



## Contents

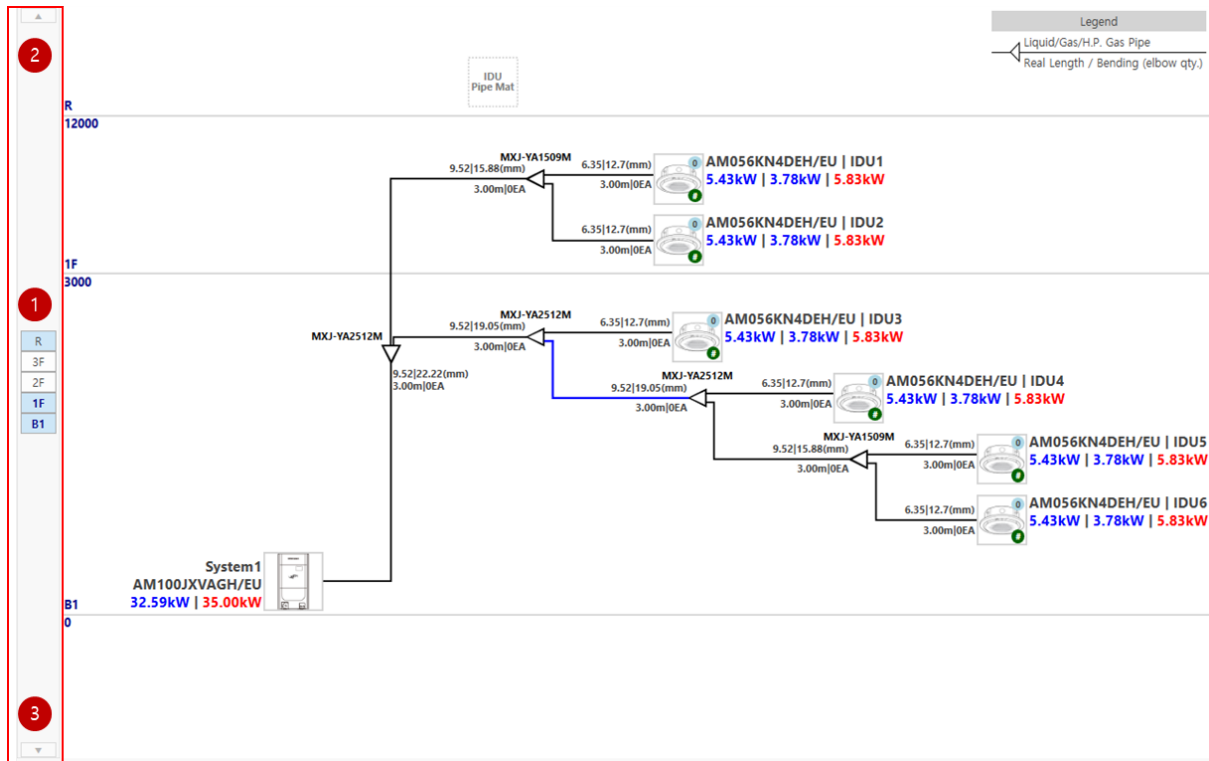
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# 1. Design View





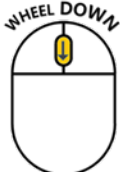
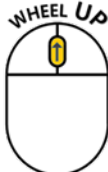
## 1.1. Floors Bar



- ① Floors : All managed floors of the project are displayed by the toggle-typed buttons. If you click the floor name, it will be turned on/off. when you turn on a floor, you can design it in the Equipment/Piping View of the currently activated system and if you turn off a floor, it will not be displayed in the Equipment/Piping View. However, if there is any placed equipment on the floor, you cannot turn off the floor. also, you cannot turn off a floor if the floor button text is shown as bold type.
- ② Up Scroll : If you design a building with many floors, it cannot be displayed at once on the floors bar. in case of this, you can scroll up the floors by the Up Scroll button.
- ③ Down Scroll : If you design a building with many floors, it cannot be displayed at once on the floors bar. in case of this, you can scroll down the floors by the Down Scroll button.

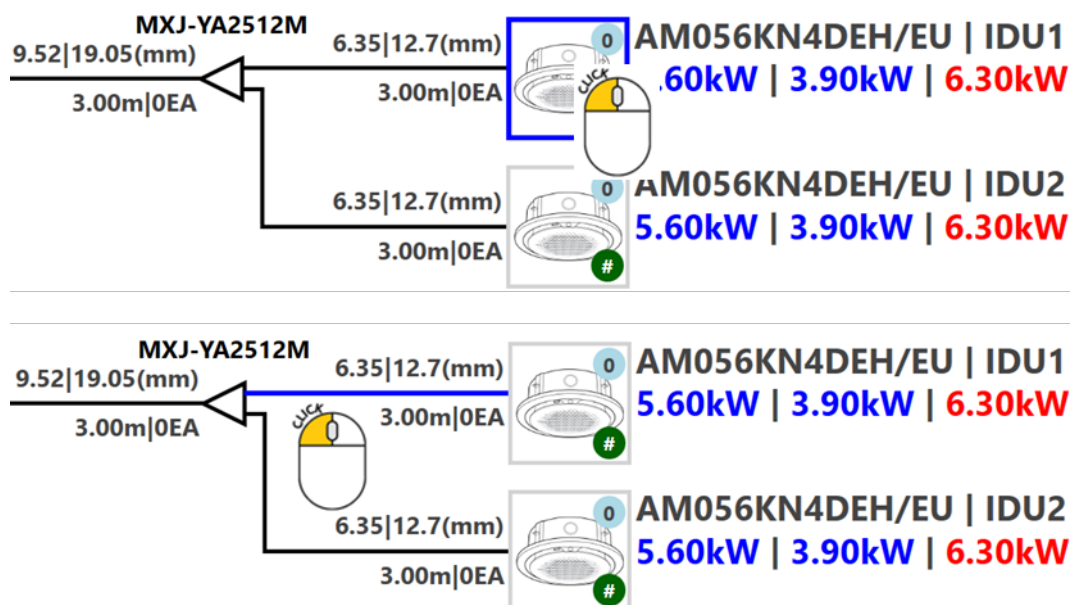
## 1.2. View Common

### 1.2.1. Mouse Actions

Description		Description	
Selection		Context Menu	
Pan		Move/ Placement	
Zoom Out		Zoom In	

#### 1.2.1.1. Selections

##### 1.2.1.1.1. Individual Selection

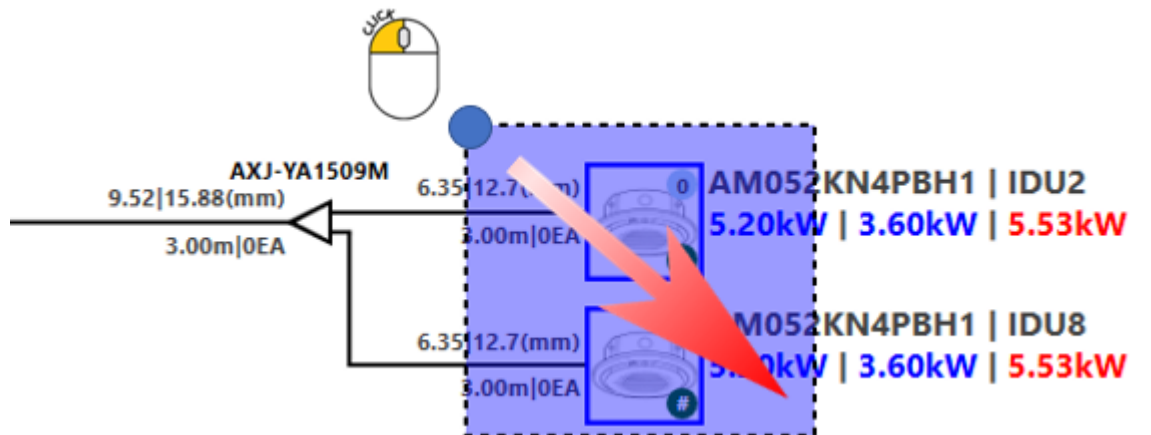


You can select to Indoor unit, Outdoor unit, Piping material, Controller, Pipe, Power Wire, Communication Wire, and other objects by clicking the left mouse button in all views.

#### 1.2.1.1.2. Multiple Selection

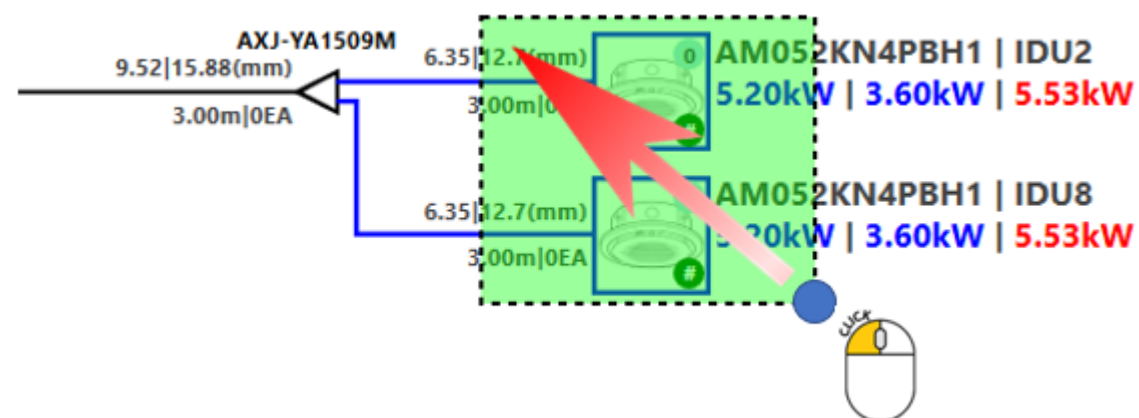
To select multiple objects, holding the Control key while clicking items.

