

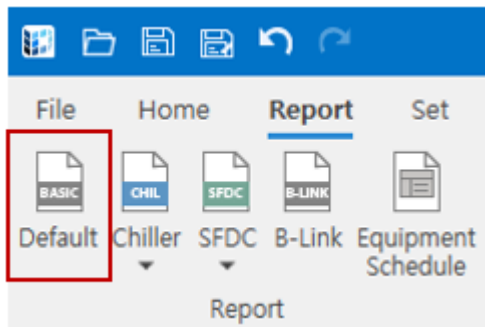
Contents

1. Report.....	3
1.1. Report.....	3
1.1.1. Default Report.....	3
1.1.1.1. Default Report Options.....	5
1.1.1.1.1. Setting.....	6
1.1.1.1.2. Price.....	7
1.1.1.1.3. RAC Model.....	8
1.1.1.1.4. Service Model.....	9
1.1.2. Chiller Report.....	10
1.1.2.1. Chiller Report Options	10
1.1.2.1.1. Options.....	11
1.1.2.1.2. Calculation Result	11
1.1.2.2. Chiller Default Report.....	12
1.1.2.3. Chiller AHRI Report.....	14
1.1.2.4. Chiller LCP Report	16
1.1.3. SFDC Report.....	18
1.1.3.1. SFDC Report Options.....	18
1.1.3.2. SFDC Excel Report.....	19
1.1.3.3. SFDC Dot Report	21
1.1.3.4. SFDC Comma Report.....	23
1.1.4. B-Link Report.....	25
1.1.5. Equipment Schedule Report	27
1.2. Export.....	29
1.2.1. All PNG	29
1.2.2. All SVG.....	30
1.2.3. All DWG	31

1. Report

1.1. Report

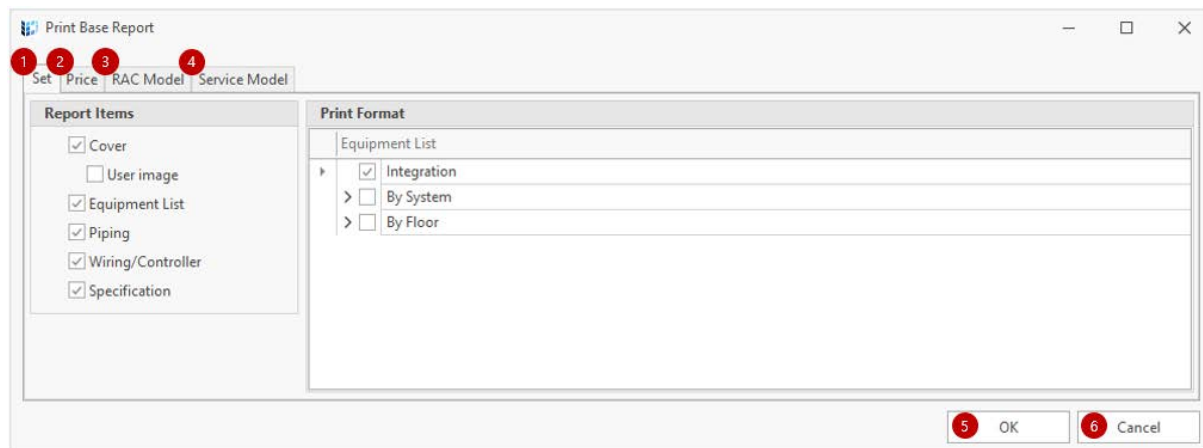
1.1.1. Default Report



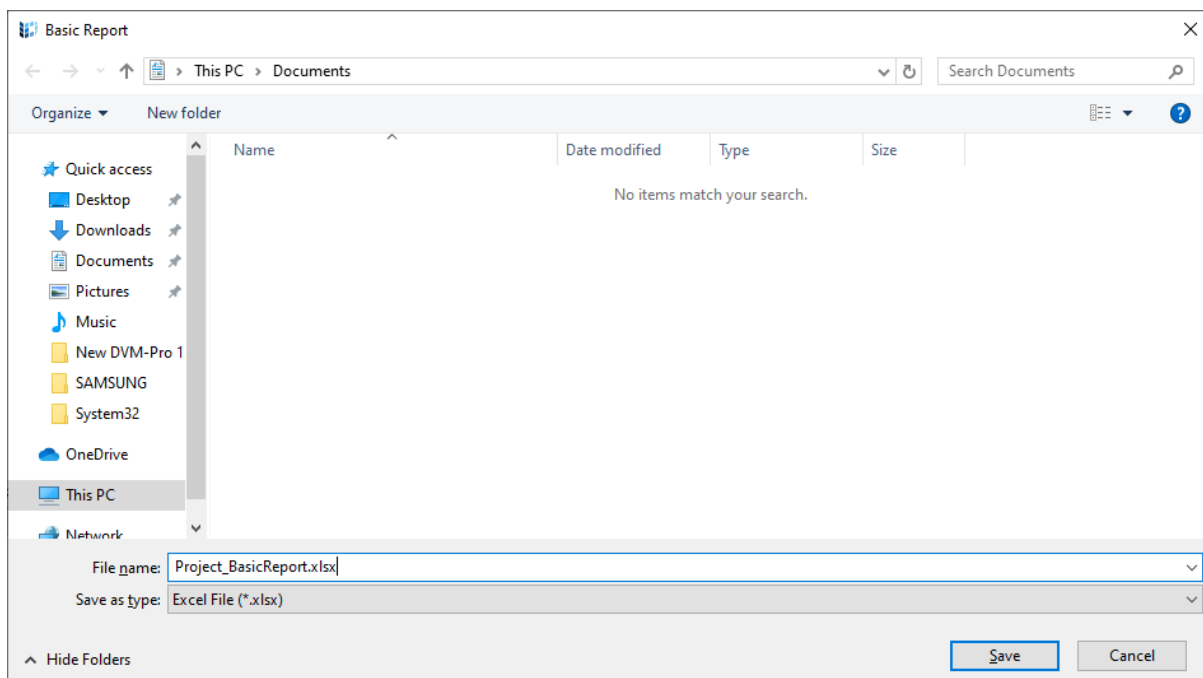
Export a default report for the project you are designing. The default report can be export as an Excel file, and the cover sheet, equipment list, piping system, wiring/controller, and specifications are export.

Page 4 / 31

1.1.1.1. Default Report Options



- ① Setting : You can set the export item, save format, and export format.
- ② Price : You can apply the unit price list to be applied to the model, and you can set additional items and prices for each export format selected on the settings tab.
- ③ RAC Model : You can select a RAC model and add it to your report.
- ④ Service Model : You can select a service model and add it to your report.
- ⑤ OK : The report is exported with the options you set.



- ⑥ Cancel : Cancel the default report export and closes the window.

1.1.1.1.1. Setting

The screenshot shows the 'Print Base Report' dialog box. It has four tabs: 'Set', 'Price', 'RAC Model', and 'Service Model'. The 'Set' tab is selected. Inside the 'Set' tab, there are two main sections: 'Report Items' and 'Print Format'. The 'Report Items' section contains a list of items with checkboxes: 'Cover' (checked, marked with a red circle 1), 'User image' (unchecked, marked with a red circle 2), 'Equipment List' (checked, marked with a red circle 3), 'Piping' (checked, marked with a red circle 4), 'Wiring/Controller' (checked, marked with a red circle 5), and 'Specification' (checked, marked with a red circle 6). The 'Print Format' section contains a list of items with checkboxes: 'Integration' (checked, marked with a red circle 7), 'By System' (checked, marked with a red circle 8), and 'By Floor' (checked, marked with a red circle 9). Under 'By System', there are three sub-items: 'System1', 'System2', and 'System3', all of which are checked. Under 'By Floor', there are two sub-items: 'R' and '1F', both of which are checked. At the bottom right of the dialog, there are 'OK' and 'Cancel' buttons.

