

WATERSTAGETM

OPTIONAL PARTS

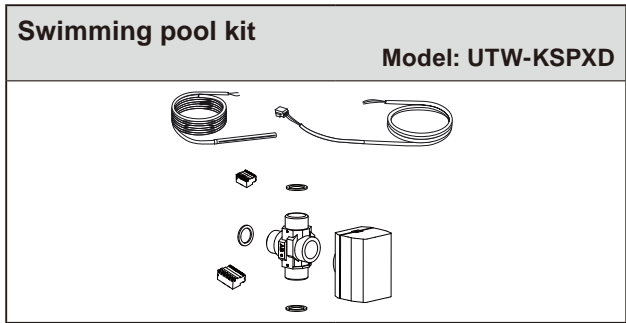
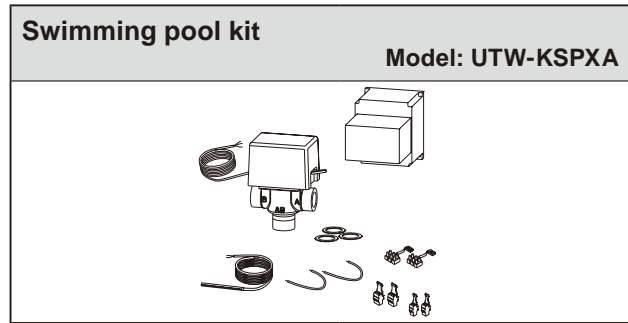
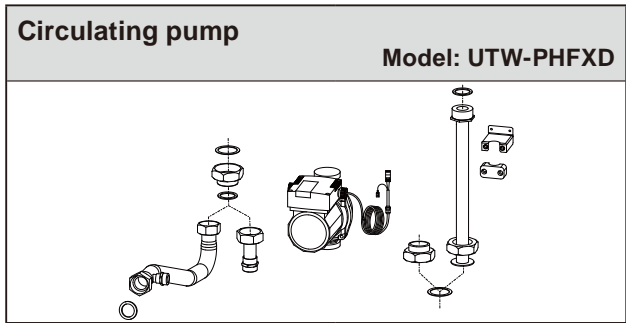
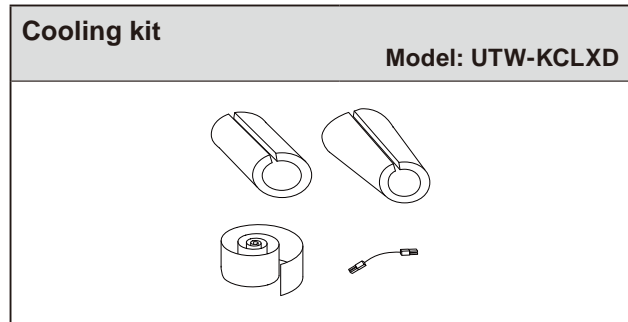
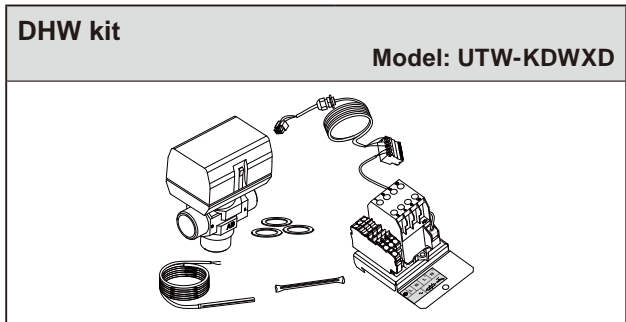
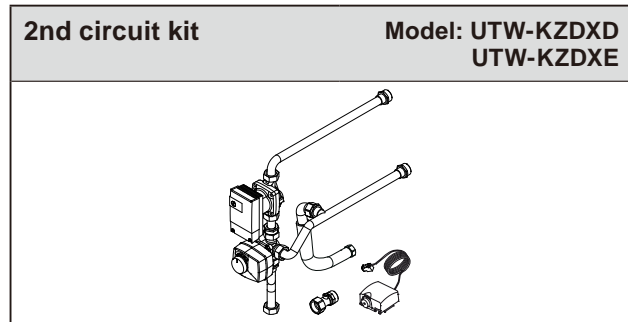
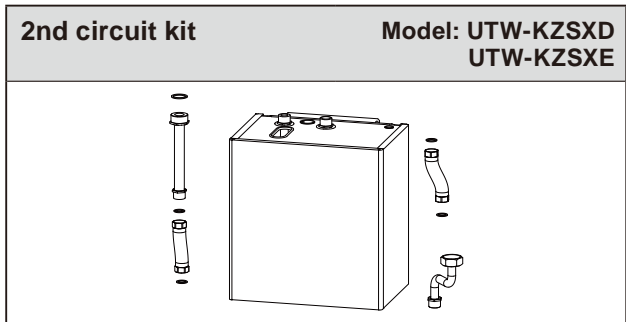
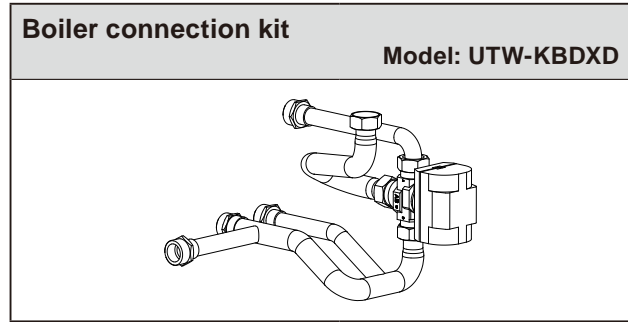
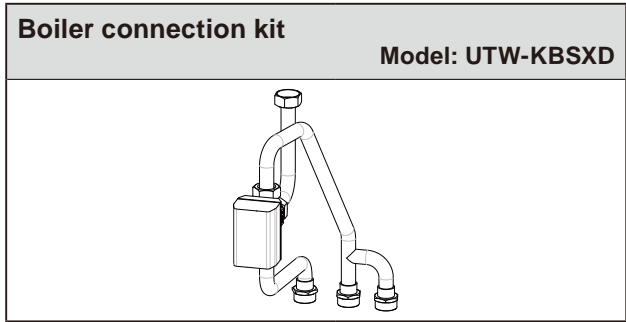
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OPTIONAL PARTS

