SAMSUNG New DVM-Pro

User Manual (Sales mode)

English Version

2011. 11.

00| Contents

SAMSUNG DVM-Pro User Guide

01 | New DVM-Pro Install & Run

• New DVM-Pro supports Windows XP/7 32bit, 64bit system.

• After installation, the user must obtain an authorization code to use New DVM-Pro.

• New DVM-Pro is composed of 'design mode' and 'sales mode'.

New DVM-Pro composition

New DVM-Pro → Design mode → **Plug-in program based on AutoCAD 2010, 2011, 2012**

New DVM-Pro → Sales mode → **Independent program**

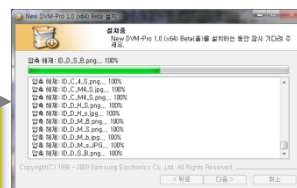## Program Installation & activation

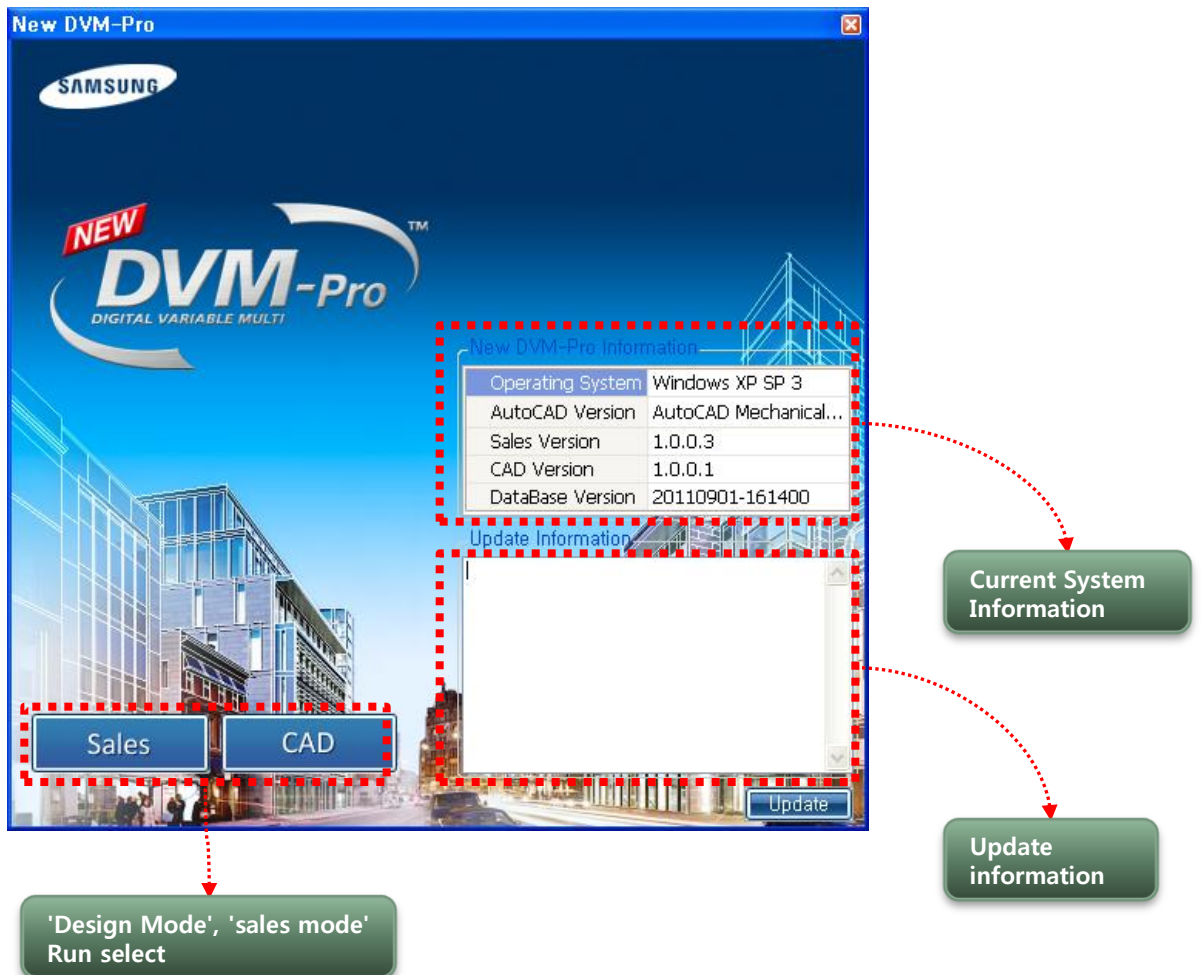**Program Install** → **Request authorization code** → **Program start**

Country & language must be selected in the installation process. Once installation is done, the user must contact Samsung's DVM-Pro administrator to make changes.

Select your country & language

SAMSUNG DVM-Pro User Guide

02 ‖ Sales Mode Usage Process

New DVM–Pro sales mode procedure is as follows.