##### 1.2.1.1.2.1. Window Selection



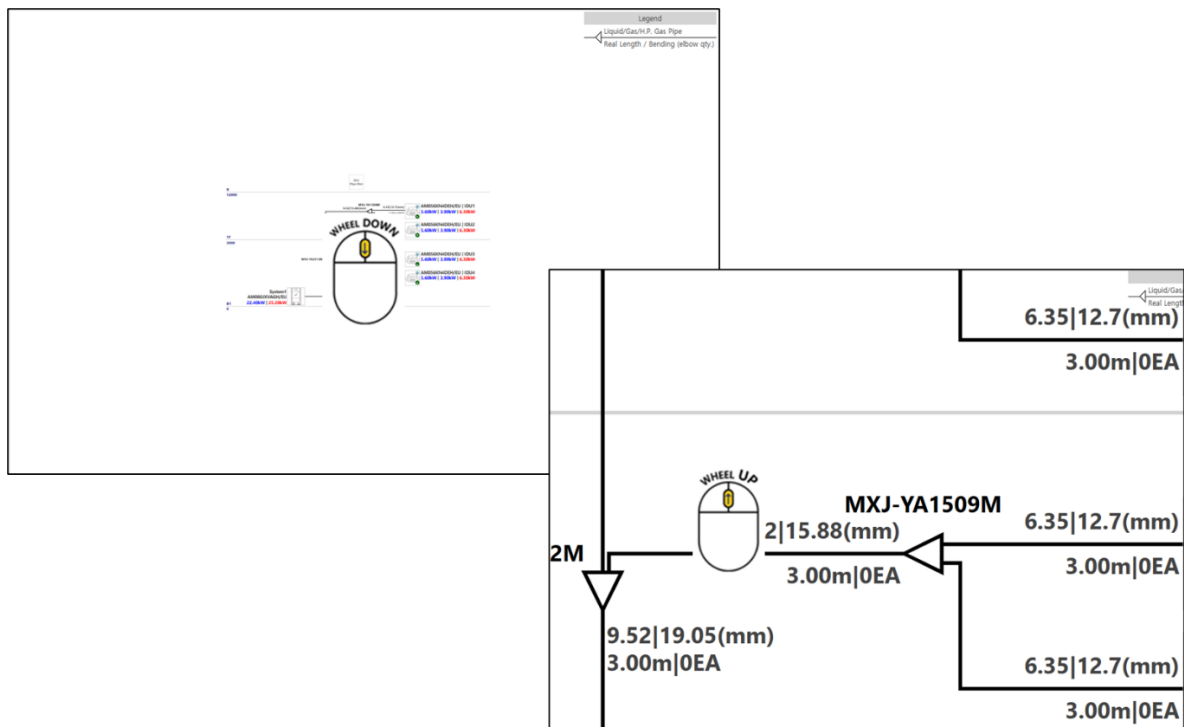
Drag from left to right to select all objects that are entirely enclosed in the selection rectangle.

##### 1.2.1.1.2.2. Cross Selection



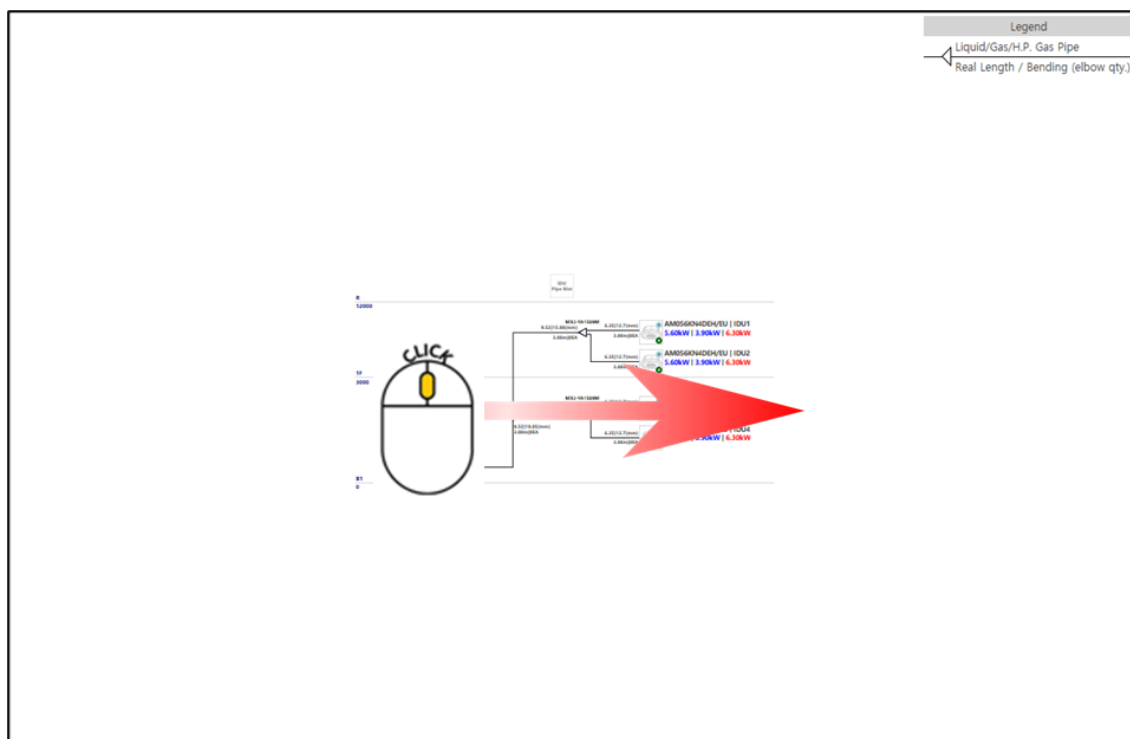
Drag from right to left to select all objects that are within this dashed window, as well as objects touching the boundary of the window.

### 1.2.1.2. Zoom In/Out



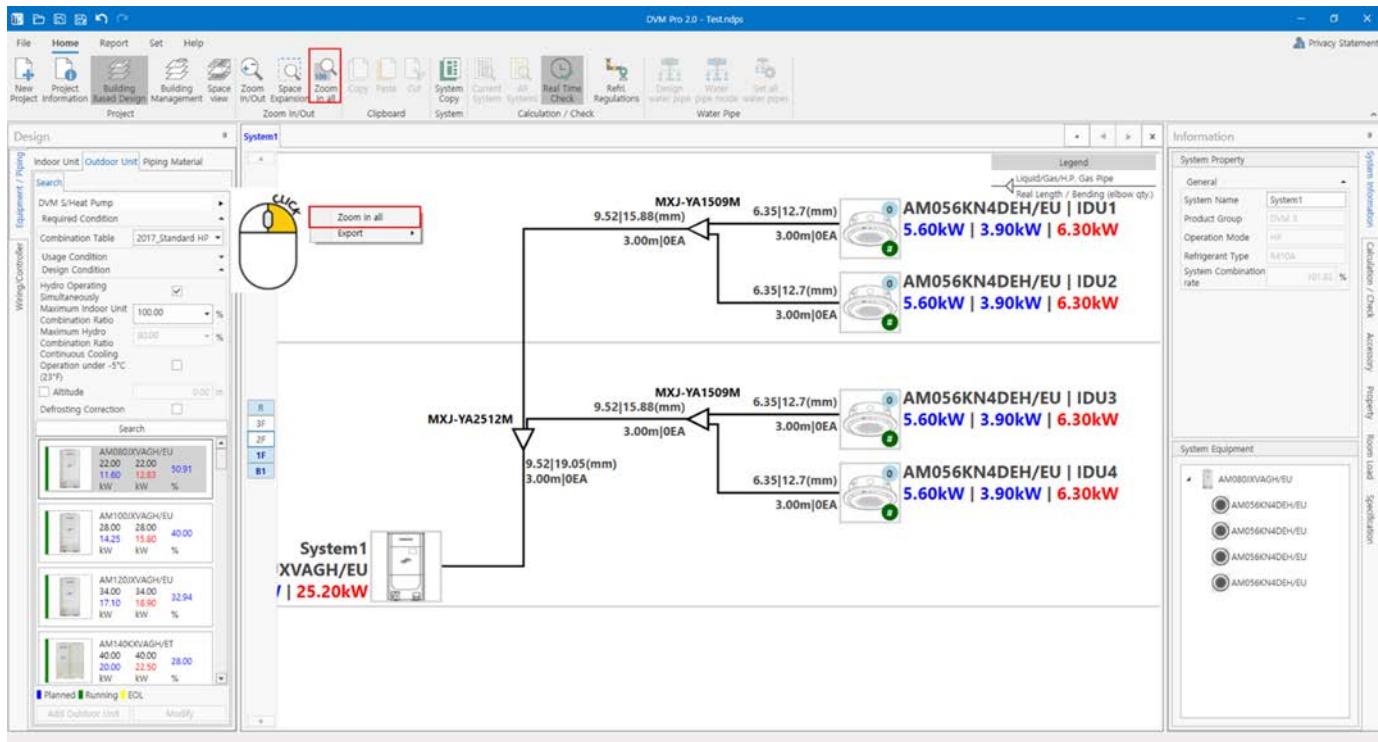
Point the cursor to where you would like to zoom and turn the mouse wheel to zoom in and out.

### 1.2.1.3. Pan



Pan by clicking and dragging with the mouse wheel.

## 1.2.2. Zoom in all



Zoom in all can be done by the Zoom In/Out ribbon menu or click the right-mouse button menu from a view. The Zoom in all performs to Zoom in/out enough to show all objects in the current view.

### 1.2.3. Object Details

#### 1.2.3.1. Equipment / Piping View

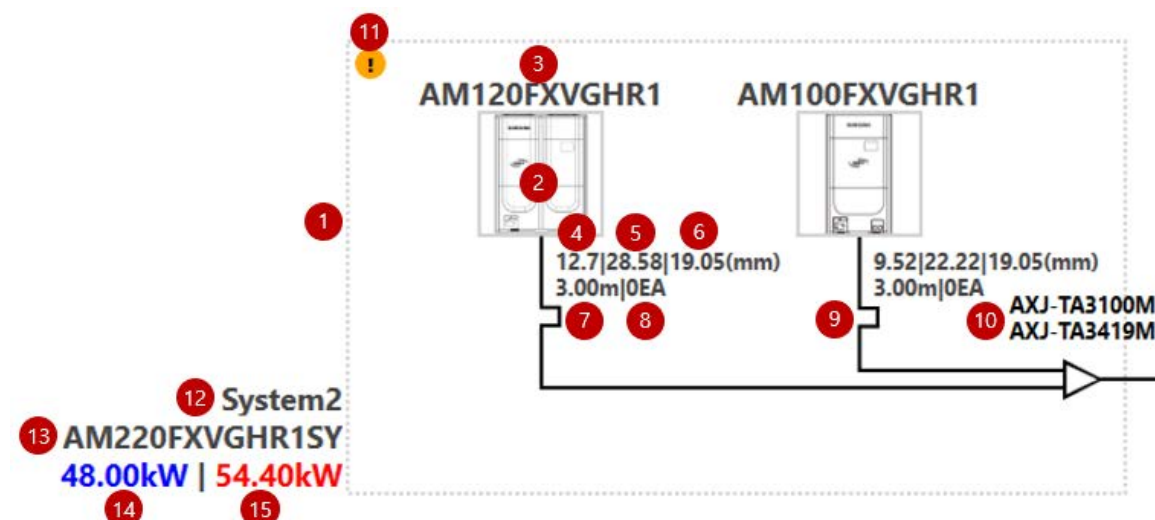
##### 1.2.3.1.1. Outdoor Unit

##### 1.2.3.1.1.1. VRF General Outdoor Unit – Single Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

##### 1.2.3.1.1.2. VRF General Outdoor Unit – Module Unit



- ① Module Outdoor Unit : Combination group with single outdoor units.
- ② Image : Image of a Single Outdoor unit within the Module Outdoor unit.
- ③ Single Outdoor Unit Model Code : Model Code of a Single Outdoor unit within the Module Outdoor Unit.