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1. OPTIONAL PARTS LIST

1-1. LIST



OPTIONAL
PARTS

OPTIONAL
PARTS

Room thermostat

Model: UTW-C55XA



Room thermostat (Wireless)

Model: UTW-C58XD



Wireless



Remote control

Model: UTW-C75XA, UTW-C75XA-E



Remote control (Wireless)

Model: UTW-C78XD, UTW-C78XD-E



Wireless



DHW Tank

Model: UTW-T20XA, UTW-T30XA

200L model



300L model



DHW Tank

Model: UTW-T30XD



Outdoor sensor transmitter

Model: UTW-MOSXD



Wireless



RF module

Model: UTW-M60XD, UTW-MRCXD



UTW-M60XD



for X60-Port



UTW-MRCXD



for X86 or X150-Port

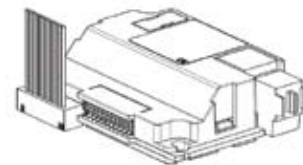
Balancing vessel

Model: UTW-TEVXA



LPB clip

Model: UTW-KL1XD



Modbus clip

Model: UTW-KMBXE



Web server

Model: UTW-KWSXD, UTW-KW1XD, UTW-KW4XD

UTW-KWSXD



UTW-KW1XD
UTW-KW4XD

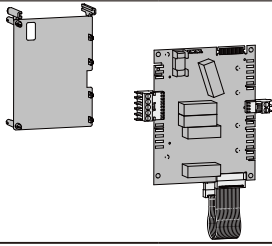


OPTIONAL PARTS

OPTIONAL PARTS

Regulation extension kit

Model: UTW-KREXD



Mode exchange kit

Model: UTW-KMEXE



Service tool (incl. OCI700 adaptor)

Model: UTW-KSTXD



Service tool software

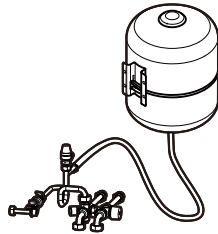
Model: UTW-KPSXD



CD-ROM
(Software)

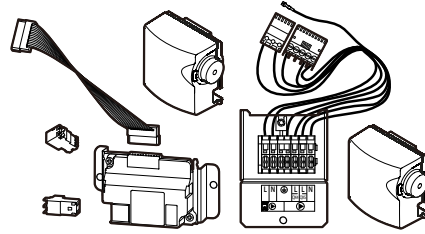
DHW expansion vessel kit

Model: UTW-KDEXE



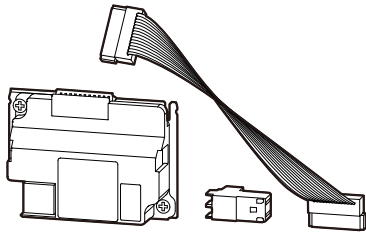
Cascade master kit (incl. LPB clip)

