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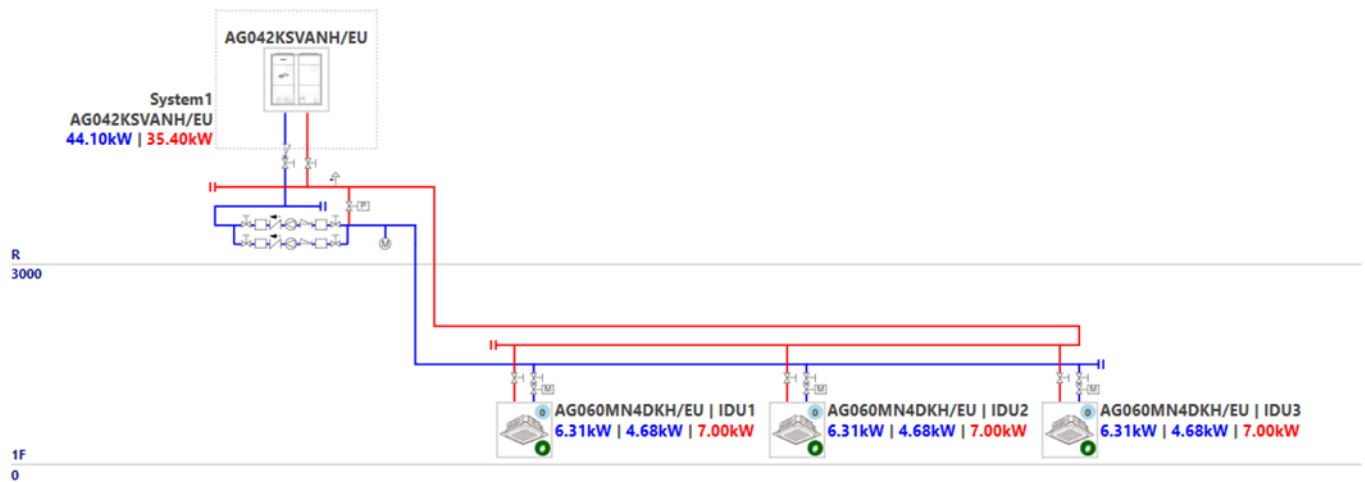
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1. Design View – Water Piping View