01 **Project Define**

02 **Indoor Unit Design**
- • Register room information (name, required load) / Input demand load / Add indoor unit

03 **Outdoor Unit Design & Connecting**
- • Register the appropriate outdoor unit for the selected indoor unit

04 **Space Management**
- • Floor & Building, Room & floor can be managed together

05 **Pipe drawing**
- • Create visualized route. Output with .dwg & .jpg file is possible
- • Creating a pipe system the user wants is possible by using the manual and automatic drawing function

06 **System Check**
- • Check for any errors

07 **Capacity Correction**
- • Capacity Correction

08 **Wire Diagram**
- • Create visualized wiring
- • Output with .dwg & .jpg file is possible

09 **Control System**
- • Create schematic drawing for Control system

10 **Report**
- • Create Report

SAMSUNG DVM-Pro User Guide

03 Operation Procedure

(1) Project Define

- To create the project, enter basic information.
- Enter the project name, the project name will be saved as the file name. file format is ".dvmx".
- Customer and designer information entering is optional.
- In the Design condition, select your city. It also can be edited manually.

Required Field

Not mandatory

Can be modified manually

SAMSUNG DVM-Pro User Guide

03 Operation Procedure (1) Project Define

• New DVM-Pro sales mode default interface are as follows:

• Room defining, indoor & outdoor unit selection and connection, system information checking can be done on one screen.

Task Selection Tab

Indoor unit list

Add Indoor Unit / Acc.

Building Info.
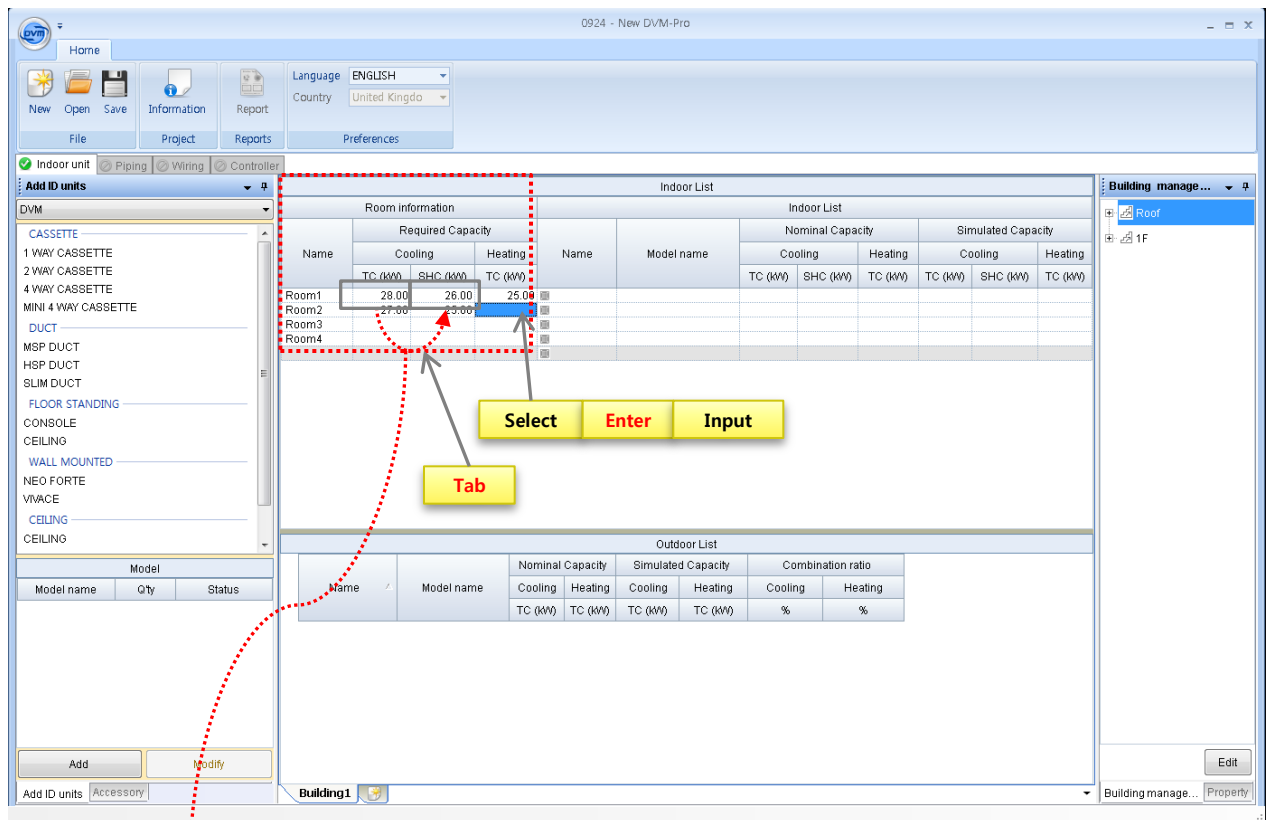
Outdoor unit list

Floor / Room property Info.

• An interface to add indoor unit and accessories
• Window location change can be made by drag & drop.

• Menu for setting building floors and rooms
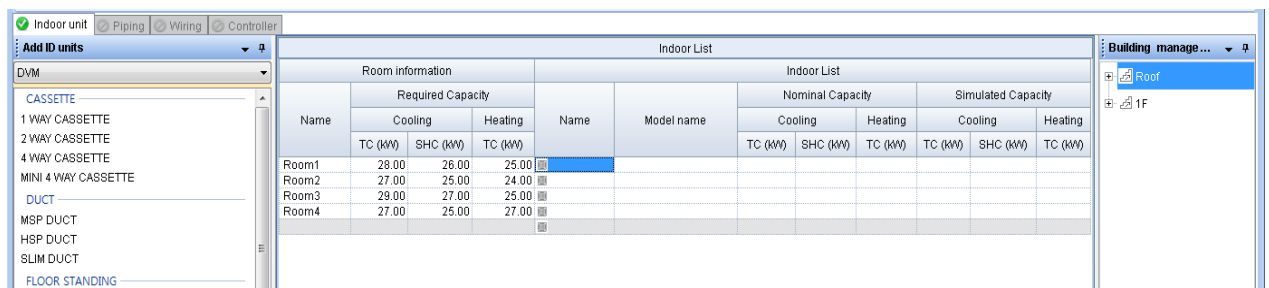• Information for the selected indoor and outdoor unit

SAMSUNG DVM-Pro User Guide

03 | Operation Procedure

(2) Indoor Unit Design – Room Info.

