

# **DVM Pro Sales**

## **(Version 1.1.3.2)**

# **Chiller Selection Guide**

**SAMSUNG**  
**DVM Pro**

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# I . S/W Installation and Update

## Software Installation and Update

- Existing User
  - Update DVM Pro software with a pop-up notice from DVM Pro.
  - This large sized update, more than 300M, may result in update failures.  
When your update is not conducted properly due to your internet environment, please download new installation file.
  - At the beginning, this update can not be conducted properly because of a number of users trying to connect DVM pro at the same time.  
Please try again after a while or download new installation file.
- New User
  - Connect the below address and download new file to install DVM Pro software.
  - 32bit user : [http://dvm.inno-lab.co.kr/dvmsetup/setup\\_x86\(Contain%20.Net\).zip](http://dvm.inno-lab.co.kr/dvmsetup/setup_x86(Contain%20.Net).zip)
  - 64bit user : [http://dvm.inno-lab.co.kr/dvmsetup/setup\\_x64\(Contain%20.Net\).zip](http://dvm.inno-lab.co.kr/dvmsetup/setup_x64(Contain%20.Net).zip)

# II. New Features

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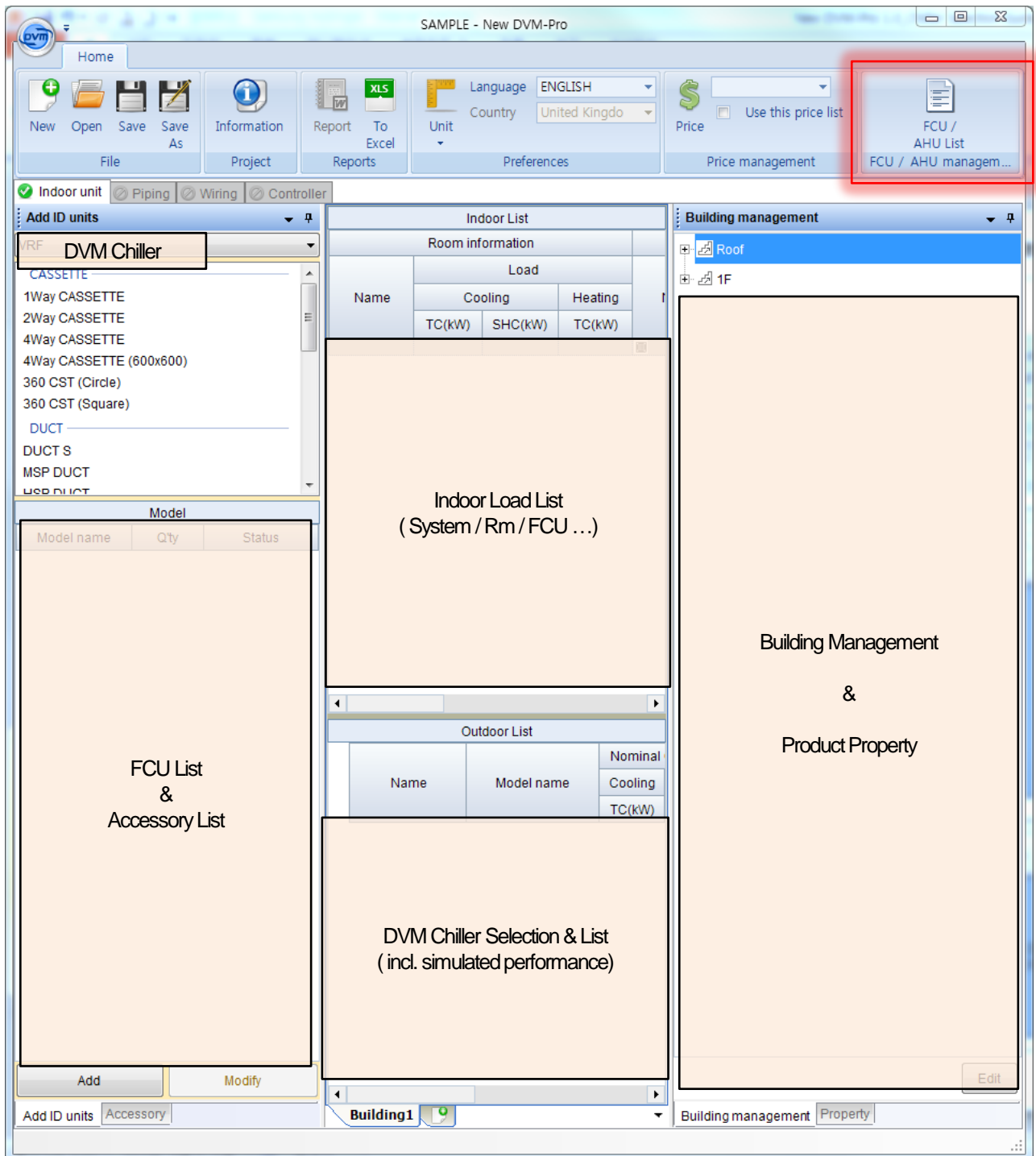
## 0. New features for Chiller selection

- User based FCU/AHU management
- Chiller Selection by capacity corrections
- Controller Selection for Chiller
- Chiller specialized Report (2 formats)