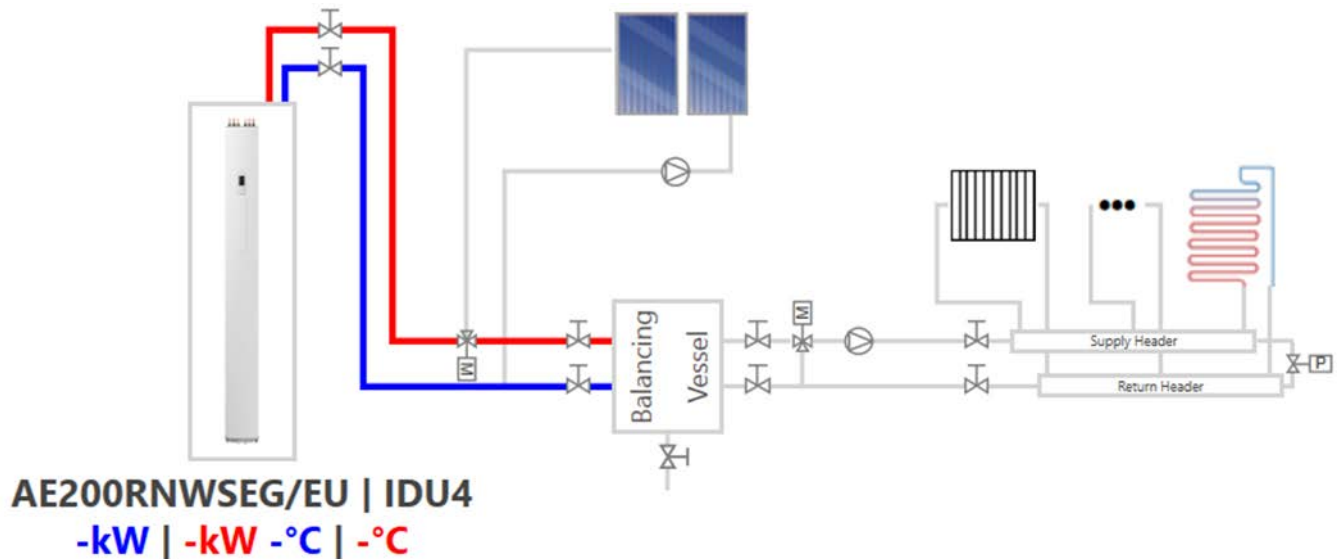
1.1. Summary

Determining the Entering/Leaving water pipe properties of the Chiller or EHS system and, check the results such as recommended flow velocity, pressure loss, etc. The Water Piping View does not provide to add or modify the Equipment and the diagram is automatically configured by the Water Piping Options.

(Chiller + AHU/FCU System Example)



(EHS System Example)



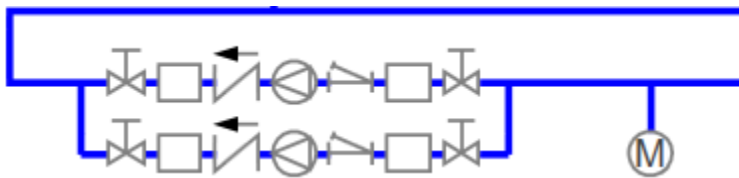
1.2. Water Piping Diagram

1.2.1. Chiller System

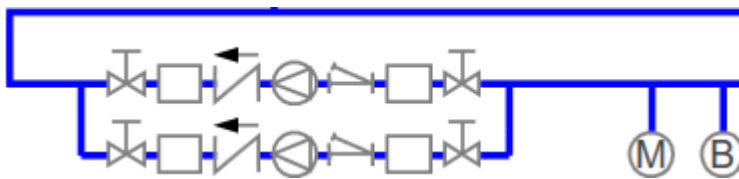
When the Water Piping Mode is activated, the piping diagram is generated depending on whether the buffer tank is included and the flow rate control method settings. The buffer tank symbol is shown or hidden by the buffer tank option and, AHU/FCU piping valve expression is changed by the flow rate control method. If you need an explanation of the symbols in the Water Piping View, you can refer to the legend by clicking the question mark button at the top right of the Water Piping View.

Expression according to whether a buffer tank is included

[buffer tank is excluded]

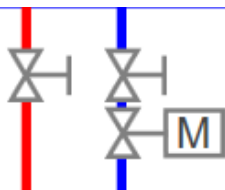


[buffer tank is included]

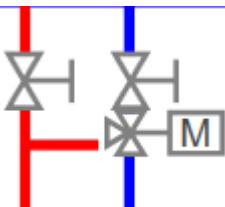


Expression according to whether the flow rate control method

[2-Way Valve]