• To register Indoor unit, Room name and demand load must be registered first.

• To enter a value in the grid, select the position then press 'Enter'. Use 'Tab' key to move on to the next space.

• Data entering and management can be done easily using the 'Enter' and 'Tab' keys,
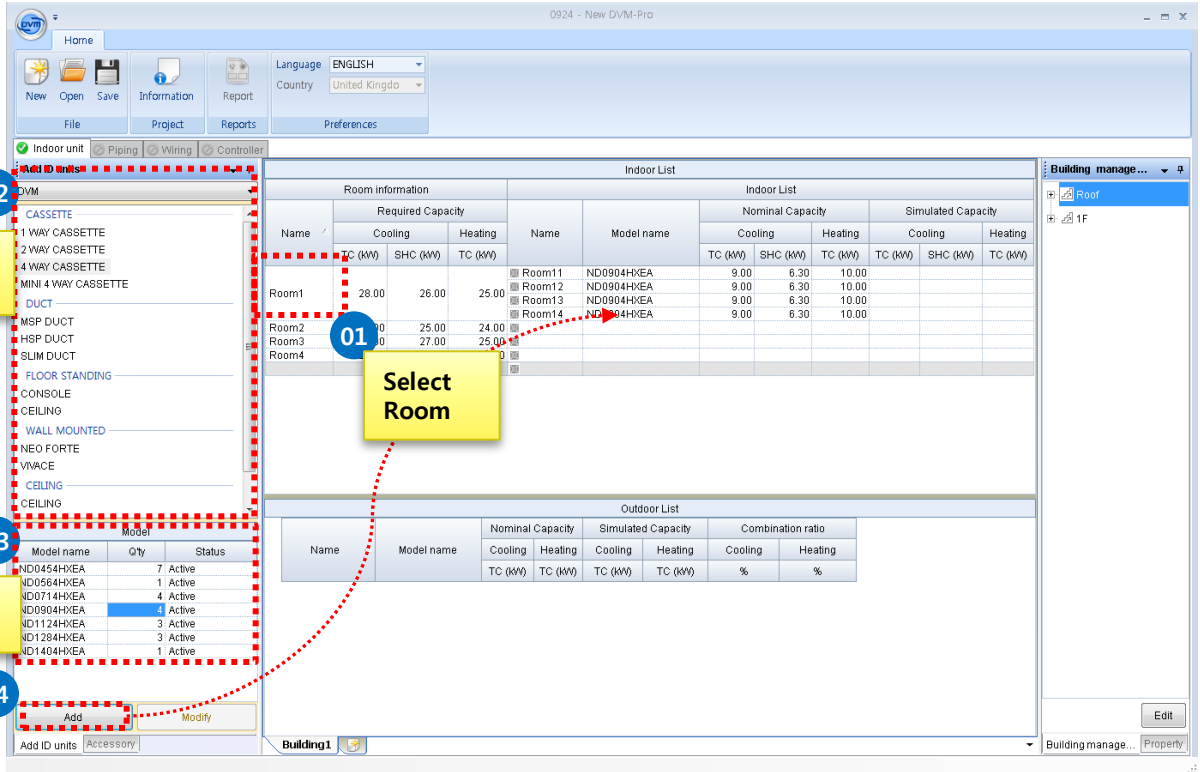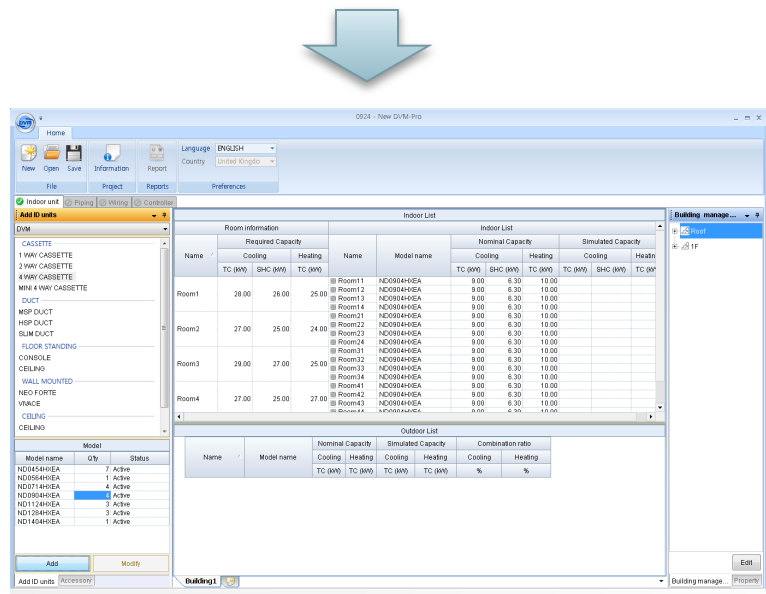

Enter the room information

SAMSUNG DVM-Pro User Guide

03 | Operation Procedure   (2) Indoor Unit Design – Select & register indoor unit

• Select the corresponding room, then add the indoor unit using the "Add" button.