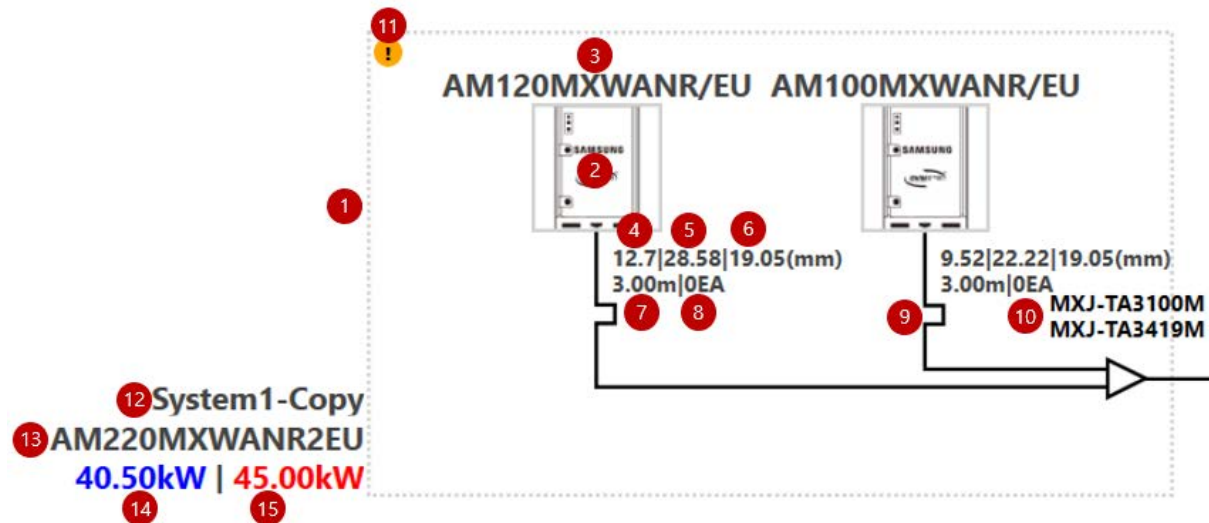
- ④ Liquid Pipe Size : Liquid pipe size of the Single Outdoor unit.
- ⑤ Gas Pipe Size : Gas pipe size of the Single Outdoor unit.
- ⑥ H.P Gas Pipe Size : High Pressure Gas pipe size of the Single Outdoor unit.
- ⑦ Pipe Length : Length of the pipe.
- ⑧ Number of Bending (Elbow) : The Number of bending (elbow) of the pipe.
- ⑨ Oil Trap : Indicates the Oil Trap installation.
- ⑩ Y-Joint Model Code : Y-Joint Model Code in the Module Outdoor unit.
- ⑪ Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ⑫ Name : Name of the Module Outdoor unit.
- ⑬ Model Code : Model Code of the Module Outdoor unit.
- ⑭ Corrected Cooling Capacity : Corrected Cooling Capacity of the Module Outdoor unit.
- ⑮ Corrected Heating Capacity : Corrected Heating Capacity of the Module Outdoor unit.

#### 1.2.3.1.1.3. VRF Water Outdoor Unit - Single Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

#### 1.2.3.1.1.4. VRF Water Outdoor Unit – Module Unit



- ① Module Outdoor Unit : Combination group with single outdoor units.
- ② Image : Image of a Single Outdoor unit within the Module Outdoor unit.
- ③ Single Outdoor Unit Model Code : Model Code of a Single Outdoor unit within the Module Outdoor unit.
- ④ Liquid Pipe Size : Liquid pipe size of the Single Outdoor unit.
- ⑤ Gas Pipe Size : Gas pipe size of the Single Outdoor unit.
- ⑥ H.P Gas Pipe Size : High Pressure Gas pipe size of the Single Outdoor unit.
- ⑦ Pipe Length : Length of the pipe.
- ⑧ Number of Bending (Elbow) : The number of Bending (elbow) of the pipe.
- ⑨ Oil Trap : Indicates the Oil Trap installation.
- ⑩ Y-Joint Model Code : Y-Joint Model Code in the Module Outdoor unit.
- ⑪ Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ⑫ Name : Name of the Module Outdoor unit.
- ⑬ Model Code : Model Code of the Module Outdoor unit.
- ⑭ Corrected Cooling Capacity : Corrected Cooling Capacity of the Module Outdoor unit.
- ⑮ Corrected Heating Capacity : Corrected Heating Capacity of the Module Outdoor unit.

#### 1.2.3.1.1.5. Single(CAC, PAC, RAC) Outdoor Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

#### 1.2.3.1.1.6. FJM Outdoor Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

#### 1.2.3.1.1.7. Chiller Outdoor Unit



- ① Chiller Outdoor Unit : Combination group with Chiller Outdoor units.
- ② Image : Image of the Chiller Outdoor unit.
- ⑦ Model Code : Model Code of the Chiller Outdoor unit.
- ③ Name : Name of the Chiller Outdoor unit.
- ④ Model Code : Model Code of the Chiller Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Chiller Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Chiller Outdoor unit.

#### 1.2.3.1.1.8. EHS Outdoor Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

#### 1.2.3.1.1.9. Split DOAS Outdoor Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.
- ⑤ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑥ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

#### 1.2.3.1.1.10. Split DOAS Water Outdoor Unit



- ① Image : Image of the Outdoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Name : Name of the Outdoor unit.
- ⑦ Model Code : Model Code of the Outdoor unit.
- ⑧ Corrected Cooling Capacity : Corrected Cooling Capacity of the Outdoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Outdoor unit.

### 1.2.3.1.2. Indoor Unit

#### 1.2.3.1.2.1. VRF General Indoor Unit



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

#### 1.2.3.1.2.2. VRF Hydro HE



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.

- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.
- ⑨ Entering Water Temperature (Cooling) : Entering Cooling Water Temperature of the Indoor Unit.
- ⑩ Entering Water Temperature (Heating) : Entering Heating Water Temperature of the Indoor Unit.

#### 1.2.3.1.2.3. VRF Hydro HT



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.
- ⑧ Entering Water Temperature (Heating) : Entering Heating Water Temperature of the Indoor Unit.

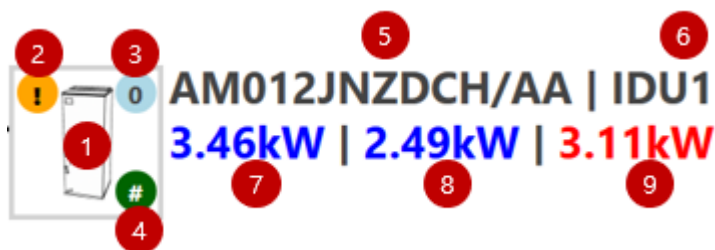
#### 1.2.3.1.2.4. VRF OAP Duct



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.

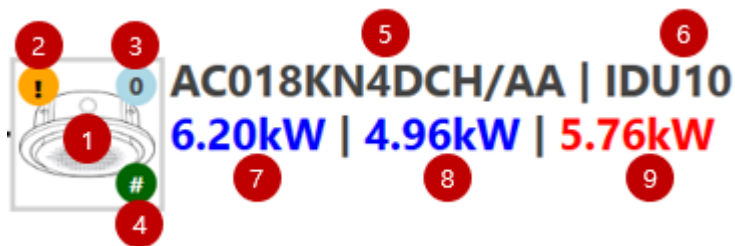
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.
- ⑩ Cooling Discharge Air Temperature : Cooling Air Temperature of the Indoor unit.
- ⑪ Heating Discharge Air Temperature : Heating Air Temperature of the Indoor unit.

#### 1.2.3.1.2.5. VRF Multi Position AHU



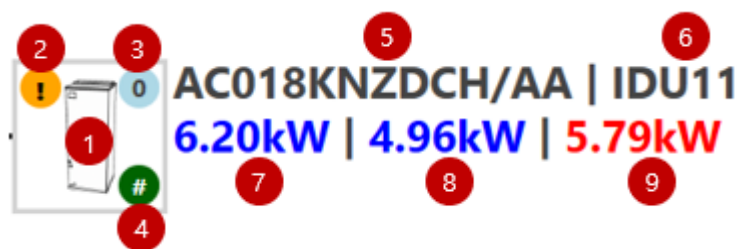
- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

#### 1.2.3.1.2.6. Single(CAC, PAC, RAC) General Indoor Unit



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

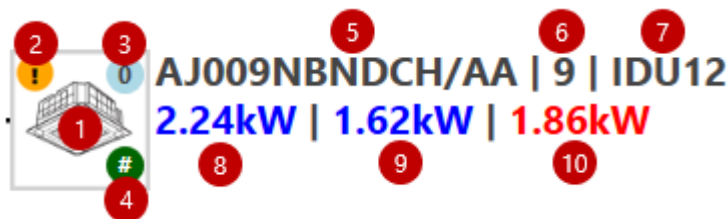
#### 1.2.3.1.2.7. Single(CAC, PAC, RAC) Multi Position AHU



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.

