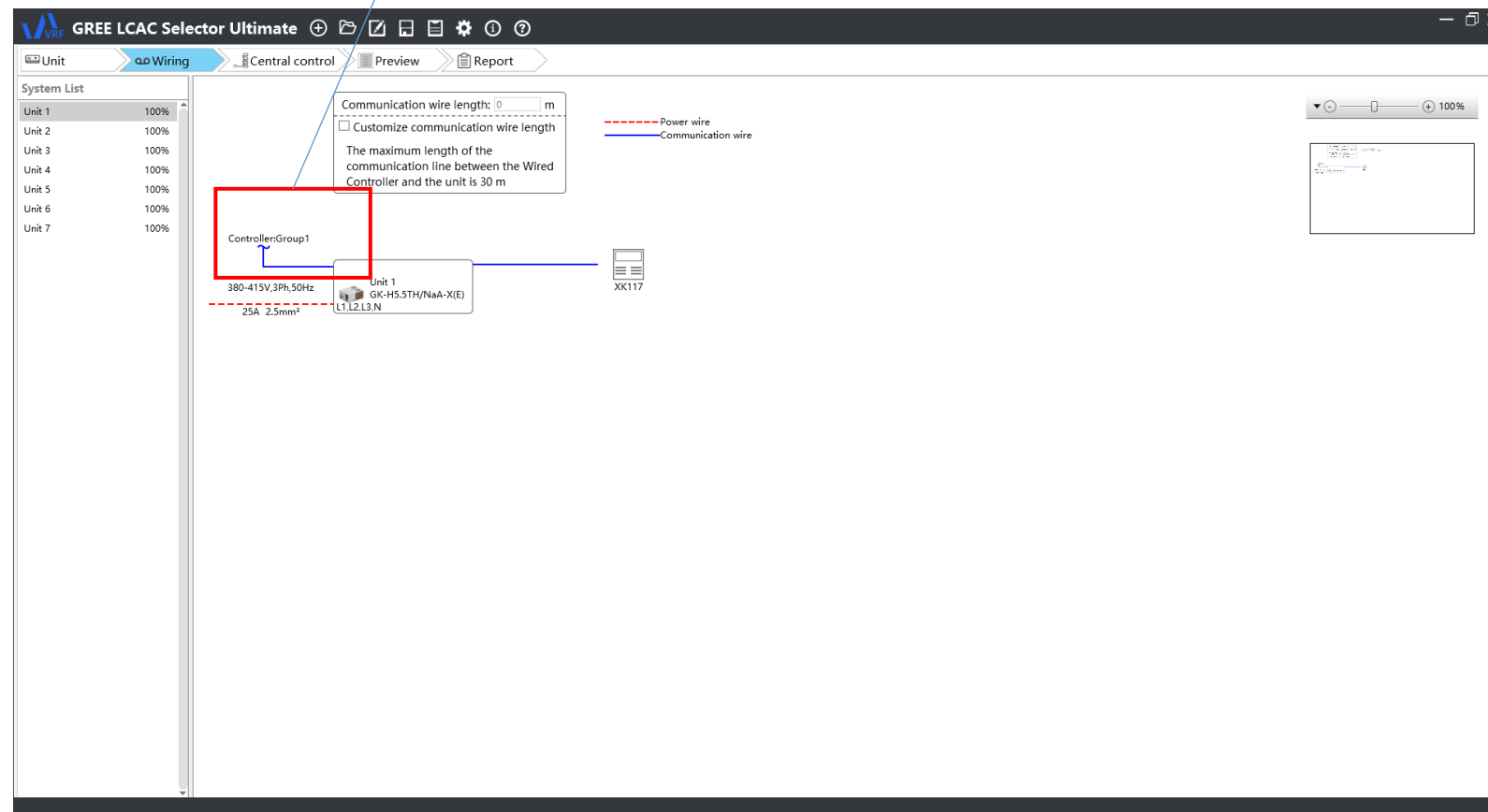


5.集中控制器选型

配线的变化

当集中控制器选型完毕后，通过导航栏切换回配线界面，软件会自动将集中控制器的配线连接到系统内部。

全局集中控制器



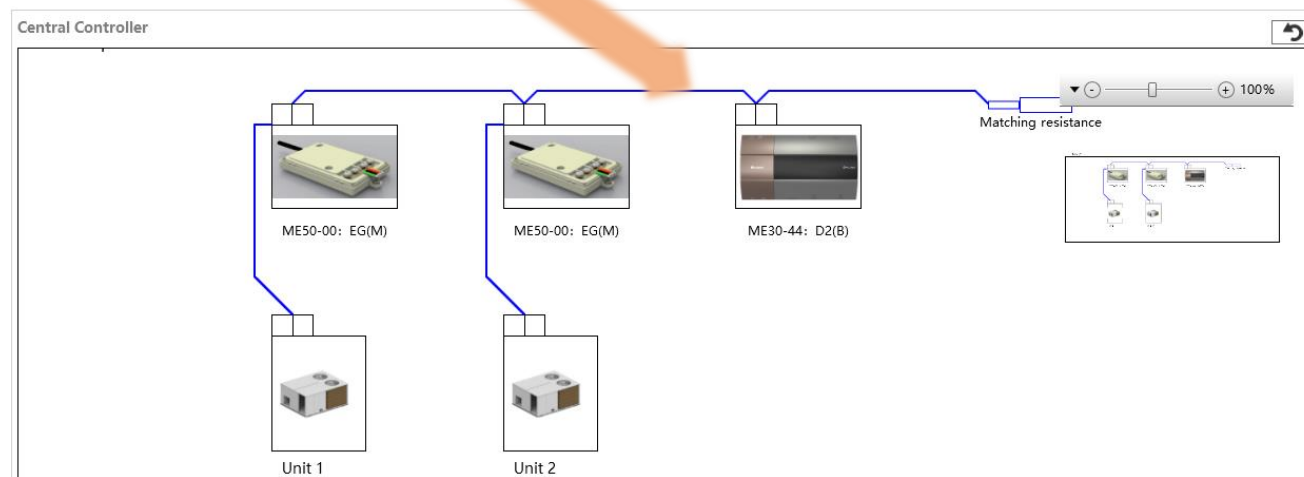
5.集中控制器选型

全局集中控制器配线连接



在集中控制器选型界面，
