

SAMSUNG New DVM-Pro

User Manual (Cad mode)

English Version

2011. 07.

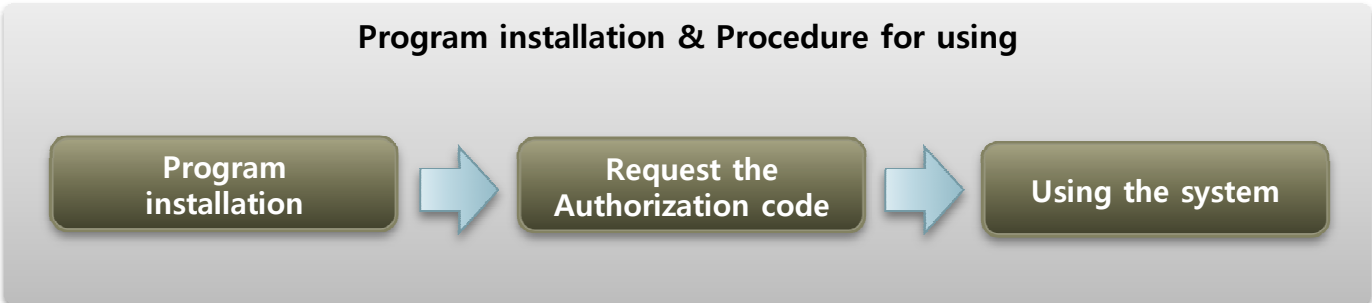
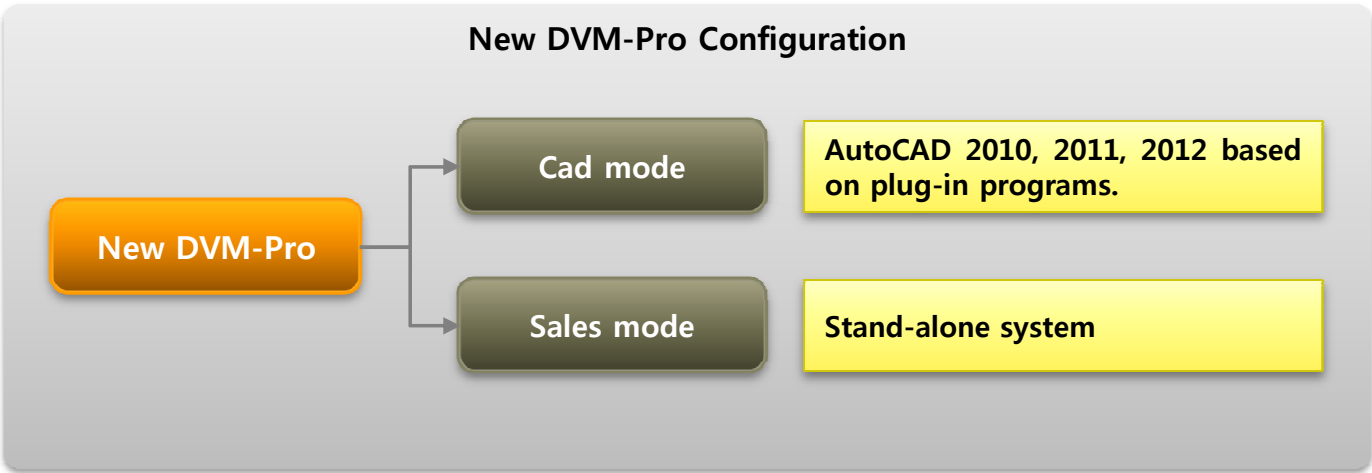
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01 New DVM-Pro Installation & Execution

요약

- New DVM-Pro is support the Windows XP/Vista/7 32bit, 64bit.
- After installation, you need to obtain Authorization code in order to use DVM-Pro.
- New DVM-Pro is composed of 'Cad mode' and 'Sales mode'

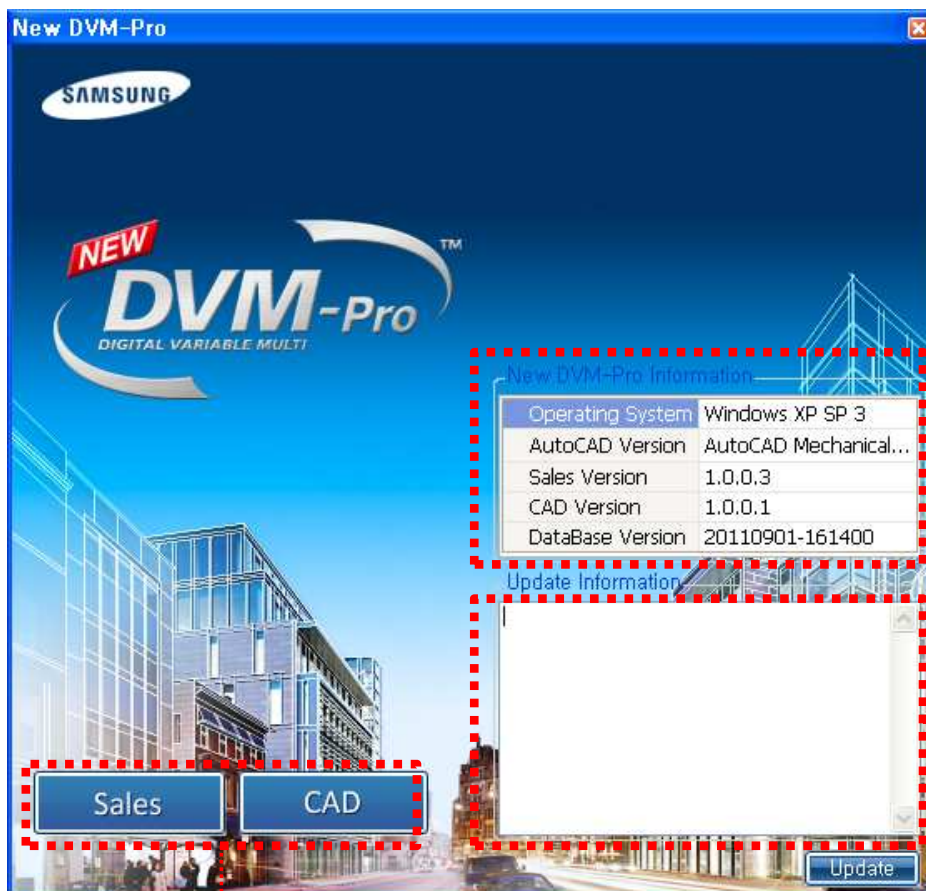


Country and language is determined at the time of installation. After if you want to change the Country and language settings, you should requests DVM-Pro Coordinator.

01 | New DVM-Pro Installation & Execution

01 | 1

- When you run the New DVM-Pro, It is to choose one of two things as New DVM-Pro is composed of 'Cad mode' and 'Sales mode'
- When It need the update, Update Information displayed update information. User can update this optionally.



'Cad mode', 'Sales mode' Run button

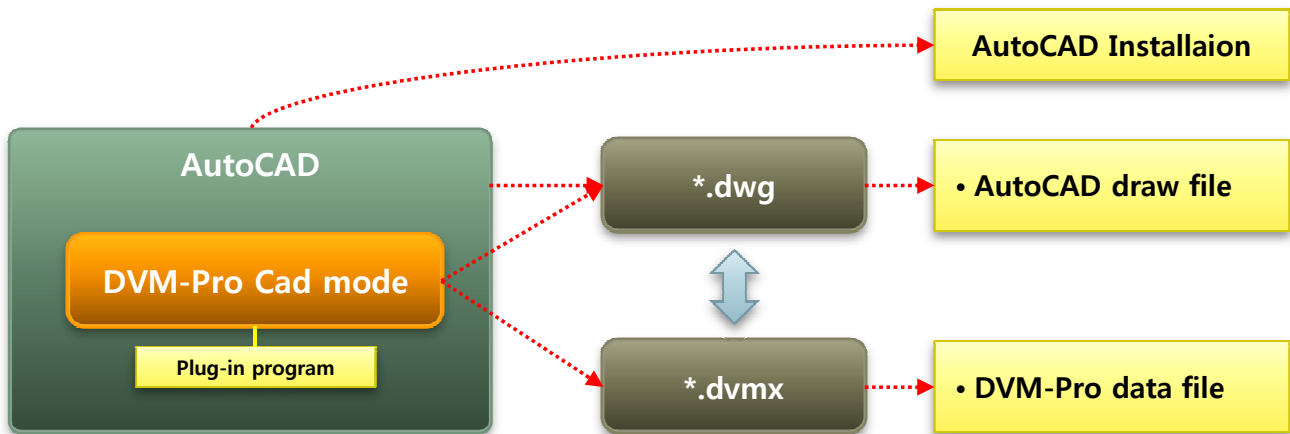
Current system information

Update system information

02 | Cad mode outline

02 | 13

- DVM-Pro Cad mode is AutoCAD plug-in program. Auto cad must be installed to use DVM-Pro cad mode
- Designed by the cad mode, data is saved two forms(*.dwg,*.dvm).
- *.dwg is drawing file in the cad program.
- *.dvmx is DB file such as all of In/Outdoor, distribution kit, Capacity Calculation, piping check in drawing files for the design of air conditioning systems.
- One project have two forms file. And the two files data is linked.
- When you open the DVM-Pro, Open the *.dwg file from Drawing connection icon as *.dvmx file are automatically generated at the same time of open the DVM-Pro.



※ Notice

- Instructions on how to use the Cad mode
 - Enable/disable command list (When you use AutoCAD command, it may not work properly in Cad mode. because, DVM-Pro cad mode is plug-in program)

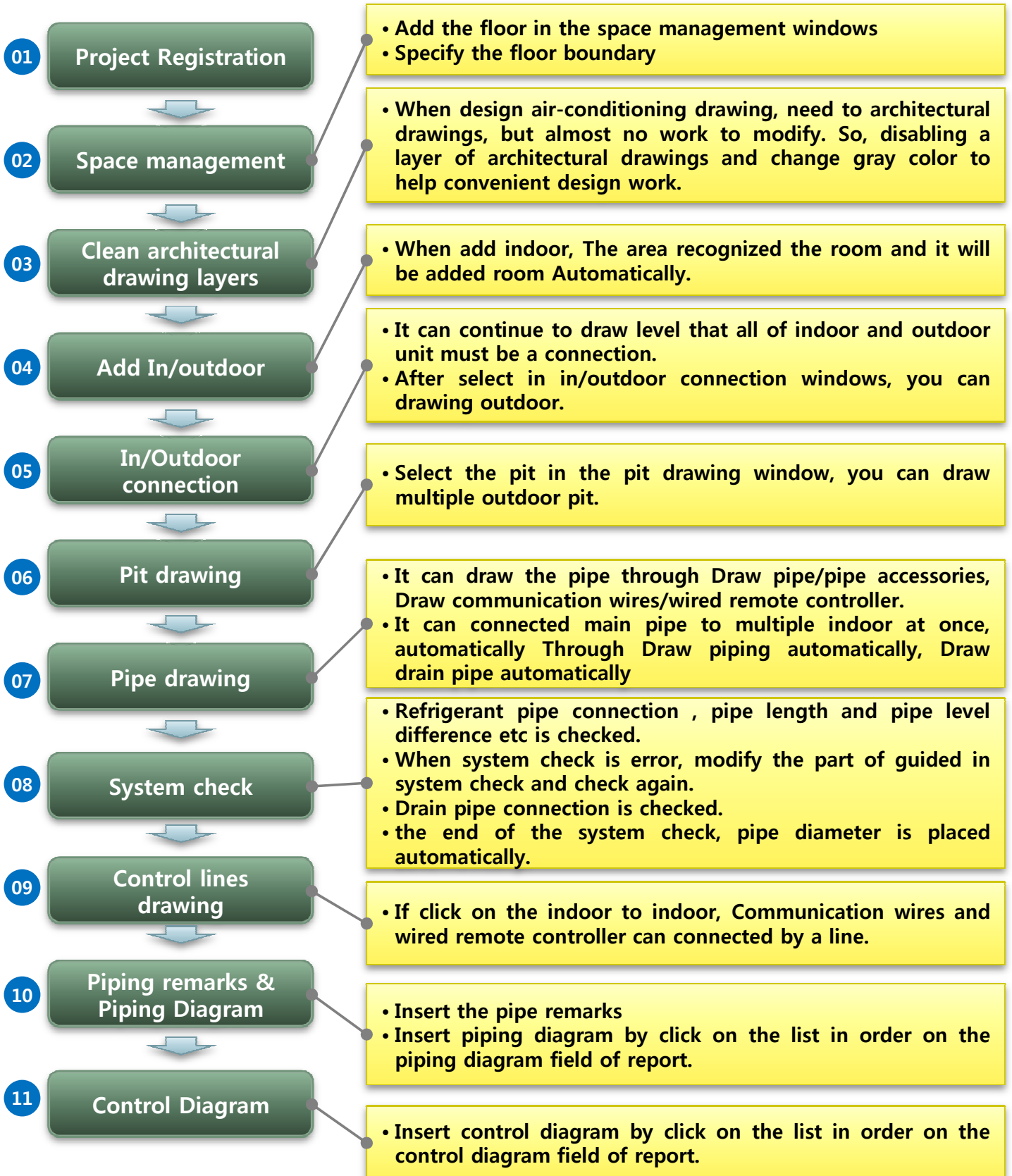
Function	Enable/disable	Indoor	Outdoor	Piping, Pipe fittings, distributor kit etc.
Insert	Enable	Dvm command : Add/Copy indoor CAD command : Copy , Array, Mirror	Dvm command: draw outdoor	All of command available
	Disable	CAD command : Insert , Undo, Redo	CAD command : Disable	
Delete	Enable	Dvm command : Delete indoor CAD command: Erase, Delete, Undo, Red	Dvm command: Delete indoor CAD command: Erase, Undo, Redo	

- One drawing file is One building at the time of design in DVM-Pro cad mode.
- When design in DVM-Pro cad mode, if you change the layer, *.dvm connection may be lost.

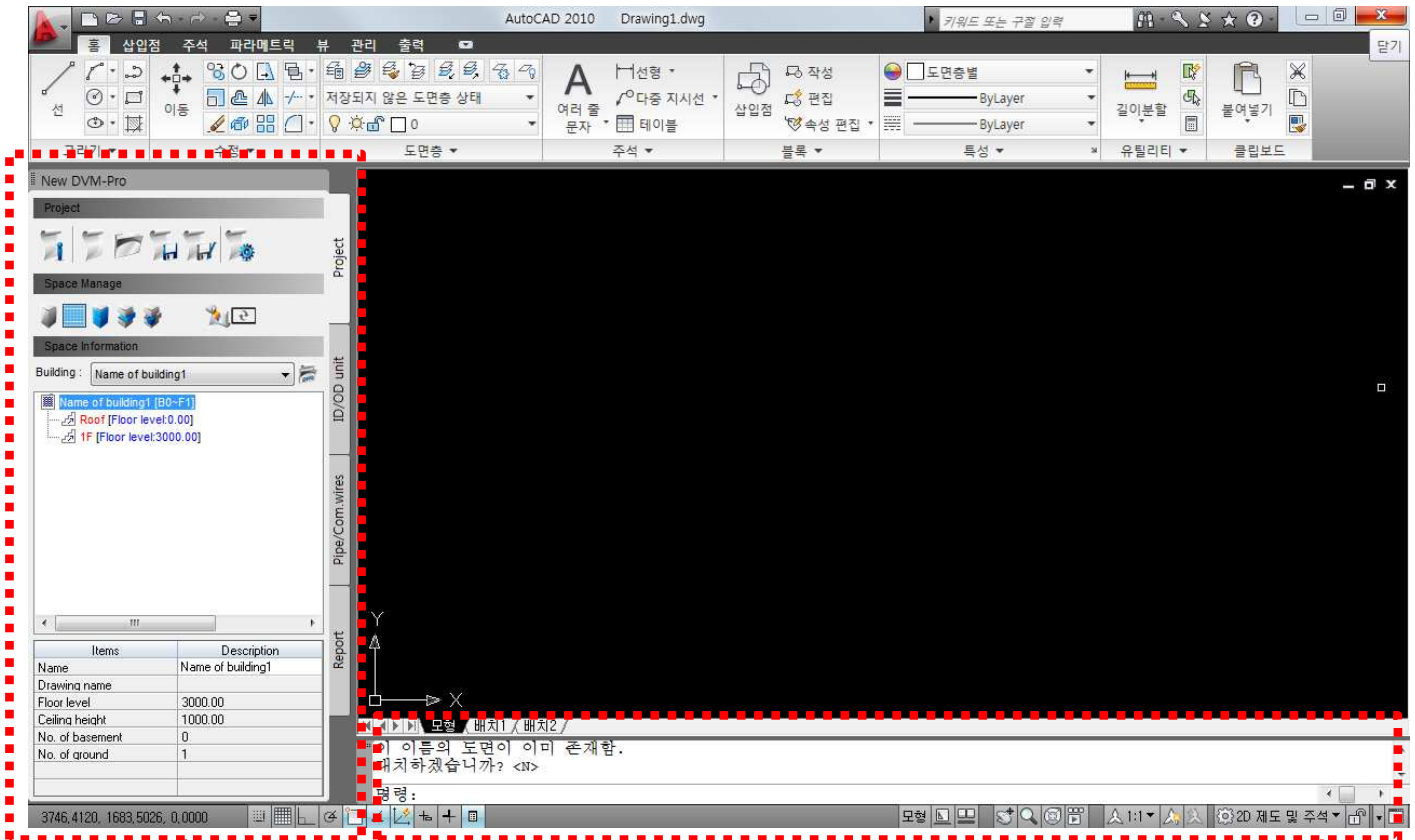
03 | Cad mode Procedure for using

Explain

This is cad mode procedure for using when design the new project. This procedure is not included modify procedure.



04 | Cad mode interface



DVM-Pro Menu

- It used in DVM-Pro cad mode
- It can control all progress functions in DVM-Pro cad mode
- It made in a palette form of Auto cad

AutoCAD command

- Built in Auto cad interface
- More options for running the command information can be checked in cad mode.