02 Indoor Unit type

01 Select Room

03 Model name

04

If you select the model, it automatically calculates the quantity and can be changed manually

SAMSUNG DVM-Pro User Guide

03 | Operation Procedure (3) Outdoor Unit registration

• To register the outdoor unit, select room or indoor unit from the list of the indoor units, then drag and drop to the outdoor unit list. A window will appear for registering the outdoor unit.
• Select the type and model of the outdoor unit and enter "OK", then the outdoor unit is registered.

03 Operation Procedure

• Once registered, color distinguishment is made as the figure below. The connected indoor unit can be identified in the Outdoor unit list.

The connected outdoor and indoor units and the unconnected units can be distinguished by color

Double-clicking indoor, outdoor shows the product details

SAMSUNG DVM-Pro User Guide

03 Operation Procedure

(4) Space management

• New DVM-Pro can manage the floors and rooms in conjunction.

Building manage...
- Roof
- 1F

Building management

Floor	Name	Height
Roof	Roof	0
1	1F	3000

02

Building management Property

Enter the ground floor and height

Floor	Name	Height
Roof	Roof	0
7	7F	3000
6	6F	3000
5	5F	3000
4	4F	3000
3	3F	3000
2	2F	3000
1	1F	3000

03

Automatic generation of the ground floor

01 Edit

Building manage... Property

Building management

Floor	Name	Height
Roof	Roof	0
7	7F	3000
6	6F	3000
5	5F	3000
4	4F	3000
3	3F	3000
2	2F	3000
1	1F	3000

04 -3

Building management Property

Enter the basement and height

Floor	Name	Height
Roof	Roof	0
7	7F	3000
6	6F	3000
5	5F	3000
4	4F	3000
3	3F	3000
2	2F	3000
1	1F	3000
-1	B1	
-2	B2	
-3	B3	

05

Automatic generation of the basement

Building management
- Roof
- 7F
- 6F
- 5F
- 4F
- 3F
- 2F
- 1F
- B1
- B2
- B3

SAMSUNG DVM-Pro User Guide

03 Operation Procedure

(4) Space management

• Rooms can be registered to floors. Select indoor unit, room or outdoor unit and by drag and drop to the desired floor, registration is complete.

03 | Operation Procedure

(5) Piping – Automatic

• After registration of the indoor and outdoor unit is complete, the piping tab is activated, the user will be able to write.

• The default mode is auto-piping, the user can manually direct if needed,.

• Like the CAD, the user can use the mouse wheel to zoom in / out, and pan.