- ① Cover : Set whether to export the report cover.
- ② User image : Set whether to export user image on the report cover.
- ③ Equipment List : Set whether to export the equipment list in the report.
- ④ Piping : Set whether to export piping in the report.
- ⑤ Wiring/Controller : Set whether to export wiring/controller in the report.
- ⑥ Specification : Set whether to export the specifications in the report.
- ⑦ Integration : Set whether to export the integrated form.
- ⑧ By System : Set whether to export each system forms.
- ⑨ By Floor : Set whether to export each floor form.

1.1.1.1.2. Price

Print Base Report

Set Price RAC Model Service Model

1 ☒ Use the unit price table 2 New1 Currency 3

4 + 5 - 6 Copy 7 Paste

Print Format

8 OK

9 By System

System1

System2

System3

10 By Floor

R

1F

11 Additional Content	12 Price
1_Please enter additional items.	0
2_Please enter additional items.	0
3_Please enter additional items.	0

OK Cancel

- ① Use the unit price table : Set whether to export the unit price using the unit price table by the equipment unit price management function.
- ② Unit price table list : In the equipment unit price management function, the list of unit price tables for the country (the same country as the design country) managed is displayed and you can select the unit price table to be used.
- ③ Currency : The unit of the selected unit price list is displayed.
- ④ Add : Add one row to the item table
- ⑤ Delete : Delete one selected row from the Item table.
- ⑥ Copy : Copies the currently selected item table to the clipboard.
- ⑦ Paste : Sets the currently selected item table as the item table information copied to the clipboard.
- ⑧ Integration : When selected, the data is displayed in the Items table of the integrated form.
- ⑨ By System : When you select a system, the data is displayed in the Items table on that system form.
- ⑩ By Floor : When you select a floor, the data is displayed in the item table of the floor form.
- ⑪ Additional Content : Set the content to be added to the selected export form.
- ⑫ Price : Set the price to be added as an additional item in the selected form.

1.1.1.1.3. RAC Model

Print Base Report

Set Price RAC Model Service Model

1 RAC Model that could be added 2 Add 3 Added RAC Model 4 Delete

Product Class	Product Family	Product Series	Indoor Unit	Outdoor Unit
Wall Mounted	AIRISE STD	WindFree	AR09TXHZA...	AR09TXHZA...
Wall Mounted	AIRISE STD	Non WindFree	AR12TXFCA...	AR12TXFCA...
Wall Mounted	AIRISE STD	WindFree	AR12TXHZA...	AR12TXHZA...
Wall Mounted	AIRISE STD	Non WindFree	AR18TXFCA...	AR18TXFCA...
Wall Mounted	AIRISE STD	WindFree	AR18TXHZA...	AR18TXHZA...
Wall Mounted	AIRISE STD	Non WindFree	AR24TXFCA...	AR24TXFCA...
Wall Mounted	AIRISE STD	WindFree	AR24TXHZA...	AR24TXHZA...
Wall Mounted	Boracay	New Boracay	AR09NXFHB...	AR09NXFHB...

Product Class	Product Family	Product Series	Indoor Unit	Outdoor Unit	Qty.
---------------	----------------	----------------	-------------	--------------	------

OK Cancel

- ① RAC Model that could be added : A list of RAC models that can be added in the project country currently being designed is displayed.
- ② Add : The RAC model selected from the Addable RAC Models table is added to the Added RAC Models table.
- ③ Added RAC Model : The added RAC models are included in the report when export.
- ④ Delete : The selected RAC model is deleted from the added RAC model table.
- ⑤ Product Class : The product class of the RAC model that can be added is displayed.
- ⑥ Product Family : The product family of the RAC models that can be added are displayed.
- ⑦ Product Series : The Product series of the RAC models that can be added are displayed.
- ⑧ Indoor Unit : The indoor unit model code of the RAC model that can be added is displayed.
- ⑨ Outdoor Unit : The outdoor unit model code of the RAC model that can be added is displayed.
- ⑩ Product Class : The product class of the added RAC model is displayed.
- ⑪ Product Family : The product family of the added RAC model is displayed.
- ⑫ Product Series : The product series of the added RAC model is displayed.
- ⑬ Indoor Unit : The indoor unit code of the added RAC model is displayed.
- ⑭ Outdoor Unit : The outdoor unit code of the added RAC model is displayed.
- ⑮ Qty. : Set the number of added RAC models.

1.1.1.1.4. Service Model

Print Base Report

Set Price RAC Model Service Model

1 Service Model that could be added 2 Add 3 Added Service Model 4 Delete

Product	Product Class	Product Family	Service Model
---------	---------------	----------------	---------------

Product	Product Class	Product Family	Service Model	Qty.
---------	---------------	----------------	---------------	------

OK Cancel

- ① Service Model that could be added : A list of service models that can be added in the project country currently being designed is displayed.
- ② Add : The service model selected from the Addable Service Models table is added to the Added Service Models table.
- ③ Added Service Model : The added service models are included in the report when exported.
- ④ Delete : The selected service model is deleted from the added service model table.
- ⑤ Product : The product of the service model that can be added is displayed.
- ⑥ Product Class : The product class of the service model that can be added is displayed.
- ⑦ Product Family : The product family of the service model that can be added is displayed.
- ⑧ Service Model : The service model of the service model that can be added is displayed.
- ⑨ Product : The product of the added service model is displayed.
- ⑩ Product Class : The product class of the added service model is displayed.
- ⑪ Product Family : The product family of the added service model is displayed.
- ⑫ Service Model : The service model of the added service model is displayed.
- ⑬ Qty. : Sets the number of added service models.

1.1.2. Chiller Report

1.1.2.1. Chiller Report Options

Chiller Report Options

☒ Export NPLV(Non-standard Part Load Value)

2 Systems

System3(AG056KSVANH/EU)

3 Options

Designed Ambient Temperature: 30.0 °C

Leaving Water Temperature: 7.0 °C

Flow Rate: 148 LPM

ΔT (Entering Water and Leaving Water): 5.0 °C

Calculation Type: Seasonal

Calculation Method: Flow Rate

Load: 100.0 %

Calculated Ambient Temperature: 30.0 °C

4 Calculation Result

Load (%)	Capacity (kW)	LWT (°C)	EWT (°C)	Flow Rate (LPM)	Ambient Temp... (°C)	Power Input (kW)	Efficiency (W/W)
100.00	51.82	7.0	12.0	148	30.0	19.43	2.666
75.00	38.86	7.0	10.8	148	23.6	12.23	3.177
50.00	25.91	7.0	9.5	148	17.1	6.50	3.983
25.00	12.95	7.0	8.3	148	12.8	3.04	4.262

NPLV: 3.665 W/W

Export Cancel

- ① Export NPLV : You can set whether to export NPLV(Non-standard Part Load Value) on the chiller report. When checked, the screen (systems, options, calculation result, ...) is activated.
- ② Systems : Displays a list of chiller systems in the project currently being designed. If the system's NPLV calculation is successful, it is displayed in blue, and if it fails, it is displayed in red. When selecting a system, the information of the system is displayed on the options and calculation result screens. When selecting multiple systems, if the information of the selected systems is the same, the corresponding value is displayed. If the information is not the same, the corresponding value is displayed as '- '.
- ③ Options : Check or set options for NPLV calculation for selected systems.
- ④ Calculation Result : Check the NPLV calculation results of the selected systems.
- ⑤ Error Message : If an error occurs when calculating the NPLV, the cause of the error is displayed.
- ⑥ Export : Export the chiller report and close the window.
- ⑦ Cancel : Cancel the chiller report export and close the window.