# II. New Features

## 1. GUI

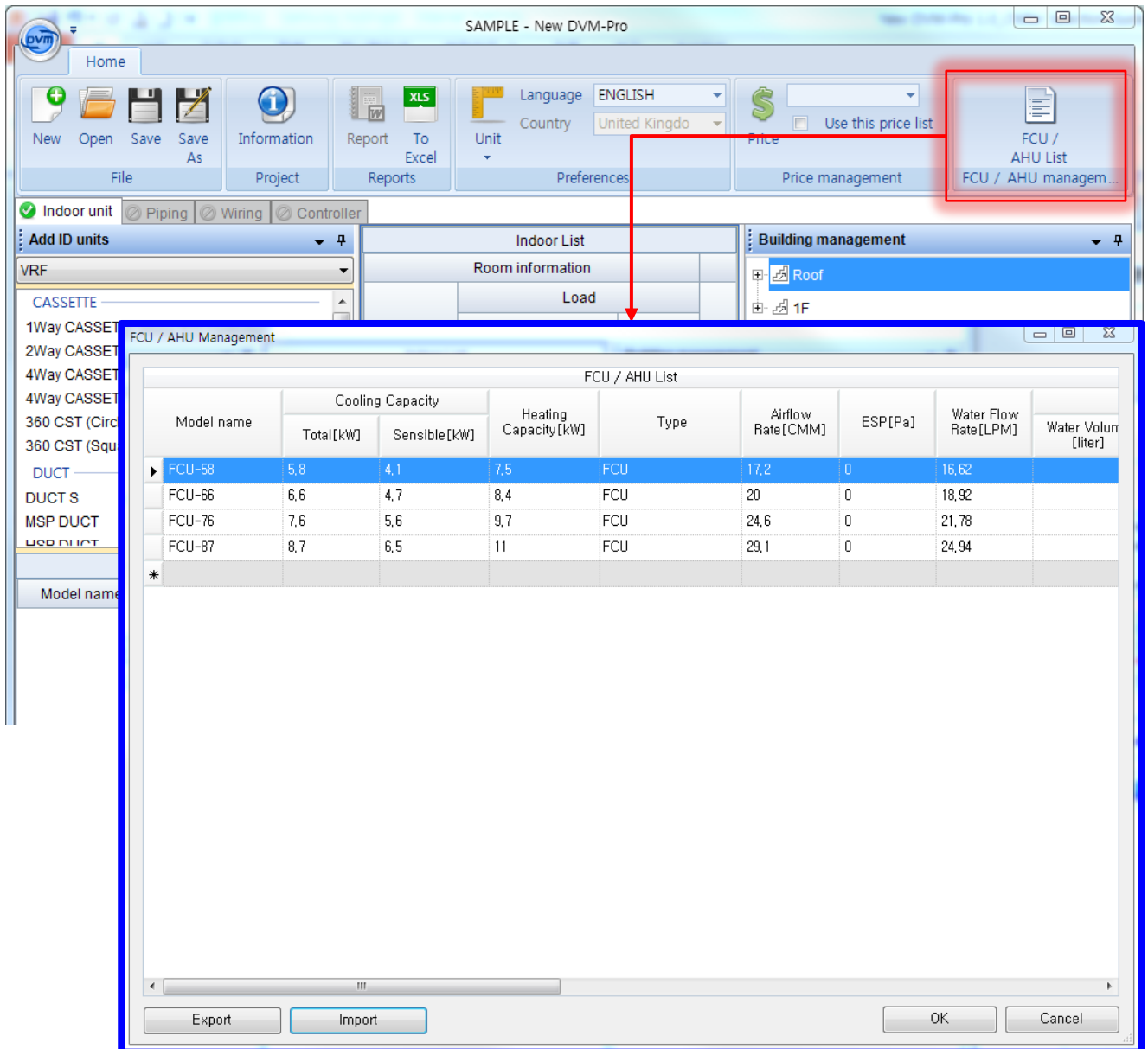
With the same structure of previous DVM Pro,  
DVM Chiller Selection and FCU/AHU management features are added.



# II. New Features

## 2. FCU/AHU management

- Users can manage FCU/AHU products according to their regional usages.
- The generated FCU/AHU list can be utilized when entering the room's required load, also can be continuously used for other designs.
- The designed FCU/AHU list can be printed on the report



## II. New Features

### 3. Chiller Selection by the variety of capacity corrections.

- Select DVM Chiller by variety of design conditions
- Capacity corrections according to Brine ratio, Altitude, Defrosting operation
- Applicable chillers are recommended based on the simulated and corrected capacity.

Input form for 'New Outdoor Chiller' showing design conditions and capacity correction factors.

- ① Input design conditions
  - Chose the product type (Pump, w/o Pump)
  - Variable design conditions (Ambient temp., Required load, Water flow rate, LWT/EWT)
  - Capacity correction functions (Brine, Altitude, Defrosting)

Button labeled '선택 Chill' (Select Chiller).

- ② Click the button "Select Chiller"

모델명	Qty	전원사항	정격	시뮬레이션	부하율	입수온도	유량	압력강하 / E
			TC(kW)	TC (kW)	냉방	C	LPM	mmAq
AG070KSVGNHEU	1	3.4.380-415	65.00	92.48	92.48	24.00	100.00	25818.29
AG056KSVGNHEU	1	3.4.380-415	56.00	79.67	79.67	24.00	100.00	28032.45
AG042KSVGNHEU	1	3.4.380-415	42.00	59.75	59.75	32.57	100.00	28032.45
AG070KSVGNHEU	1	3.4.380-415	0.00	0.00	0.00	0.00	0.00	0.00
AG056KSVGNHEU	1	3.4.380-415	0.00	0.00	0.00	0.00	0.00	0.00
AG042KSVGNHEU	1	3.4.380-415	0.00	0.00	0.00	0.00	0.00	0.00

- ③ Select Chiller
  - Applicable chillers are recommended.
  - Key design factors are represented. (Capacity, Water flow rate, Pressure drop)

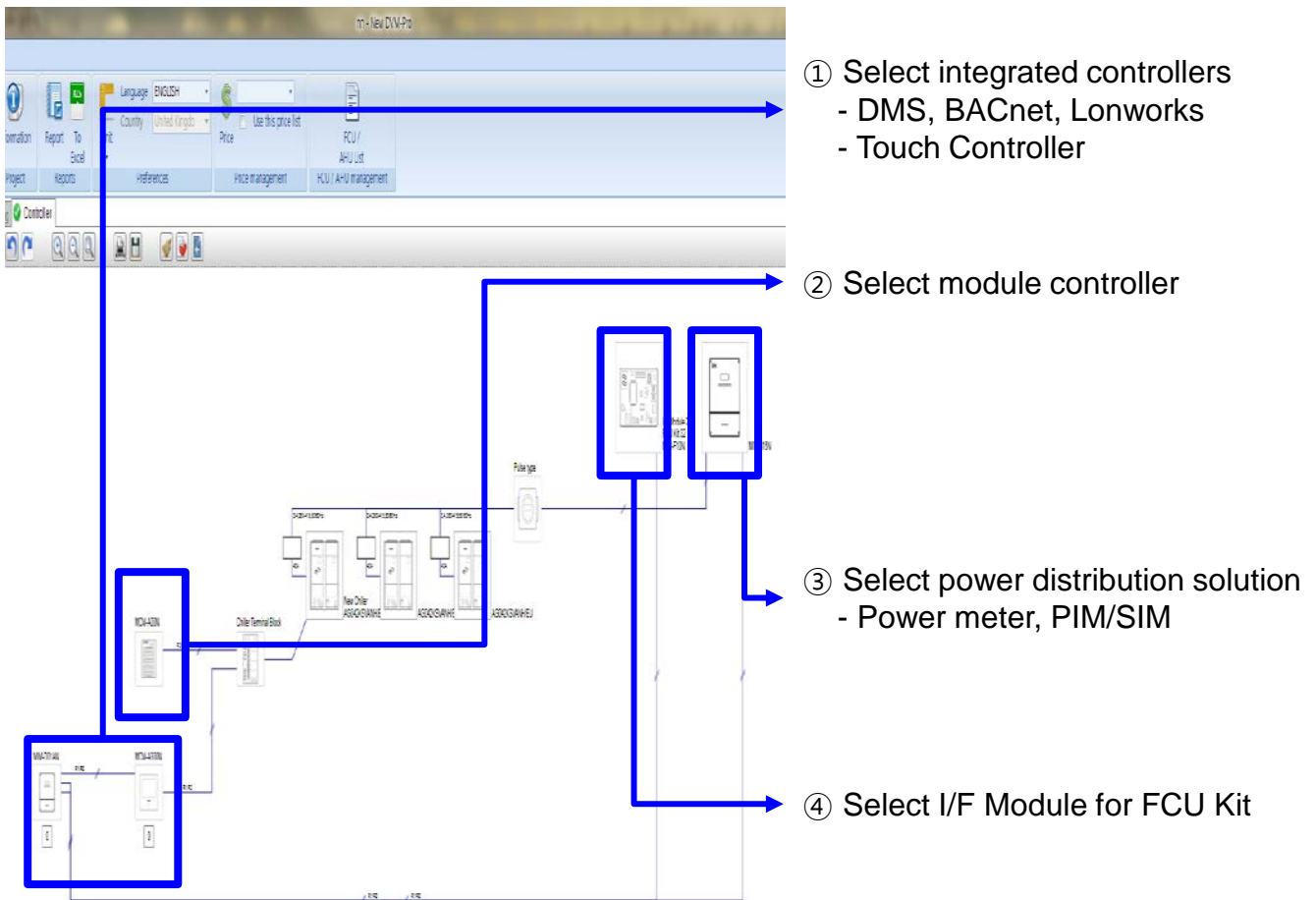
항목	단위	AG070KSVGNHEU
소백전력 (정격, 냉방/난방)	kW	28.28 / 25.04
운전전류 (정격, 냉방/난방)	A	45.8 / 43.3
최대전류	A	최대전류 65
MCCB+ELB+ELCB	A	MFA 75
수속 연결배관경 (입출구, 호칭경)	Ø,mm(in)	50 (2)
펌프 Input / Output	kW	1.68 / 1.45
전원배선선	mm2	- 0.75 ~ 1.5
제품 치수 (WxHxD)	mm	1795x1095x705
수속 온도별워 냉방/보일러(난방)	C	5 ~ 25 (25 ~ 55)
수속 유량별워 최소 보류 수량	LPM/liter	92.9 ~ 400 490
공기류 속도별워 (냉방/난방)	C	-15 ~ 48 -35 ~ 43