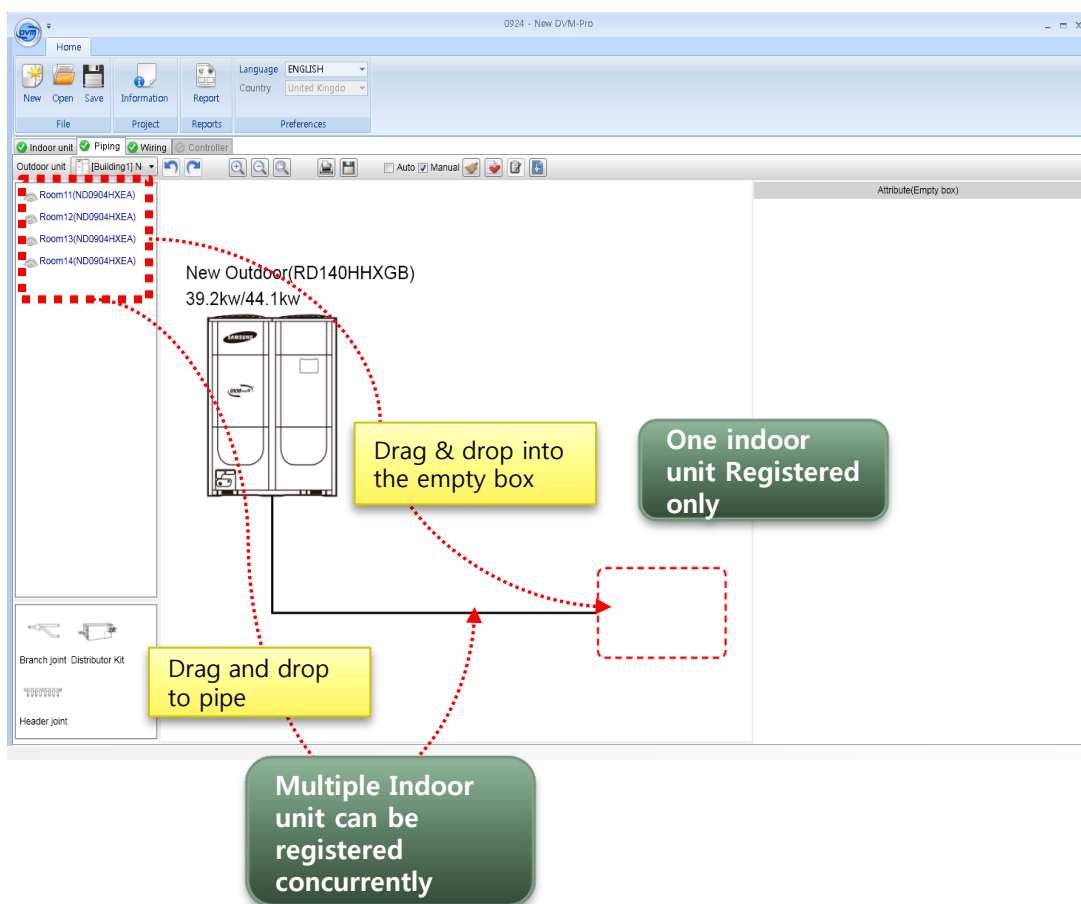**Outdoor Unit list**

Automatic/Manual

Zoom In/Out, Pan →
Mouse wheel
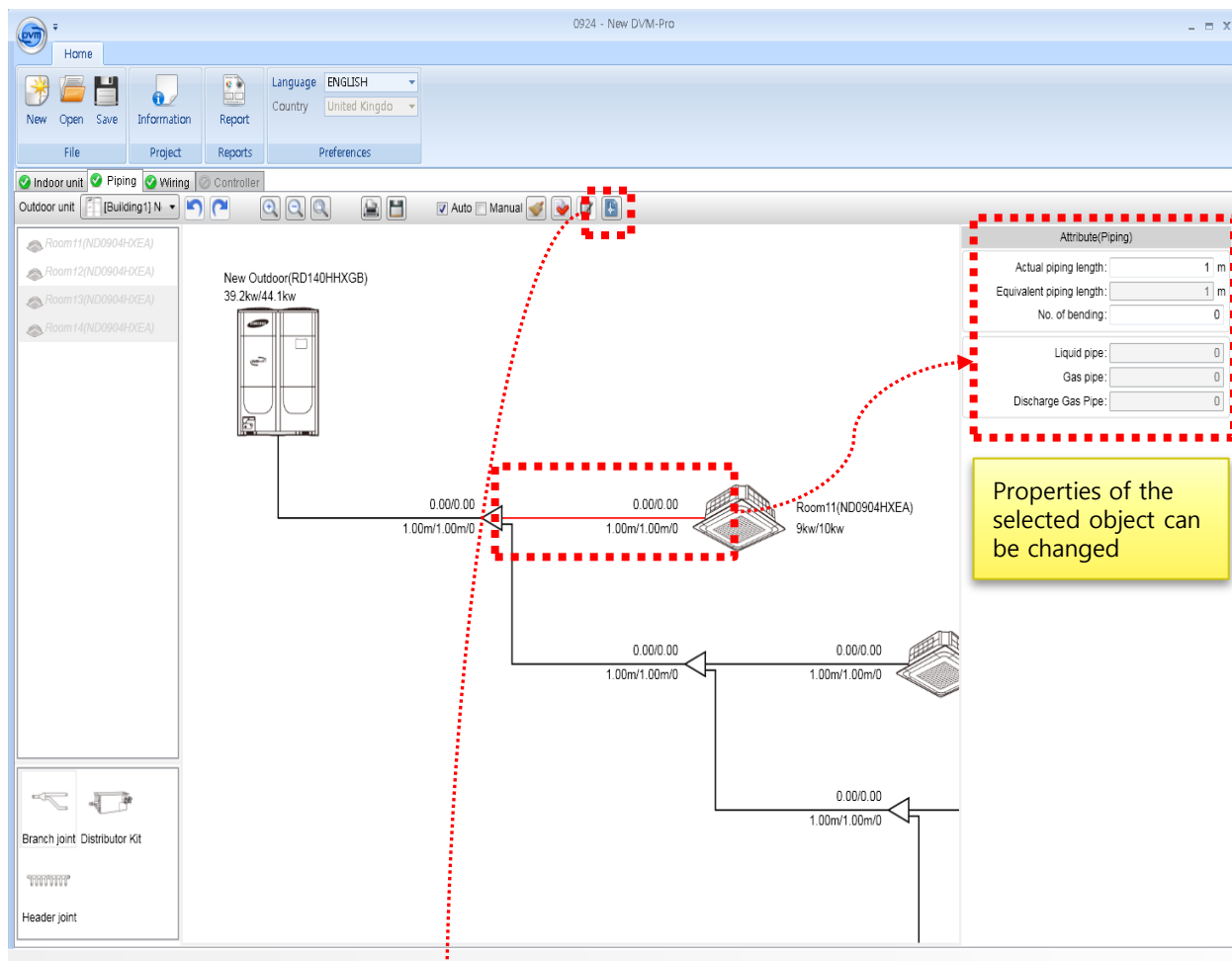
03 Operation Procedure
(5) Piping – manual

• When you select manual, a list of indoor units connected to the selected outdoor unit is shown.

• Drag-and-drop placement is possible and automatic Y-joint setting can be made depending on the situation.

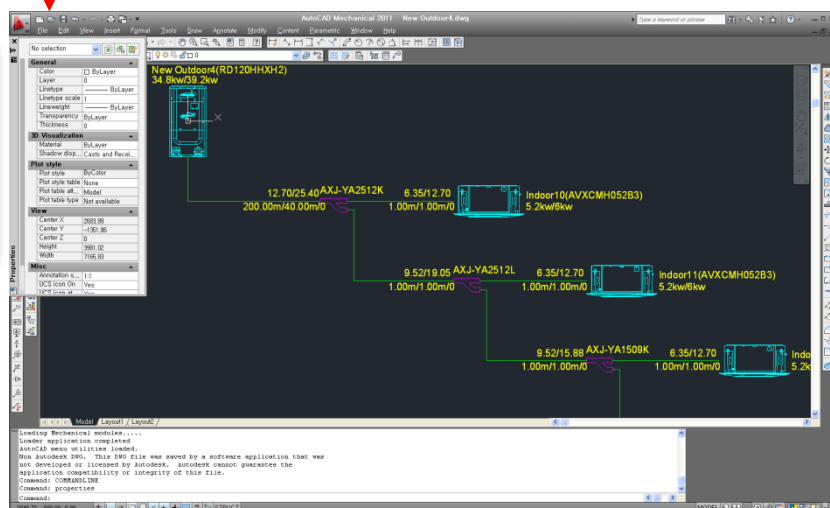• Depending on your needs EEV Kit or Header can also be used.