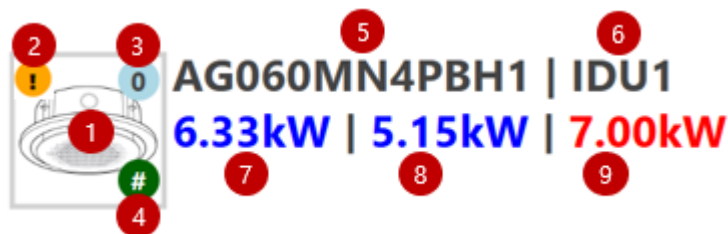
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

#### 1.2.3.1.2.8. FJM Indoor Unit



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Capacity Index : Capacity Index of the Indoor unit.
- ⑦ Name : Name of the Indoor unit.
- ⑧ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑨ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑩ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

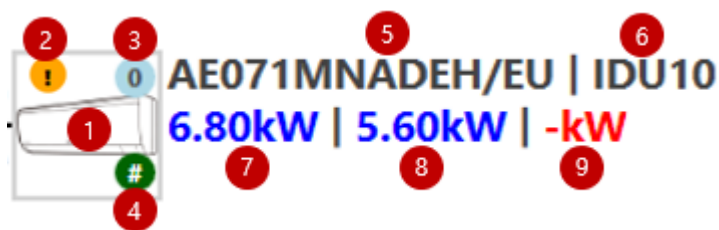
#### 1.2.3.1.2.9. Water FCU



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.

- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

#### 1.2.3.1.2.10. EHS Air Indoor Unit



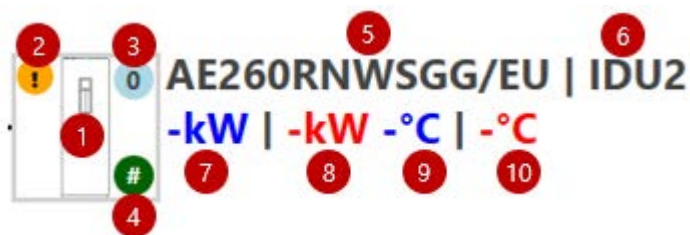
- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

#### 1.2.3.1.2.11. EHS Hydro



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.
- ⑨ Entering Water Temperature (Cooling) : Entering Cooling Water Temperature of the Indoor Unit.
- ⑩ Entering Water Temperature (Heating) : Entering Heating Water Temperature of the Indoor Unit.

#### 1.2.3.1.2.12. EHS Hydro Tank



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.

- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.
- ⑨ Entering Water Temperature (Cooling) : Entering Cooling Water Temperature of the Indoor Unit.
- ⑩ Entering Water Temperature (Heating) : Entering Heating Water Temperature of the Indoor Unit.

#### 1.2.3.1.2.13. ERV



- ① Image : Image of the Indoor unit.
- ② Control Group Number : The number of Control Group.
- ③ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ④ Model Code : Model Code of the Indoor unit.
- ⑤ Name : Name of the Indoor unit.
- ⑥ Rated Airflow (Turbo) : Rated Turbo Airflow of the Indoor unit.
- ⑦ Rated Airflow (High) : Rated High Airflow of the Indoor unit.
- ⑧ Rated Airflow (Low) : Rated Low Airflow of the Indoor unit.

#### 1.2.3.1.2.14. Split DOAS



- ① Image : Image of the Indoor unit.
- ② Capacity Correction Error : Capacity Correction Error icon. The error message will be shown if a mouse pointer over on it.
- ③ Control Group Number : The number of Control Group.
- ④ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a

control room.

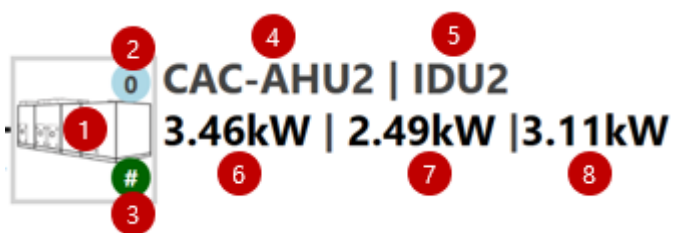
- ⑤ Model Code : Model Code of the Indoor unit.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Corrected Cooling Capacity : Corrected Cooling Capacity of the Indoor unit.
- ⑧ Corrected Sensible Heat Capacity : Corrected Sensible Heat Capacity of the Indoor unit.
- ⑨ Corrected Heating Capacity : Corrected Heating Capacity of the Indoor unit.

#### 1.2.3.1.2.15. Packaged DOAS



- ① Image : Image of the Indoor unit.
- ② Control Group Number : The number of Control Group.
- ③ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ④ Model Code : Model Code of the Indoor unit.
- ⑤ Name : Name of the Indoor unit.

#### 1.2.3.1.2.16. User FCU/AHU



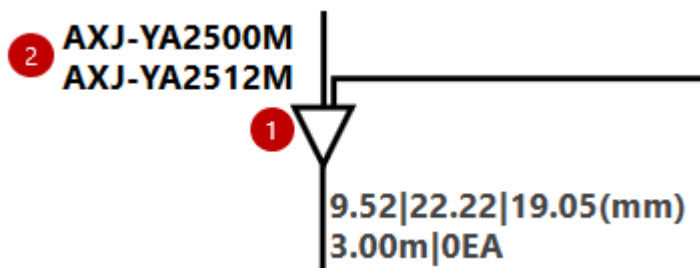
- ① Image : Image of the Indoor unit.
- ② Control Group Number : The number of Control Group.
- ③ No Control Room : No Control Room Icon. The Icon will be shown if the Indoor unit has not a control room.
- ④ Model Code : Model Code of the Indoor unit.
- ⑤ Name : Name of the Indoor unit.

- ⑥ Rated Cooling Capacity : Rated Cooling Capacity of the Indoor unit.
- ⑦ Rated Sensible Heat Capacity : Rated Sensible Heat Capacity of the Indoor unit.
- ⑧ Rated Heating Capacity : Rated Heating Capacity of the Indoor unit.

### 1.2.3.1.3. Piping Material

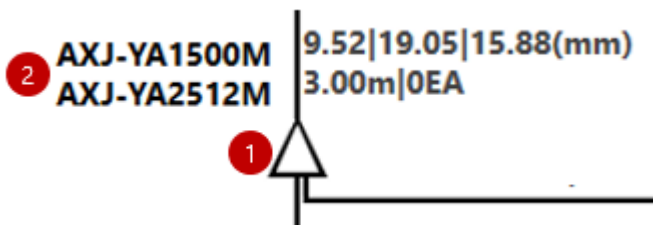
#### 1.2.3.1.3.1. Y-Joint

##### Vertical Y-Joint (Upper Direction)



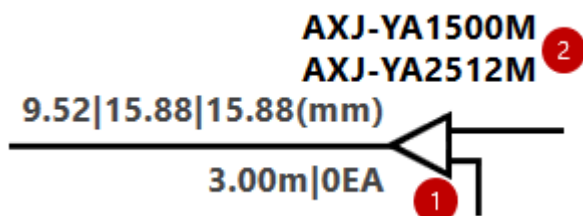
- ① Upper Direction Y-Joint : Symbol of Upper Direction Y-Joint.
- ② Model Code : Model Code of the Upper Direction Y-Joint.

##### Vertical Y-Joint (Down Direction)



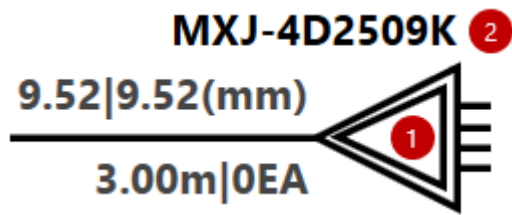
- ① Down Direction Y-Joint : Symbol of Down Direction Y-Joint.
- ② Model Code : Model Code of the Down Direction Y-Joint.

##### Horizontal Y-Joint



- ① Horizontal Y-Joint : Symbol of Horizontal Y-Joint.
- ② Model Code : Model Code of the Horizontal Y-Joint.

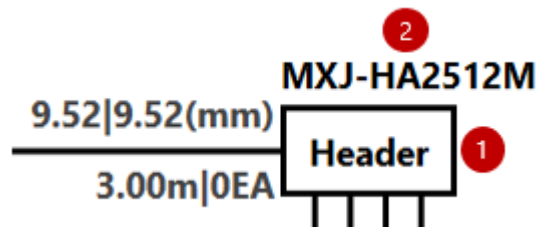
## CAC DPM Kit



- ① DPM Kit : Symbol of DPM Kit.
- ② Model Code : Model Code of the DPM Kit.

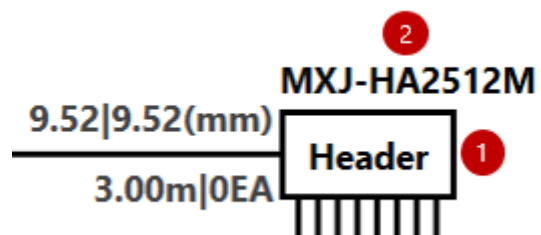
## 1.2.3.1.3.2. Header

### 4-Port Header



- ① Header : Symbol of Header
- ② Model Code : Model Code of the Header

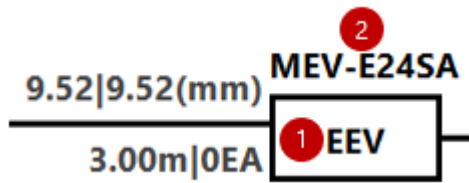
### 8-Port Header



- ① Header : Symbol of Header
- ② Model Code : Model Code of the Header

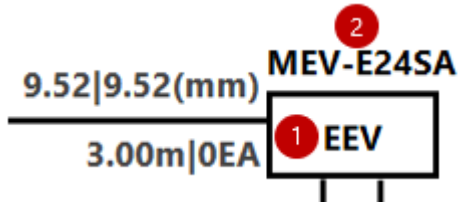
### 1.2.3.1.3.3. EEV Kit

#### 1-Port EEV Kit



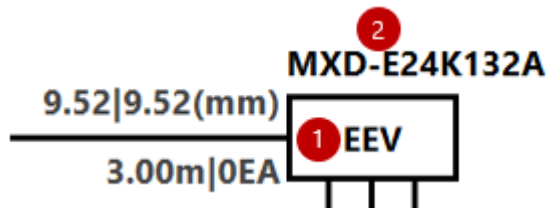
- ① EEV Kit : Symbol of EEV Kit.
- ② Model Code : Model Code of the 1-Port EEV Kit.

#### 2-Port EEV Kit



- ① EEV Kit : Symbol of EEV Kit.
- ② Model Code : Model Code of the 2-Port EEV Kit.

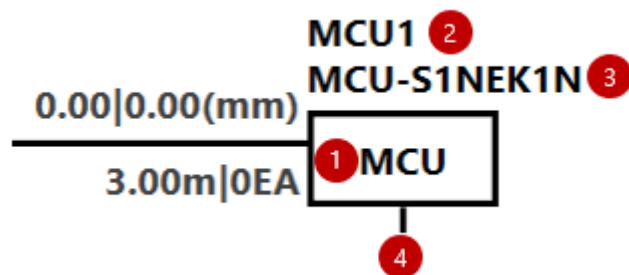
#### 3포트 EEV



- ① EEV Kit : Symbol of EEV Kit.
- ② Model Code : Model Code of the 3-Port EEV Kit.