- ④ Specification
  - Check the selected chiller's specification.

## II. New Features

## 4. Control Solution

- Select controllers for DVM Chiller  
(Module controller, Touch controller, DMS, BACnet, Lonworks, FCU I/F module, PIM, and so on)
- Product list and the image of control configuration are printed on the report.





# II. New Features

## 5. Additional Report for Chiller

- Existing Report
  - : VRF and Chiller can designed together and printed on one same report.
- Additional Chiller Report
  - : Commonly used format in Chiller market. (only for Chiller)

### Existing Report

#### Existing VRF Report

#### VRF Section

- Total load profile
- Piping & Wiring
- Specification

#### Added DVM Chiller

#### Chiller Section

- Total load profile
- Piping & Wiring (Phase2)
- Specification

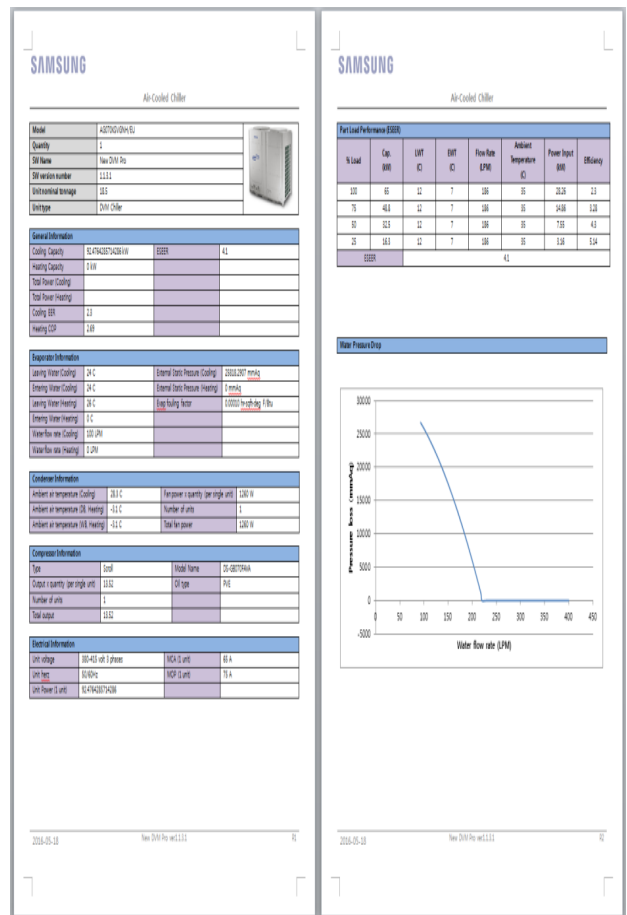
#### Common Section

- Incl. data for chiller
- Controller
  - Total equip. list

#### Attachment

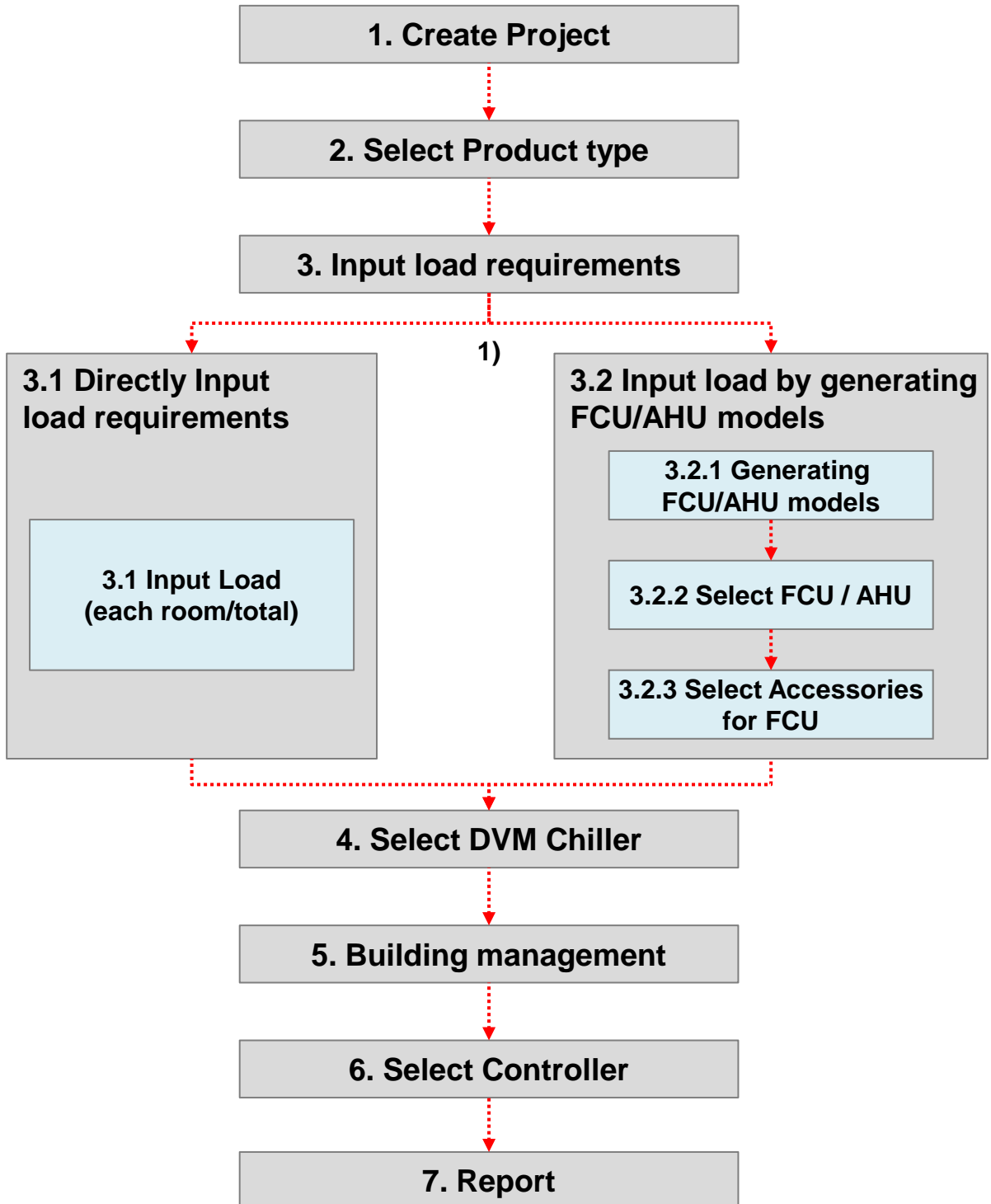
- AHRI Chiller report
  - : AHRI certified model only
- Chiller report (excl. AHRI mark)
  - : Other countries

### Additional Chiller Report



# III. How to Select DVM Chiller

## 0. Selection Flow Chart



1) There are two methods to input load requirements.

3.1 Directly Input load requirements

3.2 Input load by generating FCU/AHU models

# III. How to Select DVM Chiller

## 1. Create a project

- To create the project, click “New” button.