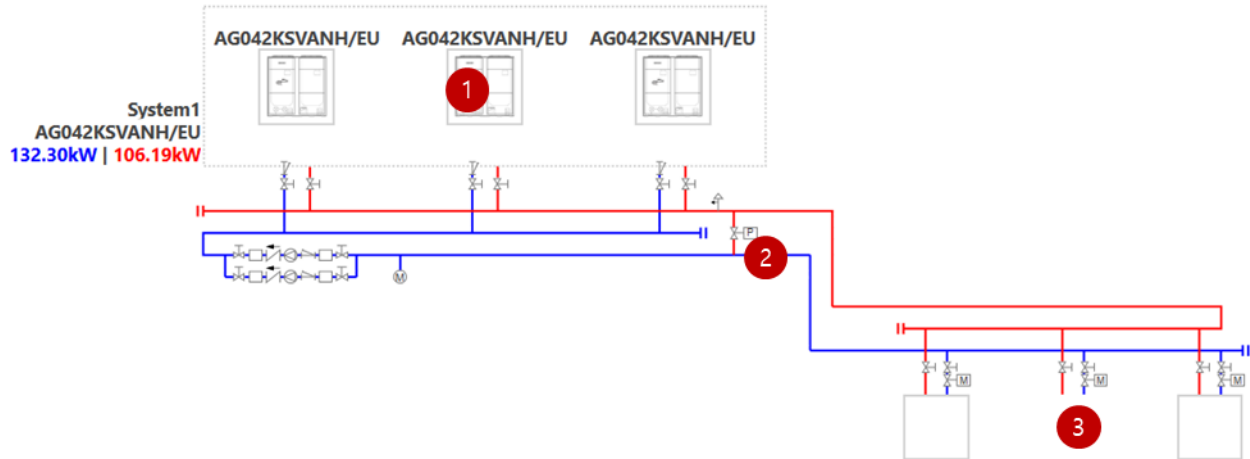


[3-Way Valve]



1.2.1.1. Chiller Only

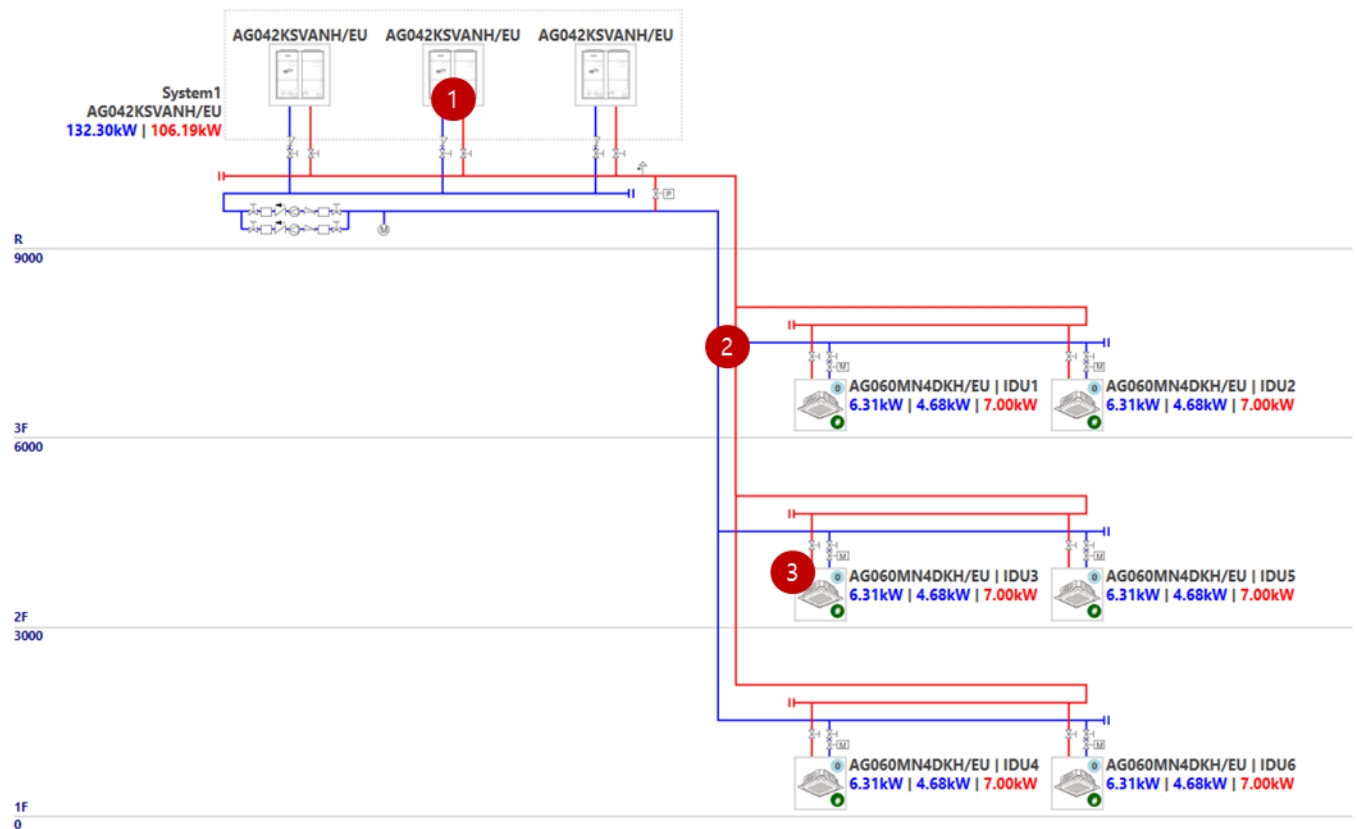
Display the Water Pipe Connections of the Chiller Outdoor Unit and virtual AHU/FCU. In this case, AHU/FCU is displayed as a virtual unit since the Chiller Outdoor Unit is selected alone.