SAMSUNG DVM-Pro User Guide

03║ Operation Procedure

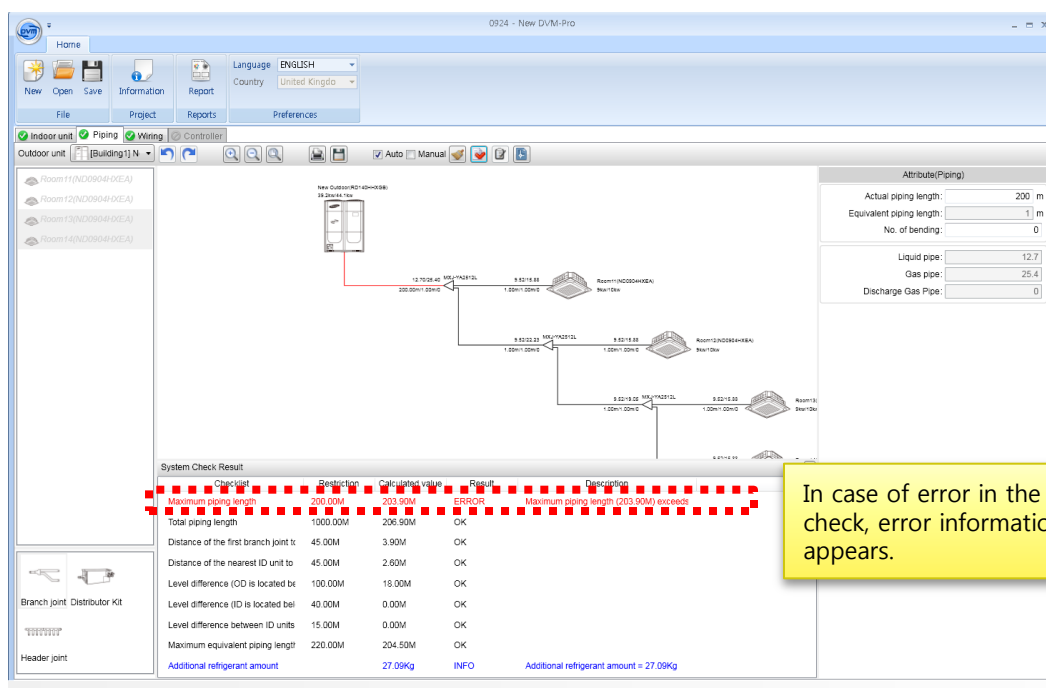(5) Piping – manual

Properties of the selected object can be changed
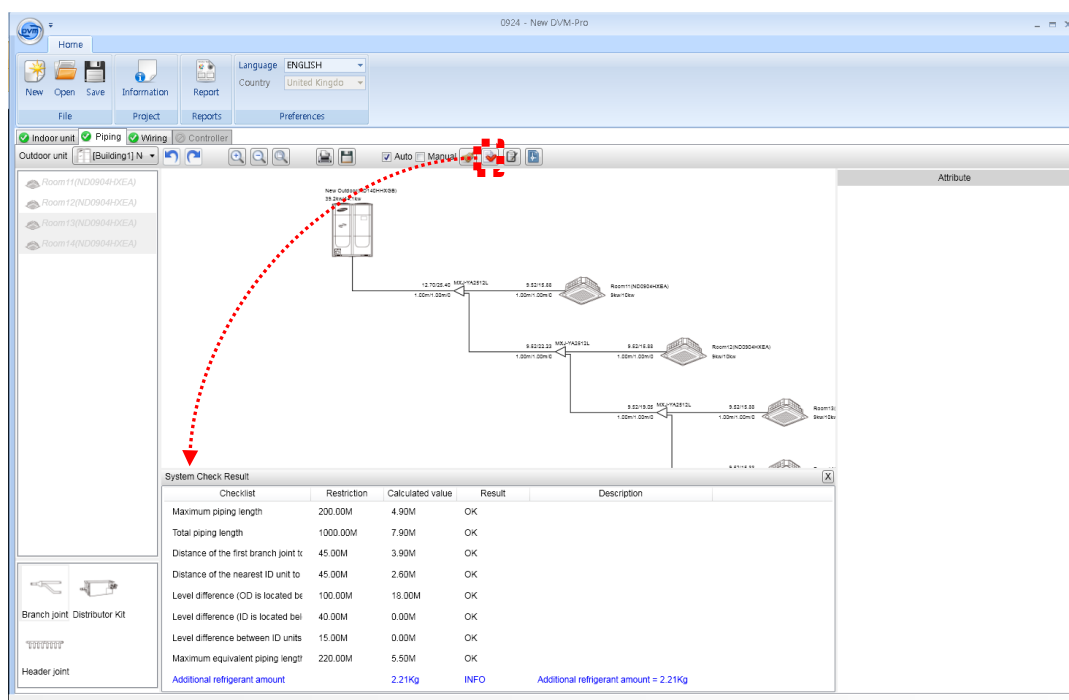
• Piping schema can be outputted by AutoCAD files
• This is not made by AutoCAD files so the following message appears and is normal

SAMSUNG DVM-Pro User Guide

03 | Operation Procedure

(6) System Check

• Once Piping system is complete, you can proceed with system check and the results are displayed on the bottom.