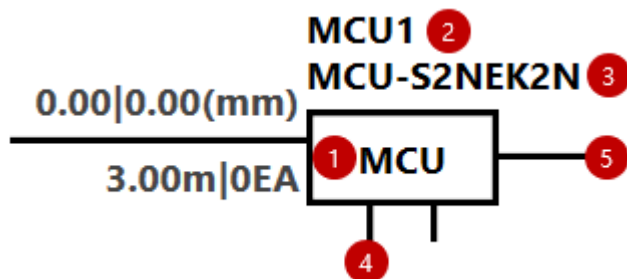
#### 1.2.3.1.3.4. MCU

##### New Type 1-Port MCU



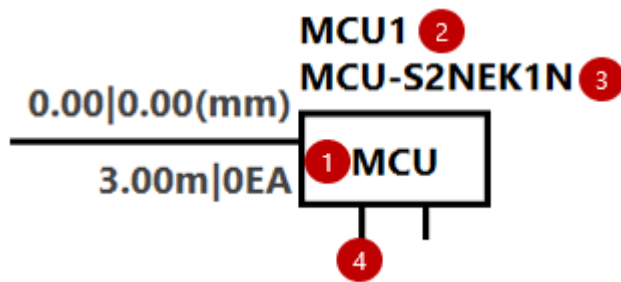
- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 1-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.

##### New Type 2-Port MCU



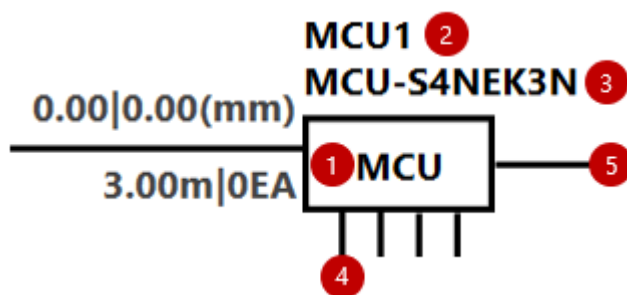
- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 2-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.
- ⑤ MCU Serial Port : Port for MCU.

### Old Type 2-Port MCU



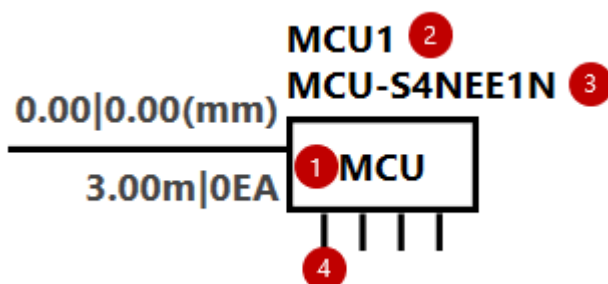
- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 2-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.

### New Type 4-Port MCU



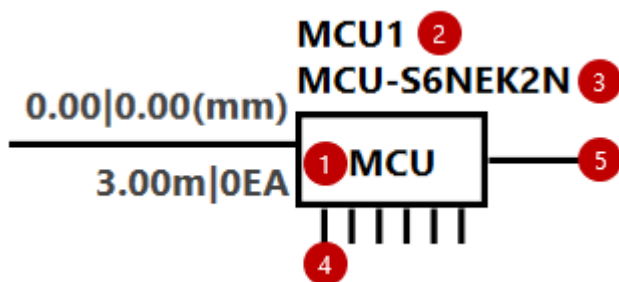
- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 4-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.
- ⑤ MCU Serial Port : Port for MCU.

### Old 4-Port MCU



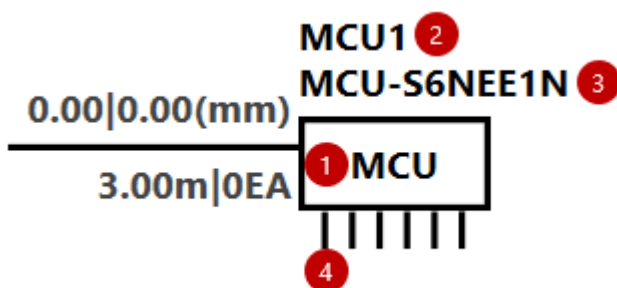
- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 4-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.

#### New 6-Port MCU



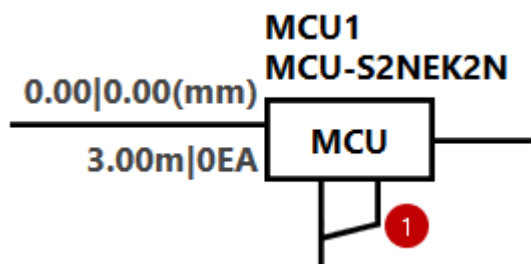
- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 6-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.
- ⑤ MCU Serial Port : Port for MCU.

#### Old 6-Port MCU



- ① MCU : Symbol of MCU.
- ② Name : Name of the MCU.
- ③ Model Code : Model Code of the 6-Port MCU.
- ④ Indoor Unit Port : Port for Indoor Unit.

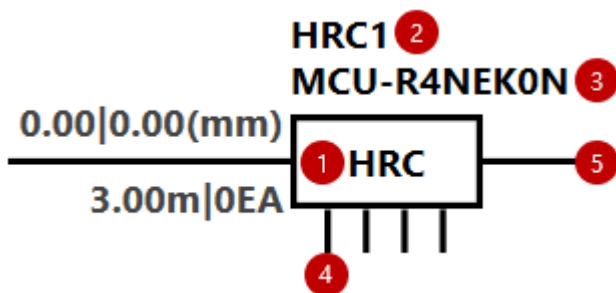
## MCU 2-Port Connection



- ① 2-Port Connection : When an Indoor unit capacity is over the maximum capacity per port, it will be connected to 2-port. The 2-port joint model will be listed in a report.

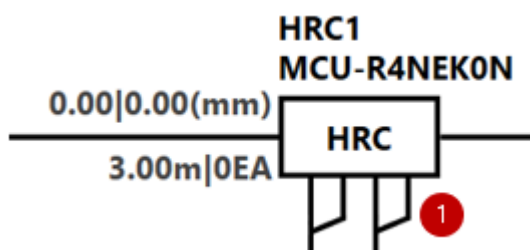
## 1.2.3.1.3.5. HRC

### 4-Port HRC



- ① HRC : Symbol of HRC.  
 ② Name : Name of the HRC.  
 ③ Model Code : Model Code of the 4-Port HRC.  
 ④ Indoor Unit Port : Port for Indoor Unit.  
 ⑤ MCU/HRC Serial Port : Port for MCU/HRC.

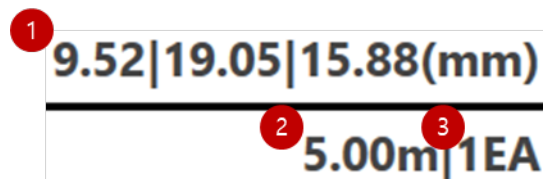
## HRC 2-Port Connection



- ① 2-Port Connection : When an Indoor unit capacity is over the maximum capacity per port, it will be connected to 2-port. The 2-port joint model will be listed in a report.

#### 1.2.3.1.4. Piping

##### 1.2.3.1.4.1. Refrigerant Pipe

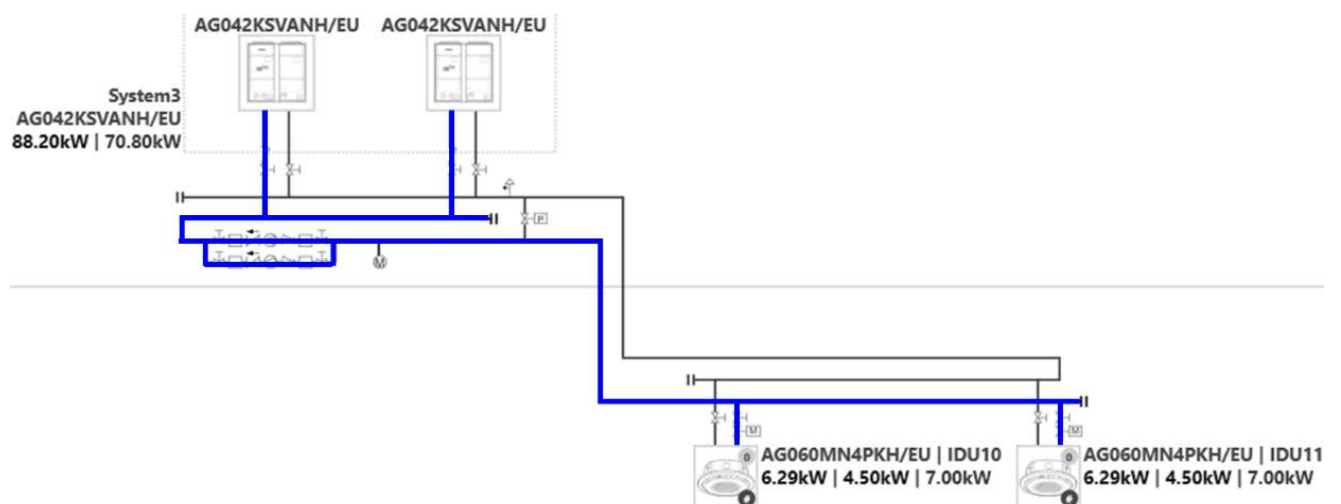


- ① Pipe Size : Liquid/Gas/H.P Gas Pipe Size and Unit.
- ② Pipe Length : Actual Piping Length and Unit.
- ③ Elbow Quantity : Quantity of Elbow.