The export format of the chiller report supports 3 types, Default, AHRI, and LCP, and the export report option is activated only for Default and AHRI, and LCP is not activated.

1.1.2.1.1. Options

Options			
①	Designed Ambient Temperature	30.0 °C	⑤
②	Leaving Water Temperature	7.0 °C	⑥
③	Calculation Type	Seasonal	⑦
④	Load	100.0 %	⑧
		Flow Rate	148 LPM
		ΔT (Entering Water and Leaving Water)	5.0 °C
		Calculation Method	Flow Rate
		Calculated Ambient Temperature	30.0 °C

- ① Designed Ambient Temperature : Display the designed ambient temperature of the selected system.
- ② Leaving Water Temperature : Display the leaving water temperature of the selected system.
- ③ Calculation Type : Set the calculation type (Seasonal and Single) for the selected system.
- ④ Load : Display the single load of the selected system. It is activated when the calculation type is single and the load can be set.
- ⑤ Flow Rate : Display the flow rate of the selected system.
- ⑥ ΔT (Entering Water and Leaving Water) : Display the ΔT of the selected system.
- ⑦ Calculation Method : Set the flow rate or ΔT.
- ⑧ Calculated Ambient Temperature : Display the calculated ambient temperature.

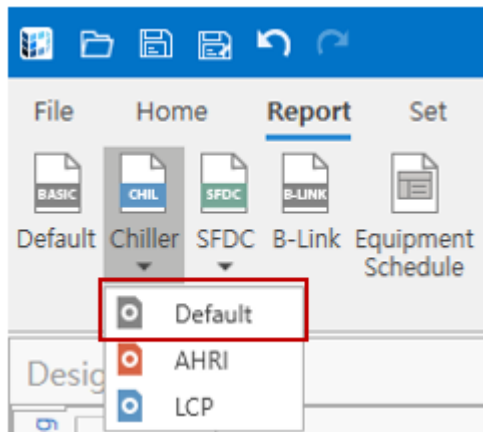
1.1.2.1.2. Calculation Result

Calculation Result															
1	Load	2	Capacity	3	LWT	4	EWT	5	Flow Rate	6	ambient Temp...	7	ower Input	8	iciency
	(%)		(kW)		(°C)		(°C)		(LPM)		(°C)		(kW)		(W/W)
	100.00		51.82		7.0		12.0		148		30.0		19.43		2.666
	75.00		38.86		7.0		10.8		148		23.6		12.23		3.177
	50.00		25.91		7.0		9.5		148		17.1		6.50		3.983
	25.00		12.95		7.0		8.3		148		12.8		3.04		4.262
NPLV	3.665		9	W/W											

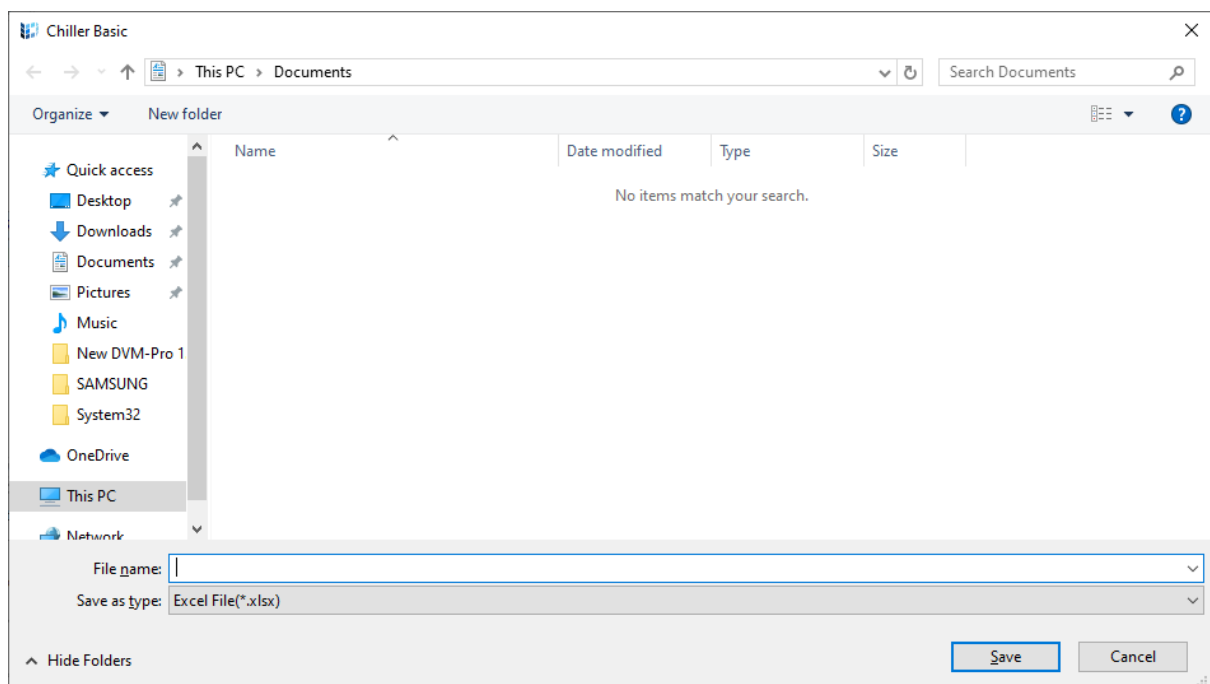
- ① Load : Display the calculated load of the selected system.
- ② Capacity : Display the calculated capacity of the selected system.
- ③ LWT : Display the calculated leaving water temperature of the selected system.
- ④ EWT : Display the calculated entering water temperature of the selected system.
- ⑤ Flow Rate : Display the calculated flow rate of the selected system.
- ⑥ Ambient Temperature : Display the calculated ambient temperature of the selected system.
- ⑦ Power Input : Display the calculated power input of the selected system.

- ⑧ Efficiency : Display the calculated efficiency of the selected system.
- ⑨ NPLV : Display the calculated NPLV of the selected system.

1.1.2.2. Chiller Default Report



Prints the default report of the chiller.

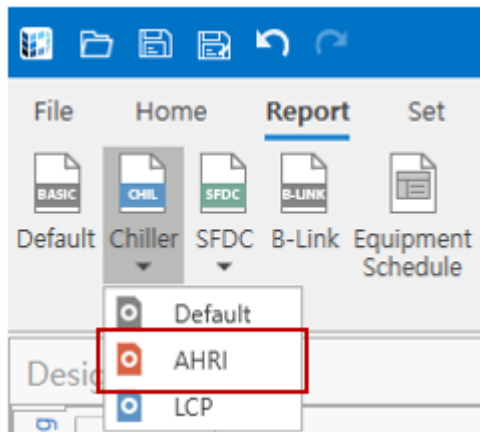


Enter the file name to be saved and click the Save button to save.