- ① Chiller Outdoor Unit : Selected Chiller Outdoor Unit group.
- ② Entering/Leaving Water Pipe : Display the Entering/Leaving water pipe connections of the Chiller Outdoor Unit and Indoor Units. When selecting a pipe, entire pipes are selected and, properties for all pipes can be set.
- ③ Virtual AHU/FCU Indoor Units : Represented the conceptual diagram of AHU/FCU that connected with the Chiller Outdoor Unit..

1.2.1.2. Chiller + AHU/FCU

Display the Water Pipe Connections of the Chiller Outdoor Unit and the AHU/FCU. In the case of building based design, Water Pipes are represented according to the floor on which the equipment is placed.

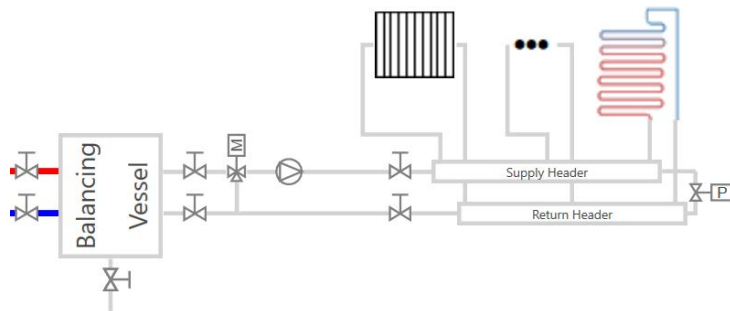


- ① Chiller Outdoor Unit : Selected Chiller Outdoor Unit group.
- ② Entering/Leaving Water Pipe : Display the Entering/Leaving water pipe connections of the Chiller Outdoor Unit and Indoor Units. Pipes are selected by route, and when you select an Entering or Leaving pipe, you can set properties for the route.
- ③ AHU/FCU Indoor Units : Selected AHU/FCU Indoor Units. If turned on the building based design, AHU/FCUs are represented according to the floor on which the equipment is placed.

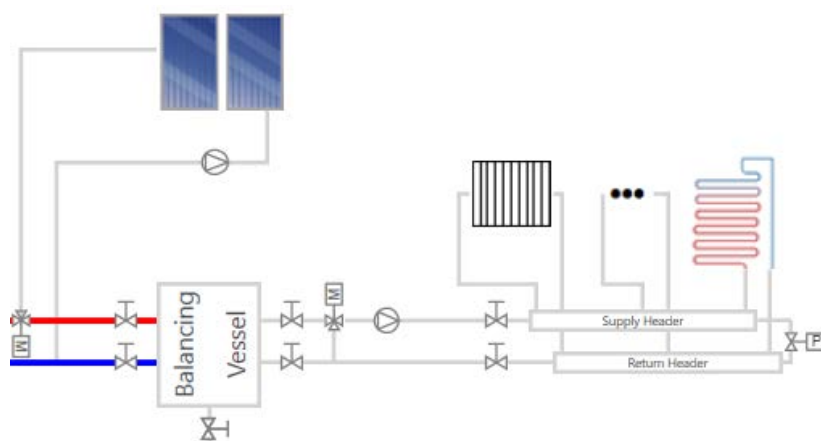
1.2.2. EHS System

When EHS Water Piping mode is activated, the Water Piping diagram varies depending on whether using a solar panel and the operation mode settings. The Outdoor unit is not displayed in other systems except for the EHS Mono system.