- Enter the project name, the project name will be saved as the file name.
- File extension is “.dvms”.
- Customer information and designer information are optional.
- Design conditions are represented based on your city. It also can be edited manually.

The screenshot shows the 'New DVM-Pro' application window. A red circle labeled '1' highlights the 'New' button in the 'File' menu. A red dashed arrow points from this button to the 'Project information' dialog box. Inside the dialog box, a red circle labeled '2' highlights the 'Project name' text field. A red circle labeled '3' highlights the 'Customer information' and 'Designer information' sections. A red circle labeled '4' highlights the 'City' dropdown menu in the 'Design condition' section. A red circle labeled '5' highlights the weather condition table in the 'Design condition' section.

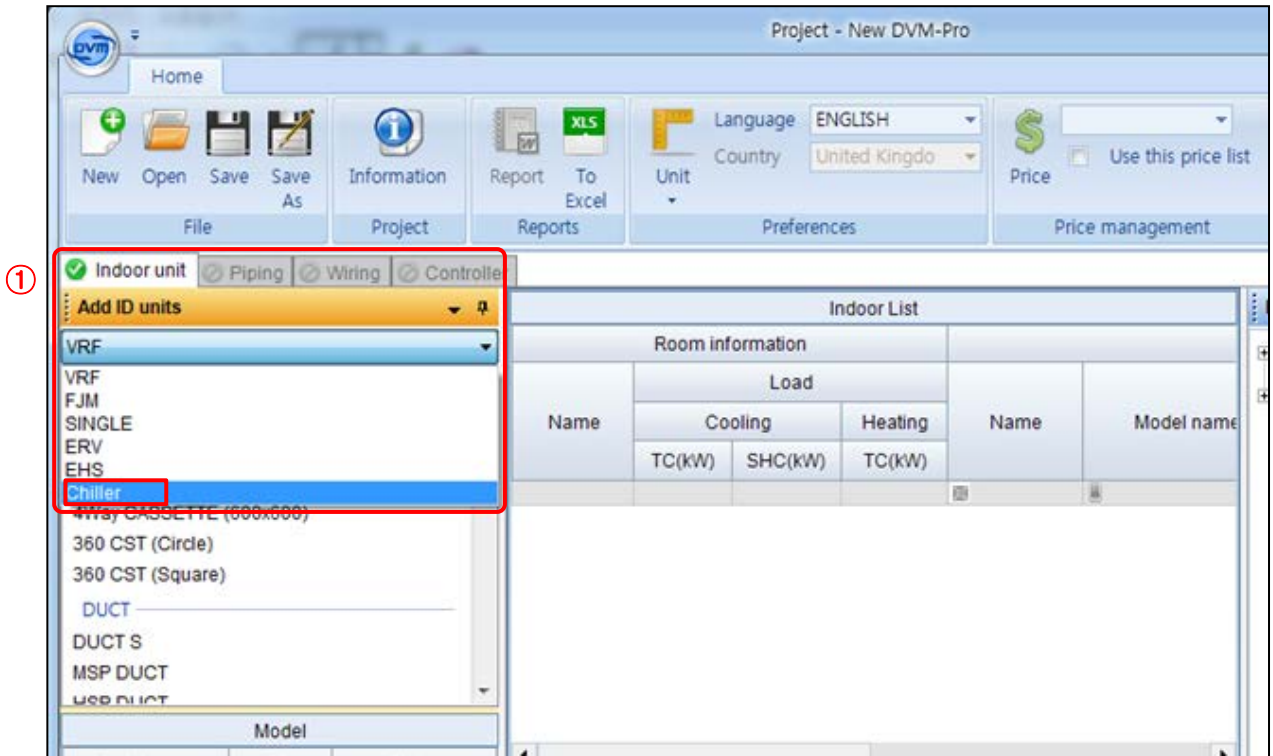
C	Cooling		Heating	
	Outdoor	Indoor	Outdoor	Indoor
DB.Temp	30.0	27.0	-5.0	20.0
WB.Temp	24.0	19.0	0.0	15.0
R.H.(%)	61.0	47.0	0.0	59.0

No.	Function	Description
①	New	Create new project
②	Project Name	Input project name ※ This project name is used as a file name when it is saved.
③	Customer information	Input detailed customer information(optional)
③	Designer information	Input detailed designer information(optional)
④	Design condition (Region)	Select the city or state(optional)
⑤	Design condition (Weather)	Input weather condition(Temp. Humidity) ※ This data is applied when entering outdoor information.