• If there is a problem in the system check, error description appears in red at the bottom. Modify errors and perform system check again.

In case of error in the system check, error information appears.

03 | Operation Procedure

• Capacity correction can be done after system check is completed.

Capacity correction

Design condition : Indoor

Cooling WB.Temp	19 °C	Heating DB.Temp	20 °C

Design condition : Outdoor

Cooling DB.Temp	27.4 °C	Heating DB.Temp	-2.3 °C
Maximum piping	24.50 m	Maximum level	18.00 m

Outdoor unit

Type	DVM PLUS 4		Cooling	Heating
Mode	HEAT PUMP	Combination ratio	91.84	90.70
Name	New Outdoor	Nominal Capacity	39.20	44.10
Model name	RD140HHXGB	Simulated Capacity	0.00	0.00

Indoor unit

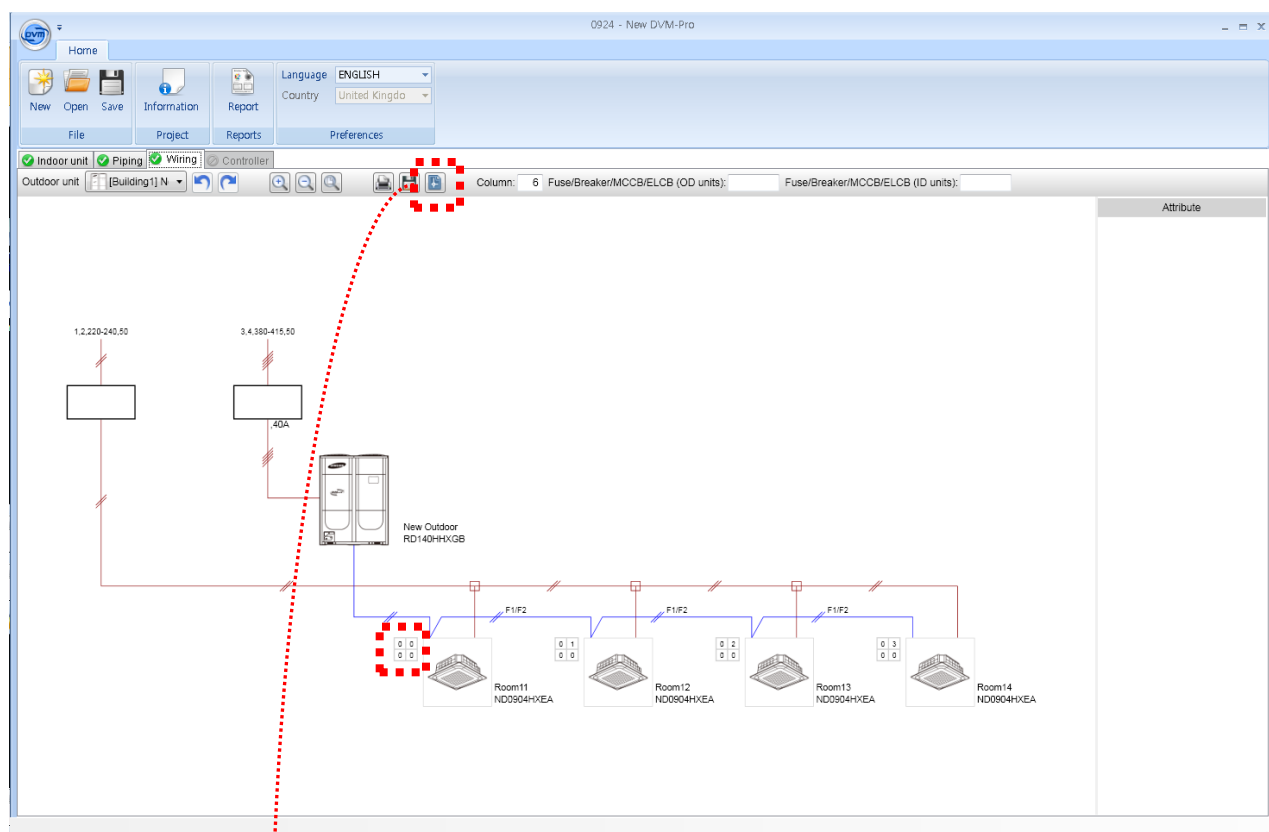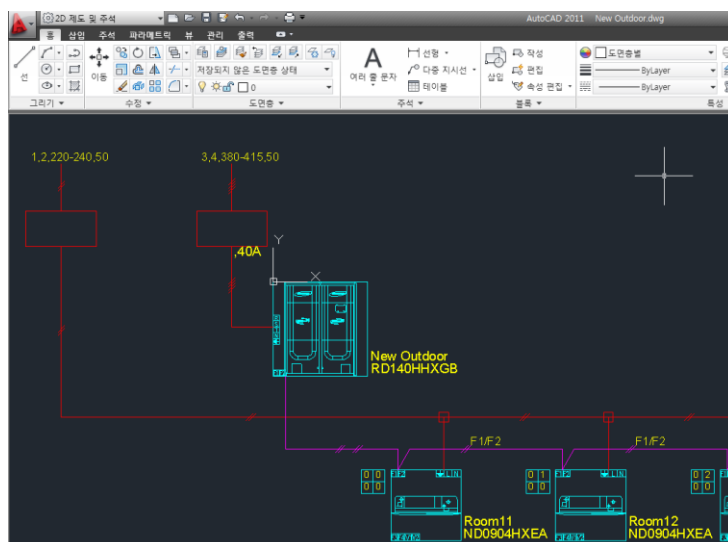| Name	Model name	Nominal Capacity			Simulated Capacity		
		Cooling		Heati	Cooling		Heati
		TC	SHC	TC	TC	SHC	TC
Room11	ND0904HXEA	9,00	6,30	10,00			
Room12	ND0904HXEA	9,00	6,30	10,00			
Room13	ND0904HXEA	9,00	6,30	10,00			
Room14	ND0904HXEA	9,00	6,30	10,00			
Totals		36,00	25,20	40,00	0,00	0,00	0,00