[Heating without a solar panel]



[Heating with a solar panel]

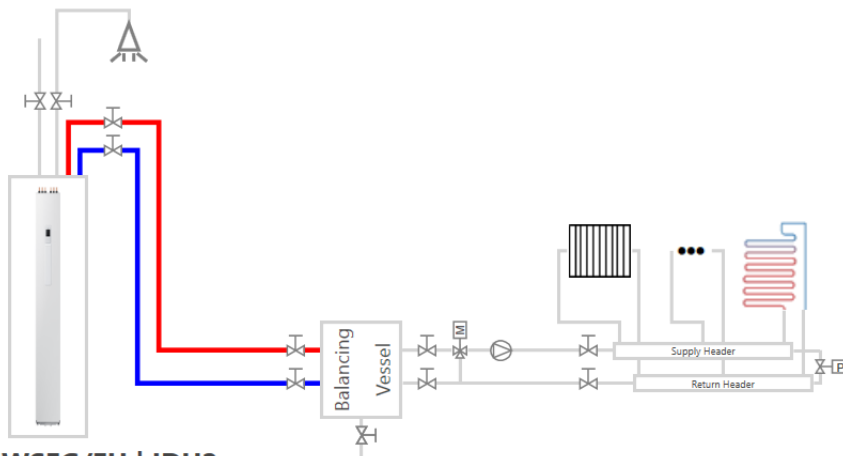


[Domestic Hot Water supply without a solar panel]



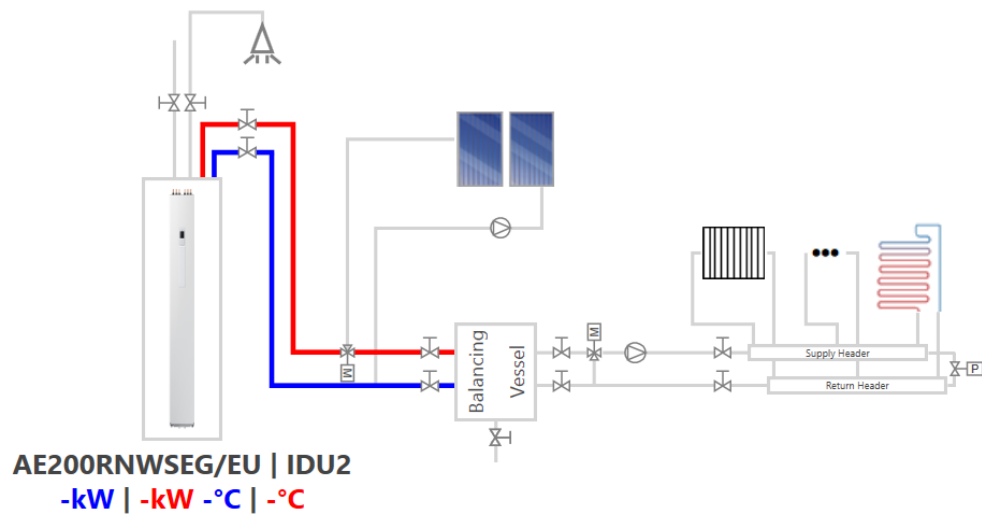
AE200RNWSEG/EU | IDU4
-kW | -kW -°C | -°C

[Heating + Domestic Hot Water supply without a solar panel]