# III. How to Select DVM Chiller

## 2. Select a product type

- Select the product type on the indoor unit tap.



No.	Function	Description
①	Select the product type	Click VRF → Select “Chiller” type on drop & down menu

# III. How to Select DVM Chiller

## 3. Input load requirements

- To select DVM Chiller, users need to input load requirements on “FCU & Room List”.
- There are two methods to input load requirements.
  - 3.1 Directly Input load requirements
    - Users can enter the load requirements for each room, or the total load for one DVM Chiller system.
    - Users can select DVM Chiller based on the entered load information.
  - 3.2 Input load by generating FCU/AHU models
    - When users want to design with their regional FCU/AHU, enter the information with the button “FCU/AHU List”. With this function, “FCU/AHU management”, users can design DVM Chiller same as VRF. Users also can save the FCU/AHU list on their PC.
    - “FCU/AHU management” function can be utilized when you design other projects and also share to other users.
- After entering information on “FCU & Room List” and placing that rooms or FCUs/AHUs to “Chiller List”, then new window, “Chiller Selection” is popped up.

# III. How to Select DVM Chiller

## 3.1 Directly Input load requirements

### 3.1.1 Input load requirements(Each room / total)

- Input load requirements for each room or total 1 system on “FCU & Room List”.

test\_test - New DVM-Pro

Home

New Open Save Save As Information Report To Excel Language ENGLISH Country United Kingdo Price Use this price list FCU / AHU List FCU / AHU management

Indoor unit Piping Wiring Controller

Add ID units

Chiller

FCU Model

Model name	Qty
FCU-58	
FCU-66	
FCU-76	
FCU-87	

FCU & Room List

Room information				Name
① Name	Load			
	Cooling	Heating		
	② TC(kW)	③ SHC(kW)	④ TC(kW)	
SYS-01	300.00	250.00	300.00	
SYS-02	500.00	425.00	530.00	
Room-1	20.00	18.00	22.00	
Room-2	15.00	13.00	15.00	
Room-3	30.00	25.00	28.00	
Room-4	10.00	8.00	12.00	

No.	Function	Description
①	Input Room Name	User can input room names, zone names or system names.
②	Cooling TC	Input the cooling TC load for each space. ※ This is used for the chiller selection.
③	Cooling SHC	Input the cooling SHC load for each space. ※ This is used for the chiller selection.
④	Heating TC	Input the heating TC load for each space. ※ This is used for the chiller selection.

# III. How to Select DVM Chiller

## 3.2 Input load by generating FCU/AHU models

### 3. 2. 1. Generating FCU/AHU models

- With the function “FCU/AHU management”, users can generate FCU/AHU by entering product information.
- Users can design DVM Chiller same as VRF.
- Users also can save the FCU/AHU list on their PC.
- “FCU/AHU management” function can be utilized when you design other projects and also share to other users.

No.	Function	Description
①	FCU/AHU Management	Manage the FCU/AHU Spec.
②	Model name	Input the model name of FCU&AHU. ※ This is shown in the indoor model list.
③, ④	Input product spec.	Input the product Spec ※ If you want user defined model, you must fill in the capacity and flow rate data. Another is optional, This is used for selecting chiller capacity.
⑤	Import & Export	User can be make the FCU&AHU spec. file by excel, and share the data with other.
⑥	Ok & Cancel	Save the product specification or cancel.

# III. How to Select DVM Chiller

## 3.2 Input load by generating FCU/AHU models

### 3. 2. 2. Select FCU / AHU

- Select FCU/AHU following below steps.
  1. Enter room names on “Room information”, and click the room you want to place FCU/AHU.
  2. Select the model on “FCU Model” list and enter the quantity.
  3. Click “Add” button.
- Sum of FCUs/AHUs is represented on “Room information”  
The capacity(load) of FCU/AHU takes priority though users already input load requirements on “Room information”.
- Selected FCUs/AHUs can be moved to other rooms by drag & drop.

Indoor unit | Piping | Wiring | Controller

Add ID units

Chiller

FCU Model	
Model name	Qty
FCU-58	1
FCU-66	1
FCU-76	1
FCU-87	1

Room information

Name	Load		FCU
	Cooling	Heating	
	TC(kW)	SHC(kW)	TC(kW)
Room-1	45.00	33.00	57.30
Room-2	16.30	12.10	20.70

FCU

Name	Model name	Cooling		Heating	Flow Rate
		TC(kW)	SHC(kW)	TC(kW)	LPM
Room-11	FCU-58	5.80	4.10	7.50	16.62
Room-12	FCU-66	6.60	4.70	8.40	18.92
Room-13	FCU-76	7.60	5.60	9.70	21.78
Room-14	FCU-87	8.70	6.50	11.00	24.94
Room-15	FCU-87	8.70	6.50	11.00	24.94
Room-16	FCU-76	7.60	5.60	9.70	21.78
Room-21	FCU-87	8.70	6.50	11.00	24.94
Room-22	FCU-76	7.60	5.60	9.70	21.78

Chiller List

Name	Model name	Qty	Cooling			Heating		
			Nominal Cap	Simulated Ca	Load Profile	Nominal Cap	Simulated Ca	Load Profile
			TC(kW)	TC(kW)	%	TC(kW)	TC(kW)	%

Add

No.	Function	Description
①	Room name	Input the room name.
②	Select the FCU model	After selecting a room, select the FCU model and input the quantity.
③	Click the Add	Click “Add” to select the FCU model for the selected room.
④	Move the FCU model	User can move the FCUs/AHUs to other rooms by drag & drop.



# III. How to Select DVM Chiller

## 3.2 Input load by generating FCU/AHU models

### 3. 2. 3. Select FCU Accessories (Optional)

- Select applicable accessories for FCUs following below steps.
  1. Select one FCU model or several models.
  2. Click “Accessory” tap.
  3. Firstly select FCU Kit(AIM-F00N/MIM-F00N), after then the selection of wired remote controller and external temperature sensor can be selected.

Accessory

	Model name	Descripti
③	<input checked="" type="checkbox"/> MIM-F00N	FCU Acces
	<input type="checkbox"/> MWR-SH10N	WIRED REN
④	<input type="checkbox"/> MRW-TA	EXTERNAL

FCU & Room List

Room information				FCU				
Name	Load			Name	Model name	Cooli		
	Cooling		Heating					
	TC(kW)	SHC(kW)	TC(kW)					
Room-1	45.00	33.00	57.30	Room-11	FCU-58	5.80		
				Room-12	FCU-66	6.60		
				Room-13	FCU-76	7.60		
				Room-14	FCU-87	8.70		
				Room-15	FCU-87	8.70		
				Room-16	FCU-76	7.60		
Room-2	16.30	12.10	20.70	Room-21	FCU-87	8.70		
				Room-22	FCU-76	7.60		

Chiller List

Name	Model name	Qty	Cooling			
			Nominal Cap	Simulated Ca	Load Profile	Nominal C
			TC(kW)	TC(kW)	%	TC(kW)

Add ID units

Accessory

Building1

No.	Function	Description
①	Select FCU model	Select the FCU model to chose accessories.
②	Click the “Accessory” tab	Applicable accessory items are represented according to the selected FCU & AHU.
③	Select the FCU Kit	After clicking a check box, “Model name” on “FCU & Room list” is marked.
④	Select another accessory	Users have to select the “FCU Kit” first and then can select other accessories.