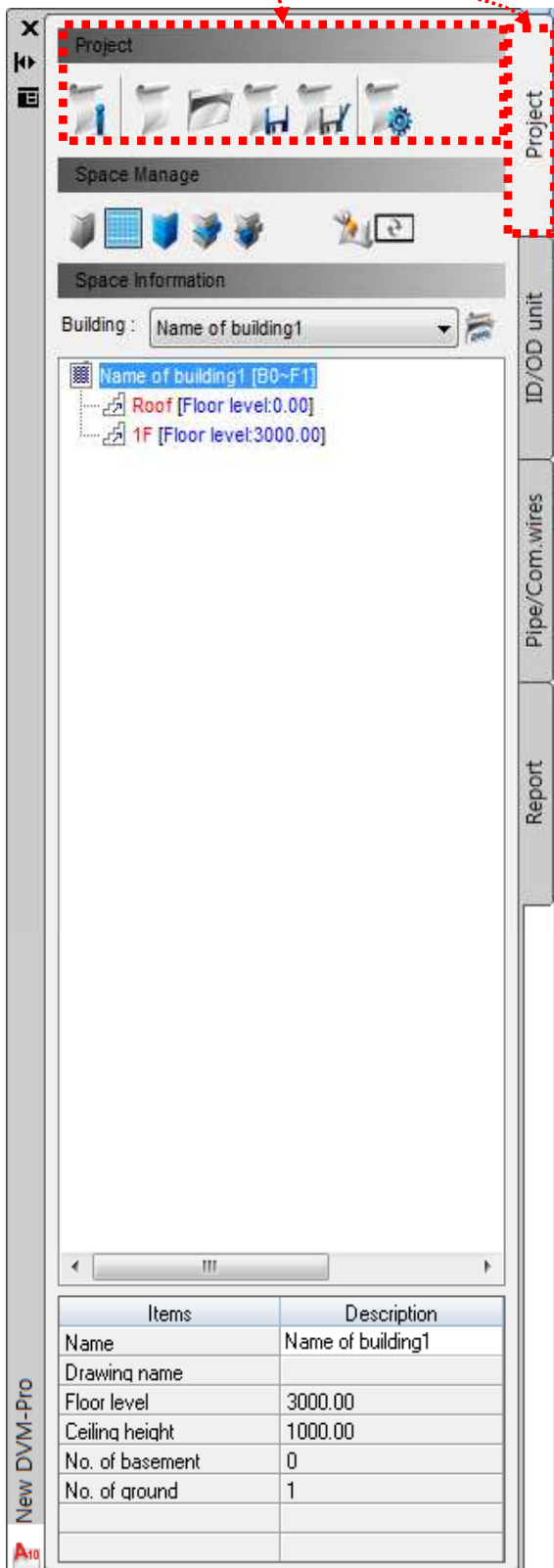
04 | Cad mode interface

Project

Explain

Possible to create the new project and start the project in cad mode palette.

New Project/Management Menu



- View and modify the project information
 - Possible to modify and view the project name, customer information, architect information in the 'modify the project information' window
 - Possible to view save path.
 - It can select the local temperature. It can be designed exact temperature for the region.

- New project
 - It create a new project menu. It can enter the project information from same 'project information window'.

- Open project
 - Select the existing project files and open menu, when open the *.dvmx file, open the linked *.dwg file automatically.

- Save project
 - Save the current project.

- Save as the current project
 - Save the current project with a different name
 - If this saved same path, original *.dwg file may be lost. It should be save new folder.

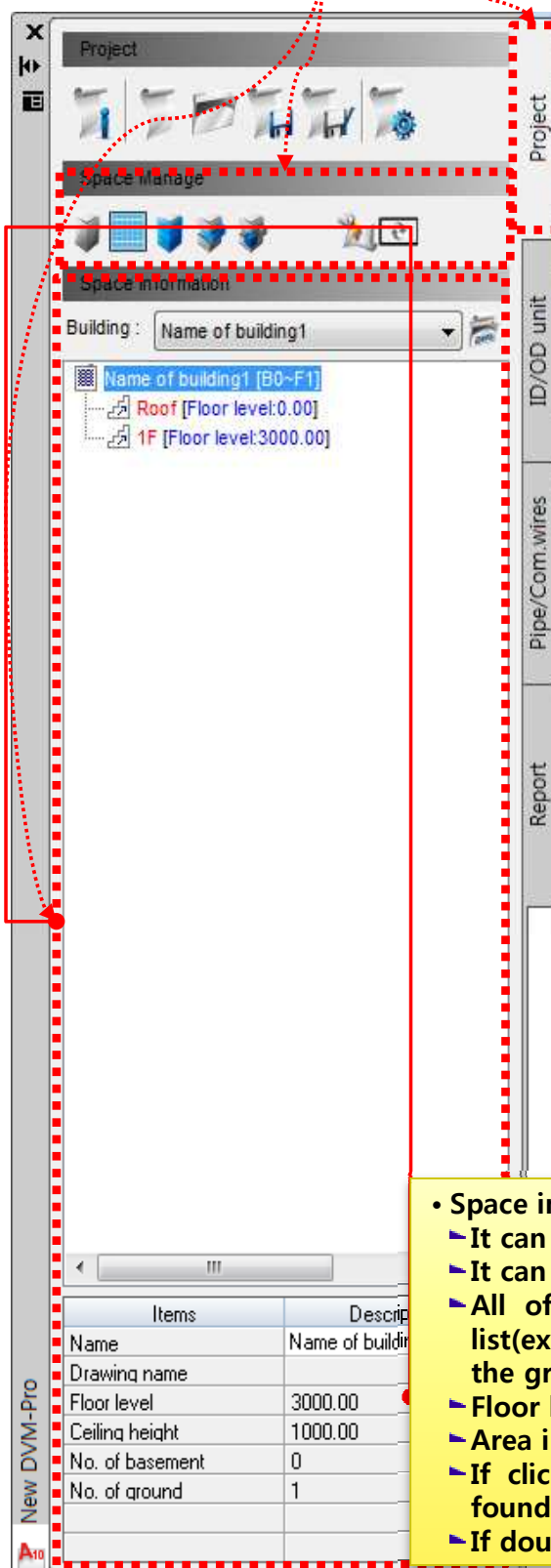
- Preferences
 - Set the detail using menu

04 | Cad mode interface

Project (Space management)

Explain

It can register and start a new project when using command palette of cad mode.



Space management menu

Project

Space Manage

Space Information

Building : Name of building1

- Name of building1 [B0~F1]
- Roof [Floor level:0.00]
- 1F [Floor level:3000.00]

ID/OD unit

Pipe/Com.wires

Report

Items	Description
Name	Name of building
Drawing name	
Floor level	3000.00
Ceiling height	1000.00
No. of basement	0
No. of ground	1

New DVM-Pro

- Space management
 - Enter the building name.
 - It can create/modify the each floor, floor height, distance between ceiling.
 - It can create/modify the room which get into indoor .
 - It can upload the Excel file which include building, floor, room information.
- Select the building's drawing
 - Select the corresponding drawing of the selected building.
- Floor area select batch
 - Select the floor area continuously.
 - It's progress First floor in order to roof floor. First floor of the specified zoning box is intended to specify the upper floors by clicking.
- Floor area individual selection
 - Select the floor area.
- Room zoning
 - If add the room in information, it is connected to drawing.
- Architectural drawing background processing
 - Change the architectural drawing color in gray and lock layer
- Renewal
 - Renewal the space information.
- Space information list
 - It can select the building.
 - It can view floor, room information of building.
 - All of the floor information displayed Next to the building list(ex. B0~F1) 'B'is the basement, '0'is basement floors, 'F' is the ground, '1'is the ground floors.
 - Floor level displayed next to the floor list.
 - Area information displayed next to the room list.
 - If click each building, floor, room, More information can be found below.
 - If double click each floor and room, The drawing is zoom-in.

04 | Cad mode interface

In/Outdoor - 1

Explain

This interface is possible to create and manage the in/outdoor.



• Add indoor unit

- ▶ After specify the area, 'add indoor unit window' is open.
 - If the room area already designated, 'enter' key no need to specify the area as it's open a window directly.
- ▶ Possible to create & view indoor information such as room name, area, unit load per area, indoor number in 'Add indoor unit' window.
- ▶ It have three menu (Indoor name, family, type) to choose indoor model.
- ▶ Indoor spec displayed indoor information box.
- ▶ Placed indoor unit in a variety of ways.

• Draw outdoor unit

- ▶ a. After selected the indoor unit which connected to outdoor unit, 'add outdoor unit' window open.
- ▶ b. Select the combination ratio, outdoor type, outdoor name, by the outdoor group, series.
- ▶ c. outdoor combination ratio is list-up within the above conditions. And image, drawing, outdoor spec is displayed.
- ▶ d. connection possible or impossible of indoor model information is displayed indoor information box. It's displayed in blue, red, each. Also, possible to add, remove or connection impossible of the indoor remove about this indoor unit.
- ▶ e. After select outdoor from a list, select the detail menu from command box and insert it.
- ▶ f. if you delete the outdoor unit, it's automatically turned off between the indoor.

• Add ERV

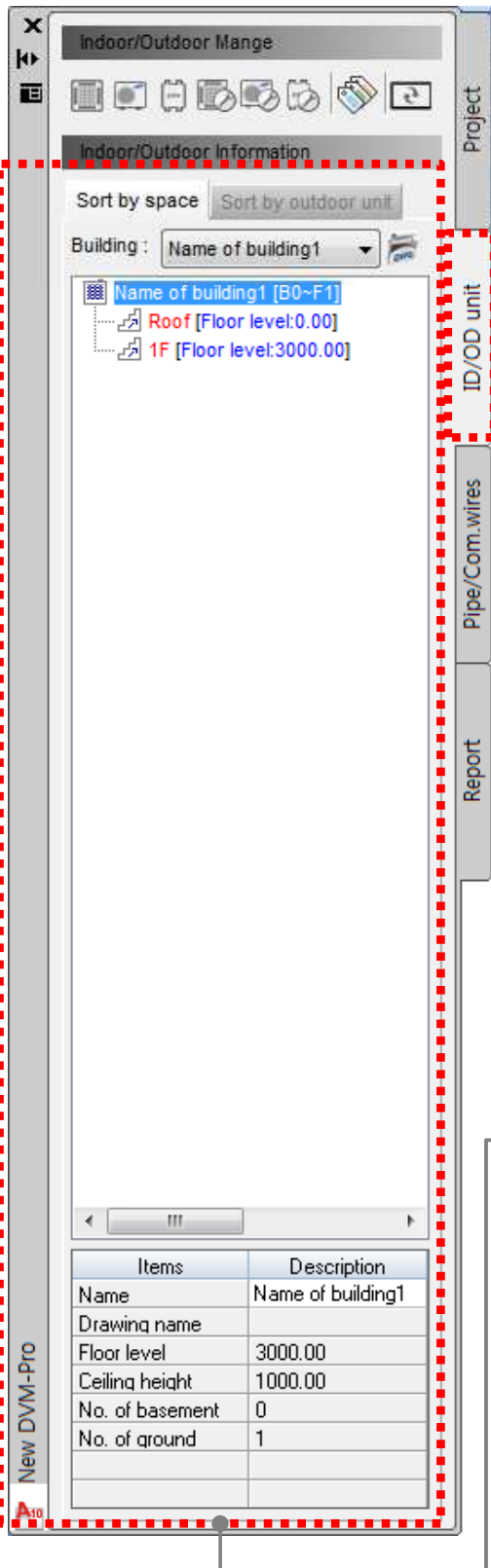
- ▶ After specify the area, 'add ERV unit' window is open.
 - If the room area already designated, 'enter' key no need to specify the area as it's open a window directly.
- ▶ Possible to check the number of ERV through ventilation requirements, time, personnel information.
- ▶ If click each ERV indoor, More information can be found below.

04 | Cad mode interface

In/Outdoor - 2

explain

This interface is possible to create and manage in/outdoor



- Modify the indoor, ERV indoor, outdoor.
 - Possible to modify the each unit.

- Select the accessories
 - Possible to set the indoor and outdoor accessories.

- Renewal
 - Space information renew as recently.
 - You don't need to this menu every time. Space information renew automatically. But if it no work, you can renew by this menu.

- Space information list of in/outdoor
 - Possible to check each building, floor, room location information and unit location information.
 - It's same the project tab information that displayed next to building, floor, room information and model name is displayed next to in/outdoor list.
 - If click each building, floor, room, More information can be found below.
 - If double click each floor and room, The drawing is zoom-in.

04 | Cad mode interface

Piping/control line

Explain

This interface is possible to create and manage piping/control line.

The screenshot displays the software interface for creating and managing piping/control lines. The interface is divided into several sections: 'Piping/Piping accessories', 'Refnet Joint', 'System check (Piping) [SCP]', 'Draw drain pipe', 'System check (Drainage) [SCD]', 'Draw piping annotation', and 'Communication wires/wired remote control'. The 'Piping/Piping accessories' section is the primary focus, listing various tools for drawing pipes, pits, and accessories. The 'Draw drain pipe' section includes tools for manual and automatic drawing of drain pipes, as well as drawing drain tees, caps, and dewatering outlets. The 'System check (Piping) [SCP]' and 'System check (Drainage) [SCD]' sections provide system validation options. The 'Draw piping annotation' section includes tools for drawing annotations for pipes, drain pipes, pits, and changing their direction. The 'Communication wires/wired remote control' section includes tools for drawing communication wires and wired remote controllers. The interface also features a 'Project' panel on the right side, which is used for managing the project data.

Project

- Draw piping manually [DPW]
- Draw piping automatically [DPA]
- Draw pit [DPD]
- Change the order of pit [DPO]

ID/OD unit

- Refnet Joint
- Refnet Header
- Distributor Kit
- Mode Change Unit

Pipe/Com.wires

- System check (Piping) [SCP]
- Draw drain pipe manually [DDD]
- Draw drain pipe automatically [DDA]
- Draw drain T [DDT]
- Draw drain CAP [DDC]
- Draw dewatering outlets [DDH]
- Draw vertical dewatering outlets [DDP]
- System check (Drainage) [SCD]
- Draw piping annotation [DPM]
- Draw drain pipe annotation [DDM]
- Draw pit annotation [DTM]
- Change the annotation's direction [CDM]
- Delete annotations [ERM]
- Draw remarks [DML]

Report

- Communication wires/wired remote control
- Draw communication wires [DTR]
- Draw wired remote controller [DRM]

Callouts:

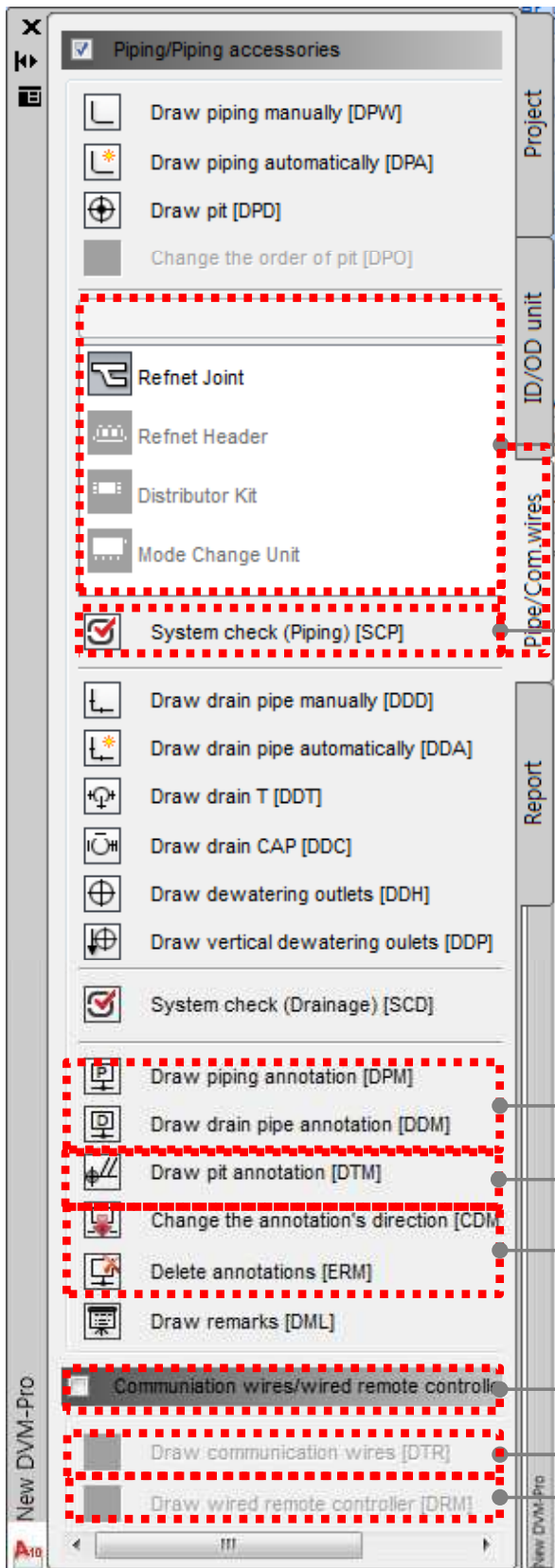
- Draw piping manually
 - When connect pipe using refnet joint,
- Draw piping automatically
 - After Select the main pipe which drawn and select the indoor which will connect, than enter, indoor will automatically connect to main pipe.
- Draw pit
 - Select and check the deployment method of outdoor pit in 'draw pit' window. And click the insertion point, and then copy to each floor.
- Draw drain pipe manually
- Draw drain pipe automatically
 - After draw the main pipe, select the indoor which will connect and click enter key. Then indoor will connect the main pipe.
- Insert the each pipe accessories on pipe.
 - If pipe accessories(refnet joint, Tee joint) connected the pipe, pipe automatically disconnect where the accessories enters.
 - If you delete the pipe accessories which connect the pipe, pipe connect again.
- Draw vertical dewatering outlets
 - Select and check the deployment method of outdoor pit in 'draw vertical dewatering outlets' window. And click the insertion point, and then copy to each floor.

04 | Cad mode interface

Piping/control line

Explain

This interface is possible to create and manage the piping/control line.



• Pipe accessories

- a. when select the outdoor unit, accessories activation that connectable.

• System check

- Check the status of the design drawings and present the problem. It make users to modify it.
- System check can determine the suitability of design and can be minimized design errors by user.

• Draw piping and drain annotation/change the annotation's direction.