##### 1.2.3.1.4.2. Water Pipe

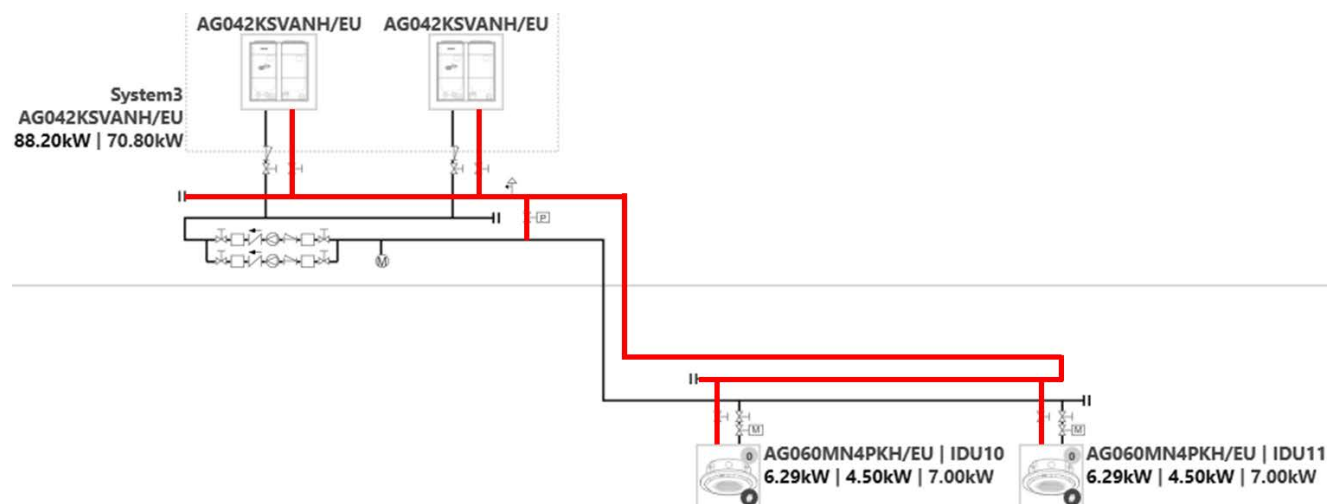
###### Entering Water Pipe

Represented in Blue by default. This can be changed in the configuration.



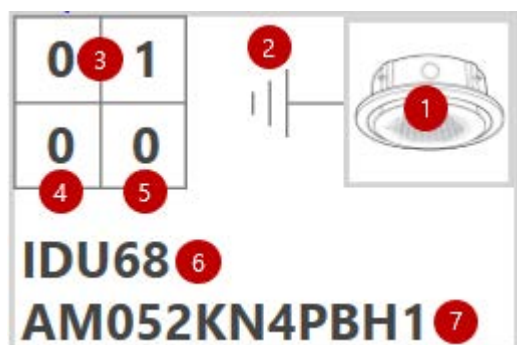
## Leaving Water Pipe

Represented in Red by default. This can be changed in the configuration.



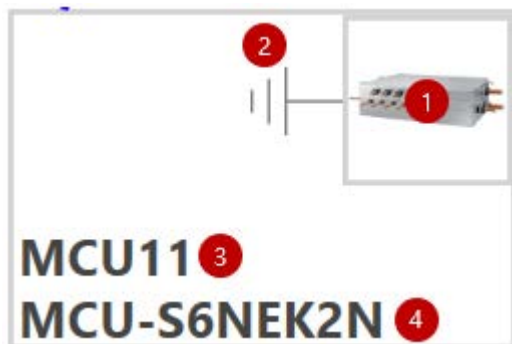
### 1.2.3.2. Wiring/Controller View

#### 1.2.3.2.1. Indoor Unit



- ① Image : Image of the Indoor unit.
- ② GND : Ground Symbol of the Indoor unit.
- ③ Indoor Unit Address : Address of the Indoor Unit.
- ④ RMC Address 1 : RMC Address 1.
- ⑤ RMC Address 2 : RMC address 2.
- ⑥ Name : Name of the Indoor unit.
- ⑦ Model Code : Model Code of the Indoor unit.

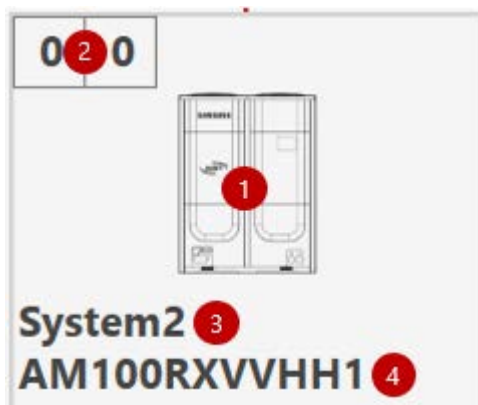
#### 1.2.3.2.2. MCU/HRC



- ① Image : Image of the MCU/HRC.
- ② GND : Ground Symbol of the MCU/HRC.
- ③ Name : Name of the MCU/HRC.
- ④ Model Code : Model Code of the MCU/HRC.

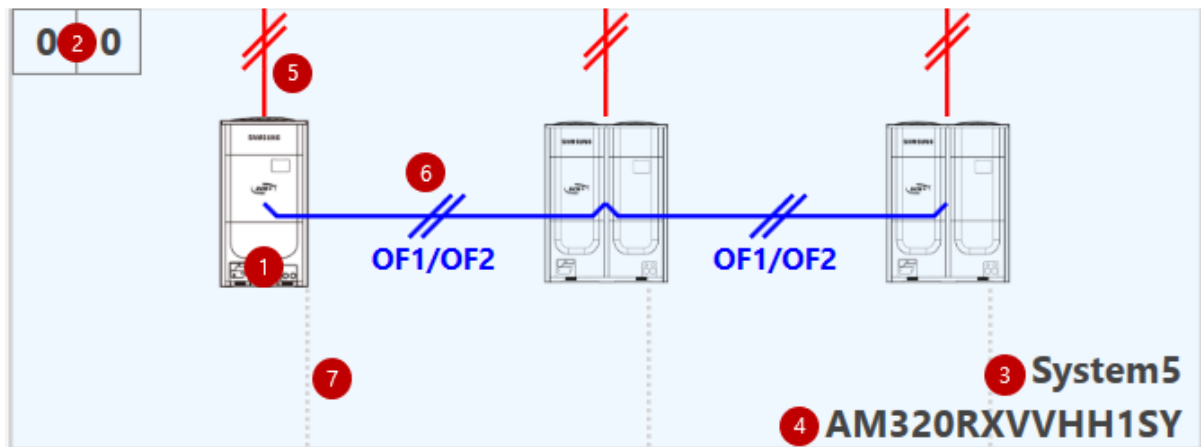
#### 1.2.3.2.3. Outdoor Unit

##### 1.2.3.2.3.1. Single Unit



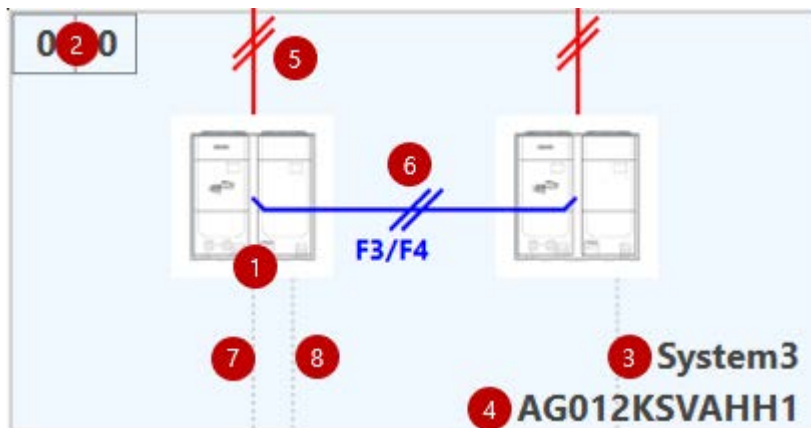
- ① Image : Image of the Outdoor unit.
- ② Address : Address of the Outdoor Unit.
- ③ Name : Name of the Outdoor unit.
- ④ Model Code : Model Code of the Outdoor unit.

### 1.2.3.2.3.2. Module Unit



- ① Image : Image of a Single Outdoor unit within the Module Outdoor unit.
- ② Address : Address of the Module Outdoor Unit.
- ③ Name : Name of the Module Outdoor unit.
- ④ Model Code : Model Code of the Module Outdoor unit.
- ⑤ Power Wire : Power Wire connected to a circuit breaker.
- ⑥ Communication Wire : Communication Wire connected between Single Outdoor units.
- ⑦ Dummy Connection Line : Dummy Connection Line for individual controllers.

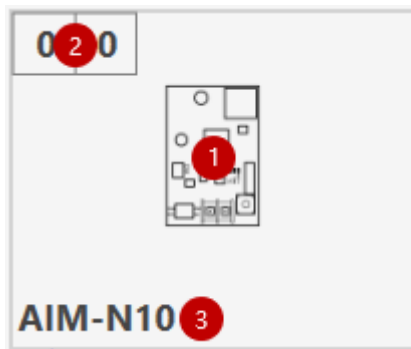
### 1.2.3.2.3.3. Chiller



- ① Image : Image of a Single Chiller unit within the Chiller Outdoor unit group.
- ② Address : Address of the Chiller Outdoor unit group.
- ③ Name : Name of the Chiller Outdoor unit group.
- ④ Model Code : Model Code of the Chiller Outdoor unit.
- ⑤ Power Wire : Power Wire connected to a circuit breaker.

- ⑥ Communication Wire : Communication Wire connected between Chiller Outdoor units.
- ⑦ Dummy Connection Line (Left) : Dummy Connection Line for a module controller.
- ⑧ Dummy Connection Line (Right) : Dummy Connection Line for individual controllers.

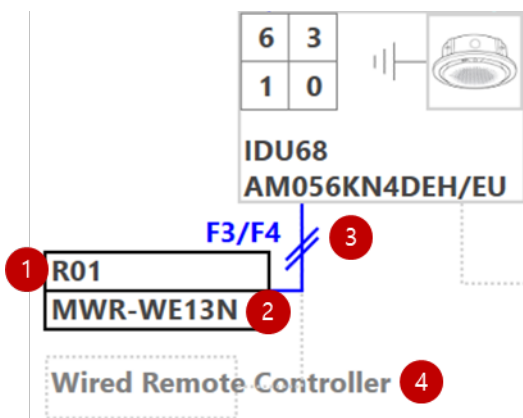
#### 1.2.3.2.4. Interface Module



- ① Image : Image of the Interface Module.
- ② Address : Address of the Interface Module.
- ③ Model Code : Model Code of the Interface Module.