点击配线按钮

展示全局集中控制器的
配线连接

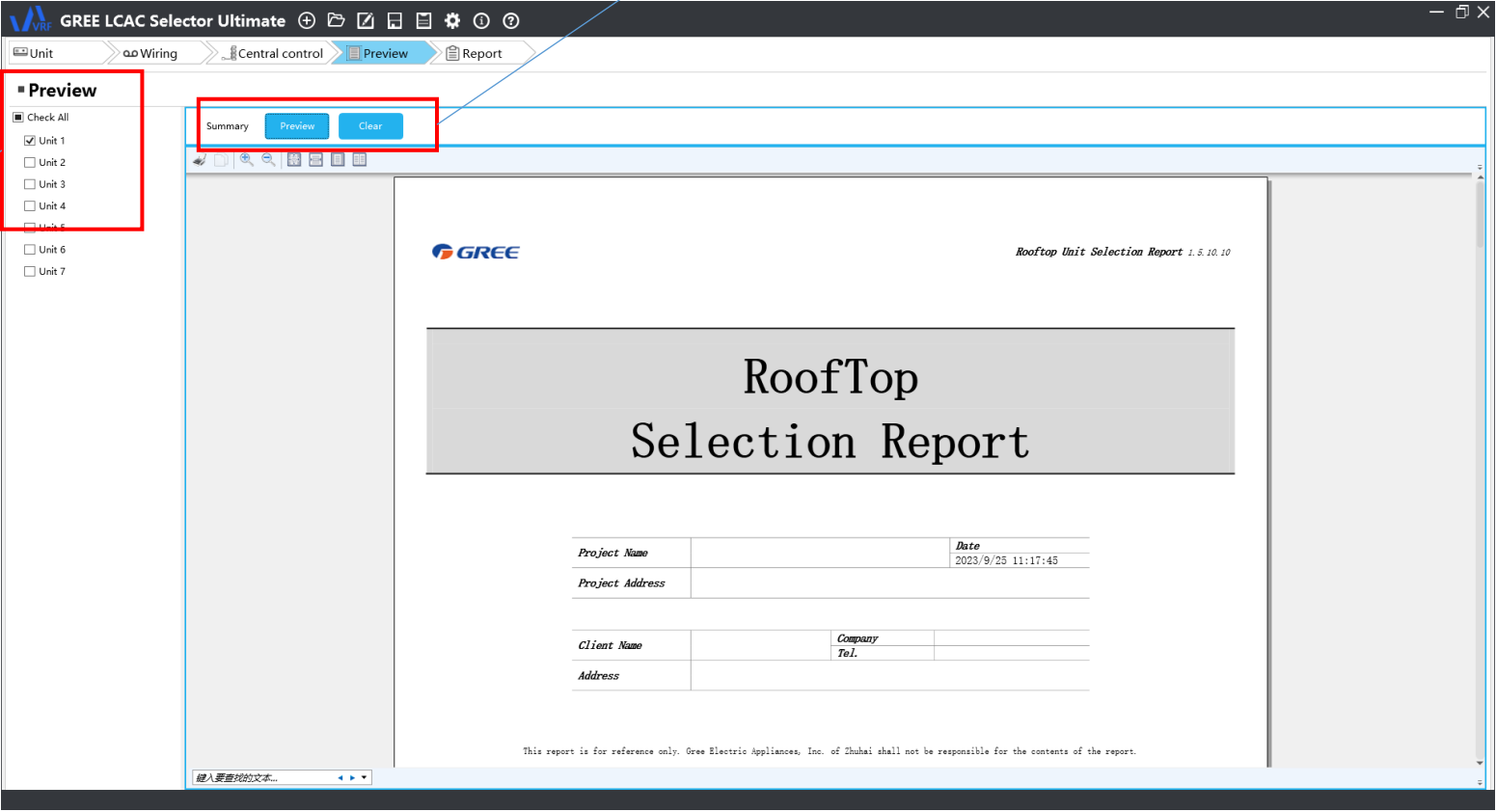


6.报表导出

报表预览

系统列表
(勾选需要预览
报表的系统)

点击预览，显示预览报告
点击清除，清空预览报告



6.报表导出

报表导出界面

系统列表
(勾选需要导出报表的系统)

选择导出配管、配线连接图

导出Submittal