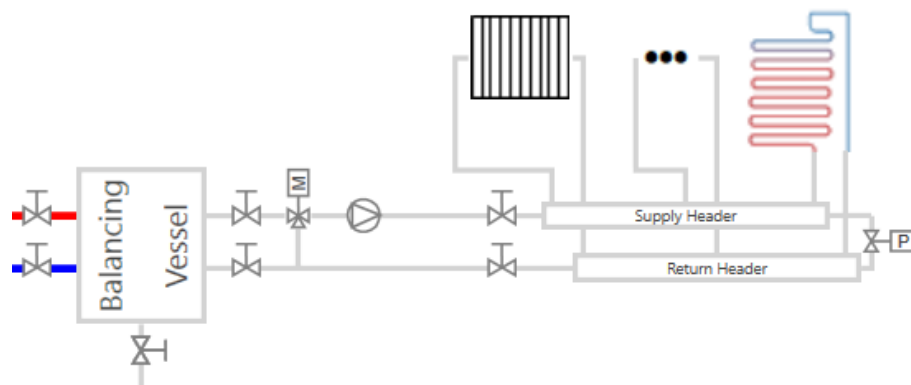


AE200RNWSEG/EU | IDU2
-kW | -kW -°C | -°C

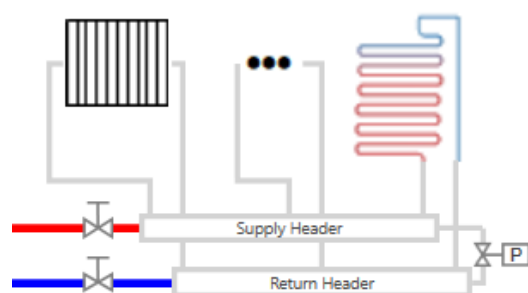
[Heating + Domestic Hot Water supply with a solar panel]



[Indirect Heating]

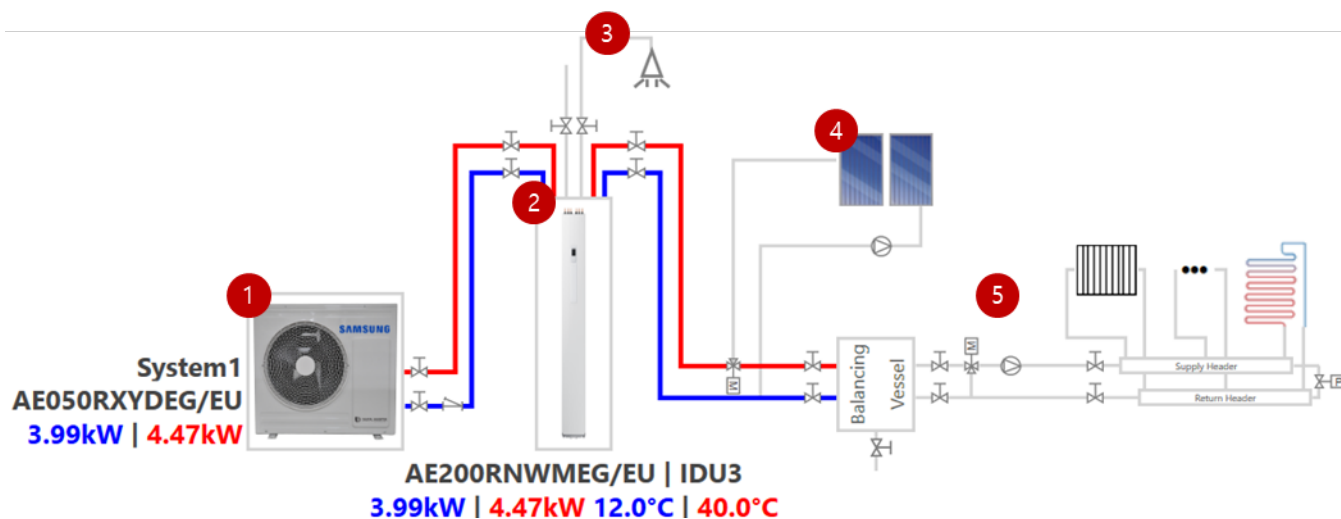


[Direct Heating]