Model: UTW-KCMXE



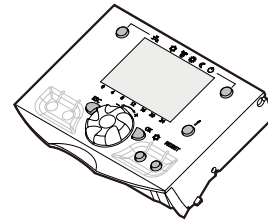
Cascade slave kit (incl. LPB clip)

Model: UTW-KCSXE



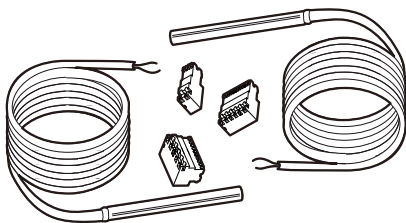
HMI kit

Model: UTW-KHMXE



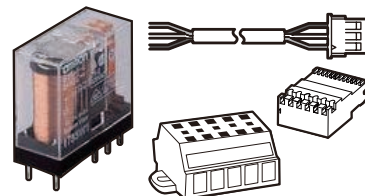
Solar regulation kit

Model: UTW-KSRXE



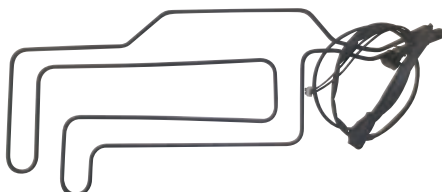
Low noise kit

Model: UTW-KLNXE



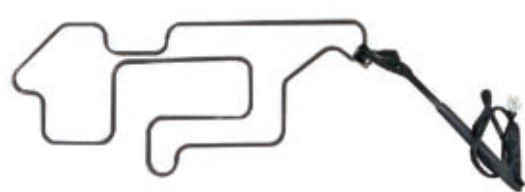
Base heater

Model: UTW-HAMXE



Base heater

Model: UTW-HAMXF



OPTIONAL
PARTS

OPTIONAL
PARTS

External connect kit

Model: UTY-XWZXZ2

INPUT
OUTPUT



for
OUTDOOR UNIT

Drain pan

Model: UTW-KDPXA



for
OUTDOOR UNIT

1-2. CONNECTION LIST

●: Available, —: Not available, ○: Standard equipment

Unit category	Optional parts		Split type			Monobloc type			Split integrated DHW type		
	Names	Model	Single phase type		3 phase type	Single phase			Single phase type	3 phase type	
			Comfort series	High power series		Compact series			Comfort series	High power series	
			050DD6 100DD6	140DC6	160DC9	080LA 100LA	050LE	080LE 100LE	050DD6 100DD6	140DD6	160DD9
HYDRAULIC UNIT	Boiler connection kit	UTW-KBSXD	●	●	●	—	—	—	—	—	—
		UTW-KBDXD	—	—	—	—	—	—	●	●	●
	2nd circuit kit	UTW-KZSXD UTW-KZSXE	●	●	●	—	—	—	—	—	—
		UTW-KZDXD UTW-KZDXE	—	—	—	—	—	—	●	●	●
	DHW kit	UTW-KDWXA	—	—	—	●	●	●	○	○	○
		UTW-KDWXD	●	●	●	—	—	—	○	○	○
	Cooling kit	UTW-KCLXD	●	●	●	○	○	○	●	●	●
	Circulating pump	UTW-PHFXD	—	●	●	—	—	—	—	●	●
	Swimming pool kit	UTW-KSPXA	●	●	●	●	●	●	●	●	●
		UTW-KSPXD	●	●	●	—	—	—	●	●	●
	Heat exchanger for Swimming pool	UTW-ESPXA	●	●	●	●	●	●	●	●	●
	Room thermostat	UTW-C55XA	●	●	●	●	●	●	●	●	●
		UTW-C58XD	●	●	●	●	●	●	●	●	●
	Remote control	UTW-C75XA UTW-C75XA-E	●	●	●	●	●	●	●	●	●
		UTW-C78XD UTW-C78XD-E	●	●	●	●	●	●	●	●	●
	DHW Tank	UTW-T20XA UTW-T30XA	●	●	●	●	●	●	○	○	○
		UTW-T30XD	●	●	●	●	●	●	○	○	○
	Outdoor sensor transmitter	UTW-MOSXD	●	●	●	●	●	●	●	●	●
	RF module	UTW-M60XD	●	●	●	●	●	●	●	●	●
		UTW-MRCXD	●	●	●	●	●	●	●	●	●
	Balancing vessel	UTW-TEVXA	●	●	●	●	●	●	●	●	●
	LPB clip	UTW-KL1XD	●	●	●	—	—	—	●	●	●
	Modbus clip	UTW-KMBXE	●	●	●	—	—	—	●	●	●
	Web server	UTW-KWSXD	●	●	●	●	●	●	●	●	●
		UTW-KW1XD	●	●	●	●	●	●	●	●	●
		UTW-KW4XD	●	●	●	●	●	●	●	●	●
	Regulation extension kit	UTW-KREXD	●	●	●	—	—	—	●	●	●
	Mode exchange kit	UTW-KMEXE	●	●	●	●	●	●	●	●	●