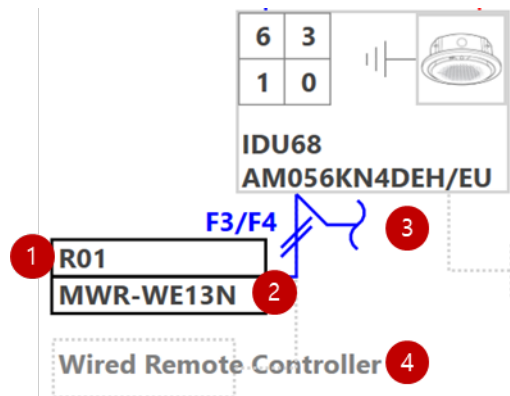
#### 1.2.3.2.5. Wired Remote Controller

##### 1 Wired Remote Controller on 1 Indoor Unit - Direct Connection



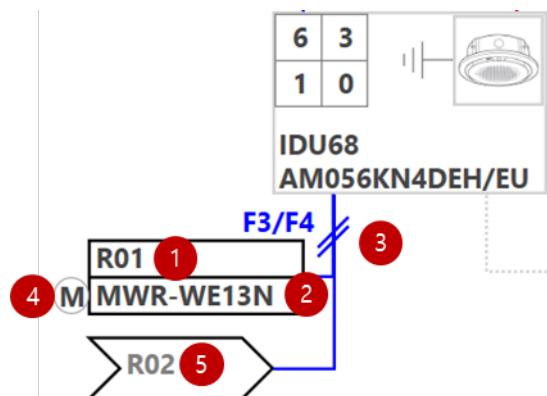
- ① Name : Name of the Wired Remote Controller.
- ② Model Code : Model Code of the Wired Remote Controller.
- ③ Communication Wire : Communication Wire connected with an Indoor unit.
- ④ Dummy : Dummy of a Wired Remote Controller.

## 1 Wired Remote Controller on N Indoor Unit – Direct Connection



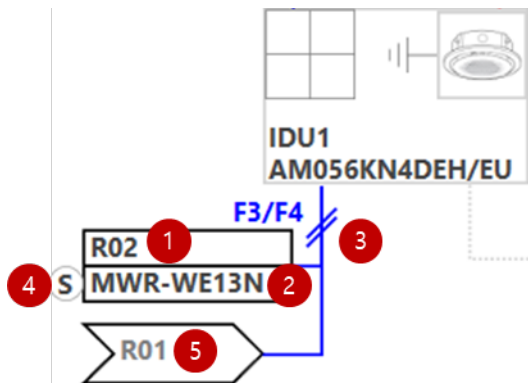
- ① Name : Name of the Wired Remote Controller.
- ② Model Code : Model Code of the Wired Remote Controller.
- ③ Communication Wire : Communication Wire connected with Indoor units.
- ④ Dummy : Dummy of a Wired Remote Controller.

## 2(Wired Remote Controller) : N(Indoor Unit) – Direct Connection (Main)



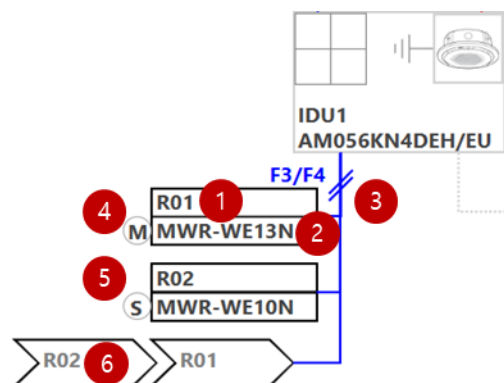
- ① Name : Name of the Wired Remote Controller.
- ② Model Code : Model Code of the Wired Remote Controller.
- ③ Communication Wire : Communication Wire connected with Indoor units.
- ④ Main Symbol : Symbol of Main Wired Remote Controller (M).
- ⑤ Connection: Connect direction symbol of Sub-Wired Remote Controller.

## 2(Wired Remote Controller) : N(Indoor Unit) - Direct Connection (Sub)



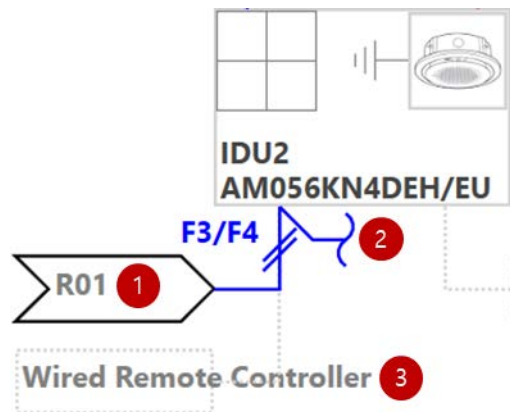
- ① Name : Name of the Wired Remote Controller.
- ② Model Code : Model Code of the Wired Remote Controller.
- ③ Communication Wire : Communication Wire connected with Indoor units.
- ④ Sub Symbol : Symbol of Sub Wired Remote Controller (S).
- ⑤ Connection Symbol : Connect direction symbol and name of sub-Wired Remote Controller.

## 2(Wired Remote Controller) : 1(Indoor Unit) - Direct Connection



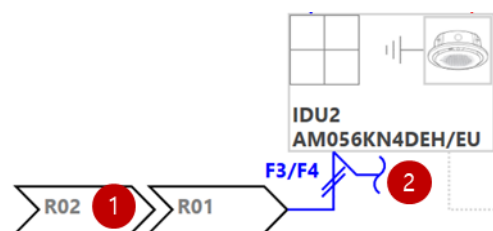
- ① Name : Name of the Wired Remote Controller.
- ② Model Code : Model Code of the Wired Remote Controller.
- ③ Communication Wire : Communication Wire connected with an Indoor unit.
- ④ Main Symbol : Symbol of Main Wired Remote Controller (M).
- ⑤ Sub Symbol : Symbol of Sub Wired Remote Controller (S).
- ⑥ Connection Symbol : Connect direction symbol and name of sub-Wired Remote Controller.

### 1(Wired Remote Controller) : N(Indoor Unit) – Jump Connection



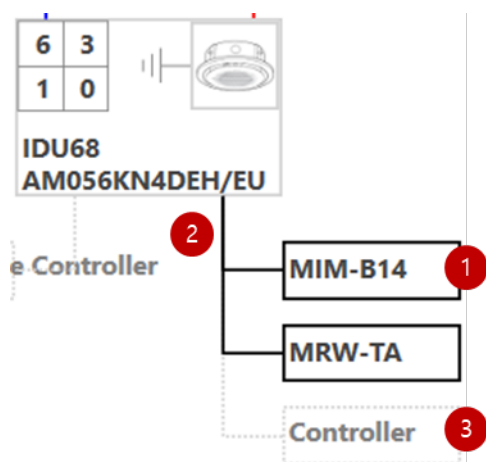
- ① Connection Symbol : Connect direction symbol and name.
- ② Communication Wire : Communication Wire connected with Indoor units.
- ③ Dummy : Dummy of a Wired Remote Controller.

### 2(Wired Remote Controller) : N(Indoor Unit) – Jump Connection



- ① Connection Symbol : Connect direction symbol and name.
- ② Communication Wire : Communication Wire connected with Indoor units.

### 1.2.3.2.6. Individual Controller (Indoor Unit)



- ① Individual Controller : Individual Controller Symbol and Model Code.

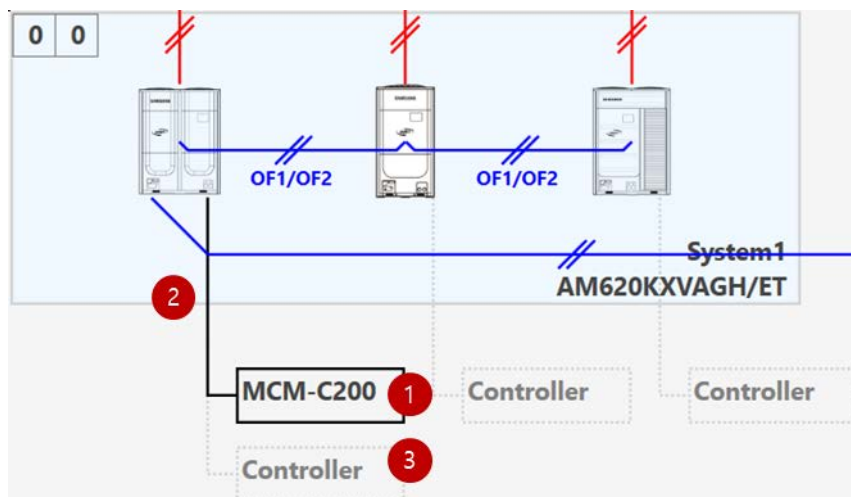
- ② Wire : Connection Wire with the Indoor unit.
- ③ Dummy : Dummy of a Individual Controller.

#### 1.2.3.2.6.1. Indoor Area Controller



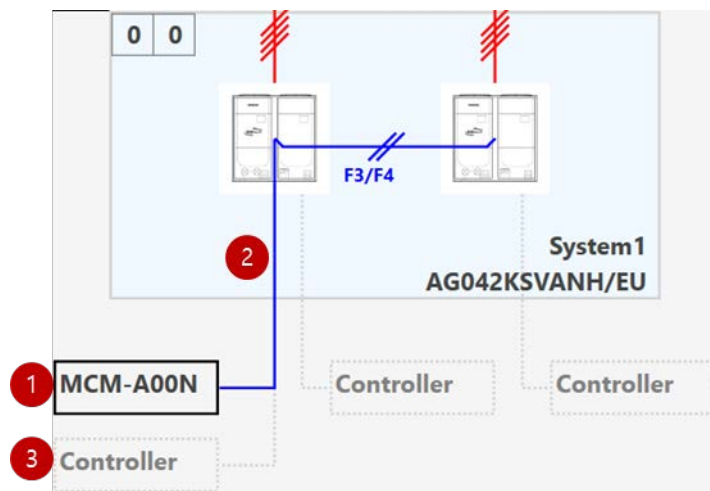
- ① Image : Image of the Indoor Area Controller.
- ② Model Code : Model Code of the Indoor Area Controller.
- ③ Address : Address of the Indoor Area Controller.

#### 1.2.3.2.7. Individual Controller (Outdoor Unit)



- ① Individual Controller : Individual Controller Symbol and Model Code.
- ② Wire : Connection Wire with the Outdoor unit.
- ③ Dummy : Dummy of a Individual Controller.

### 1.2.3.2.8. Module Controller



- ① Module Controller : Module Controller Symbol and Model Code.
- ② Communication Wire : Communication Wire connected with Chiller Outdoor units.
- ③ Dummy : Dummy of a Module Controller.