1.2.2.1. EHS Mono Tank Included

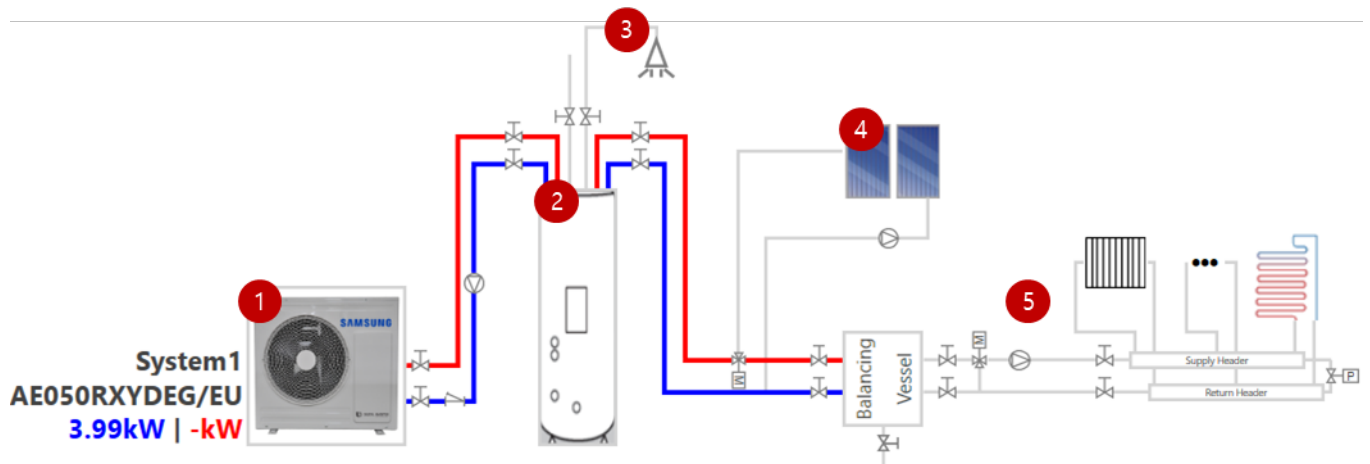
Display the Water Pipe Connections of the EHS Mono Tank Included system. In the case of the Mono system, the Outdoor unit is displayed since the water pipes are connected to the Outdoor unit.



- ① Mono Outdoor Unit : Selected Mono Outdoor Unit.
- ② Mono Indoor Unit : Selected Indoor Unit of the Mono system.
- ③ Domestic Hot Water : Display when domestic hot water is selected.
- ④ Solar Panel : Display when a Solar Panel is selected.
- ⑤ Heating Conceptual Diagram : Display the Heating schematic diagram includes such a header, balancing vessel, etc.

1.2.2.2. EHS Mono Tank Excluded

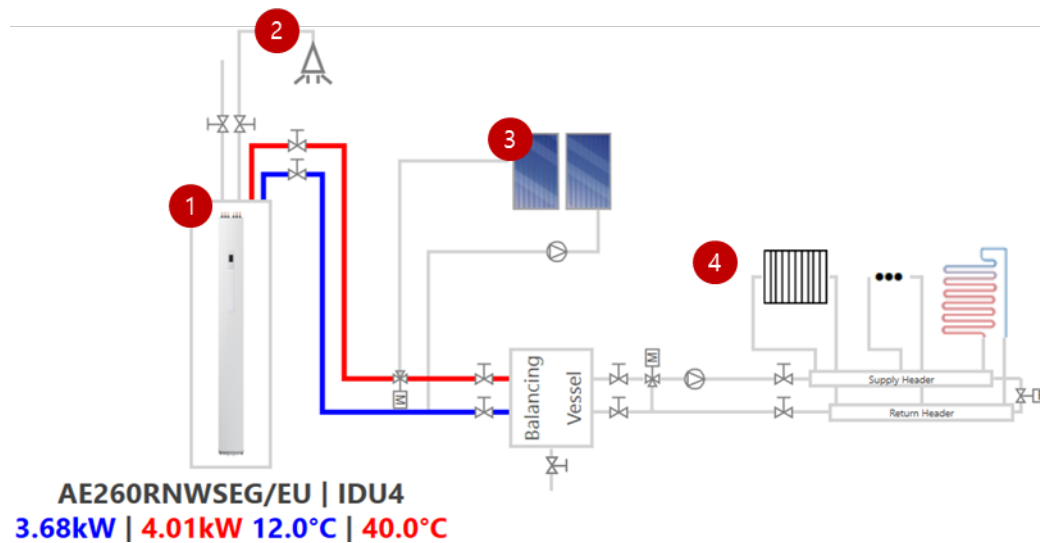
Display the Water Pipe Connections of the EHS Mono Tank Excluded system. Mono In the case of the Mono system, the Outdoor unit is displayed since the water pipes are connected to the Outdoor unit.