- After finished the system check, piping annotation draw to center of each pipe with a choice of all/zoning option.
- If use the change the annotation's direction menu and click the piping annotation, it will change.

• Draw pit annotation

- After select the direction of pit and click the enter key, annotation pit inserted.

• Communication wires & controller

- If you select this, you can show only communication wires & controller layers.

• Draw communication wires

- Drawing from the pit or free space, then click indoor and next indoor. When selection finished, click the enter key.

• Draw wired remote controller manually

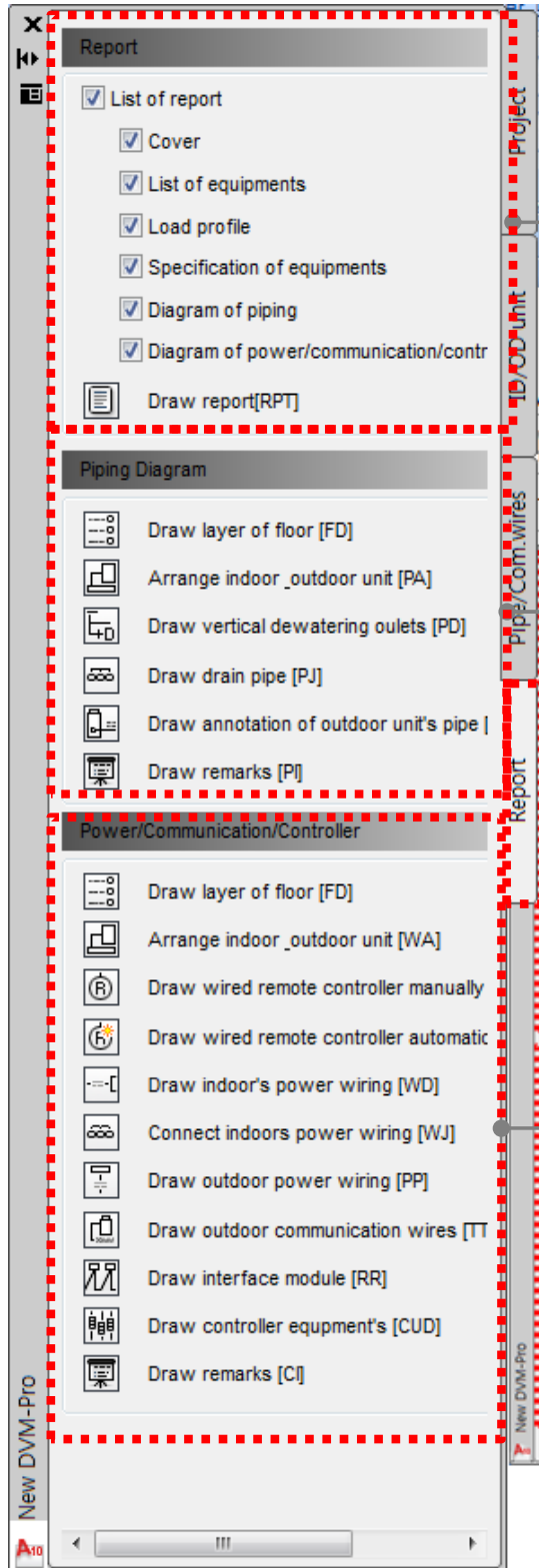
- Clicking from the indoor, then when selection finished, click the remote location and enter key. When this finished, remote control icon will insert.

04 | Cad mode interface

Report

Explain

This interface is possible to create and manage the piping/control line.



- **Report**
 - ▶ Select the report list and insert the report in drawing.

- **Pipe diagram**
 - ▶ Insert the pipe diagram in order to the list of pipe diagram menu.
 - Draw layer of floor
 - Arrange indoor & outdoor unit
 - Draw vertical dewatering outlets
 - Draw drain pipe
 - Draw annotation of outdoor unit's pipe
 - Draw remarks

- **Power/communication/controller diagram**
 - ▶ Insert the power/communication/controller diagram in order to the list of diagram menu.
 - Draw layer of floor
 - Arrange indoor & outdoor unit
 - Draw wired remote controller manually
 - Draw indoor's power wiring
 - Draw outdoor's power wiring
 - draw outdoor's communication
 - Draw interface module
 - Draw unit of controller solution
 - Draw remarks

05 Step-by-step description of the design

(1) Project registration

**• project info.
• Check and edit.**

01 **01-1**

02

• Assignment (drawing file)

• Select open method the drawing

**• New project
• It can create new *.dvm file.
• When select the icon, asks whether to save as when you open the DVM-Pro program, *.dvm new file is already open.**

• All open drawing is display in this window. And if you choose one, that one is open and connect.

• Open where architectural drawing select window.

• Actice drawing of all open drawing is connect the project building.

**도면 파일 지정
열려있는 도면으로 지정
현재 활성화된 도면으로 지정**

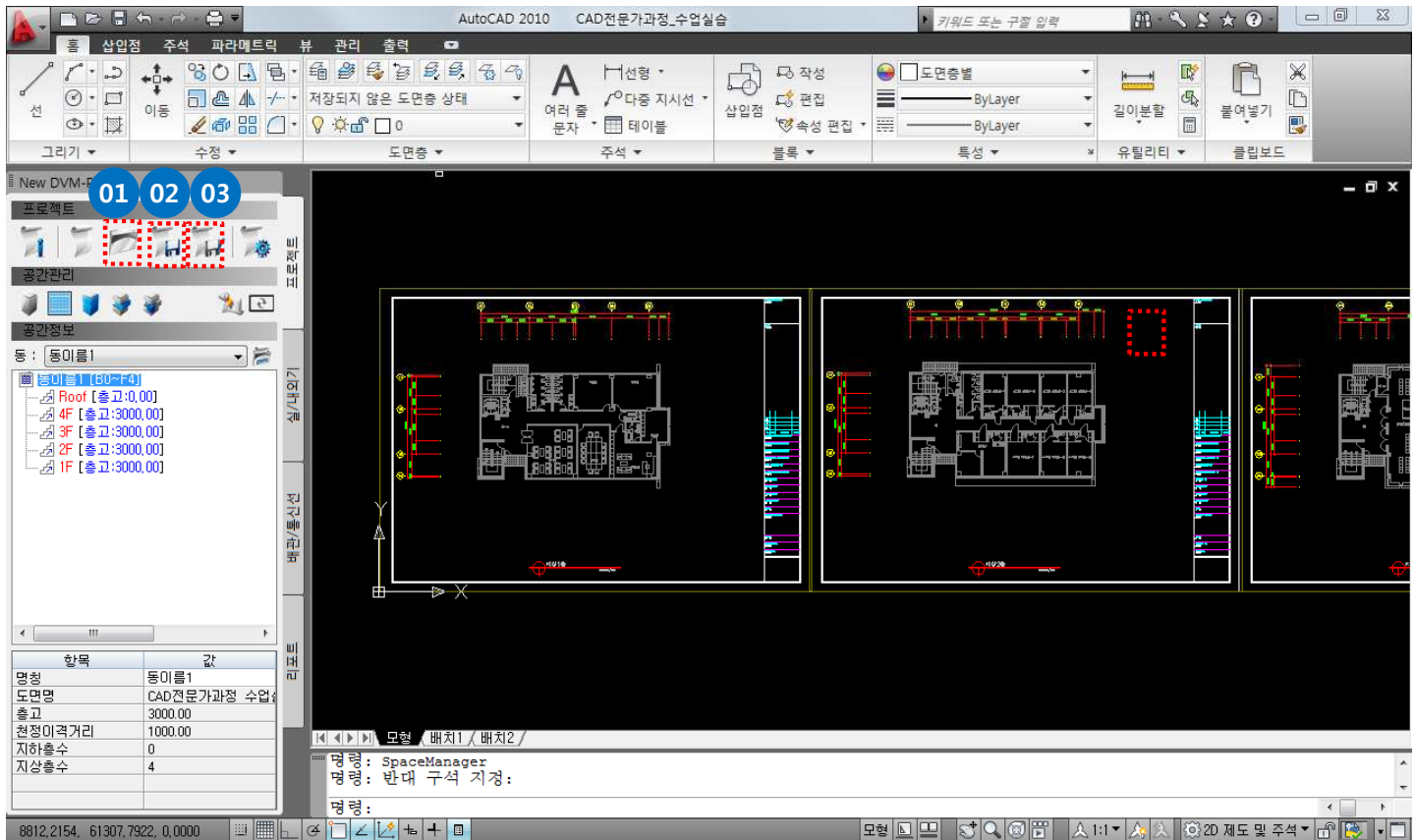
도면 선택 - [동 이름: 동 이름1]

도면 열기 - [동 이름: 동 이름1]

도면 열기 - [동 이름: 동 이름1]

05 Step-by-step description of the design

(1) Project register and save



01. Open the project

- when DVM and DWG file is saved same folder and you open the DVM file, DWG file open automatically. If it's saved no same folder and you open the DVM file, DWG file no open. So you should use Assignment(drawing file) menu to open the DWG file.

02. Save the project

save the new project first time : when specify the path to the DVM file and save, DWG file save same path with DVM file from the original position.

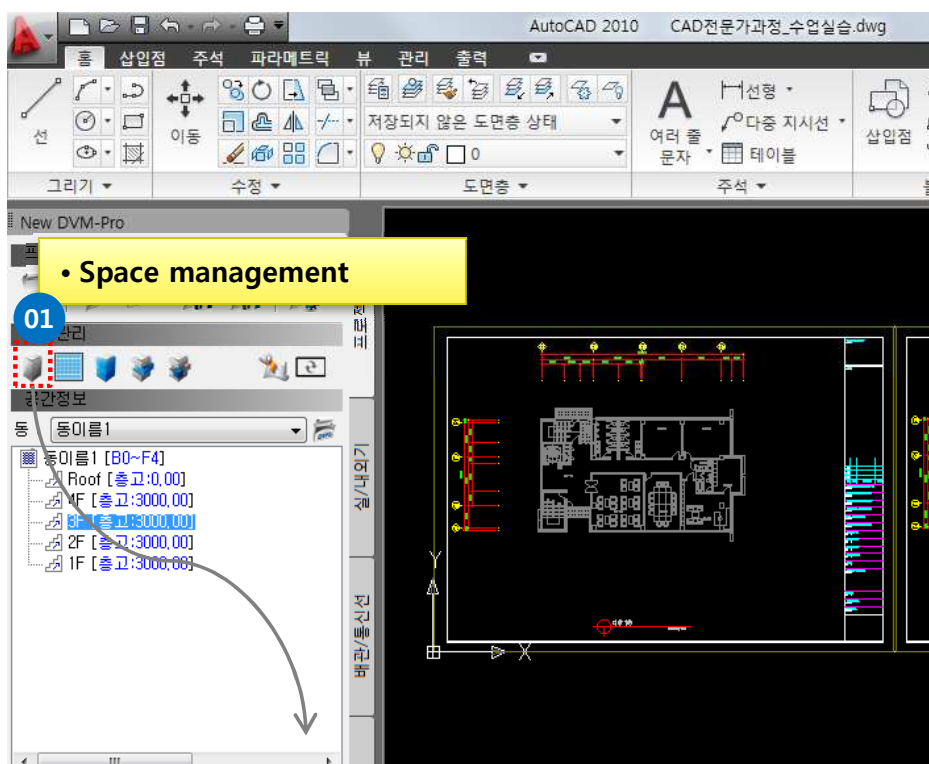
*if you save in same folder which saved recently, open DWG file path is same save path so DWG file will be over written. Then original file may be missing.

save after saved : it save same path and over written.

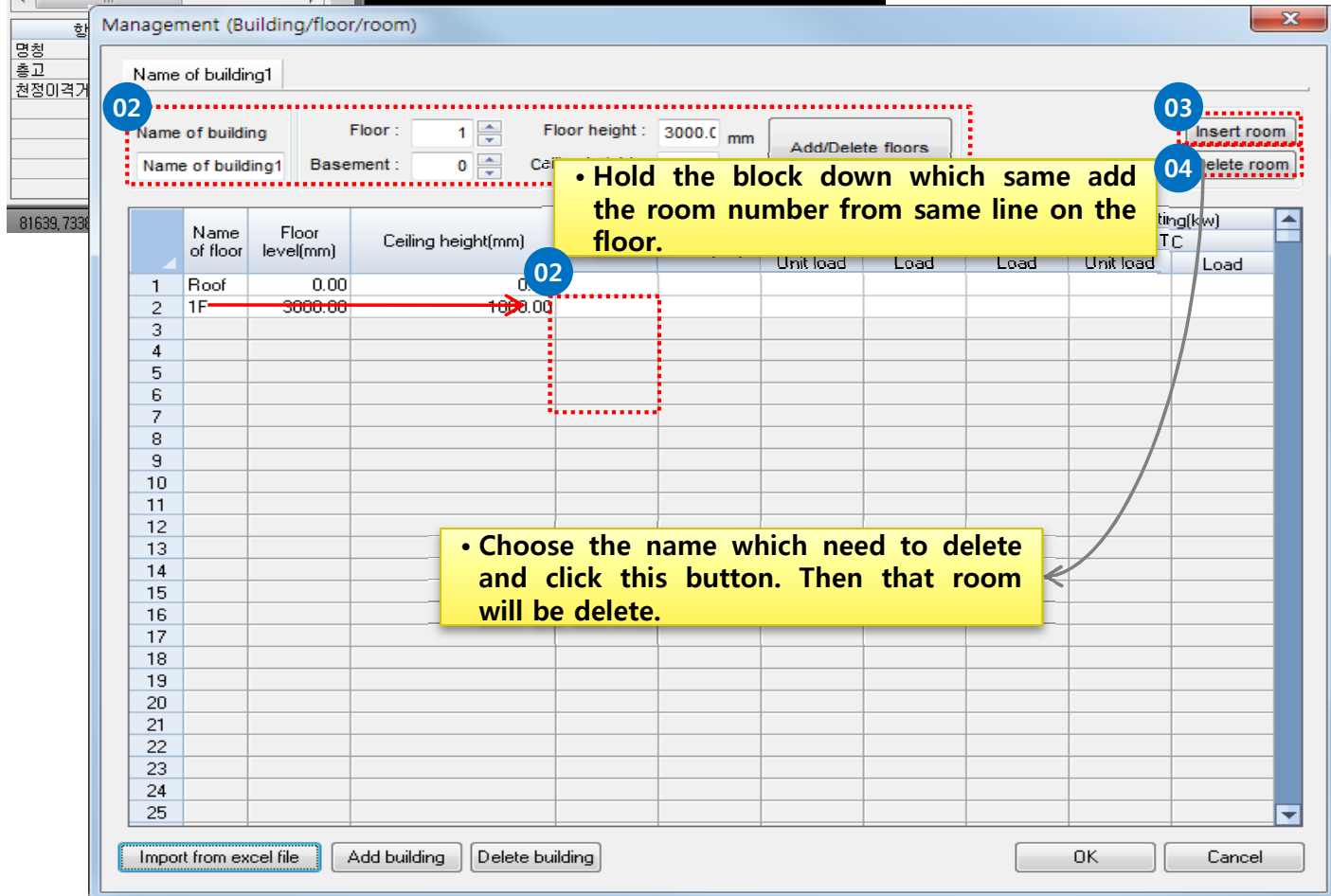
03. Save as project

this menu is save again in other path.