# III. How to Select DVM Chiller

## 4. Select DVM Chiller

### a. Connect FCU/AHU to DVM Chiller

- Select rooms or FCUs/AHUs together which connect to one chiller system.
- After placing that rooms or FCUs/AHUs to “Chiller List” by drag & drop, new window “Chiller Selection” is popped up.

The screenshot displays two tables within a software application. The top table, titled 'FCU & Room List', is divided into 'Room information' and 'FCU' sections. The 'Room information' section has columns for Name, Load (Cooling TC(kW), Heating TC(kW)), and SHC(kW). The 'FCU' section has columns for Name, Model name, and Cooling (TC(kW), SHC(kW)). The bottom table, titled 'Chiller List', has columns for Name, Model name, Q'ty, and Cooling (Nominal Cap, Simulated Ca, Load Profile, Nominal Cap, Simu). A red dashed arrow points from the 'Room-1' row in the 'FCU & Room List' table to the 'Chiller List' table. A large red box with the text 'DRAG & DROP' is overlaid on the bottom half of the interface.

FCU & Room List						
Room information				FCU		
Name	Load		Name	Model name	Cooling	
	Cooling TC(kW)	Heating TC(kW)			TC(kW)	SHC(kW)
Room-1	28.70	20.90	Room-11	FCU-58	5.80	
			Room-12	FCU-66	6.60	
			Room-13	FCU-76	7.60	
			Room-14	FCU-87	8.70	
Room-2	16.30	12.10	Room-21	FCU-87	8.70	
			Room-22	FCU-76	7.60	
Zone-1	30.00	25.00				
Zone-2	50.00	40.00				

Chiller List							
Name	Model name	Q'ty	Cooling			Nominal Cap	Simu
			Nominal Cap	Simulated Ca	Load Profile		
			TC(kW)	TC(kW)	%	TC(kW)	TC

**DRAG & DROP**

# III. How to Select DVM Chiller

## 4. Select DVM Chiller

### b. Input design conditions and check capacity correction functions

- Input design data with the following steps.
  - After entering design conditions, click the button “Select Chiller”.
  - Select DVM Chiller among the recommended chiller list.
  - Click “OK” button to complete the selection of DVM Chiller.
- If there is no recommended chiller on the list, please check operation limits with TDB and an installation manual.
  - ※ Users need to check design conditions such as ambient temperature, LWT, EWT, water flow rate, brine ratio, and so on.

**Chiller selection window**

Chiller: DVM Chiller    HEAT PUMP    HP Chiller

Name: New Chiller    Sys. Operation Mode: Heat Pump    Product Type: PUMP NOT INCL

**Design condition**

OA Temp. Cooling: 35 C    Heating: 7 C    Sys. Load Cooling: 220.00 kW    Heating: 230.00 kW    220.00 / 220.00 (100.00%)    230.00 / 230.00 (100.00%)

LW Temp. Cooling: 7 C    Heating: 45 C    Cooling Water Temp. Cooling:    Heating: 39.8 C

Anti freeze Type: Ethylene glyc    Altitude:    m    Concentration: 50 %    Defrosting correction

**Select Chiller**

Model name	Qty	Power supply	Cooling						Heating					
			Nominal Capacity TC(kW)	Simulated Capacity TC (kW)	Load Profile %	EW Temp. C	Flow Rate LPM	Pressure Drop / ESP mmAq	Nominal Capacity TC(kW)	Simulated Capacity TC (kW)	Load Profile %	EW Temp. C	Flow Rate LPM	
AG056KSVANH/EU	4	3,4,38...	224.00	224.00	101.82	7.00	630.60	10252.35	224.00	224.00	97.39	45.00	630.60	
AG042KSVANH/EU	5	3,4,38...	210.00	210.00	95.45	7.00	630.60	6783.27	210.00	210.00	91.30	45.00	630.60	
AG070KSVANH/EU	3	3,4,38...	195.00	195.00	88.64	7.00	630.60	15247.04	208.50	208.50	90.65	45.00	630.60	
AG042KSVANH/EU	6	3,4,38...	252.00	252.00	109.57	7.00	630.60	8839.45	278.00	278.00	120.87	45.00	630.60	
AG070KSVANH/EU	4	3,4,38...	260.00	260.00	118.18	7.00	630.60	8839.45	278.00	278.00	120.87	45.00	630.60	

**Chiller recommendation & Spec. (p.21)**

Items	Unit	AG056KSVANH/EU
Power Input (Nominal, C/H)	kW	18.67 / 17.5
Current Input (Nominal, C/H)	A	29.6 / 27.8
Maximum current	A	MCA 46
MCCB+ELB / ELCB	A	MFA 60
Water Pipe Connection (Inlet/Outlet, Nominal)	Ø,mm(in)	40 (1 1/2)
Pump Input / Output	kW	- / -
Power/Communication wires	mm2	- 0.75 ~ 1.5
Net Dimensions (WxHxD)	mm	1795x1695x765
Water Temp. Range [C(Brine)/H]	C	5 ~ 25 (-10 ~ 25) 25 ~ 55
Water Flow Range / Min. Water Storage	LPM/liter	80 ~ 320 392
Amb. Temp. Range (C/H)	C	-15 ~ 48 -25 ~ 43

OK Cancel

# III. How to Select DVM Chiller

## 4. Select DVM Chiller

### c. Descriptions for design condition factors

The screenshot shows the 'NewOutdoorChiller' window. At the top, there are dropdown menus for 'Chiller' (set to 'DVM Chiller'), 'HEAT PUMP', and 'HP Chiller'. Below these are input fields for 'Name' (1), 'Sys. Operation Mode' (2), and 'Product Type' (3). The 'Design condition' section contains several input fields: 'OA Temp.' (4) for Cooling (35) and Heating (7), 'Sys. Load' (6) for Cooling (40 kW) and Heating (50 kW), 'Flow Rate' (8) for Cooling (120 LPM) and Heating (120 LPM), 'LW Temp.' (5) for Cooling (7) and Heating (44), and 'EW Temp.' (9) for Cooling and Heating. There are also checkboxes for 'Anti freeze Type' (10) set to 'Ethylene glyc', 'Altitude' (12) set to 100 m, 'Concentration' (11) set to 40%, and 'Defrosting correction' (13). A 'Select Chiller' button (14) is at the bottom.