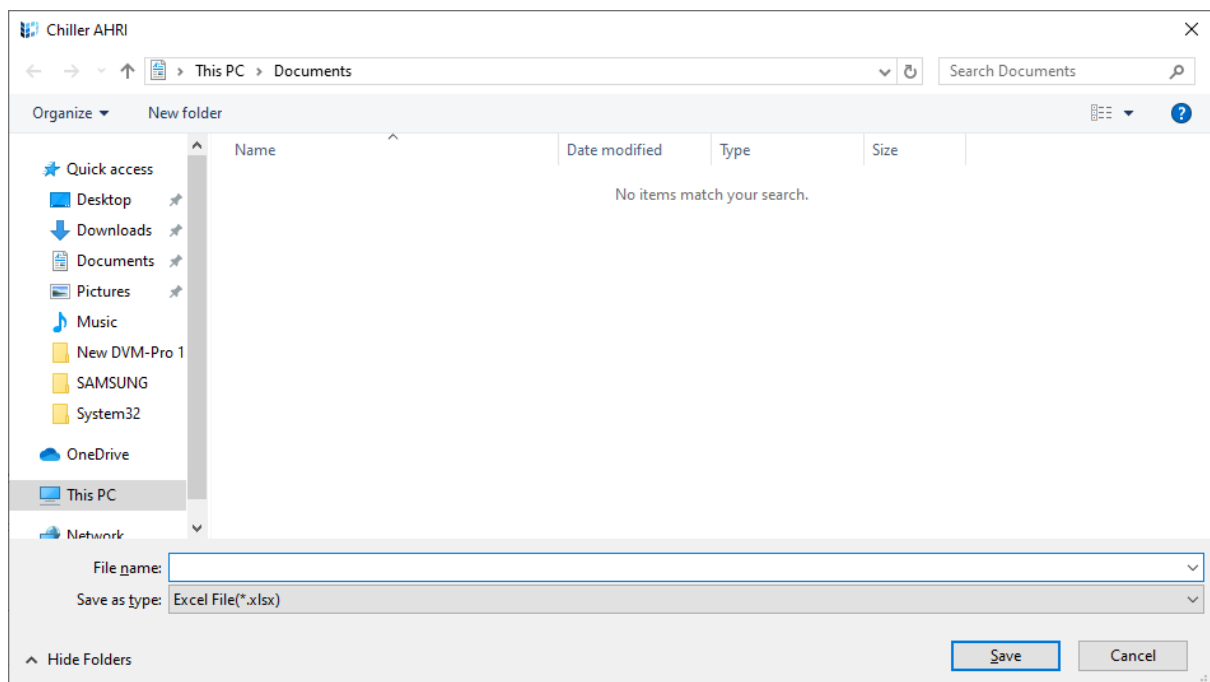
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1																			
2		SAMSUNG																	
3																			
4																			
5		Air-cooled module chiller																	
6																			
7		Model	AG016KSAHH1																
8		Quantity	4																
9		SW Name	DVM Pro Chiller																
10		SW version number	1.0																
11		Unit nominal tonnage																	
12		Unit type	DVM Chiller																
13		Project name	Project																
14		Creation date	11/3/2020																
15																			
16		General																	
17		Cooling Capacity	229.6 kW		ESCR(Pump input is not included)														
18		Heating Capacity	184.0 kW		ESCR(Pump input is included based on EN14511)														
19		Total Power (Cooling)	63.24 kW		Refrigerant type		R410A												
20		Total Power (Heating)	77.10 kW		Refrigerant factory Charge (per single unit)		18.00 kg												
21		Cooling EER	3.631 W/W		Altitude		0 m												
22		Heating COP	2.386 W/W																
23																			
24		Evaporator																	
25		Leaving Water (Cooling)	7.0 °C		Pressure Drop (Cooling)		0.000 Pa												
26		Entering Water (Cooling)	12 °C		Pressure Drop (Heating)		0.000 Pa												
27		Leaving Water (Heating)	45 °C		Min. water flow rate		80.00 LPM												
28		Entering Water (Heating)	40 °C		Max. water flow rate		320.0 LPM												
29		Water flow rate (Cooling)	656.0 LPM		Pressure Drop at min flow rate		0.00 Pa												
30		Water flow rate (Heating)	656.0 LPM		Pressure Drop at max flow rate		0.00 Pa												
31						0.0180 m³-K/kW													
32																			
33																			
34		Condenser																	
35		Ambient air temperature (DB, Cooling)	33 °C		Fan power x Qty. (per single unit)		630.0 kW x 2												
36		Ambient air temperature (DB, Heating)	-6.9 °C		Number of units		4												
37		Ambient air temperature (WB, Heating)	0.0 °C		Total fan power		5040 kW												
38																			
39		Compressor																	



1.1.2.3. Chiller AHRI Report




Export the chiller AHRI report.



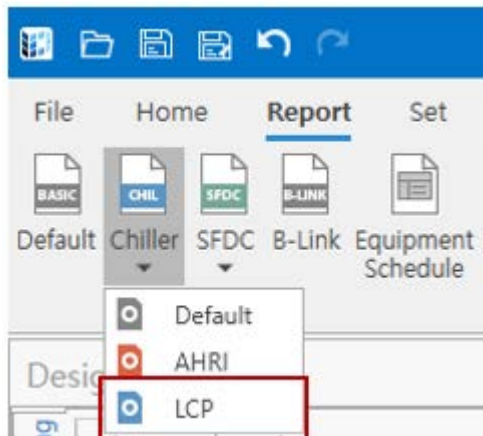
Enter the file name to be saved and click the Save button to save.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1																			
2		SAMSUNG																	
3																			
4																			
5		Air-cooled module chiller																	
6																			
7		Model	AG010KSVAJH/AA																
8		Quantity	4																
9		SW Name	DVM Pro Chiller																
10		SW version number	1.0																
11		Unit nominal tonnage																	
12		Unit type	DVM Chiller																
13		Project name	Project																
14		Creation date	11/3/2020																
15																			
16		General																	
17		Cooling Capacity	153.0 kW				IPLV.SI				6.008 W/W								
18		Heating Capacity	106.4 kW																
19		Total Power (Cooling)	38.33 kW				Refrigerant type				R410A								
20		Total Power (Heating)	47.83 kW				Refrigerant factory charge (per single unit)				18.14 kg								
21		Cooling EER	3.992 W/W				Altitude				0 m								
22		Heating COP	2.224 W/W																
23																			
24		Evaporator																	
25		Leaving Water (Cooling)	7.0 °C				Pressure Drop (Cooling)				0.000 Pa								
26		Entering Water (Cooling)	12 °C				Pressure Drop (Heating)				0.000 Pa								
27		Leaving Water (Heating)	45 °C				Min. water flow rate				59.81 LPM								
28		Entering Water (Heating)	40 °C				Max. water flow rate				181.7 LPM								
29		Water flow rate (Cooling)	725.0 LPM				Pressure Drop at min flow rate				59.8 Pa								
30		Water flow rate (Heating)	725.0 LPM				Pressure Drop at max flow rate				182 Pa								
31							Evap fouling factor				0.0180 m ² ·K/kW								
32											0.000100 h·ft ² ·°F/Btu								
33																			
34		Condenser																	
35		Ambient air temperature (Db, Cooling)	27 °C				Fan power x Qty. (per single unit)				630.0 kW x 2								
36		Ambient air temperature (Db, Heating)	-3.9 °C				Number of units				4								
37		Ambient air temperature (wb, Heating)	0.0 °C				Total fan power				5040 kW								
38																			
39		Compressor																	