05 Step-by-step description of the design (1) Management (building/floor/room)



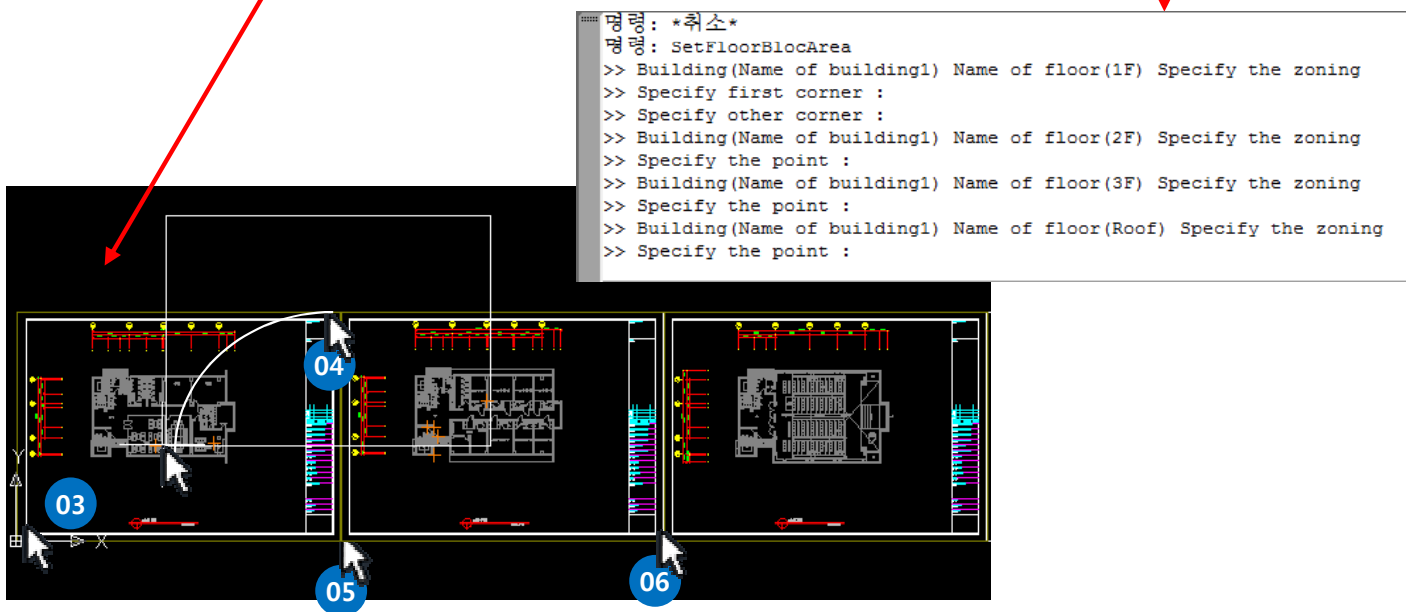
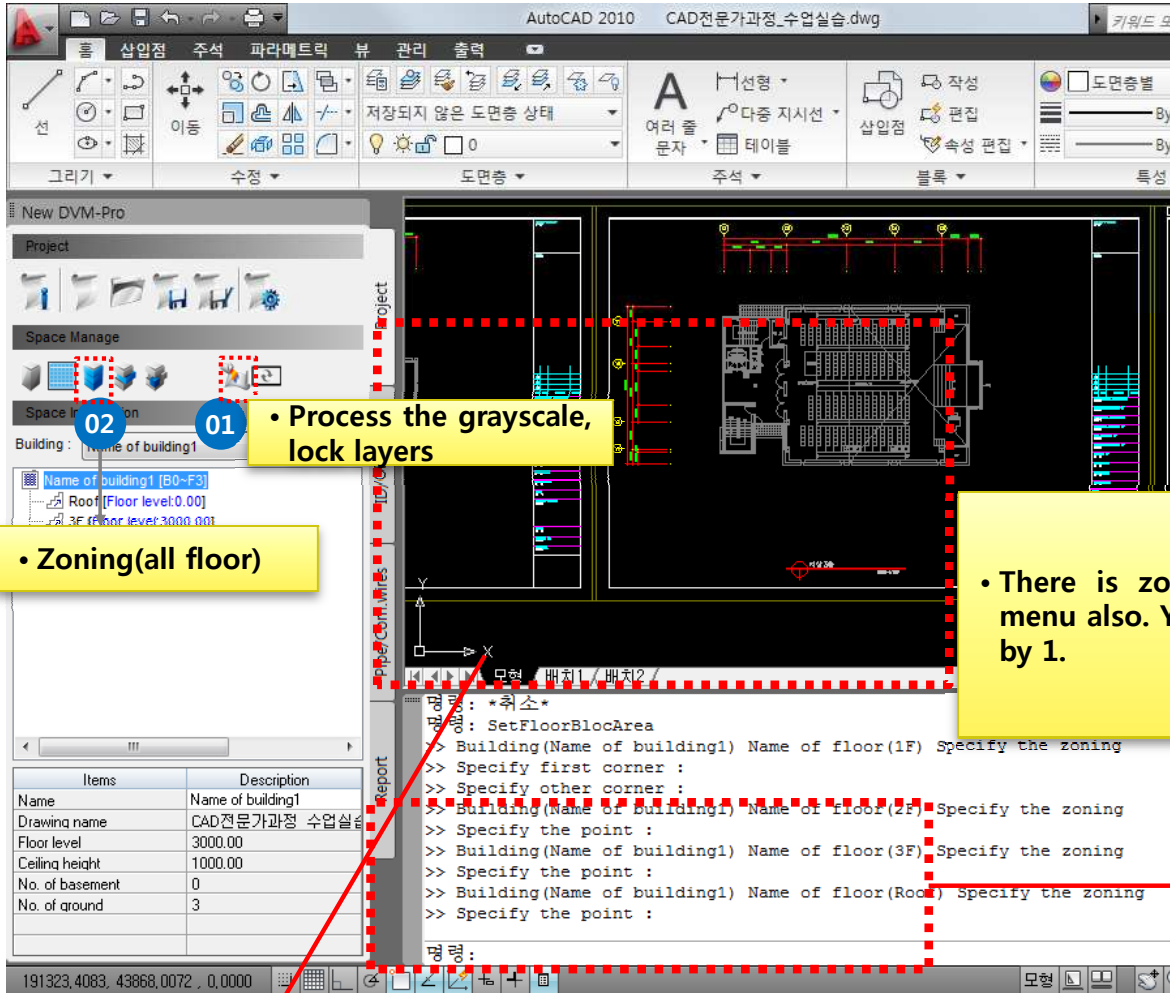
• Method of add room
 - There is pre-and enter all of room information in management (room area, unit load per area etc) proceed and add the room when add the indoor. And if you want to delete the room, you should delete in only space management window.



• Hold the block down which same add the room number from same line on the floor.

• Choose the name which need to delete and click this button. Then that room will be delete.

05 Step-by-step description of the design (3) Process the grayscale, lock layers



05 | Step-by-step description of the design

(4) Add in/outdoor-1

Explain

When you add the indoor, you can add the room. In/outdoor information and room area is displayed interface left side and room information will be utilized by after reports.

01 Indoor/Outdoor information

02 • Zoning(room)

03

04 • Enter the indoor unit and room information

05

06 Draw

Room Info

Room name :	kw	Cooling	Heating	kw	Cooling		Heating
Area(CAD) : 38.21 m2	Area : 38.21 m2	Unit load	0.18	0.00	TC	SHC	TC
					6.88	0.00	0.00

List of indoor units

Model name(ID)	Q'ty	Cooling TC	Heating SHC	Heating TC	Sales status
1 NS0604DxB1	2	6.00	7.20	ON SALE	
2 NS0604PxB1	2	6.00	7.20	ON SALE	
3 NS0723PxB1	2	7.20	8.60	ON SALE	
4 NS0604DxB1	1	7.20	8.60	ON SALE	
5 NS0604PxB1	1	7.20	0.00	ON SALE	
6 NS0723PxB1	1	8.30	0.00	ON SALE	
7 NS0604DxB1	1	9.00	11.00	ON SALE	
8 NS0604PxB1	1	9.00	11.00	ON SALE	
9 NS0604DxB1	1	10.00	12.00	ON SALE	
10 NS0604PxB1	1	10.00	12.00	ON SALE	

Indoor unit's Info.

Sep	Items	Unit	NS0604DxB1
Capacity	Cooling	kw	6.00
	Heating	kw	7.20
Airflow	High	cmm	15.70
	Mid	cmm	-
	Low	cmm	-
	ESP	mmaq	-
Pipe	Liquid	mm	6.35
	Gas	mm	15.88
Dimension	Size[WxHxD]	mm	840.0x204.0x310.0
	Weight	kg	15.50
Outdoor	Model name		RC060DHXB1
	Power supply(Φ,#,V,Hz)		1,2,220,60

When add the indoor, model name is different, depending on the model type. You should be designed to distinguish between model type and model type of each indoor unit can be connected only as outdoor.

- If Add the indoor unit in the same manner as above, room name connect the room area in drawing. Then indoor insert in that room area.

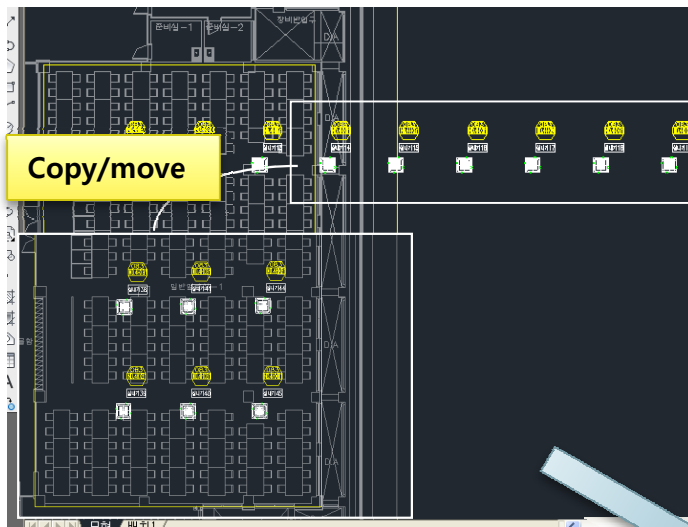
05 Step-by-step description of the design

(4) Add in/outdoor-2

Explain

The placement of the indoor unit method is three method (1) center 2) user deployment 3) copy) indoor unit and room can copy and it displayed "in/outdoor information' window in real-time

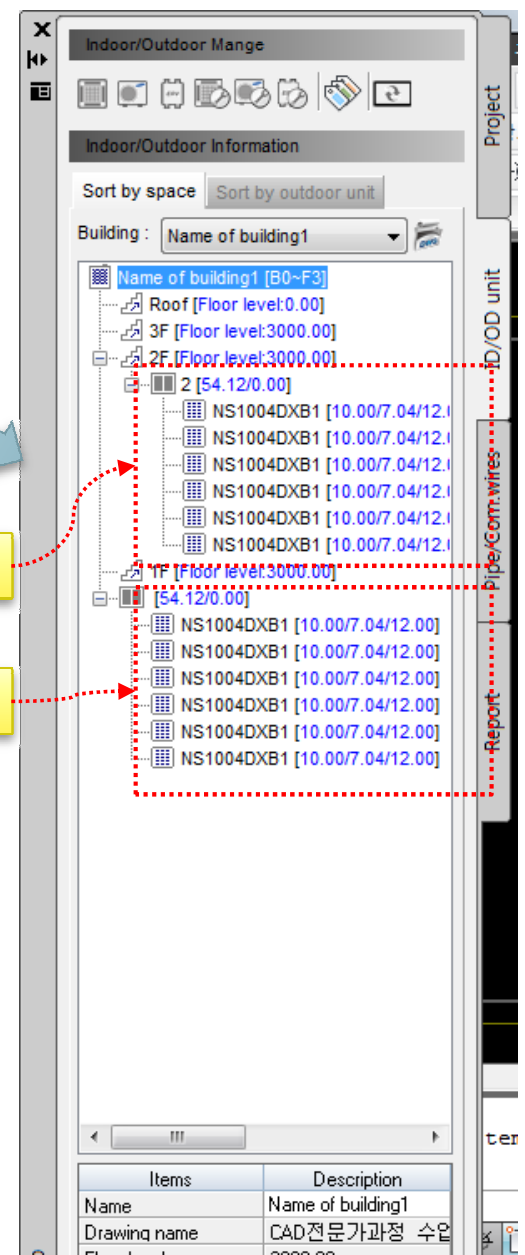
When insert the block, Ctrl key is redirect and Tab key is point conversion.



• Copy the indoor unit and room on the second floor

• Add the indoor unit on the first floor

- Add the CAC and FJM indoor unit
 - CAC, FJM can be added in the same method.
 - Wall mounted, stand type are insert 1 by 1. when insert the wall mounted indoor, attaches to the wall.
 - 1way cassette indoor insert 1 by 1. and after enter the distance from the wall, attaches to the wall.

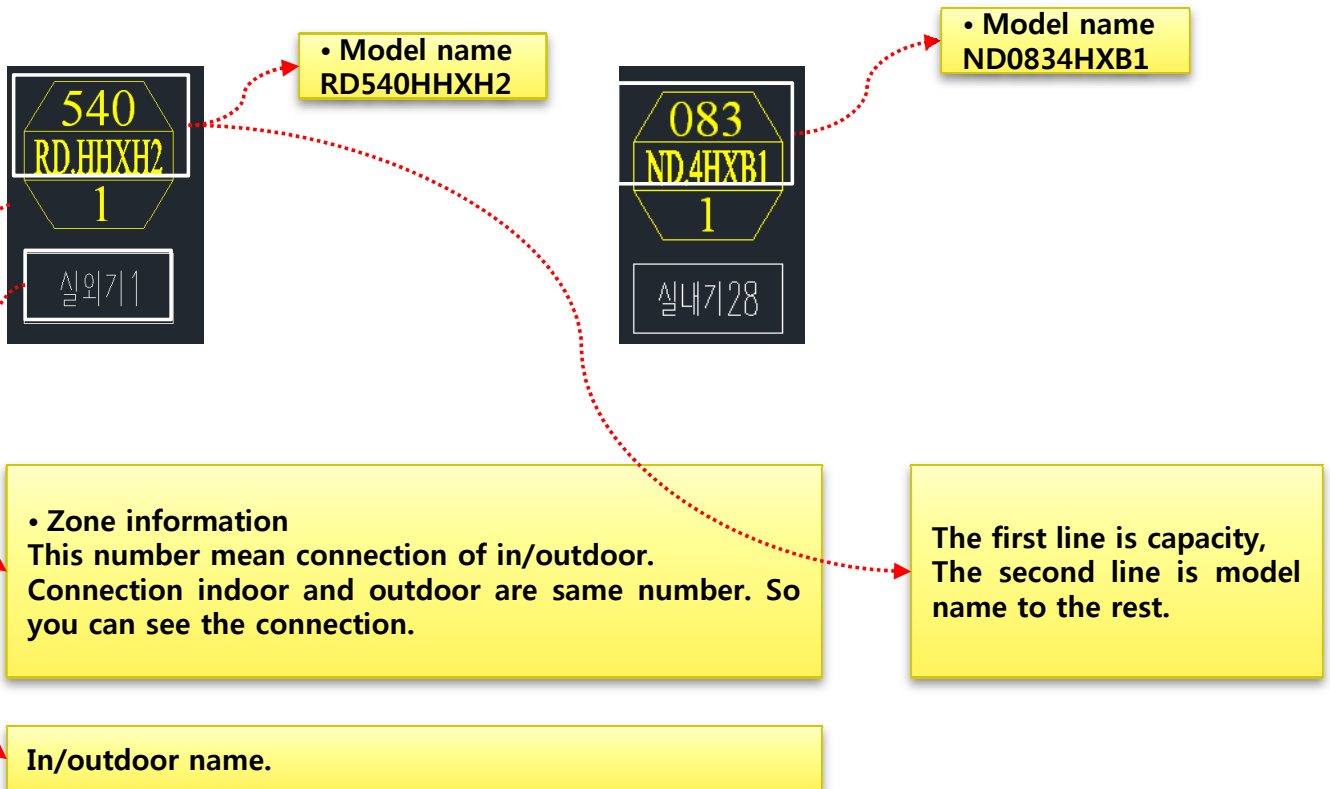


05 Step-by-step description of the design

(4) Add in/outdoor-3

Explain

This is explain of name block.

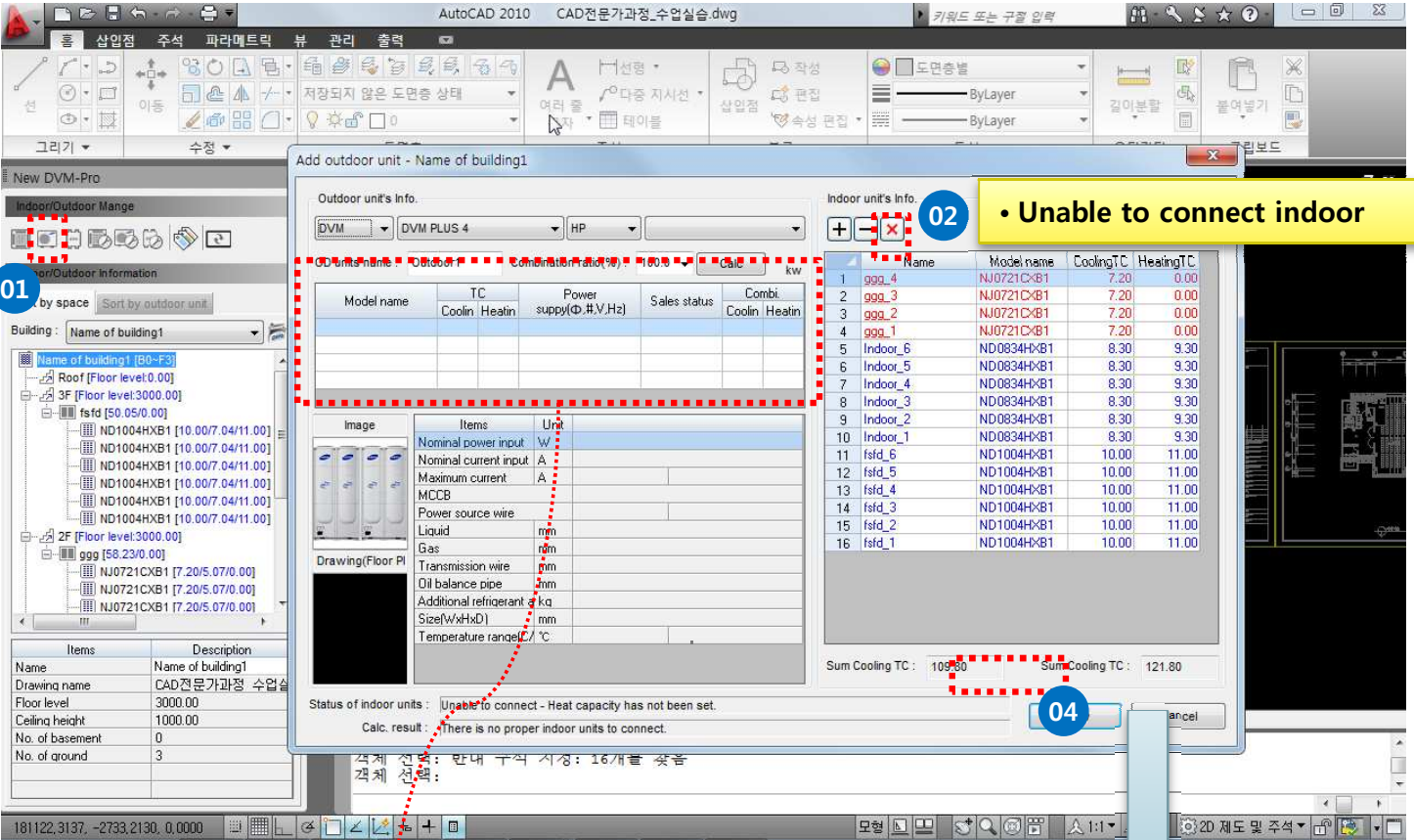


05 Step-by-step description of the design

(5) Connect in/outdoor-1

Explain

If you can continue to draw level, all of indoor connect the outdoor. And you can draw the outdoor after select in 'in/out connect' window.