No.	Function	Description
①	Name	Input the system name. This name is used at the report.
②	Sys. Operation Mode	Select the operation mode(Heat Pump / Cooling / Heating).
③	Product Type	Select “PUMP INCLUDED” or “PUMP NOT INCLUDED”.
④	OA Temp.	Input ambient temperature.(Consider operation range).
⑤	LW Temp.	Input leaving water temperature.(Consider operation range).
⑥	Sys. Load	Input system load. (Firstly shows the load from previous steps).
⑦	Guide for load	Input load / Sum of FCUs capacity (Ratio).
⑧	Flow Rate	Input the water flow rate, when users don’t use entering water temperature.
⑨	EW Temp.	Input the entering water temperature, when users don’t use water flow rate.
⑩	Anti freeze Type	When user consider anti freezing fluid, click the check box and select the anti freezing type. If leaving temperature is lower than 5 °C, user have to click check box.
⑪	Concentration	Input the concentration. (please refer to the installation manual and TDB)
⑫	Altitude	Capacity correction function by altitude of installation region.
⑬	Defrosting correction	Capacity correction function by the defrosting operation only for heating.
⑭	Select Chiller	After review input data, click “Select Chiller”

# III. How to Select DVM Chiller

## 4. Select DVM Chiller

### d. Descriptions for recommended chillers

① Model name	② Qty	③ Power supply	④	⑤	⑥ Cooling		⑦	⑧	⑨	Heating						⑩ Status
			Nominal Capacity TC(kW)	Simulated Capacity TC (kW)	Load Profile %	EW Temp. C	Flow Rate LPM	Pressure Drop / ESP mmAq	Nominal Capacity TC(kW)	Simulated Capacity TC (kW)	Load Profile %	EW Temp. C	Flow Rate LPM	Pressure Drop / ESP mmAq		
AG042KSVGNIH/EU	1	3,4,38...	42.00	42.86	120.40	7.00	120.00	26230.52	42.00	40.08	88.28	44.00	120.00	26230.52	Active	
AG056KSVGNIH/EU	1	3,4,38...	56.00	57.15	160.54	7.00	120.00	26230.52	56.00	53.44	117.70	44.00	120.00	26230.52	Active	
AG070KSVGNIH/EU	1	3,4,38...	65.00	66.34	186.34	7.00	120.00	22568.42	69.50	66.32	146.08	44.00	120.00	22568.42	Active	
AG042KSVGNIH/EU	2	3,4,38...	84.00	85.73	240.81	7.00	120.00	32227.85	84.00	80.16	176.55	44.00	120.00	32227.85	Active	

Items	Unit	AG056KSVGNIH/EU
Power Input (Nominal, C/H)	kW	20.14 / 18.48
Current Input (Nominal, C/H)	A	34.2 / 32.4
Maximum current	A	MCA 53
MCCB+ELB / ELCB	A	MFA 60
Water Pipe Connection (Inlet/Outlet, Nominal)	Ø,mm(in)	40 (1 1/2)
Pump Input / Output	kW	1.68 / 1.45
Power/Communication wires	mm2	- 0.75 ~ 1.5
Net Dimensions (WxHxD)	mm	1795x1695x765
Water Temp. Range [C(Brine)/H]	C	5 ~ 25 (-10 ~ 25) 25 ~ 55
Water Flow Range / Min. Water Storage	LPM/liter	80 ~ 320 392
Amb. Temp. Range (C/H)	C	-15 ~ 48 -25 ~ 43

⑪ OK Cancel

No.	Function	Description
①	Model name	Product model name
②	Q'ty	Quantity of chillers
③	Power supply	Power supply
④	Nominal Capacity	Cooling Nominal Capacity
⑤	Simulated Capacity	Cooling Simulated Capacity
⑥	Load Profile	Load profile(⑤)/Total load)
⑦	EW Temp.	Entering water temperature
⑧	Flow Rate	Water flow rate
⑨	Pressure Drop/ESP	Pressure drop of chiller according to water flow rate
⑩	Status	Running
⑪	OK / Cancel	-
⑫	Product Spec.	Selected product spec.

# III. How to Select DVM Chiller

## 5. Building management

- Place the selected chiller and rooms to each installation floor on “Building management” by drag & drop.
- After placing all of products to spaces on “Building management” , Controller tap and Report button is activated.

The screenshot displays the 'Building management' interface. On the left, a table titled 'FCU & Room List' contains room information and a chiller list. On the right, a tree view shows the building structure with floors and rooms.

**Room information table:**

Name	Load		Name	Model name
	Cooling TC(kW)	SH		
Room1_New C...	11.60		Room11	FCU-58
Room2_New C...	6.60		Room12	FCU-58
Room3_New C...	17.40		Room21	FCU-66
			Room31	FCU-87
			Room32	FCU-87

**Chiller list table:**

Name	Model name	Qty	Nominal Cap TC(kW)	Simulated Ca TC(kW)	Loc
New Chiller	AG056KSVGNH/EU	1	56.00	56.00	

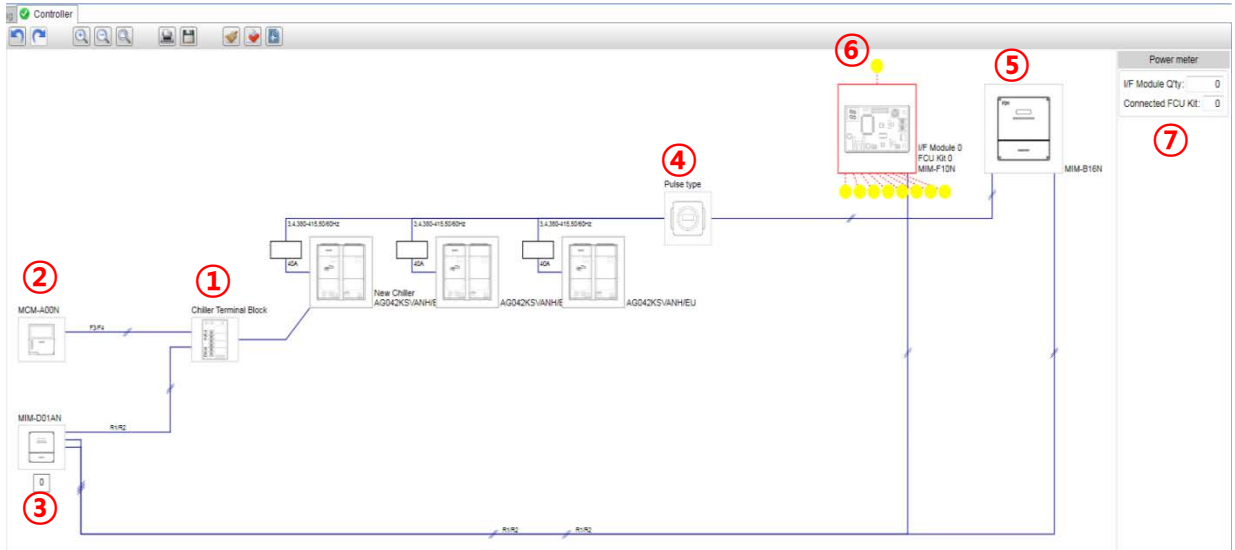
Annotations: A red dashed box labeled '1' highlights the 'Room1\_New C...' row in the room table. A yellow box labeled 'Drag & Drop' is placed over the room table. Another yellow box labeled 'Drag & Drop' is placed over the chiller table. A red dashed box labeled '2' highlights the 'New Chiller' row in the chiller table. Red arrows indicate the drag-and-drop action from the chiller table to the room table.