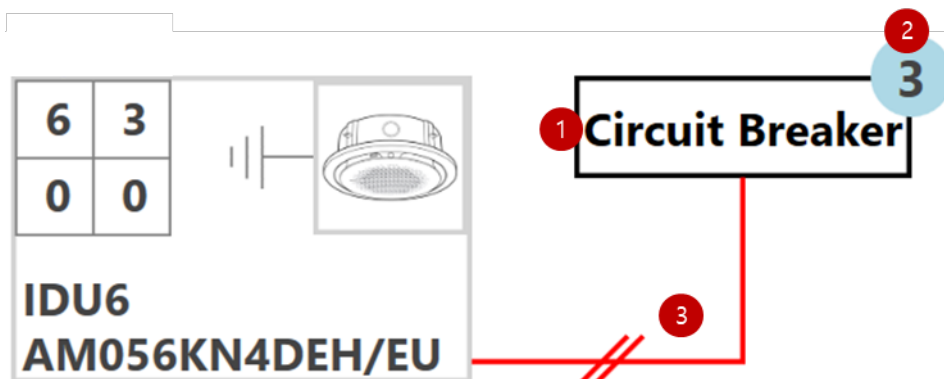
### 1.2.3.2.9. Upper Controller Area



- ① Image : Image of the Controller.
- ② Model Code : Model Code of the Controller.
- ③ Address : Address of the Controller.

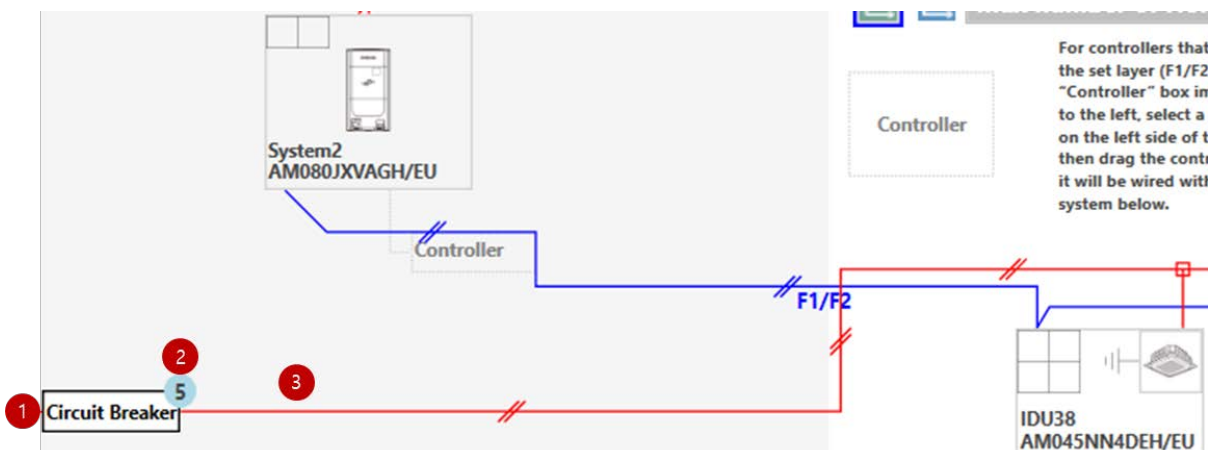
### 1.2.3.2.10. Circuit Breaker

#### 1.2.3.2.10.1. Individual Circuit Breaker



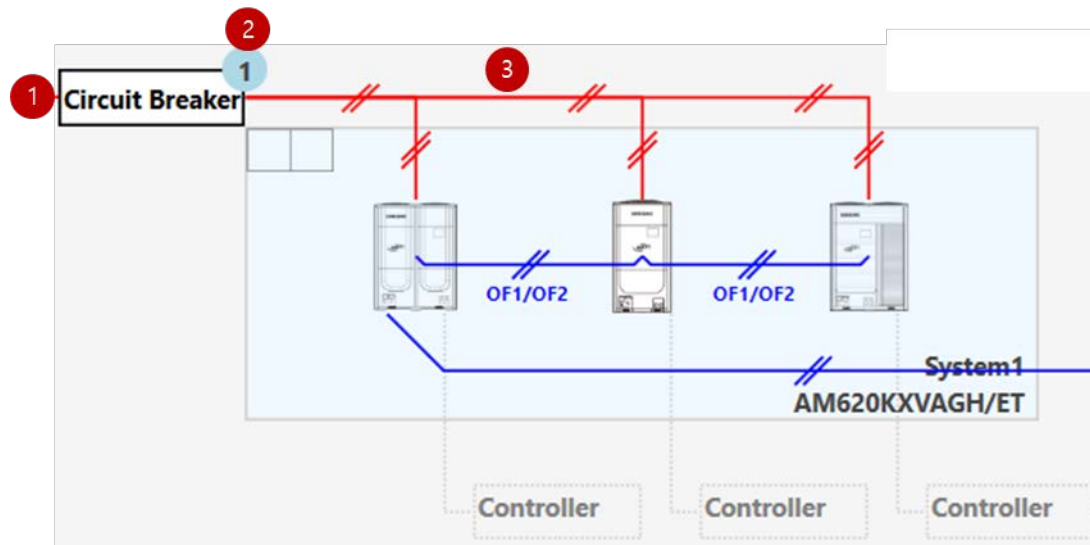
- ① Individual Circuit Breaker : Symbol of an Individual Circuit Breaker.
- ② Number : The number of an Individual Circuit Breaker.
- ③ Power Wire : Power Wire connected to an Individual Circuit Breaker.

#### 1.2.3.2.10.2. Circuit Breaker for Indoor units



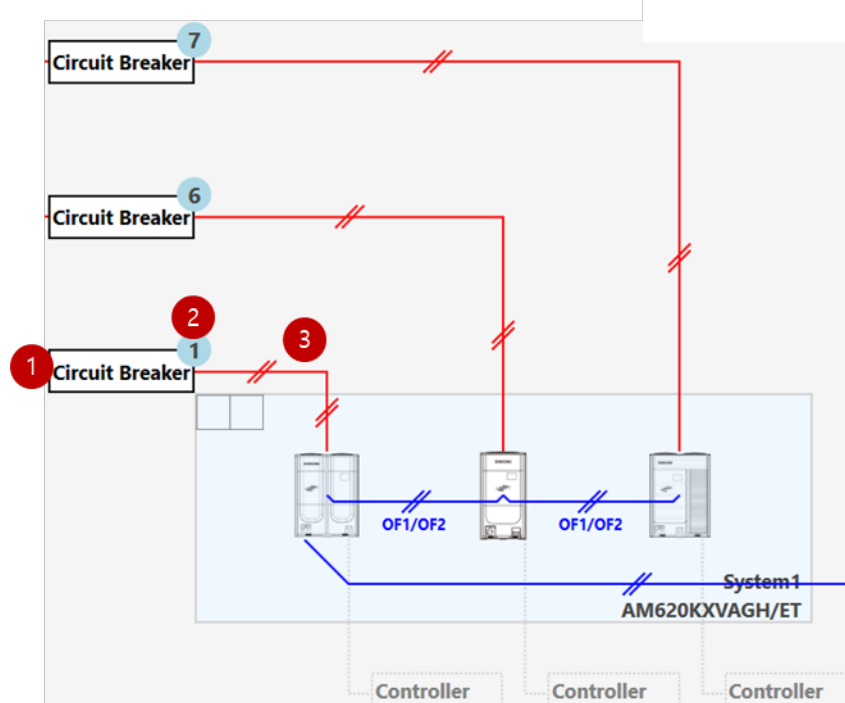
- ① Circuit Breaker : Circuit Breaker of Indoor Units.
- ② Number : The number of a Circuit Breaker.
- ③ Power Wire : Power Wire connected to Indoor Units.

### 1.2.3.2.10.3. Outdoor Unit Circuit Breaker – Combination Module



- ① Circuit Breaker : Circuit Breaker of Outdoor Units.
- ② Number : The number of a Circuit Breaker.
- ③ Power Wire : Power Wire connected to Outdoor Units.

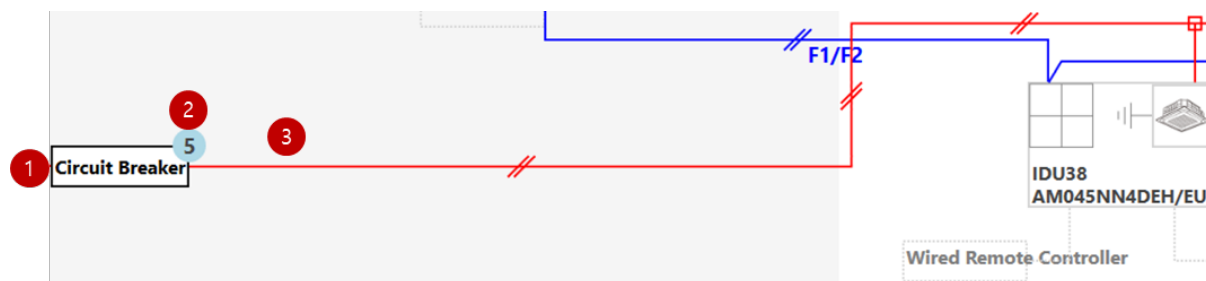
### 1.2.3.2.10.4. Outdoor Unit Circuit Breaker – Single Module



- ① Circuit Breaker : Circuit Breaker of the Outdoor Unit.
- ② Number : The number of a Circuit Breaker.

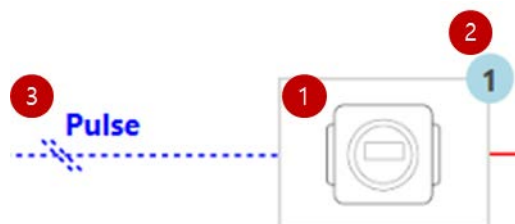
- ③ Power Wire : Power Wire connected to an Outdoor Unit.

#### 1.2.3.2.10.5. Floor Circuit Breaker



- ① Circuit Breaker : Circuit Breaker on a floor.
- ② Number : The number of a Circuit Breaker.
- ③ Power Wire : Power Wire connected to Indoor units.

#### 1.2.3.2.11. Watt-hour Meter



- ① Watt-hour Meter : Watt-hour meter.
- ② Number : The number of a Watt-hour Meter.
- ③ Communication Wire : Communication Wire connected with another controller.

#### 1.2.3.2.12. Power Wire

Represented in a solid red line by default and the number of wires is shown as slashes. The color can be changed in the configuration.



- ① Power Wires : The number of wires.

#### 1.2.3.2.13. Communication Wire

Represented in a solid blue line by default and the number of wires is shown as slashes. The color can be changed in the configuration.



- ① Communication Wire : The number of wires.  
② Channel : Channel name of wires.