- ① Mono Outdoor Unit : Selected Mono Outdoor Unit.
- ② Dummy Indoor Unit : Represent a dummy Indoor Unit.
- ③ Domestic Hot Water : Display when domestic hot water is selected.
- ④ Solar Panel : Display when a Solar Panel is selected.
- ⑤ Heating Conceptual Diagram : Display the Heating schematic diagram includes such a header, balancing vessel, etc.

1.2.2.3. EHS Split Tank Included

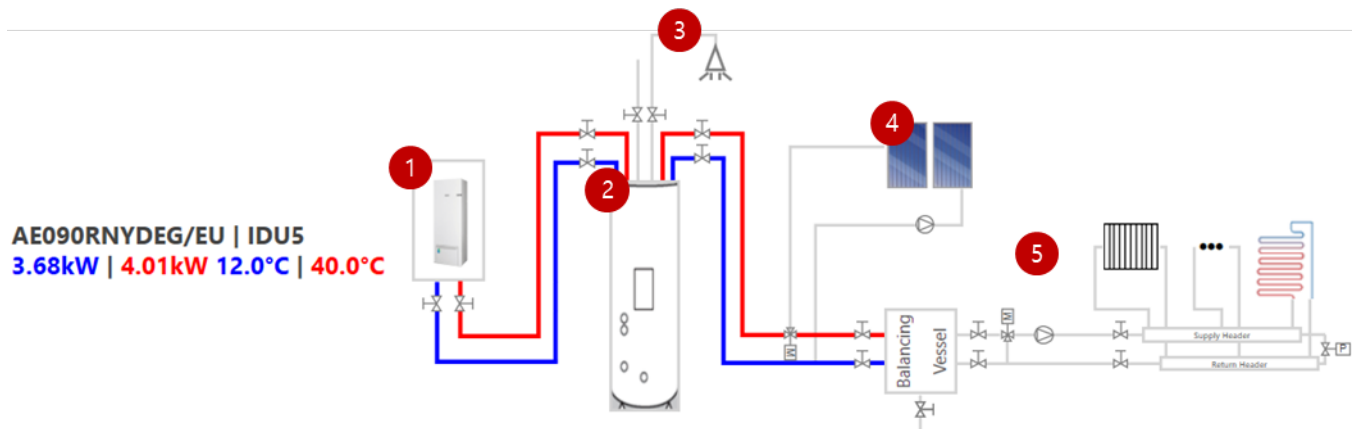
Display the Water Pipe Connections of the EHS Split Tank Included system.



- ① Split Indoor Unit : Selected Split Indoor Unit.
- ② Domestic Hot Water : Display when domestic hot water is selected.
- ③ Solar Panel : Display when a Solar Panel is selected.
- ④ Heating Conceptual Diagram : Display the Heating schematic diagram includes such a header, balancing vessel, etc.

1.2.2.4. EHS Split Tank Excluded

Display the Water Pipe Connections of the EHS Split Tank Excluded system.



- ① Split Hydro Unit : Selected Split Hydro Unit.
- ② Dummy Indoor Unit : Represent a dummy Indoor Unit.
- ③ Domestic Hot Water : Display when domestic hot water is selected.
- ④ Solar Panel : Display when a Solar Panel is selected.
- ⑤ Heating Conceptual Diagram : Display the Heating schematic diagram includes such a header, balancing vessel, etc.