(此功能暂开放北美区域)

选择导出路径

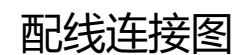
输入导出文件的名称

选择导出文件：
1.概要文件
2.参数表
3.CAD工程图

系统报告、参数表、配管连接图、配线连接图

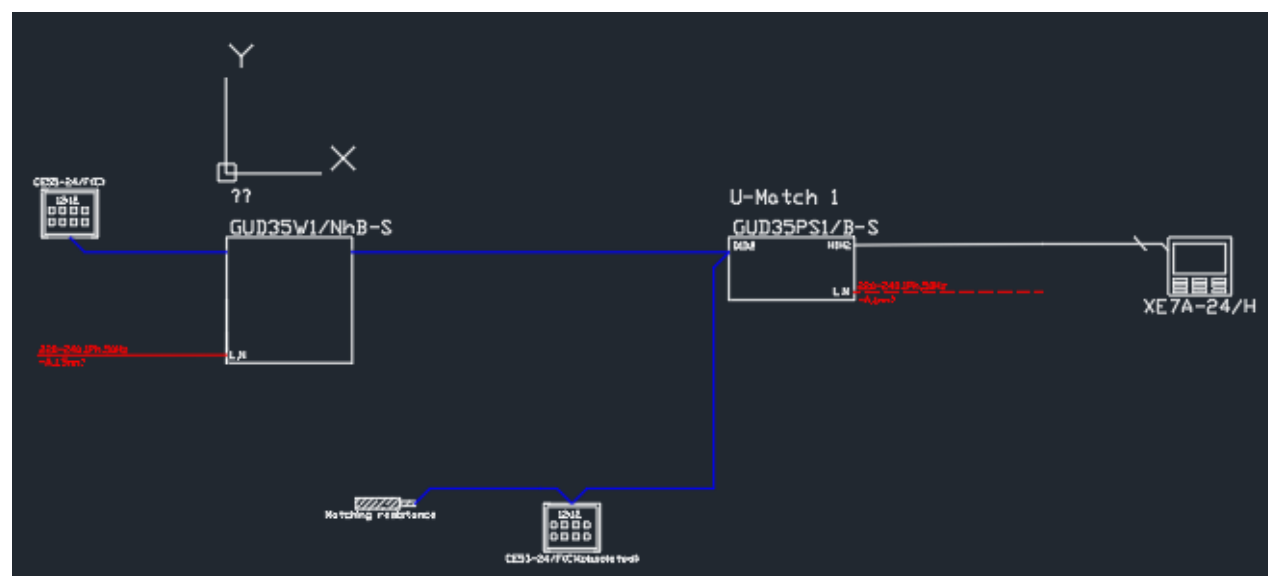
系统报告

参数表



6.报表导出

CAD工程图



配线工程图