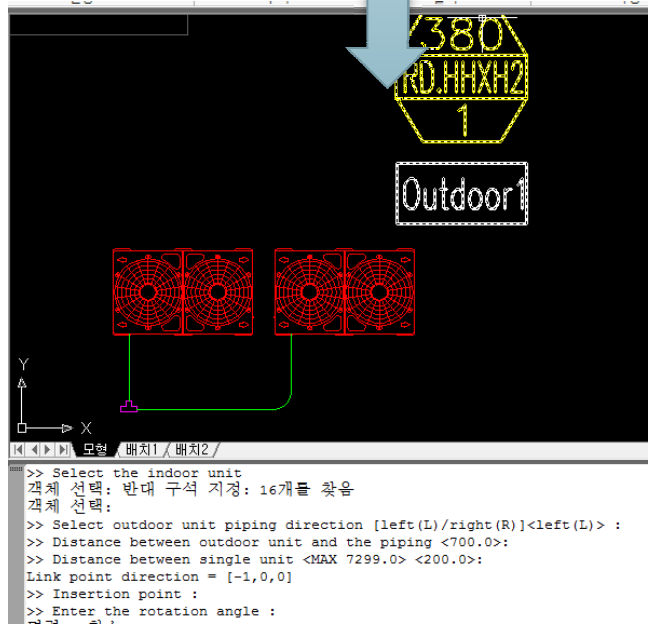


실외기 정보 07/16 21:35 HJH hwang ScreenHunter

DVM DVM PLUS 4 HP 표준형

실외기 이름 : 실외기1 조합률 상한(%) : 100.0 계산 kw

실외기 모델명	냉방TC	난방TC	정원사양(Φ#V.Hz)	조합률(%)
1 RD540HHXH2S	156.60	176.10	3,4,380.60	95.10
2 RD580HHXH2S	168.20	180.80	3,4,380.60	95.10
3 RD560HHXH2S	162.40	182.60	3,4,380.60	95.10
4 RD600HHXH2S	174.00	195.60	3,4,380.60	85.60



• Connect the FJM in/outdoor
 ▶ Connect the same method.

05 Step-by-step description of the design

(5) Connect in/outdoor-2

Explain

If you select the in/outdoor which will connect, In/outdoor connection of CAC is connect simply.

01 Outdoor Information

Sort by space Sort by outdoor unit

Building : Name of building1

Name of building1 [B0-F3]

- Roof [Floor level:0.00]
 - xxx [19.72/0.00]
 - NS0724PXB1 [7.20/5.07/8.60]
 - NS0724PXB1 [7.20/5.07/8.60]
 - NS0724PXB1 [7.20/5.07/8.60]
 - Outdoor2 [RC072PHXB1]
- 3F [Floor level:3000.00]
 - fsfd [50.05/0.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]
 - ND1004HXB1 [10.00/7.04/11.00]

Items	Description
Name	Name of building1
Drawing name	CAD전문가과정 수업실습
Floor level	3000.00
Ceiling height	1000.00
No. of basement	0
No. of ground	3

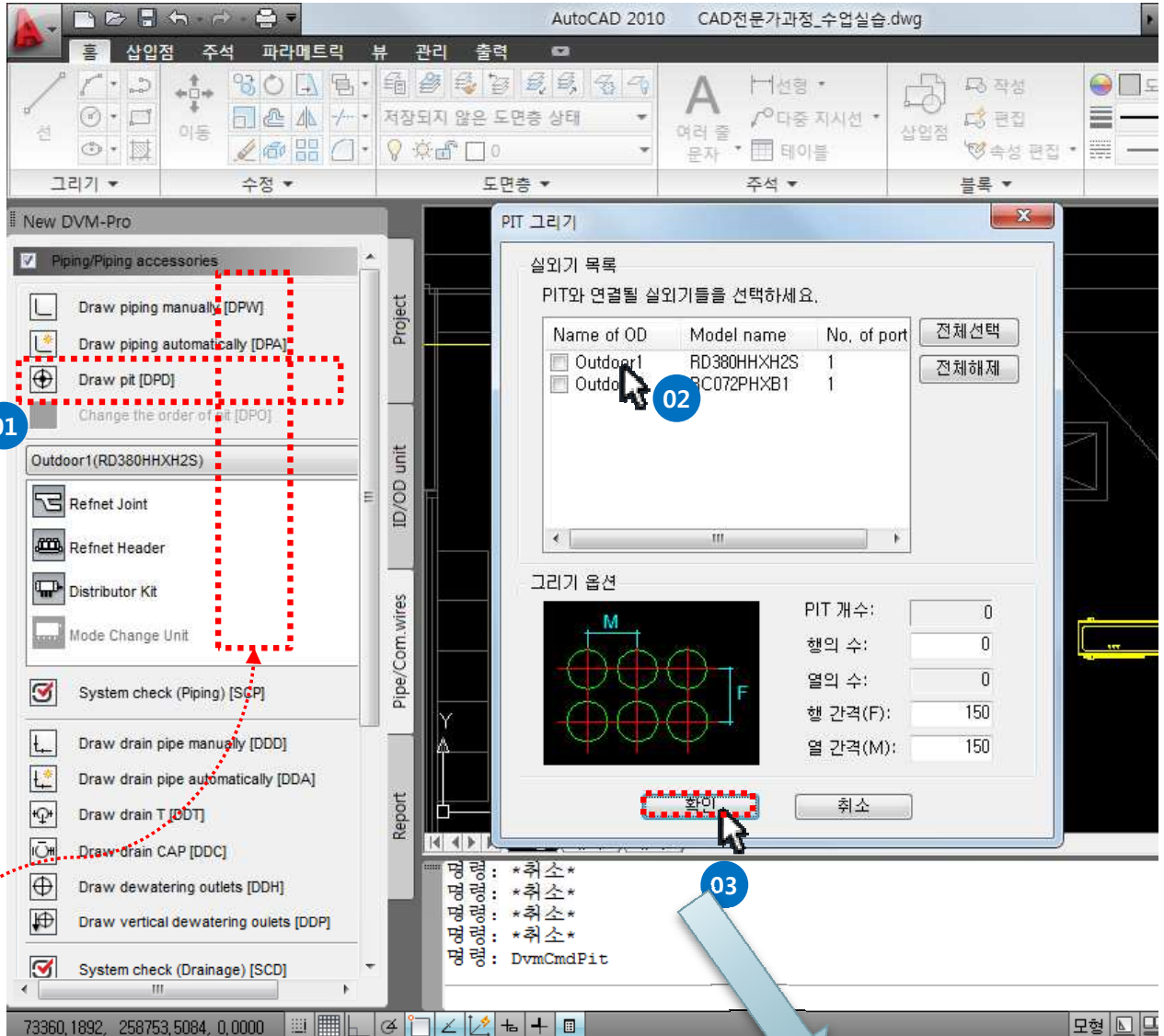
>> Select the indoor unit
 객체 선택: 1개를 찾음
 객체 선택:
 >> Insertion point :
 >> Enter the rotation angle :
 명령: *취소*
 명령:

05 Step-by-step description of the design

(6) Draw pit

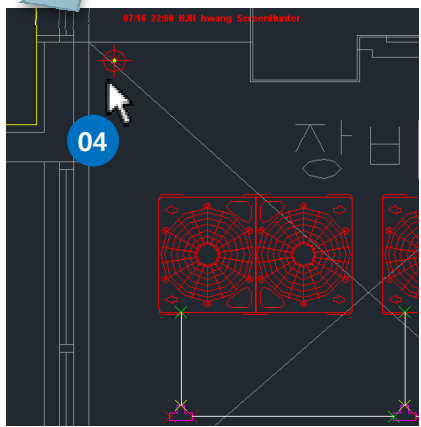
Explain

After setting the number of columns and line Pit, click on the location of the drawing. Pit draw by outdoor and if you put the mouse near the pit, you can see a connection outdoor image when you draw the piping.



• Speed command : you can execute the menu without click. When you enter this command, menu execute.

• Copy the pit where other floors.



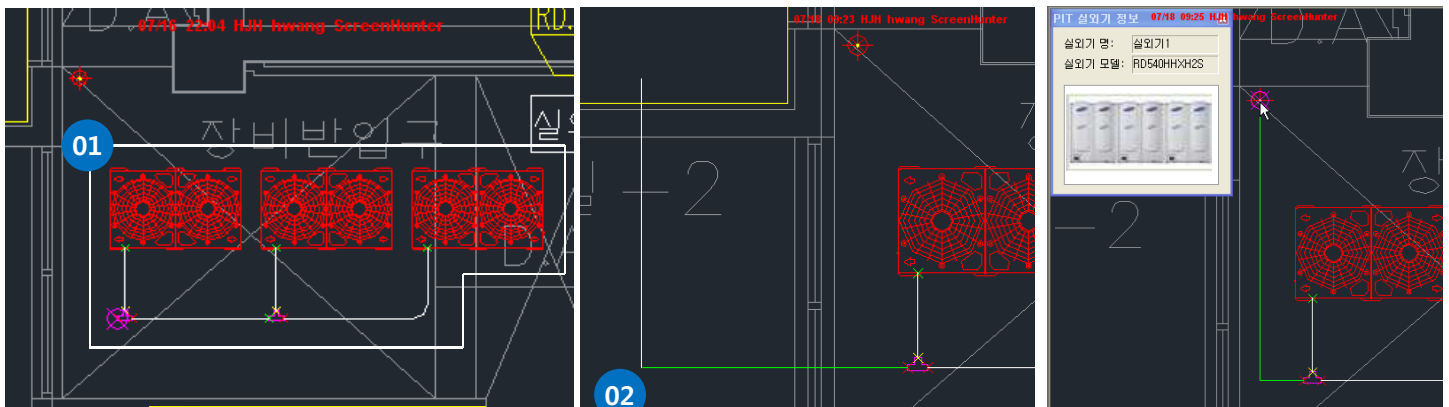
05 Step-by-step description of the design

(7) Draw piping-1

Explain

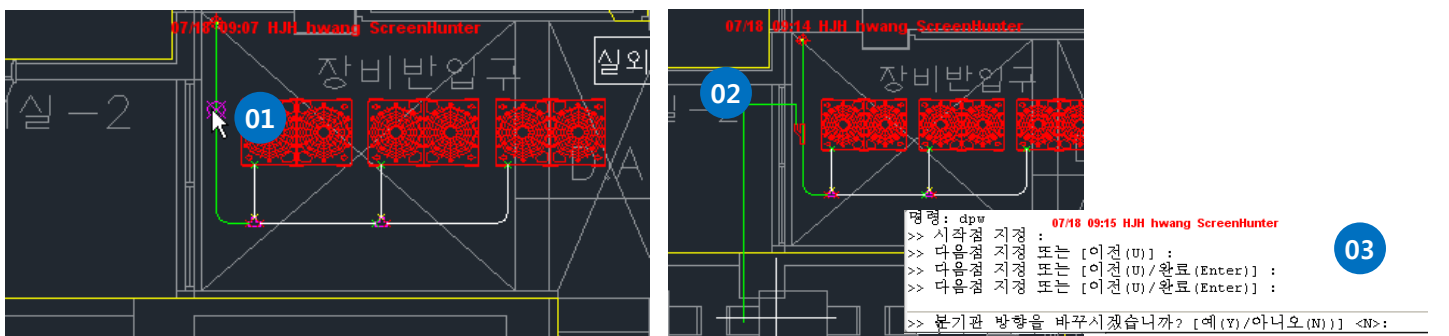
This is connection the piping. Recognize the connection point automatically without click the direct connection point.

- When you enter this command, menu execute.
- All of the unit have connection point when mouse comes close. If click near piping, it connect this point automatically. Also, pipe accessories are same.
- if you put the mouse near the pit, you can see a connection outdoor image, outdoor name, model name when you draw the piping.



If you put the mouse near the outdoor unit, you can see connection which look like 'x'.

- When you draw distribution pipe, drawing like behind capture and Enter. Than you can choose direction and you will see the refnet joint direction which before choose.



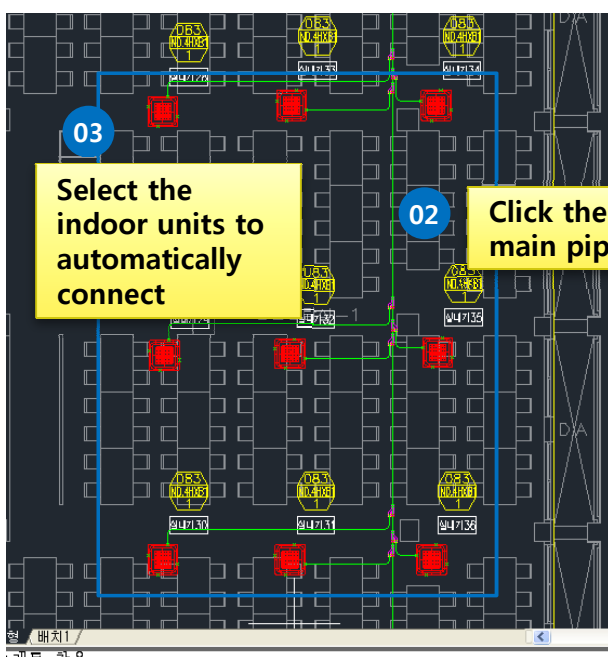
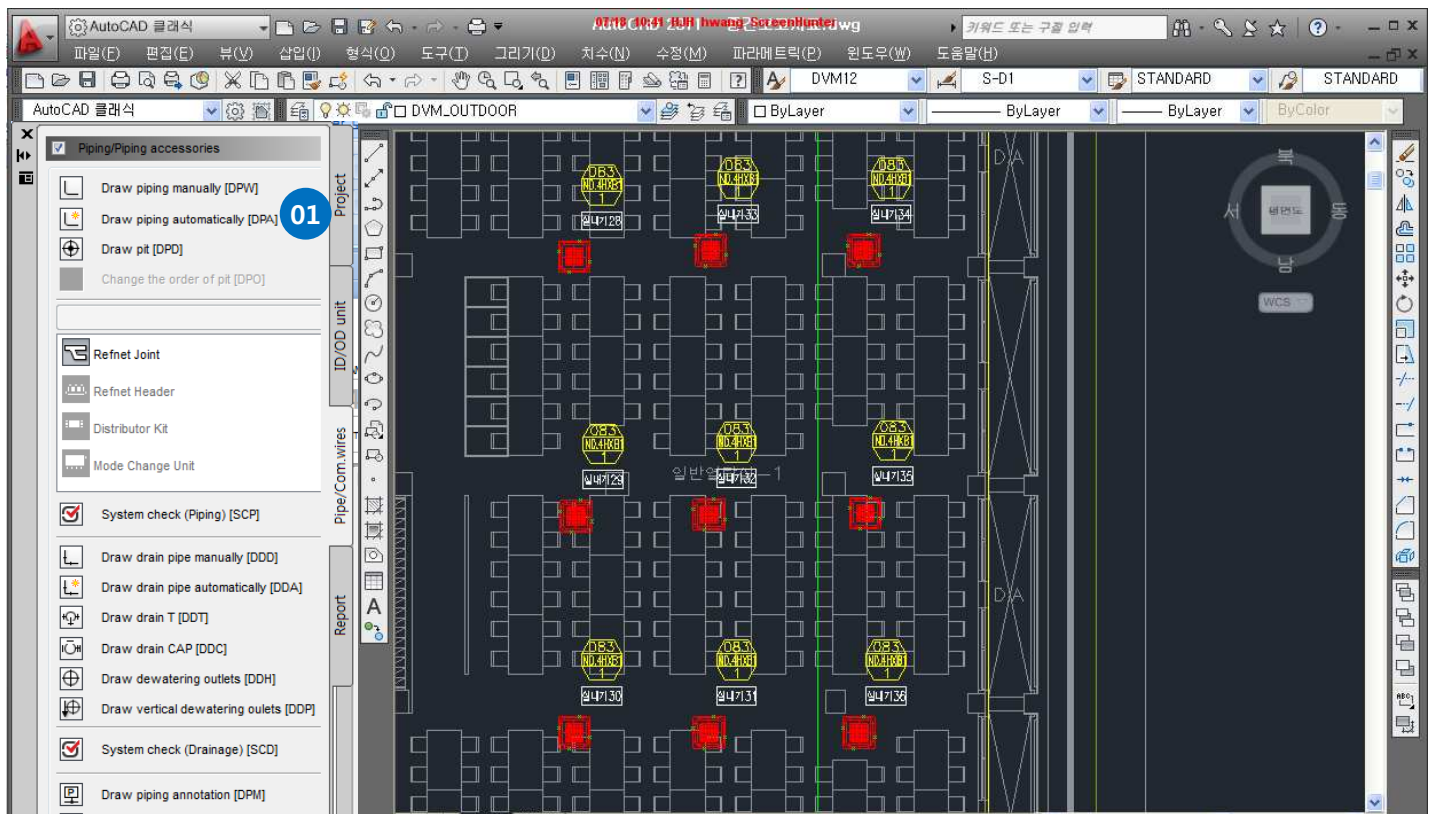
05 Step-by-step description of the design

(7) Draw piping-2

Explain

It's explain to draw the piping. Auto/manual pipe is available. You can various forms of draw the pipe.

You can draw through draw piping manually. It have draw piping automatically menu. You can connect indoor to main piping.



03
Select the indoor units to automatically connect

02
Click the main piping

- When you enter this command, menu execute.
- When you draw distribution pipe, drawing like behind capture and Enter. Then you can choose direction and you will see the refnet joint direction which before choose.

04

After click the Enter key, select the direction of refnet joint.