01 Capacity correction   OK   Cancel

03 Operation Procedure

• Can manage RMC address, column number

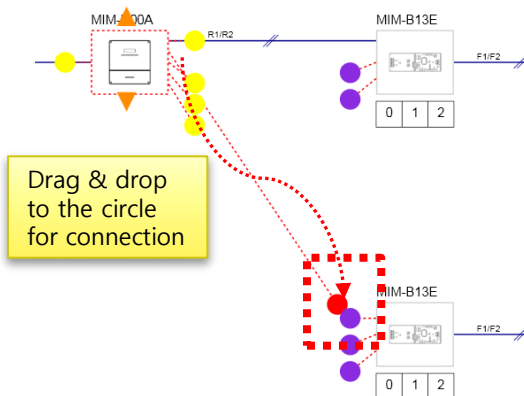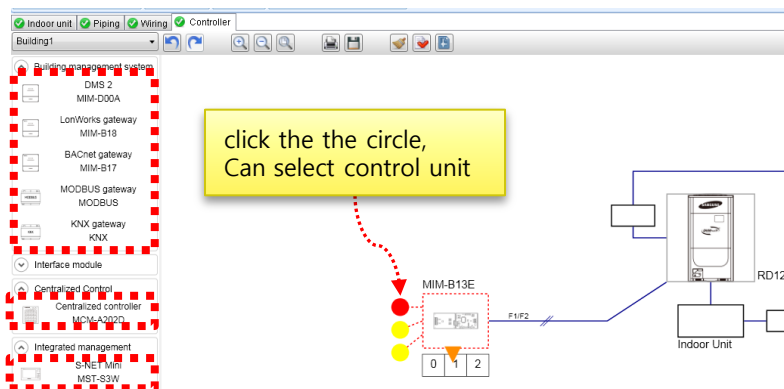• Like the CAD, the user can use the mouse wheel to zoom in / out, and pan.
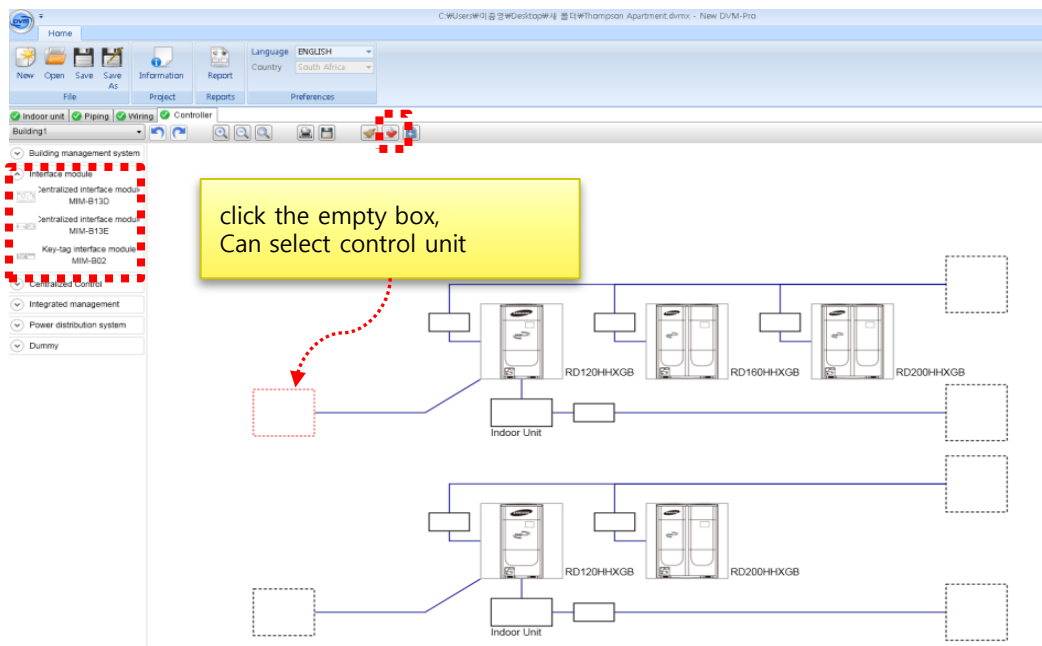

• Wiring schema can be outputted by AutoCAD files

• This is not made by AutoCAD files so the following message appears and is normal

SAMSUNG DVM-Pro User Guide

03 Operation Procedure

- Control system management

- If there is a problem in the system check, error description appears in red at the bottom. Modify errors and perform system check again.

SAMSUNG DVM-Pro User Guide

03│ **Operation Procedure**   **(10) Report**

▪ Report