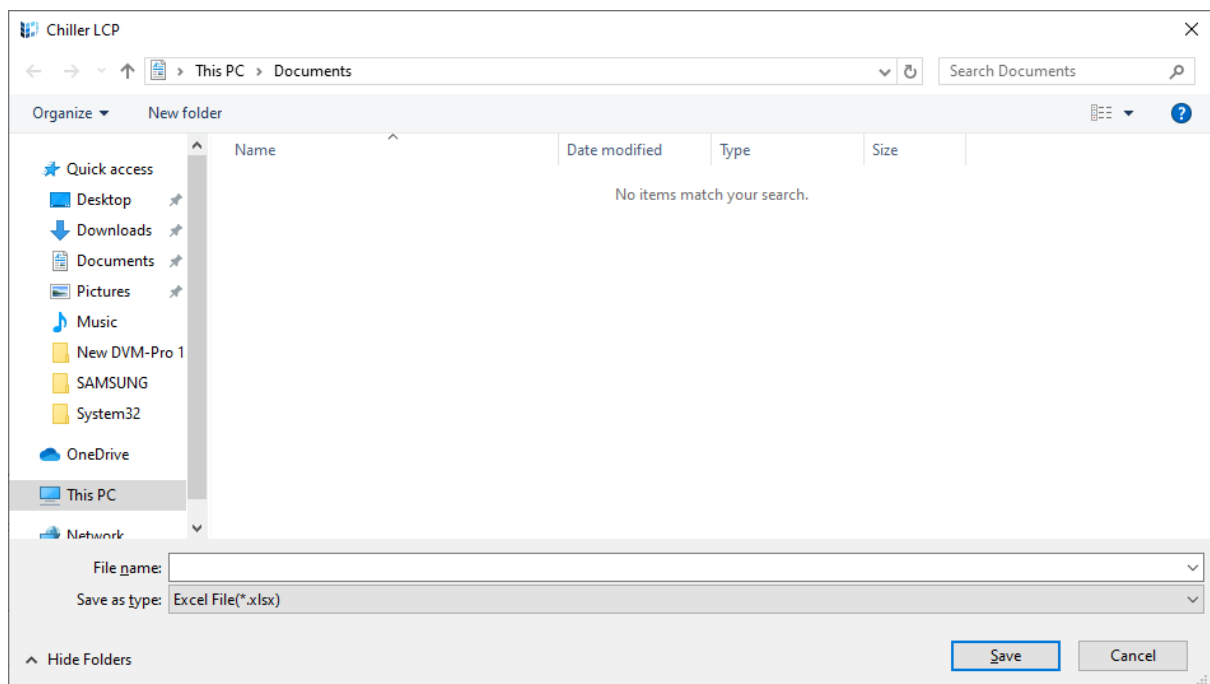


System1_AG010KSVAJH

1.1.2.4. Chiller LCP Report



Export the chiller LCP report.

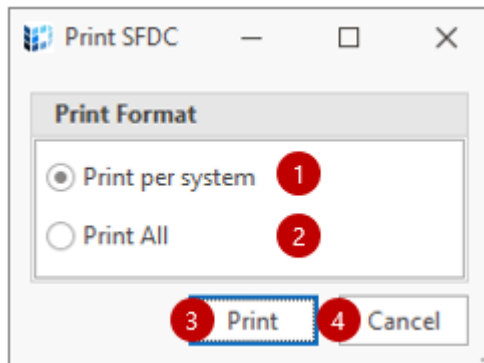


Enter the file name to be saved and click the Save button to save.

Page 17 / 31

1.1.3. SFDC Report

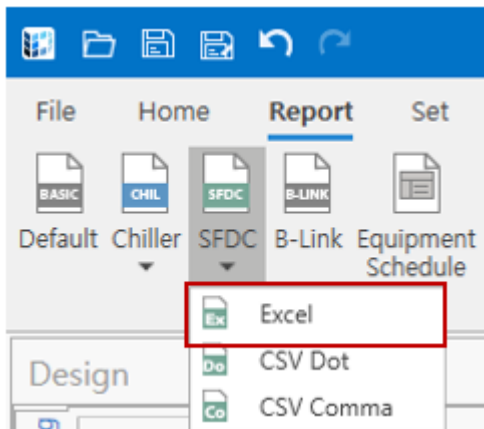
1.1.3.1. SFDC Report Options



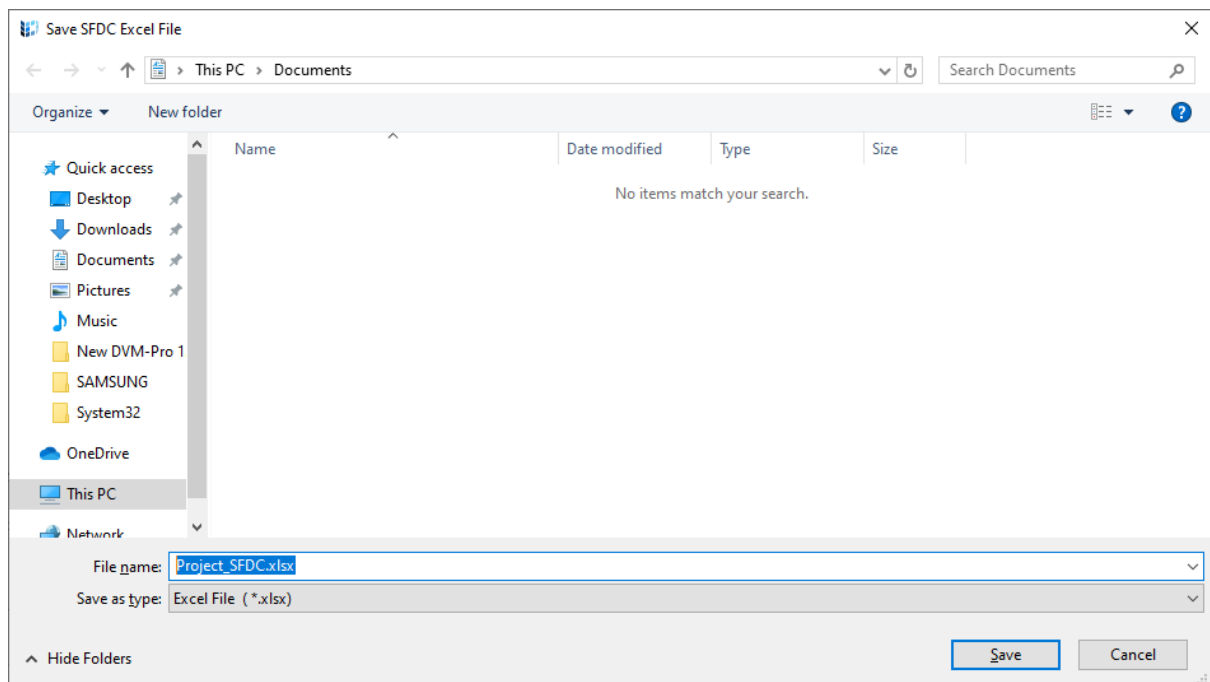
- ① Print per system : It is classified and exported by system.
- ② Print All : The whole is exported out without any classification by system.
- ③ Print : Export the report and close the window.
- ④ Cancel : Cancel report export and close the window.

The SFDC report's export format supports Excel, CSV Dot, and CSV Comma, and the export report option is activated only for Excel, and CSV is not activated.

1.1.3.2. SFDC Excel Report



Export SFDC Excel report.



Enter the file name to be saved and click the Save button to save.