The screenshot shows the DVM software interface. The 'Report' button is highlighted with a red dashed box and a red circle labeled '2'. The 'Controller' tab is also highlighted with a red dashed box. The 'Indoor unit' tab is selected, and the 'Piping' and 'Wiring' tabs are visible. The 'Add ID units' dropdown menu is open, showing 'Chiller' as the selected option. The 'FCU Model' dropdown menu is also visible.

# III. How to Select DVM Chiller

## 6. Select Controller

- Select controller for DVM Chiller.
- When clicking boxes, available controllers are expressed on the controller list.

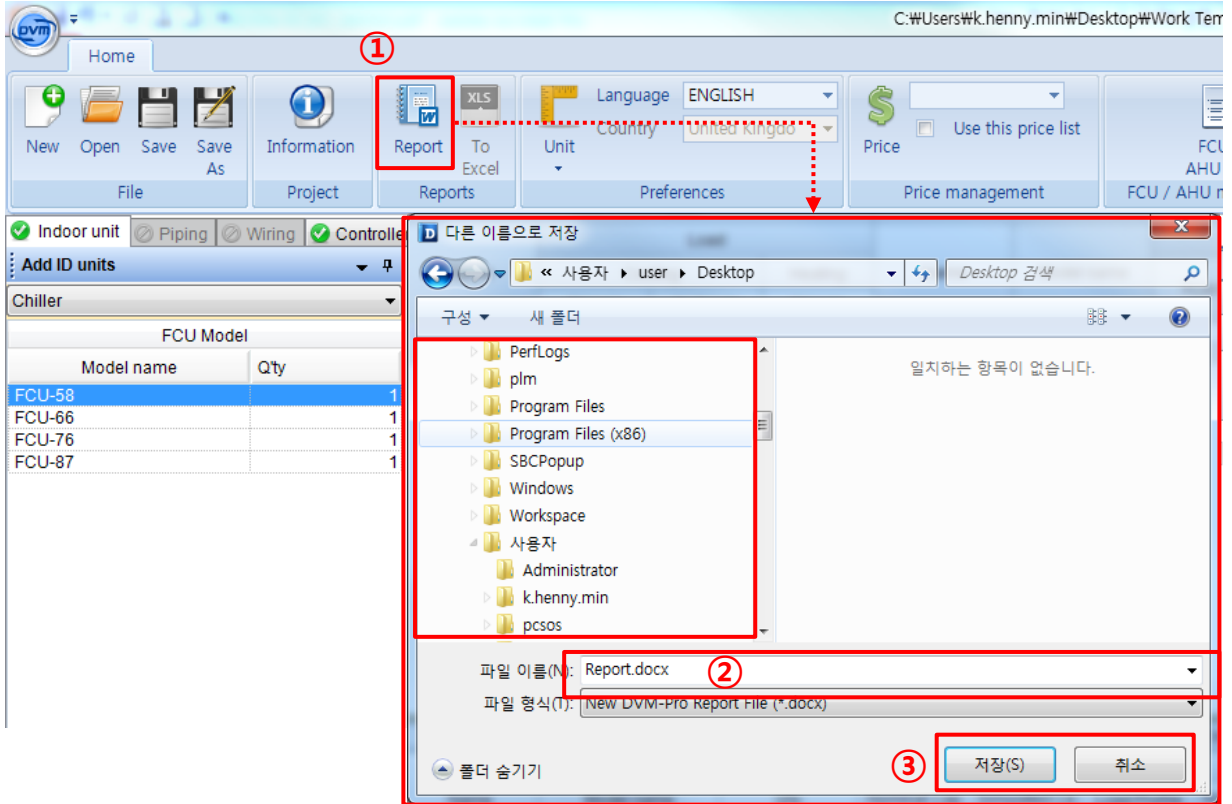


No.	Function	Description
①	Chiller Terminal Block	In order to connect a controller to DVM Chiller, you must select the Chiller Terminal Block first. DVM Chiller is recognized as 1 ODU + 1 IDU on the controller.
②	Module Controller	For setting functions of DVM Chillers, connect a Module controller and the Chiller Terminal Block using a F3/F4 line. Maximum number of DVM Chillers that can be connected to a Module controller is 16.
③	Control Solution	For control the DVM Chillers, connect DMS 2.5/Touch Controller/Lonworks Gateway/BACnet Gateway and the Chiller Terminal Block using a R1/R2 line. For maximum quantity of ODUs and IDUs that can be connected to each controller, please refer to the controller TDB and the installation manuals.
④	Watt-hour meter	For power monitoring of DVM Chillers, select Watt-hour meter. Watt-hour meter is connected with PIM/SIM.
⑤	PIM/SIM	For power monitoring of DVM Chillers, select PIM/SIM. PIM/SIM is connected with DMS2.5, Lonworks Gateway or BACnet Gateway using a R1/R2 line. For maximum quantity of Watt-hour meters that can be connected to PIM/SIM, please refer to the controller TDB and the installation manual.
⑥	FCU interface module	In order to connect a FCU KITs to DMS 2.5, you must select the FCU interface modules. FCU KIT and FCU interface module is for integrated control of FCU with DVM CHILLER by DMS 2.5 Maximum number of FCU interface modules that can be connected to a DMS 2.5 is 80, maximum number of FCU KITs that can be connected to a FCU interface module is 16, and maximum number of FCU KITs that can be connected to a DMS 2.5 is 256. Maximum number of FCU interface modules that can be installed to a channel of DMS2.5 is 16 (Max. 128 FCU KITs).
⑦	Quantity input field for FCU interface modules and FCU KITs	According to the connection guide for quantity, input quantities of connected FCU interface modules and FCU KITs.

# III. How to Select DVM Chiller

## 7. Report

- Generate the report with clicking “Report” button and save on PC.
- Support 2 types of reports, an existing basic report and a chiller report.



No.	Function	Description
①	Report	Generate and save the project file which includes all of designed information. 2 types of reports are generated and saved. - Existing VRF/Chiller report - Additional report which commonly used in chiller market
②	File name	Users can change the file name.
③	Save / Cancel	-