05

Connect the last indoor / Select the pipe leaving

05 Step-by-step description of the design

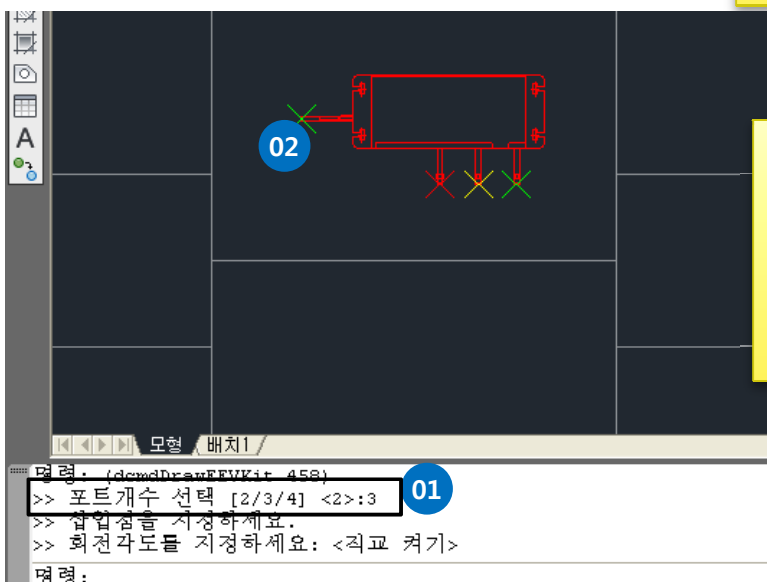
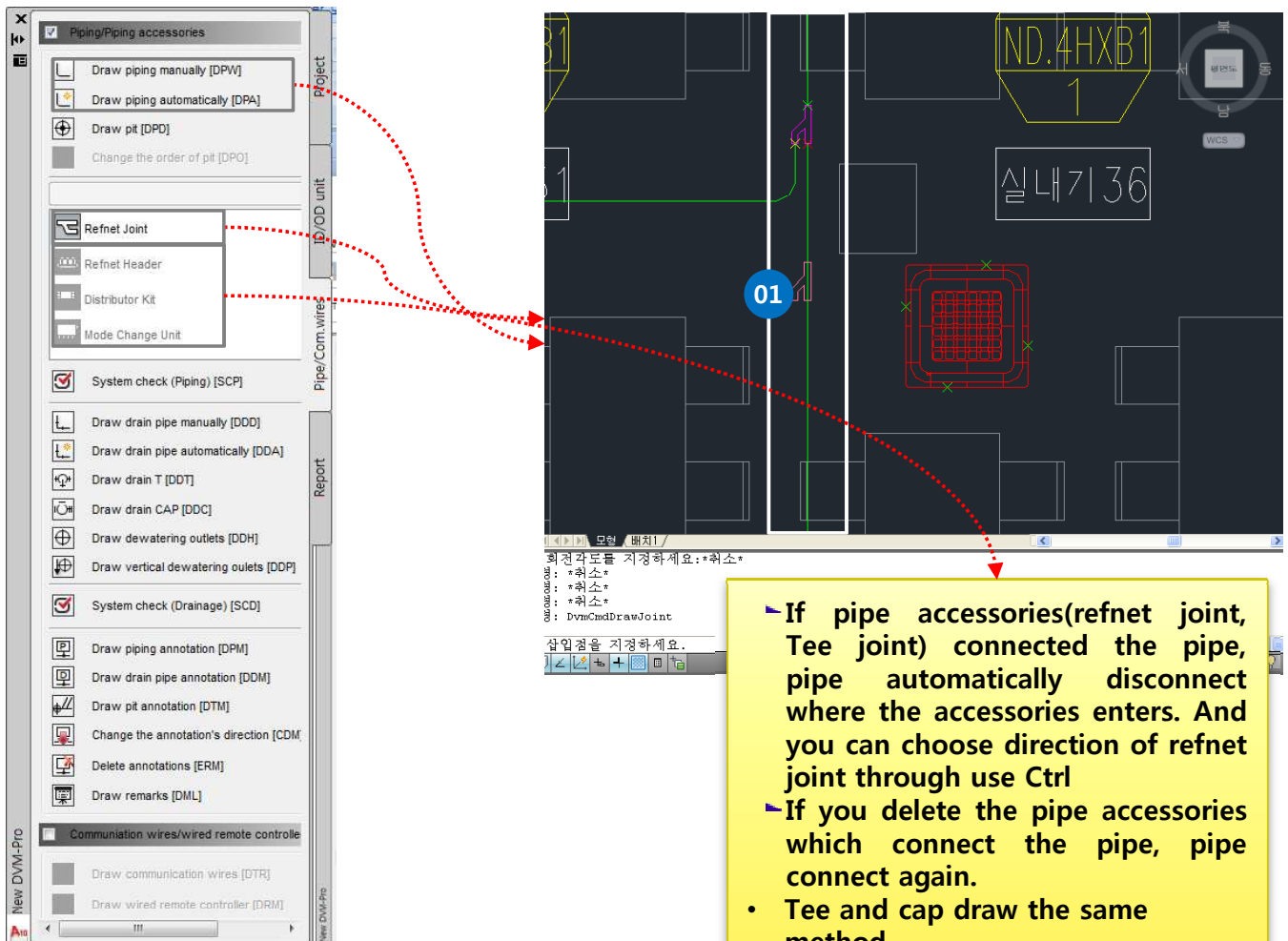
(7) Draw piping-3

Explain

It's explain to draw the piping. Auto/manual pipe is available. You can various forms of draw the pipe.

Also you can draw piping accessories.

When insert the block, Ctrl key is redirect and Tab key is point conversion.



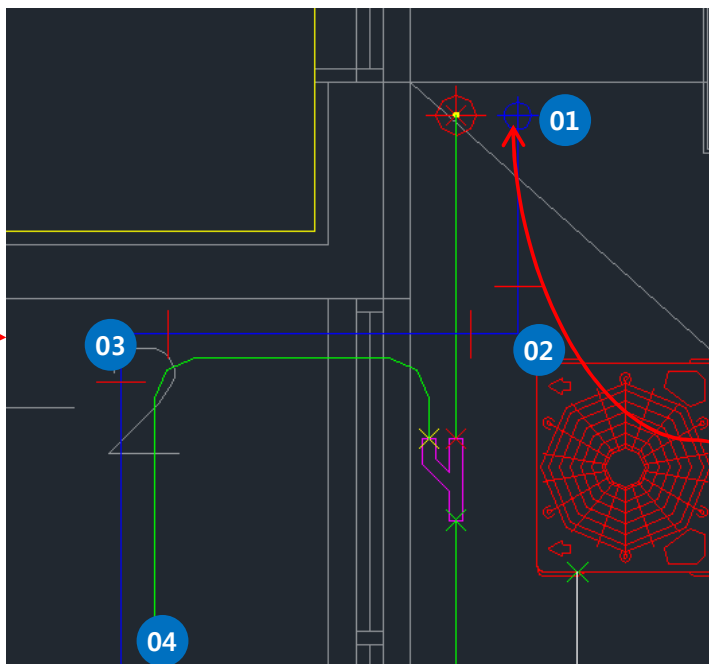
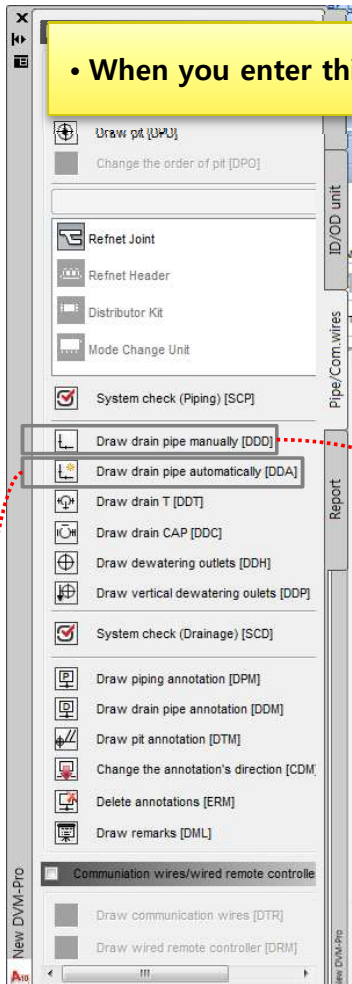
05 Step-by-step description of the design

(7) Draw piping-4

Explain

It's explain to draw the drain piping, Auto/manual pipe is available. You can various forms of draw the pipe.

It have draw drain piping, draw Tee, draw cap. And It have draw drain piping automatically menu. You can connect indoor to main drain piping.

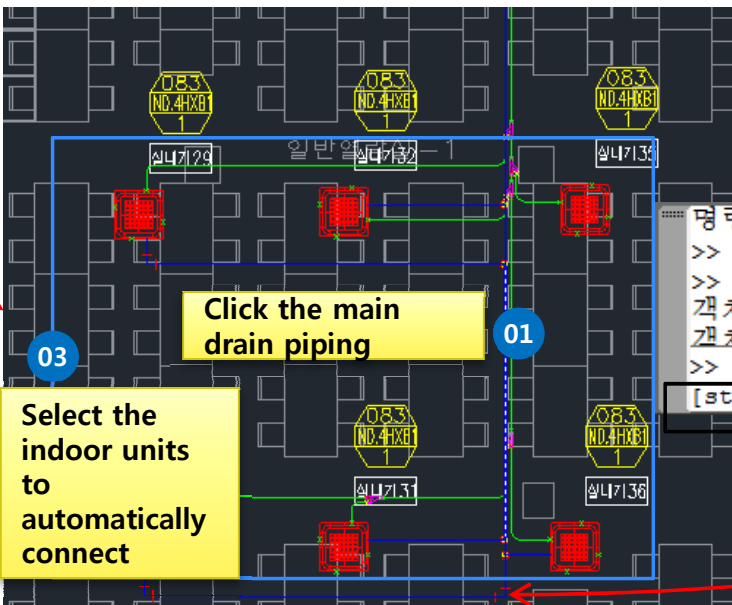


```
>> Specify the next point or [Undo(U)] :
>> Specify the next point or [Undo(U)/complete(Enter)] :
>> Specify the next point or [Undo(U)] :
>> Specify the next point or [Undo(U)/complete(Enter)] :
>> Specify the next point or [Undo(U)/complete(Enter)] :
```

명령 :

After enter key

05



```
명령 : DvmCmdAutoDrain
>> Select the drain pipe:
>> Select the indoor unit:
객체 선택: 반대 구석 지
객체 선택.
>> Do you want to connect indoor unit?
[start (S)/end (E)/None (N)]<N>:
```

After enter key

04

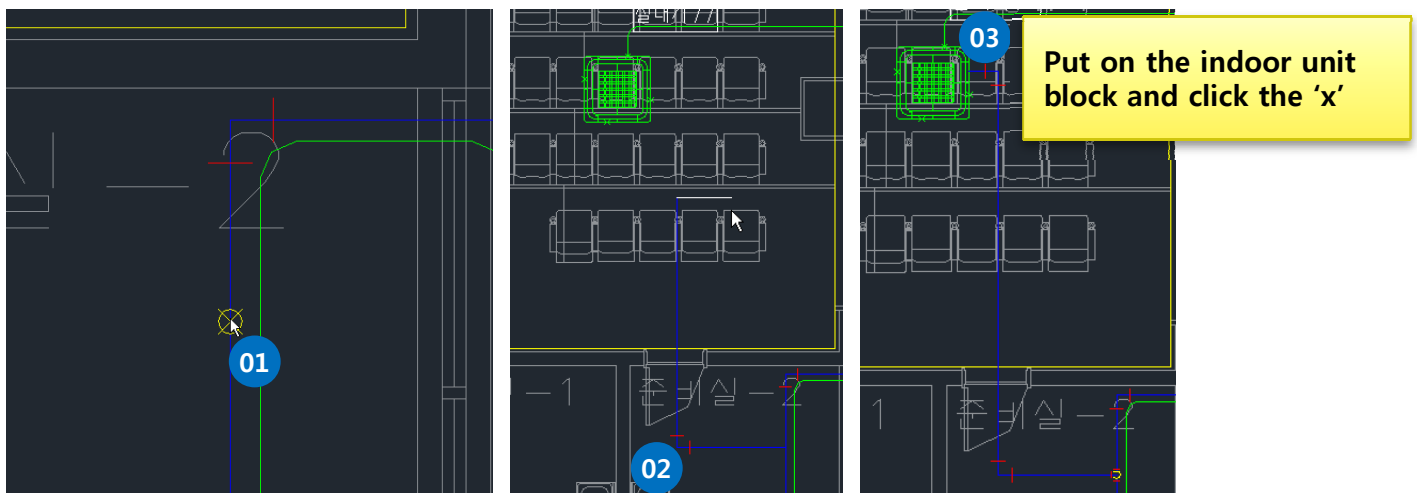
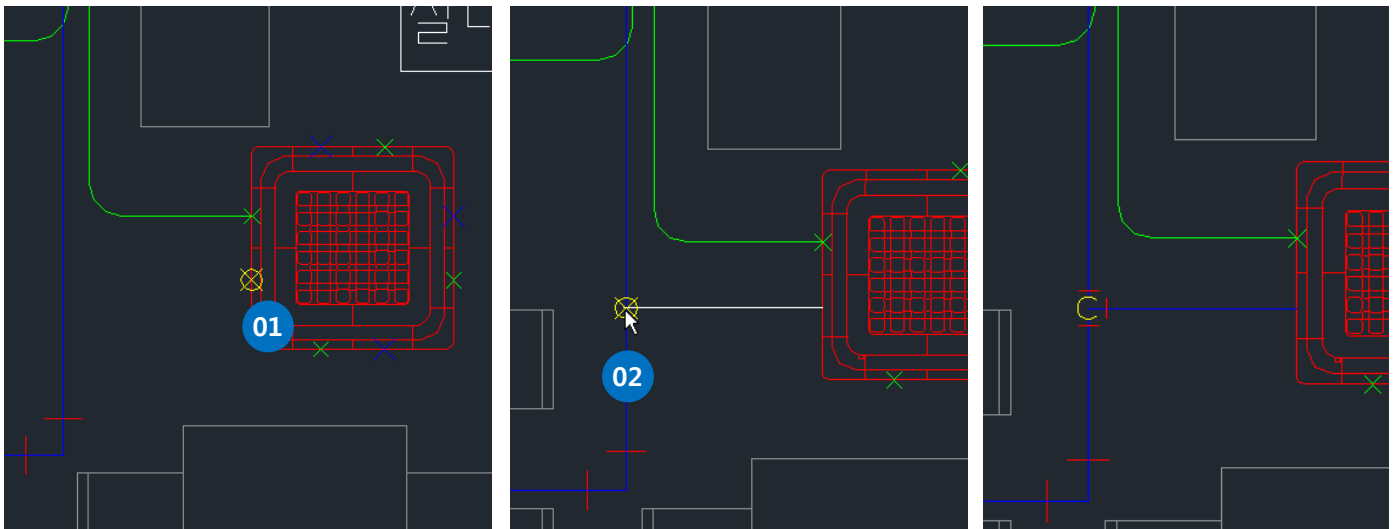
05 Step-by-step description of the design

(7) Draw piping-5

Explain

It's explain to draw the drain piping, Auto/manual pipe is available. You can various forms of draw the pipe.

- If you delete the Tee and drain which connected the Tee, returns to original state of the drain piping. And Elbow is delete that include the deleted drain piping.
- If Tee joint connected the pipe, pipe automatically disconnect where the accessories enters.
- If you put the mouse near the unit, you can see connection which look like 'x'. When click the 'x', drain piping will appear to block and the.
- When draw the drain piping from drain piping, if drain piping draw from drain piping, Tee draw automatically.

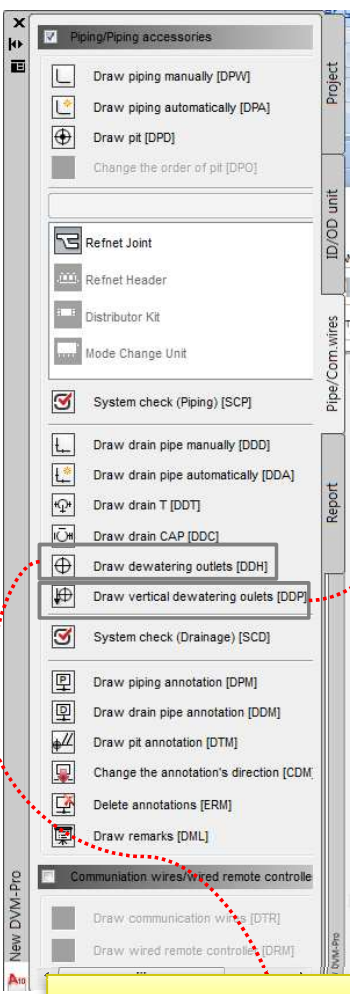


05 Step-by-step description of the design

(7) Draw piping-6

Explain

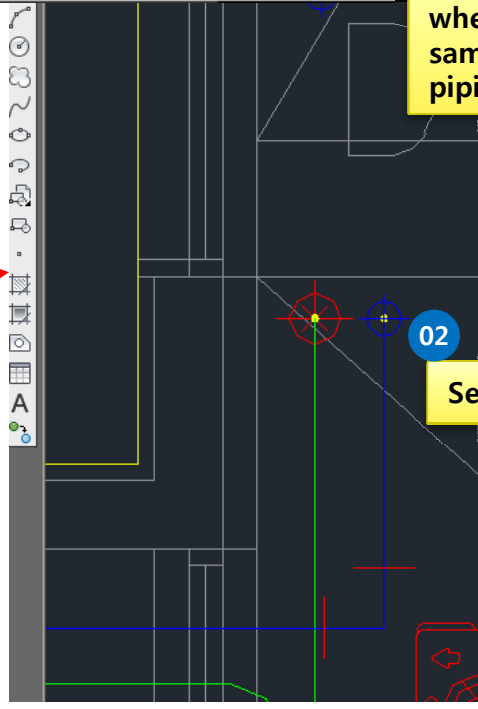
If Draw dewatering outlets and draw vertical dewatering outlets. draw vertical dewatering outlet's number is same, same number is same location of the other floor. Than this information used diagram in report. Tab.



```

.....
오일오일 : *취소*
오일오일 : *취소*
오일오일 : DvmCmdDrainPit
>> Create the drain pit [modify(M)] [1] <1>:
>> Specify the insertion point:
오일오일 :
  
```

If you selected same number when you insert the drain pit, all same number pit is one line in piping diagram.