A1

:

✕

✓

f_x

Item No

A

B

C

D

E

F

G

1

Item No

Sub Item I

Product C

Plant

Requested

Group

Quantity

2

10

AG056KSV

5

3

20

AM240MX

1

4

30

AM260KX

1

5

40

AC140MX

1

6

50

AG105MN

8

7

60

AM128NN

4

8

70

AM140FN

3

9

80

AC035MN

4

10

90

MCU-S4N

1

11

100

MXJ-YA34

1

12

110

MXJ-YA25

1

13

120

MXJ-4D25

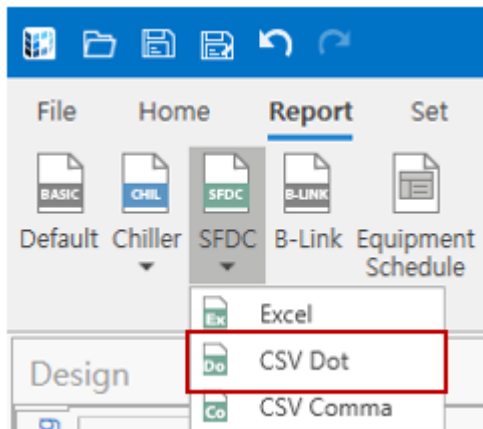
1

Quote Product List

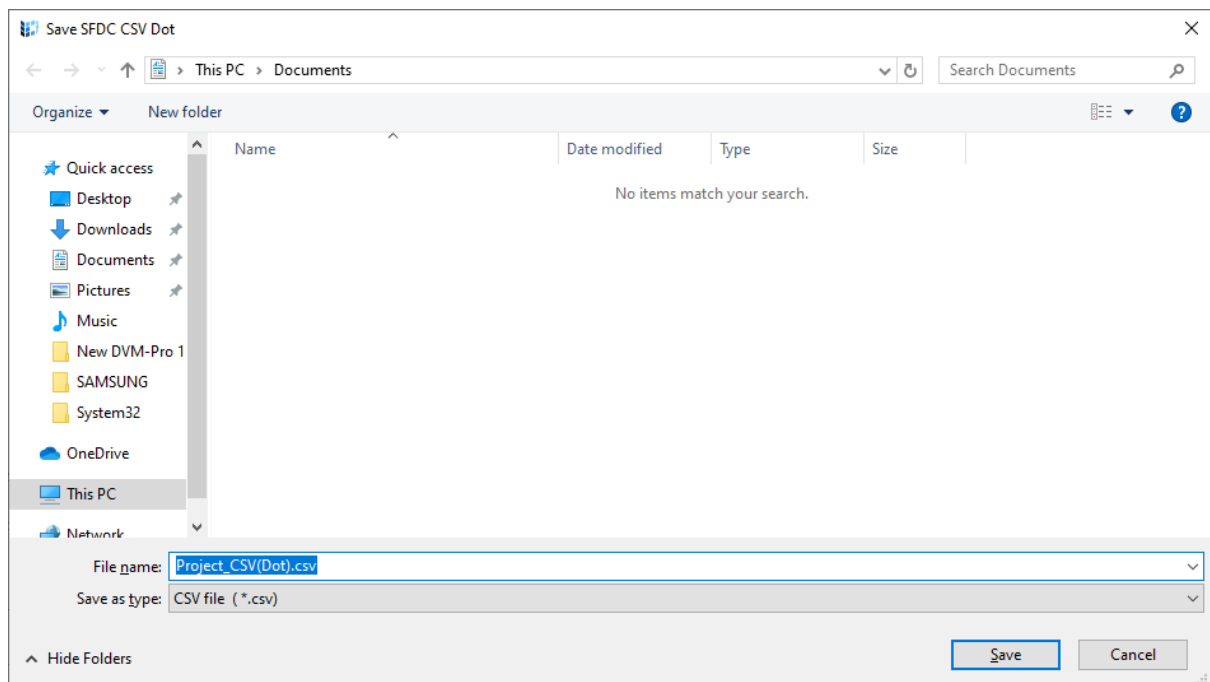
+

:

1.1.3.3. SFDC Dot Report



Export SFDC CSV Dot report.



Enter the file name to be saved and click the Save button to save.

A1

✕

✓

f_x

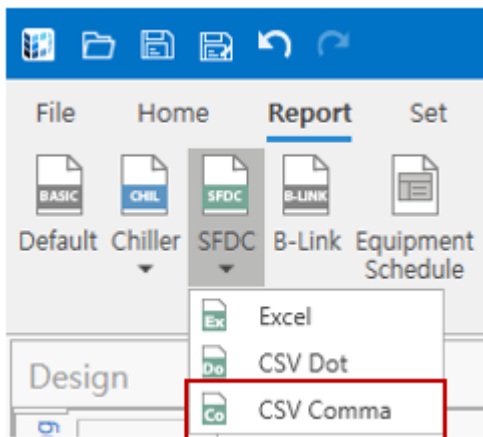
Item No

	A	B	C	D	E	F	G	H	I
1	Item No	Parent Iter	Product C	1st channel	Unit Price	BO Quant	Effective V	Description	
2	10		AG056KSVANH/EU			5	100		
3	20		AM240MXVGNR/ET			1	100		
4	30		AM260KXVAGH/ET			1	100		
5	40		AC140MXADNH/EU			1	100		
6	50		AG105MN4PKH/EU			8	100		
7	60		AM128NN4DEH/EU			4	100		
8	70		AM140FN4DEH/EU			3	100		
9	80		AC035MN1DKH/EU			4	100		
10	90		MXJ-YA3419M			1	100		
11	100		MXJ-YA2512M			1	100		
12	110		MCU-S4NEK3N			1	100		
13	120		MXJ-4D2509K			1	100		

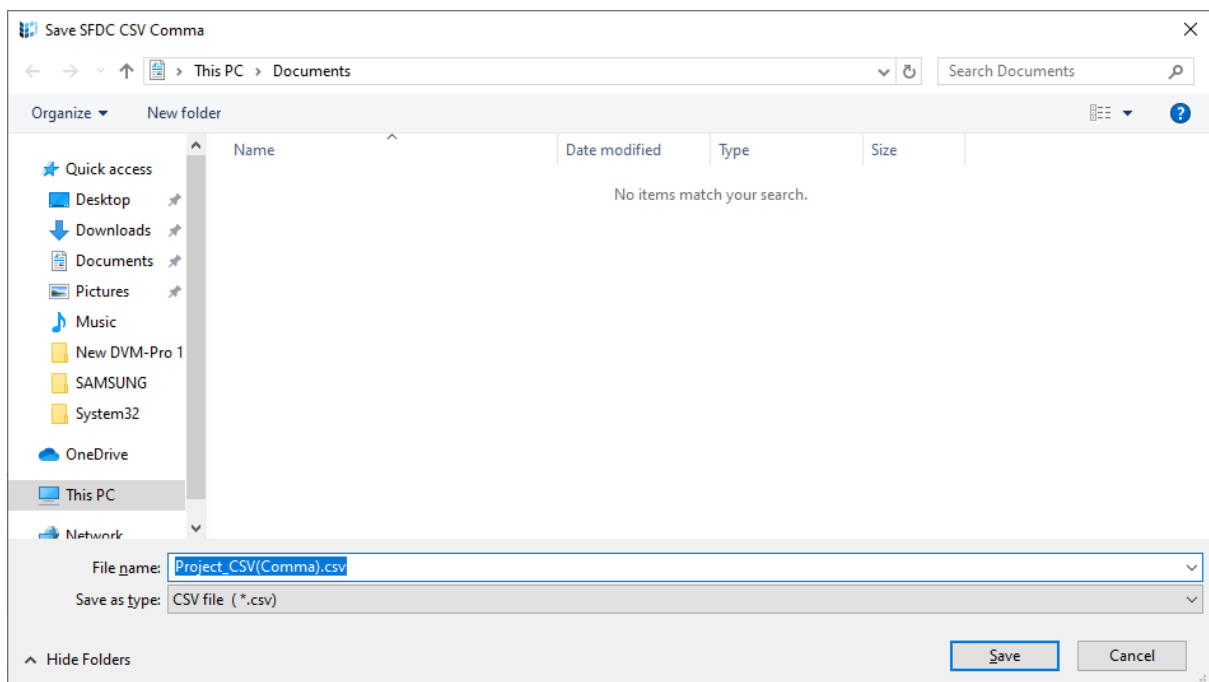
SFDC_CSV(Dot)

+

1.1.3.4. SFDC Comma Report



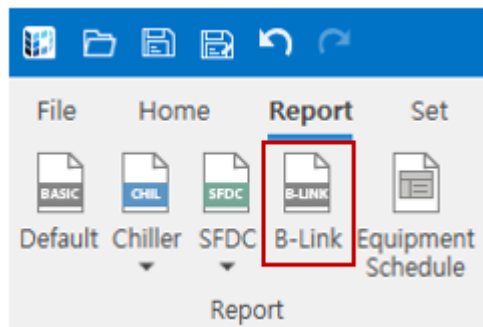
Export SFDC CSV Comma report.



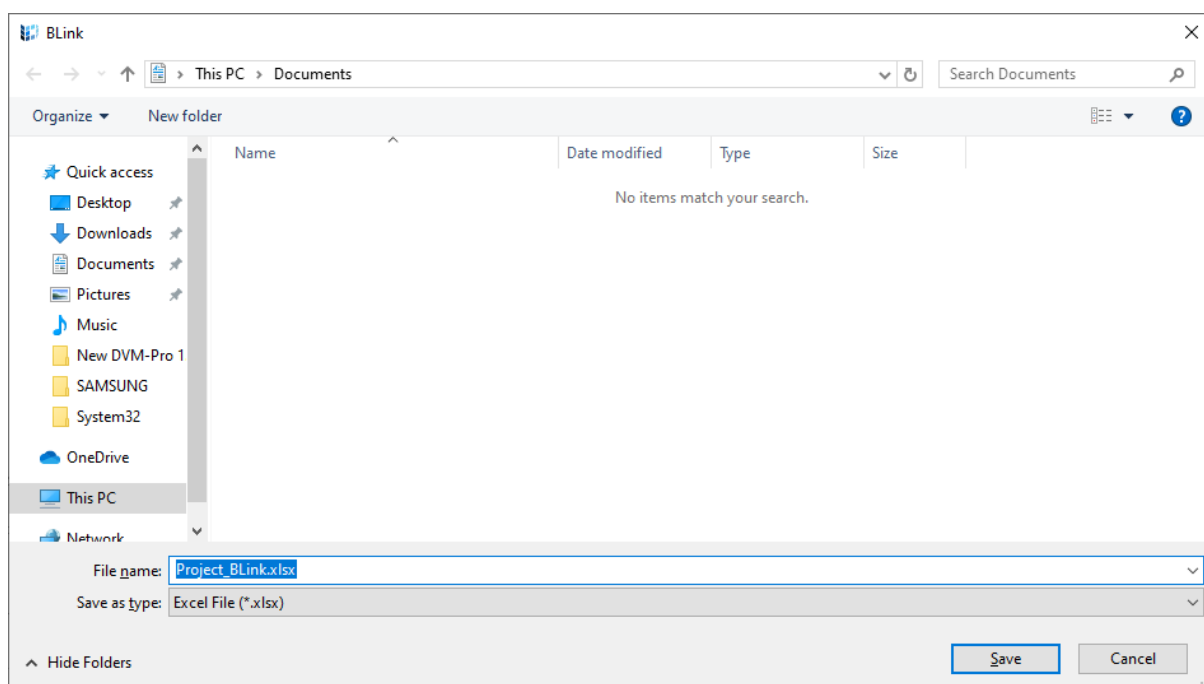
Enter the file name to be saved and click the Save button to save.

A1		Item No;Parent Item No;Product Code;1st channel Account No;Unit Price;BO Quantity;Effective Volume (%);Description										
	A	B	C	D	E	F	G	H	I	J	K	L
1	Item No;Parent Item No;Product Code;1st channel Account No;Unit Price;BO Quantity;Effective Volume (%);Description											
2	10;	AG056KSVANH/EU;;	5;100;									
3	20;	AM240MXVGNR/ET;;	1;100;									
4	30;	AM260KXVAGH/ET;;	1;100;									
5	40;	AC140MXADNH/EU;;	1;100;									
6	50;	AG105MN4PKH/EU;;	8;100;									
7	60;	AM128NN4DEH/EU;;	4;100;									
8	70;	AM140FN4DEH/EU;;	3;100;									
9	80;	AC035MN1DKH/EU;;	4;100;									
10	90;	MXJ-YA3419M;;	1;100;									
11	100;	MXJ-YA2512M;;	1;100;									
12	110;	MCU-S4NEK3N;;	1;100;									
13	120;	MXJ-4D2509K;;	1;100;									
14												

1.1.4. B-Link Report



Export the B-Link report.



Enter the file name to be saved and click the Save button to save.

A1

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Model

	A	B	C	D	E	F
1	Model	Quantity				
2	AG056KSVANH/EU	1				
3	AG105MN4PKH/EU	8				
4	AM240MXVGNR/ET	1				
5	AM128NN4DEH/EU	4				
6	MCU-S4NEK3N	1				
7	AM260KXVAGH/ET	1				
8	AM140FN4DEH/EU	3				
9	MXJ-YA3419M	1				
10	MXJ-YA2512M	1				
11	AC140MXADNH/EU	1				
12	AC035MN1DKH/EU	4				
13	MXJ-4D2509K	1				
14						

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Layout

Code

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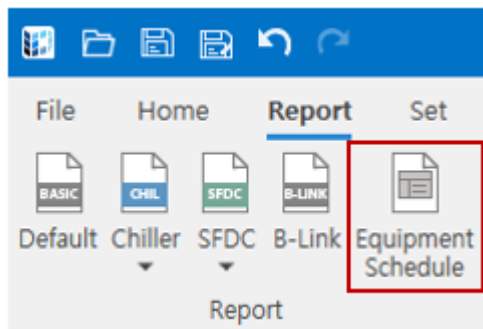
⊕

:

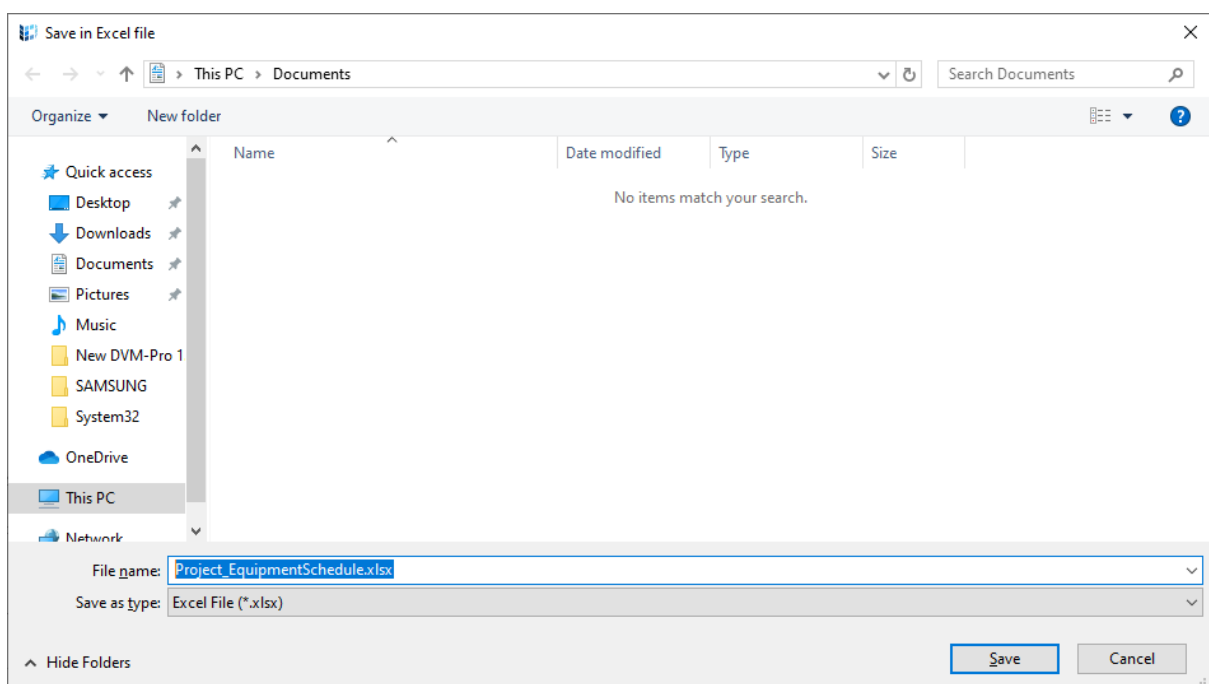
◀▶

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1.1.5. Equipment Schedule Report



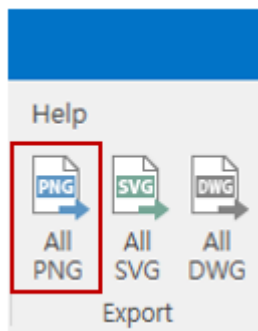
Export the equipment schedule report.



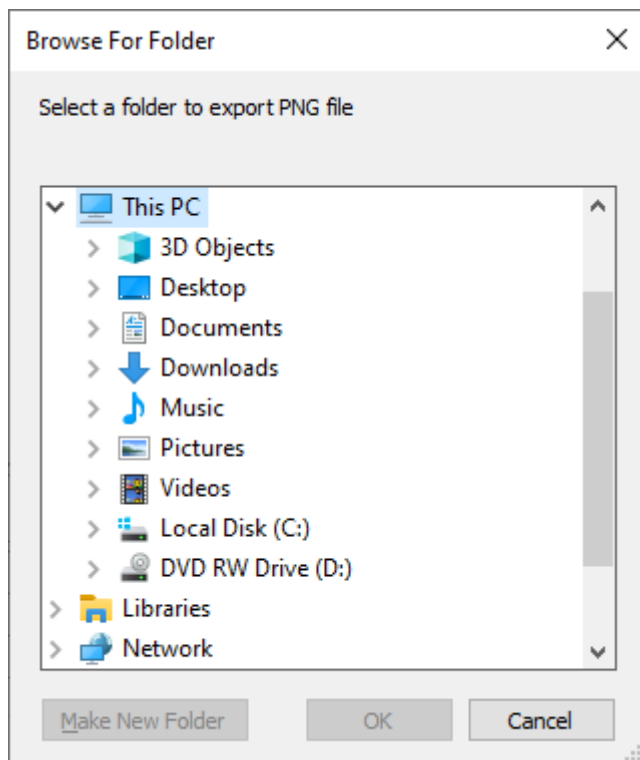
Enter the file name to be saved and click the Save button to save.

1.2. Export

1.2.1. All PNG

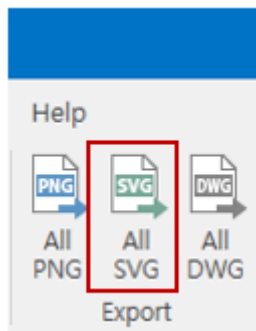


You can export any view (equipment/piping view, wiring/controller view, space view) as a PNG image in the project you are designing.

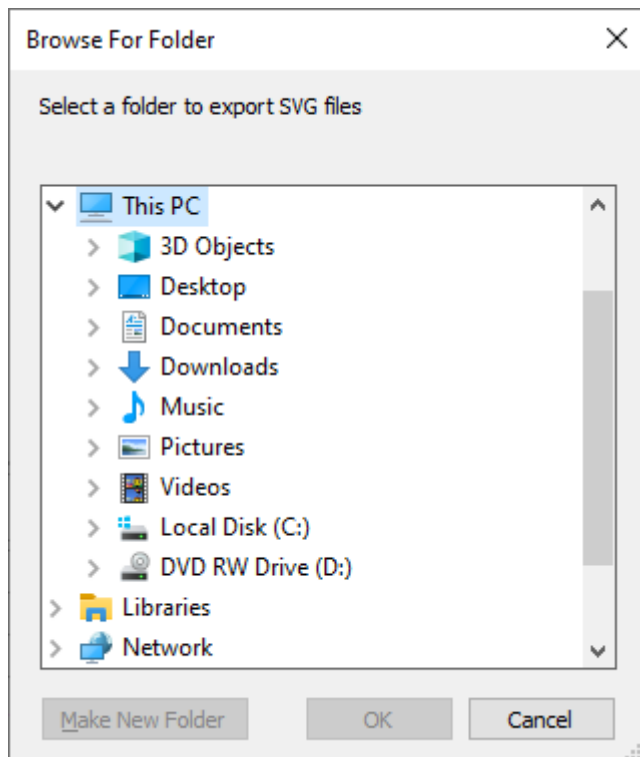


Select a folder to save the PNG files and click OK button to save.

1.2.2. All SVG

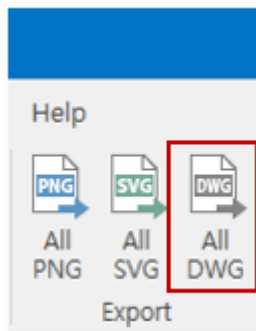


You can export any view (equipment/piping view, wiring/controller view, space view) as a SVG image in the project you are designing.

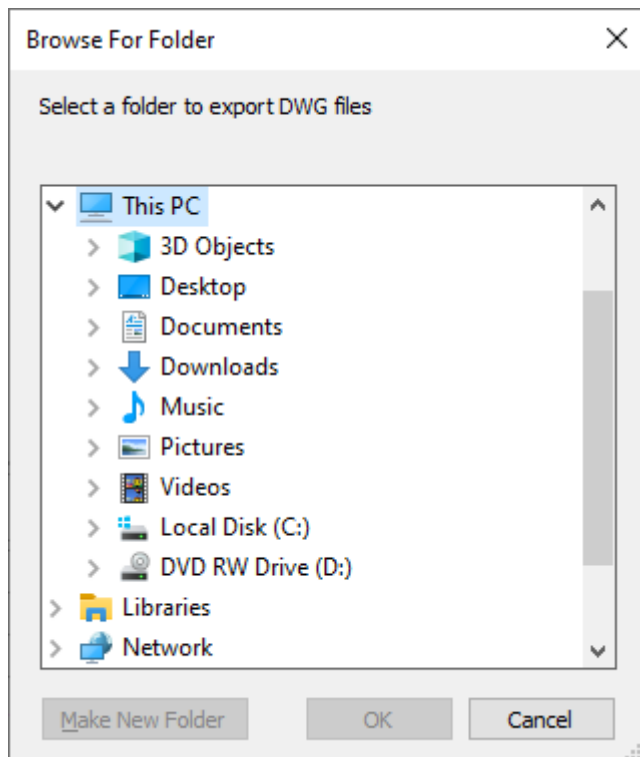


Select a folder to save SVG files and click OK button to save.

1.2.3. All DWG



You can export any view (equipment/piping view, wiring/controller view, space view) as a DWG in the project you are designing.



Select a folder to save DWG files and click OK button to save.