Select the insert point

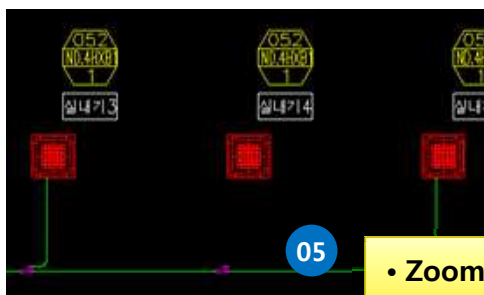
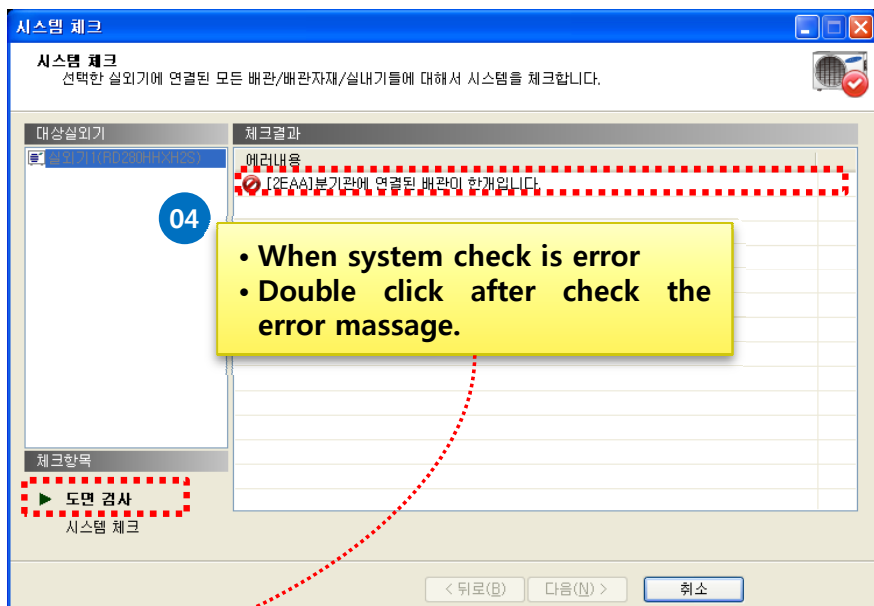
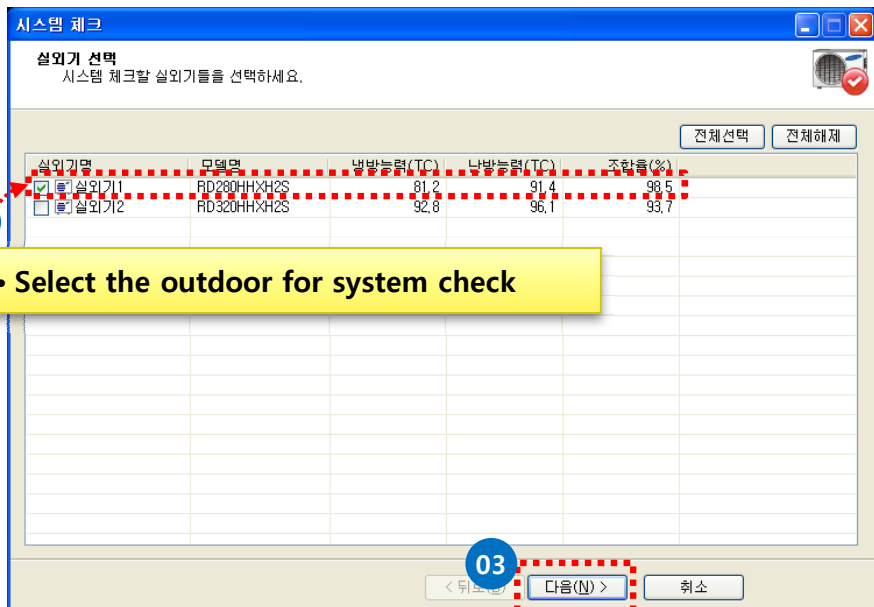
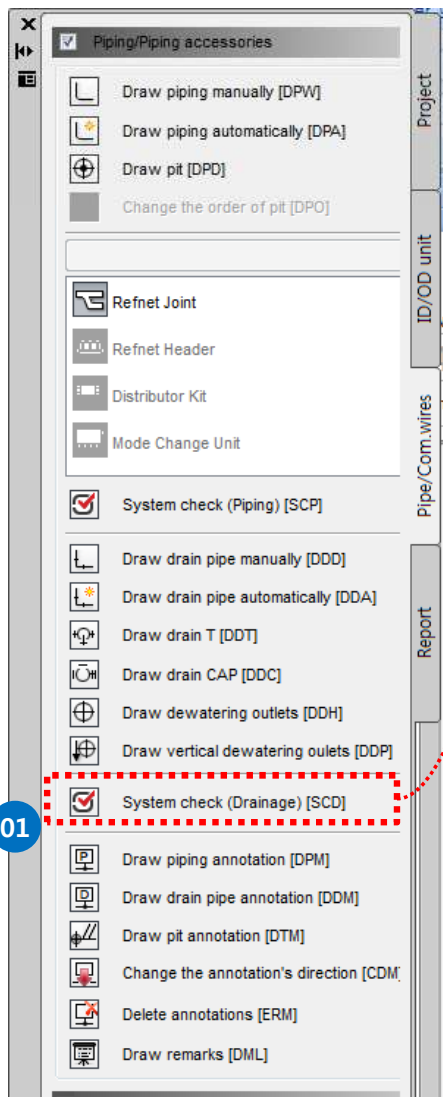
Draw the dewatering outlets: select the insert point

05 Step-by-step description of the design

(8) System check-1

Explain

Refrigerant pipe connection , pipe length and pipe level difference etc is checked. And When system check is error, modify the part of guided in system check and check again. Drain pipe connection is checked. the end of the system check, pipe diameter is placed automatically.



05 Step-by-step description of the design

(8) System check-2

Explain

Pass the drawing check, test a variety of check list. If it have a problem, display part of the problem and explain the cause of the problem. Also, finish the check, pipe diameter is placed automatically.

시스템 체크

시스템 체크
선택한 실외기에 연결된 모든 배관/배관자재/실내기들에 대해서 시스템을 체크합니다.

대상실외기	체크결과	
실외기1 (RD280HX/H2S)	체크항목	결과
	장배관	OK
	총배관 길이	OK
	첫분기관에서 가장 먼 실내기까지의 거리	OK
	가장가까운 실내기와 가장 먼 실내기간의 거리차이	FAIL
	순낙차	OK
	역낙차	OK
	실내기간 낙차	OK
	장배관 등가길이	OK
	추가냉매량	OK

01 첫분기후 가장 먼 실내기와 가장 짧은 실내기간의 길이 차이(47.36M)가 제한값(45.00M)을 초과 하였습니다.

< 뒤로(B)
다음(N) >
취소

02

- Check the drawing and edit.
- After the resolution, do the system check again until It should not be problem.

시스템 체크

시스템 체크할 실외기들을 선택하세요.

실외기명	모델명	냉방능력(TC)	난방능력(TC)	조합률(%)
<input type="checkbox"/> 실외기1	RD280HX/H2S	92.2	91.4	98.5
<input type="checkbox"/> 실외기2	RD320HX/H2S	92.8	96.1	93.7

< 뒤로(B)
다음(N) >
취소

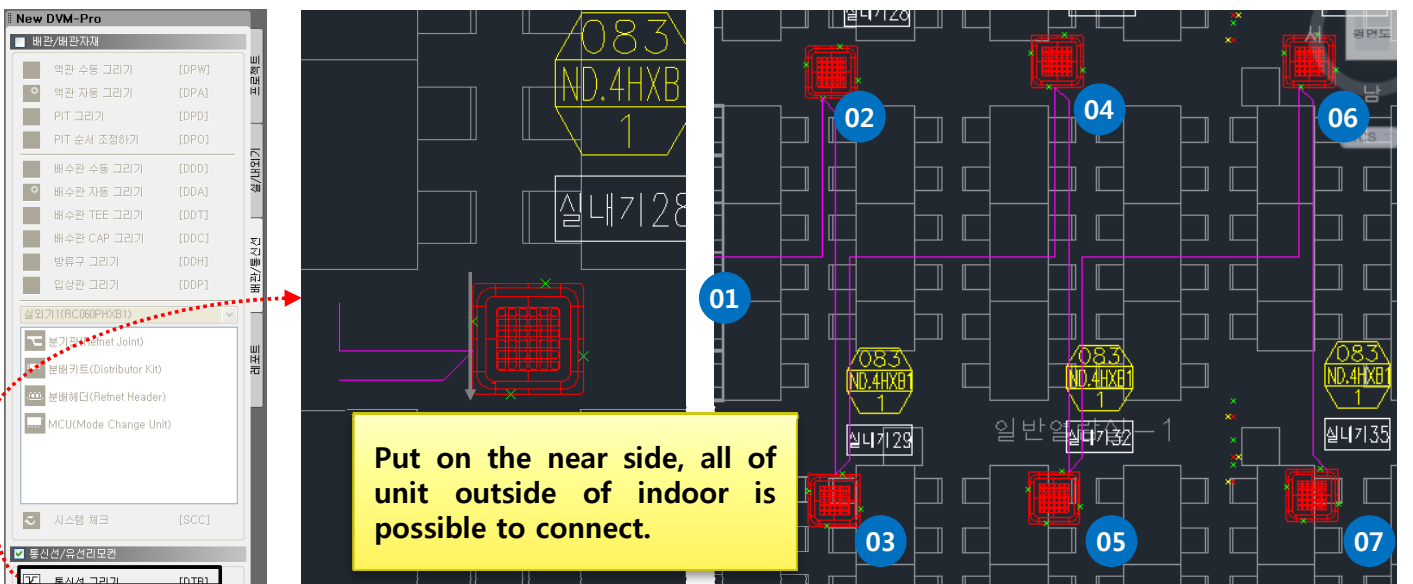
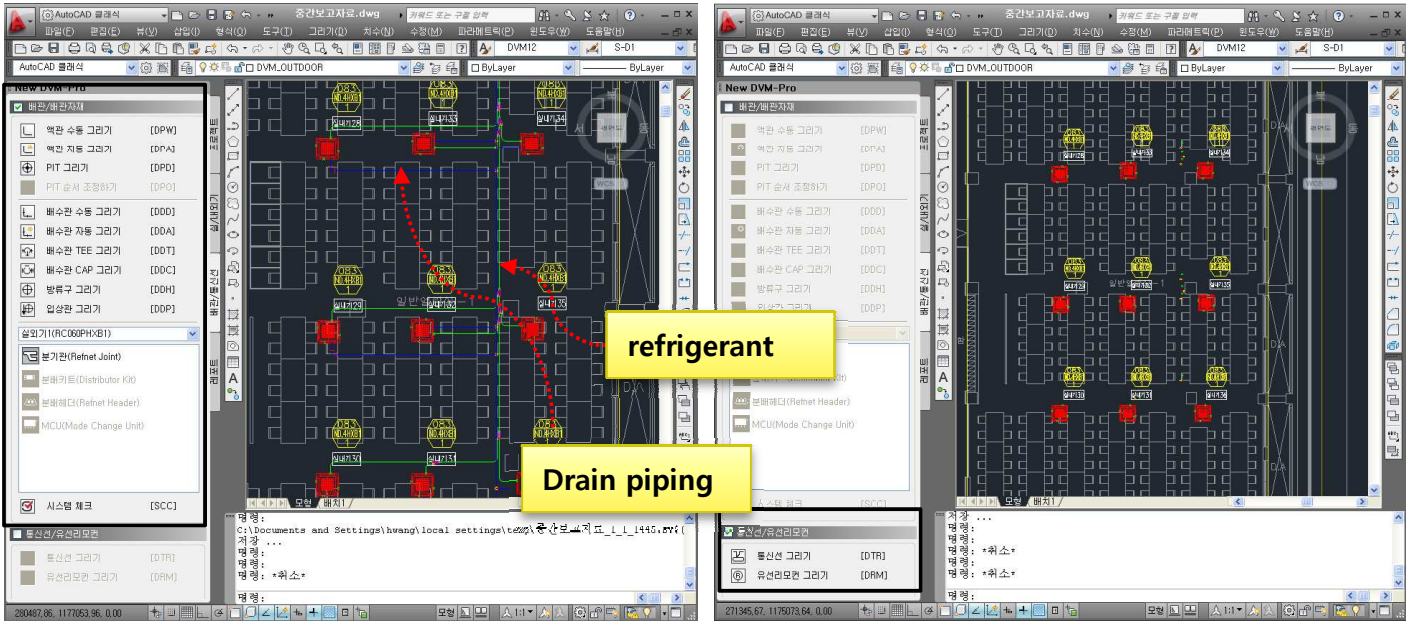
05 Step-by-step description of the design

(9) Controller wire-1

explain

Select the communication wires/wired remote controller, draw the communication wires/wired remote controller.

- When you enter this command, menu execute.
- Select check box the piping/piping accessories or communication wires/remote controller, selection layer is active. So, you can distinction.



- Click the connection indoor in order and then when you enter, complete the connection.

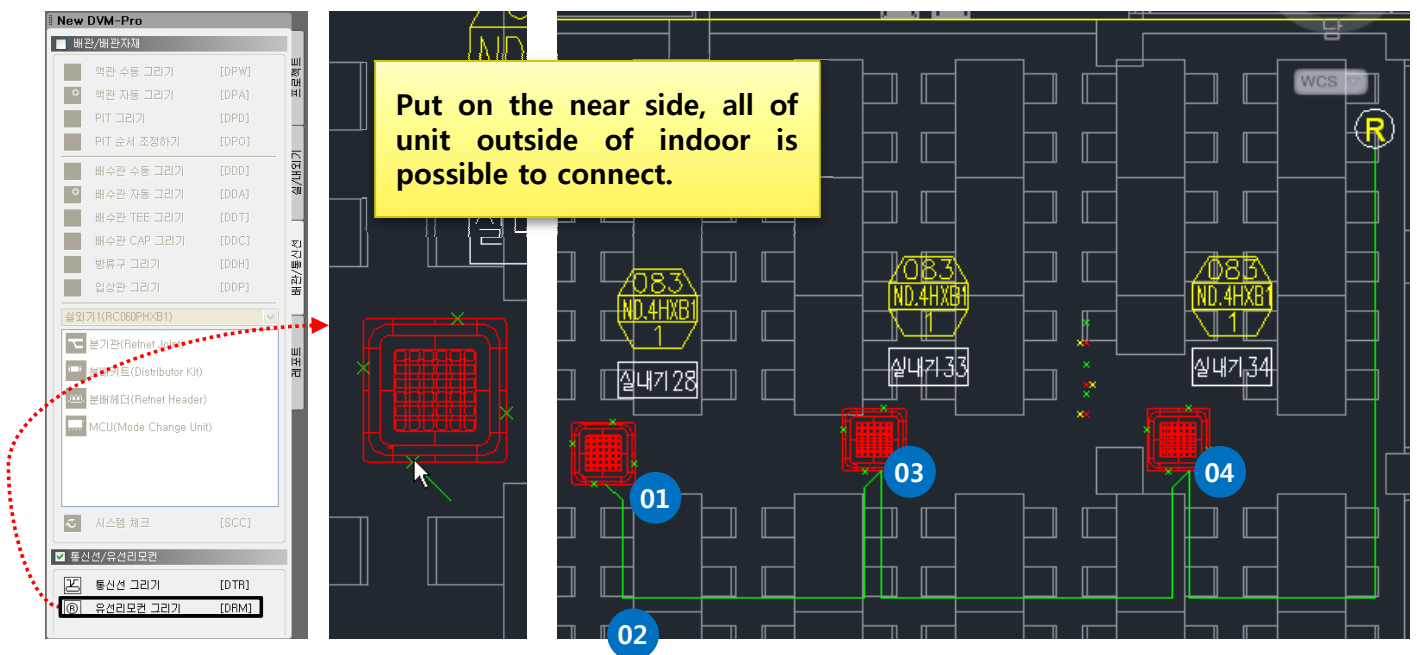
05 Step-by-step description of the design

(9) Controller wire-2

explain

Select the communication wires/wired remote controller, draw the communication wires/wired remote controller.

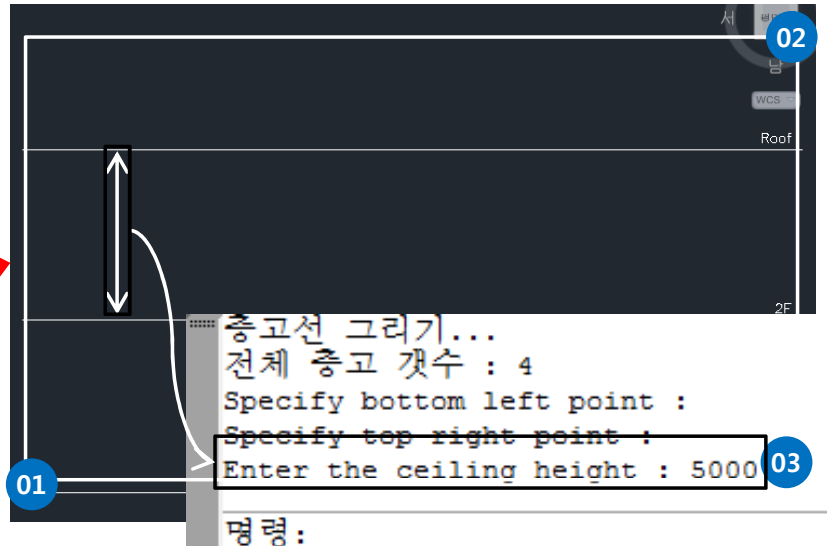
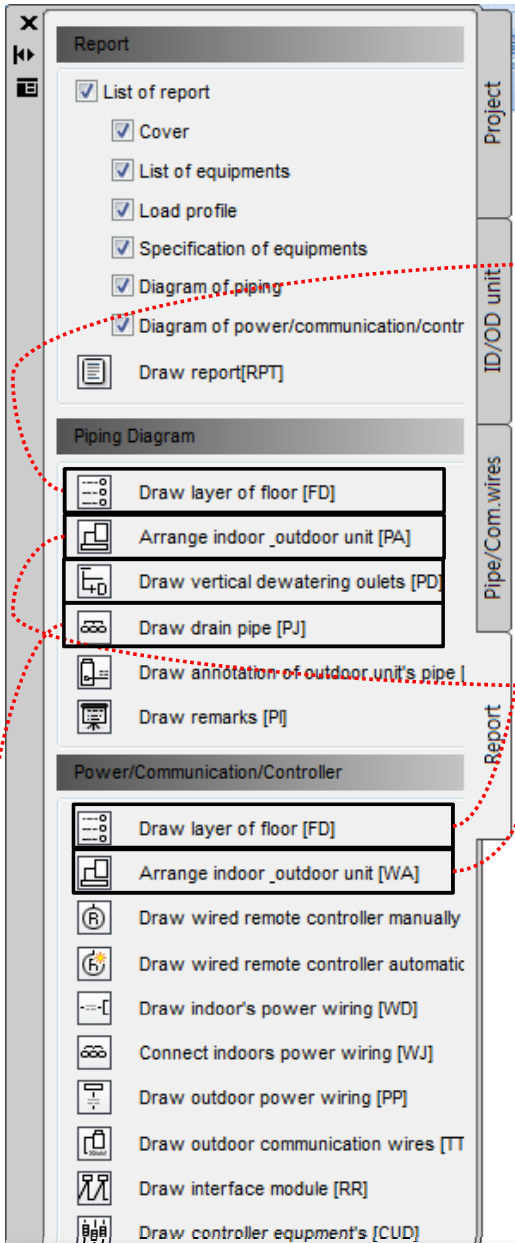
- When you enter this command, menu execute.
- Select check box the piping/piping accessories or communication wires/remote controller, selection layer is active. So, you can distinction .
- Click the connection indoor in order and then when you enter, complete the connection.



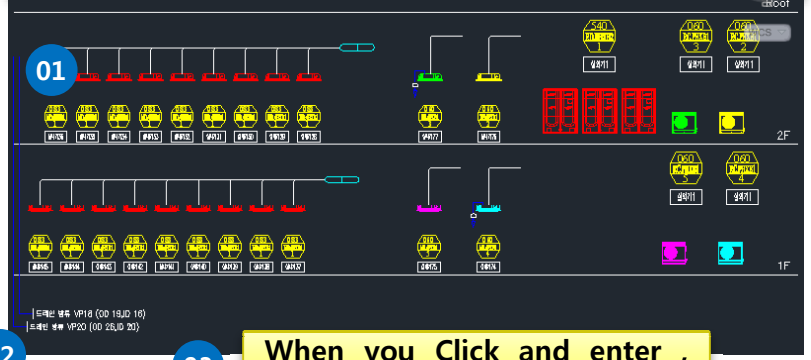
05 Step-by-step description of the design (10) Piping remarks & Piping Diagram-1

Explain

Design the piping remarks and insert to drawing.
Click the piping diagram list in order. then Design the piping diagram.

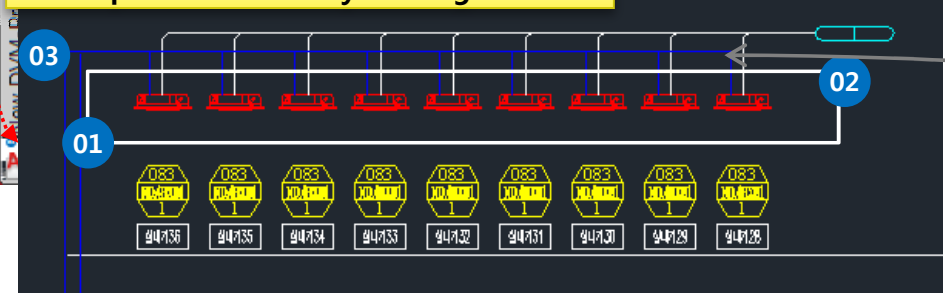


- Repeat the order of outdoor and indoor which include the outdoor. You can insert this block to click the location.
- If dewatering outlets is not connect the drain piping, dewatering outlets is displayed with block.
- You can change the direction of piping to use Ctrl key



When you Click and enter , Display the piping remarks.

Drain pit Connection by clicking.

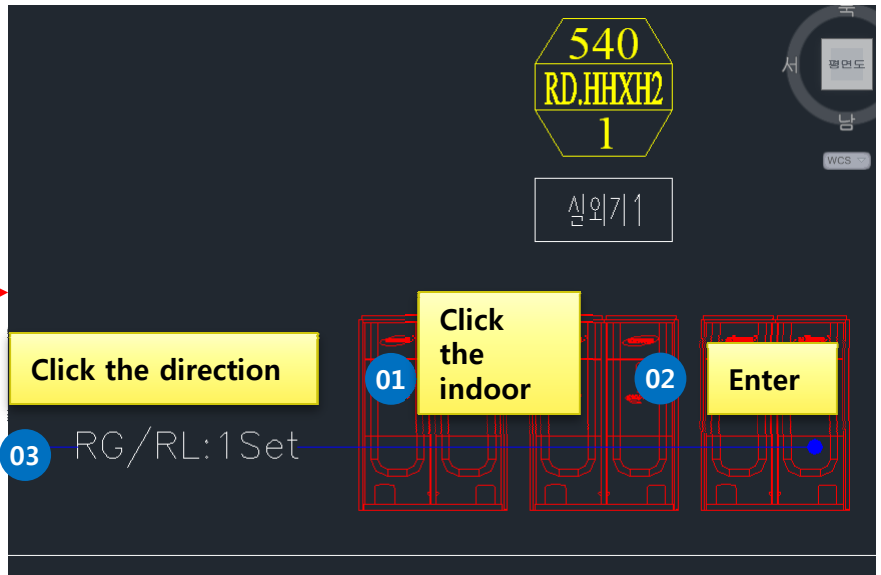
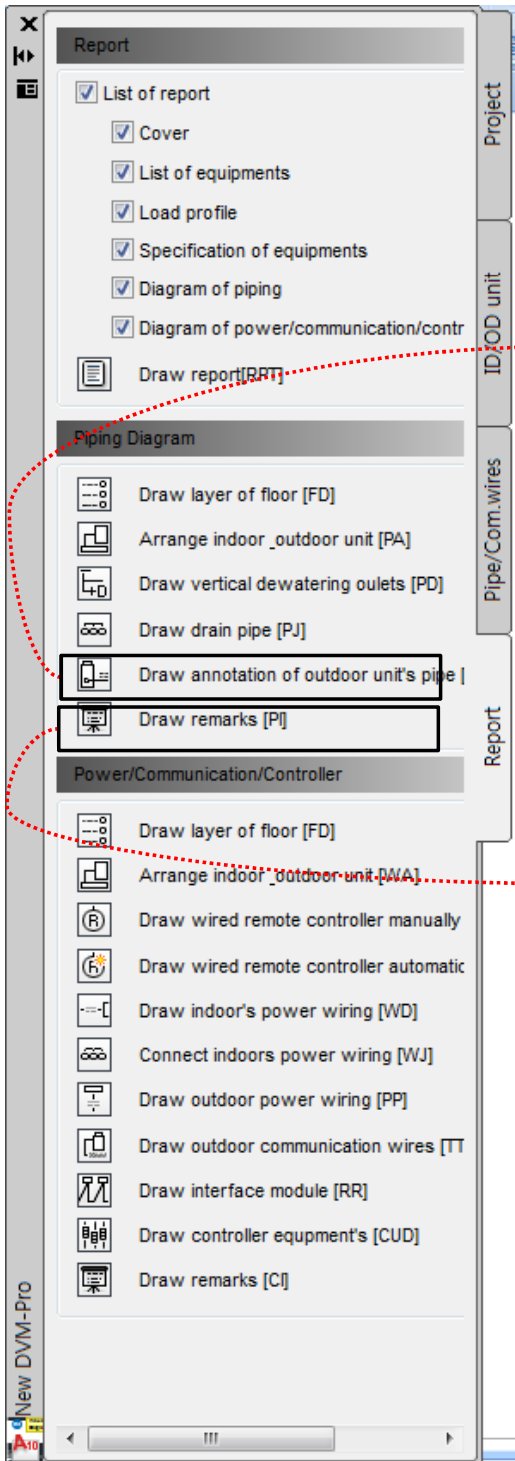


Specifies the arrow keys to move pipe height.

05 Step-by-step description of the design (10) Piping remarks & Piping Diagram-2

Explain

Click the piping diagram list in order. then Design the piping diagram.



05 Step-by-step description of the design

(11) control Diagram-1

Explain

Click the piping diagram list in order, then Design the control diagram.

Report

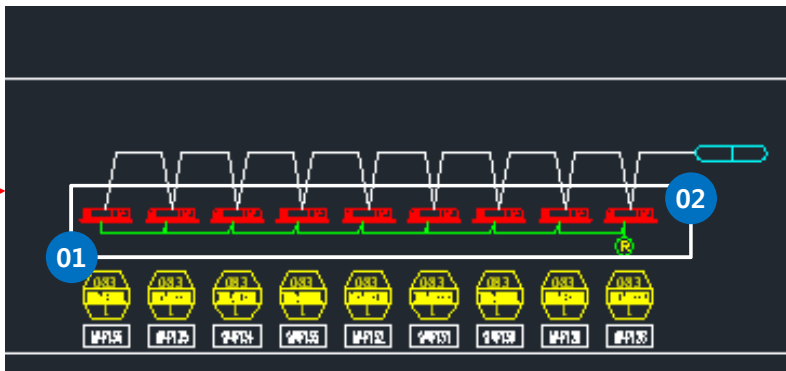
- List of report
 - Cover
 - List of equipments
 - Load profile
 - Specification of equipments
 - Diagram of piping
 - Diagram of power/communication/contr
- Draw report[RPT]

Piping Diagram

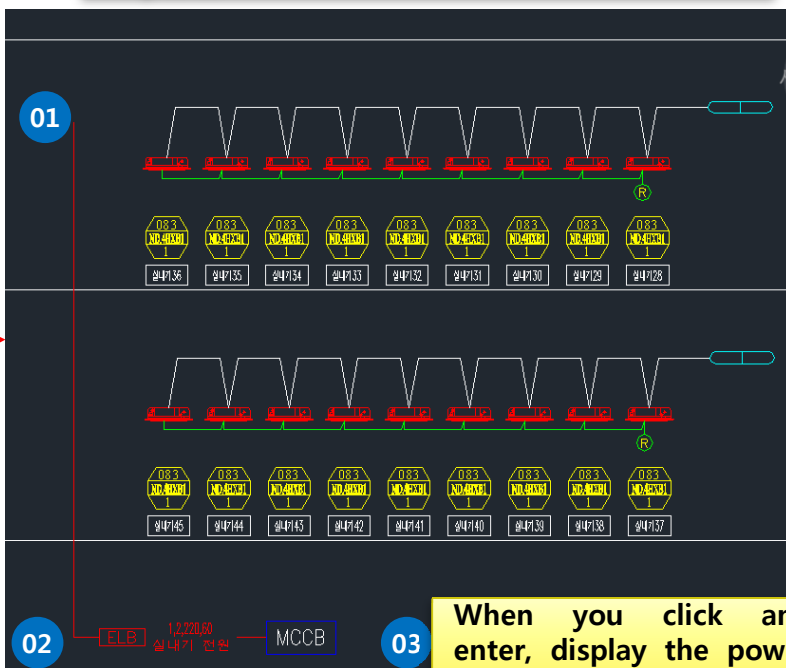
- Draw layer of floor [FD]
- Arrange indoor_outdoor unit [PA]
- Draw vertical dewatering outlets [PD]
- Draw drain pipe [PJ]
- Draw annotation of outdoor unit's pipe
- Draw remarks [PI]

Power/Communication/Controller

- Draw layer of floor [FD]
- Arrange indoor_outdoor unit [WA]
- Draw wired remote controller manually
- Draw wired remote controller automatic
- Draw indoor's power wiring [WD]
- Connect indoors power wiring [WJ]
- Draw outdoor power wiring [PP]
- Draw outdoor communication wires [TT]
- Draw interface module [RR]
- Draw controller equipment's [CUD]

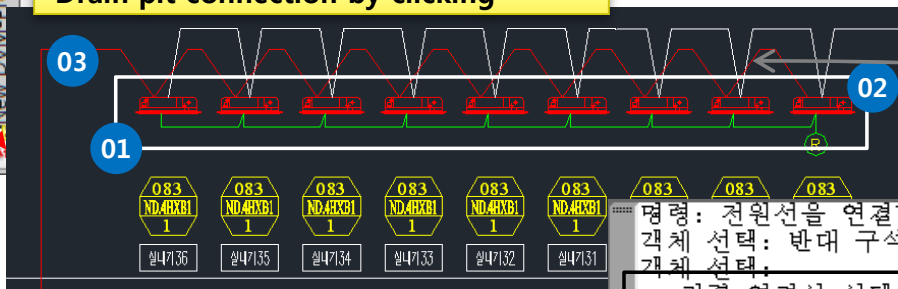


- 03
- You can change the direction of the remote controller. it depend upon the direction of the mouse.
 - It displayed such as indoor group of the plans.



When you click and enter, display the power wire information.

Drain pit connection by clicking



Specifies the arrow keys to move pipe height.

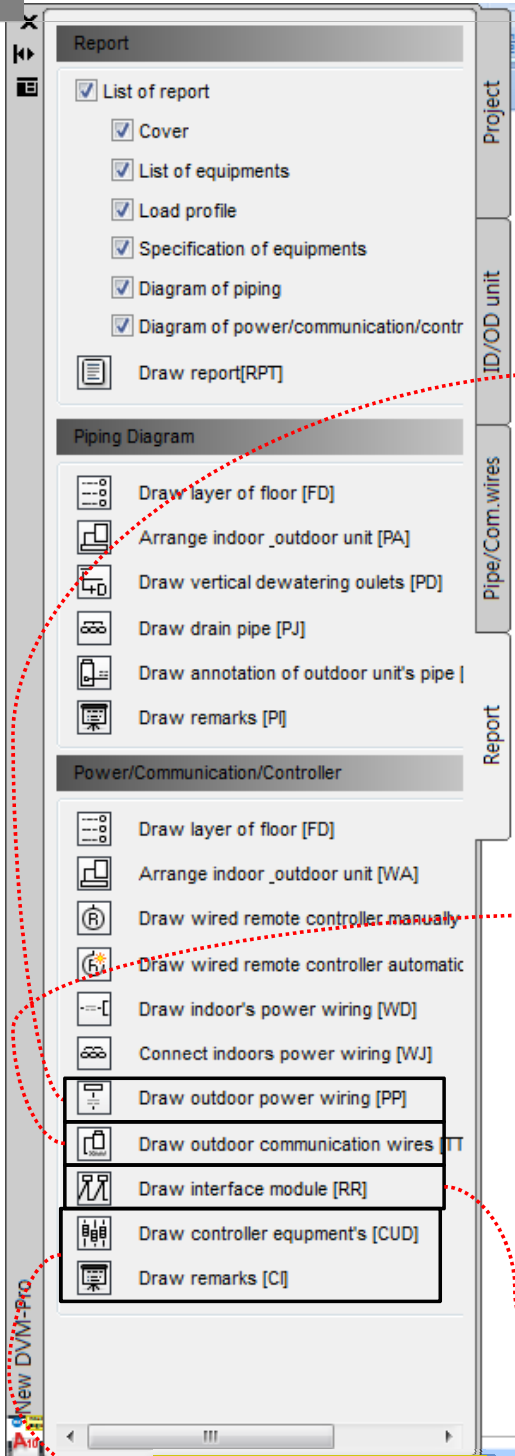
명령: 전원선을 연결할 실대기를 선택하세요 : 객체 선택: 반대 구석 지정: 9개를 찾음 개체 선택: >> 전력 연결선 선택 또는, 연결부 높이 지정 [방향키 △▽]

05 Step-by-step description of the design

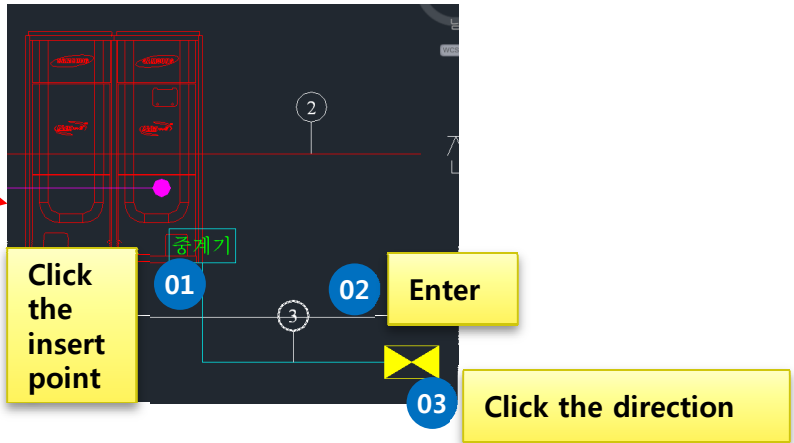
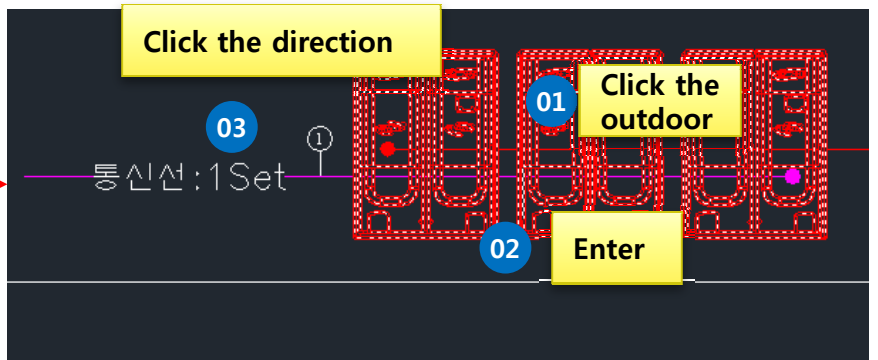
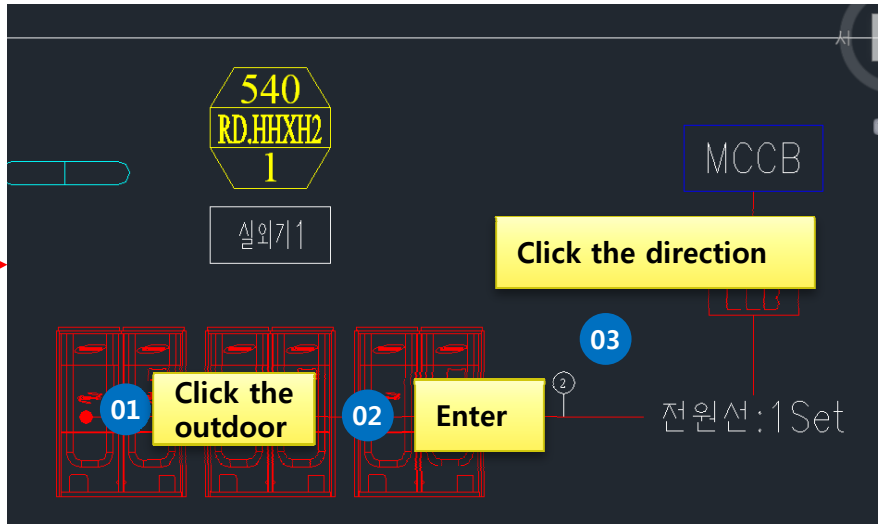
(11) control Diagram-2

Explain

Click the piping diagram list in order. then Design the control diagram.



Click the insert point



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