OPTIONAL PARTS

OPTIONAL PARTS

●: Available, —: Not available, ○: Standard equipment

Unit category	Optional parts		Split type			Monobloc type			Split integrated DHW type		
	Names	Model	Single phase type		3 phase type	Single phase			Single phase type		3 phase type
			Comfort series	High power series		Compact series			Comfort series	High power series	
			050DD6 100DD6	140DC6	160DC9	080LA 100LA	050LE	080LE 100LE	050DD6 100DD6	140DD6	160DD9
HYDRAULIC UNIT	Service tool (incl. OCI700 adaptor)	UTW-KSTXD	●	●	●	●	●	●	●	●	●
	Service tool software	UTW-KPSXD	●	●	●	●	●	●	●	●	●
	DHW expansion vessel kit	UTW-KDEXE	—	—	—	—	—	—	●	●	●
	Cascade master kit (incl. LPB clip)	UTW-KCMXE	— ●	●	●	—	—	—	— —	—	—
	Cascade slave kit (incl. LPB clip)	UTW-KCSXE	— ●	●	●	—	—	—	— —	—	—
	HMI kit	UTW-KHMXE	●	●	●	—	—	—	●	●	●
	Solar regulation kit	UTW-KSRXE	●	●	●	—	—	—	—	—	—
	Low noise kit	UTW-KLNXE	—	●	●	—	—	—	—	●	●
	Base heater	UTW-HAMXE	—	—	—	●	—	●	—	—	—
UTW-HAMXF		—	—	—	—	●	—	—	—	—	

●: Available, —: Not available, ○: Standard equipment

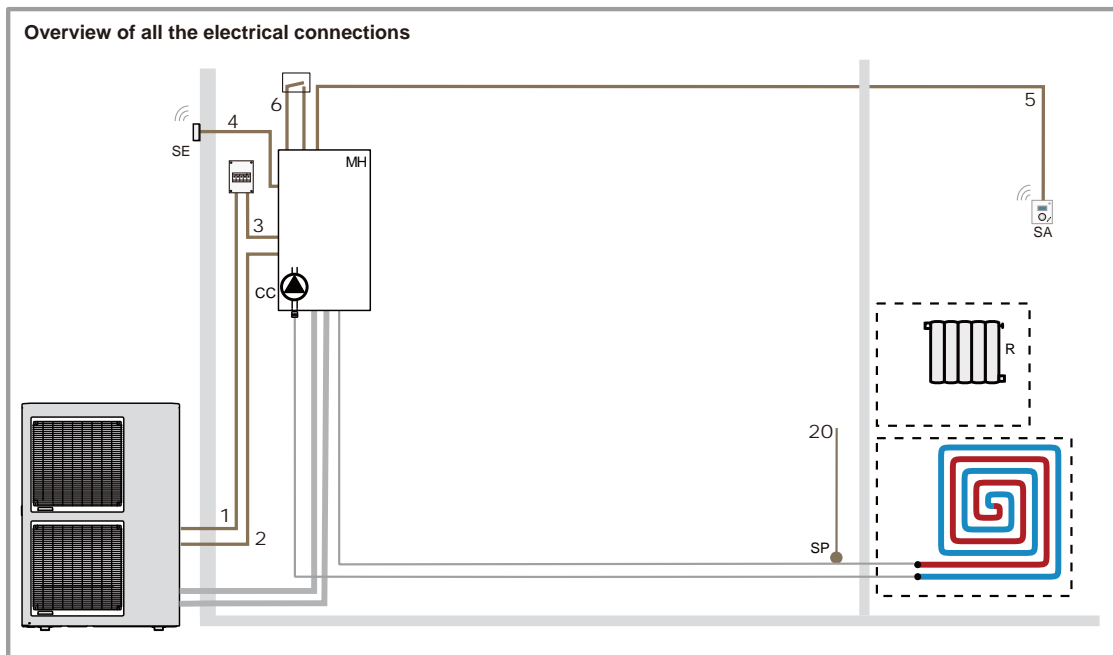
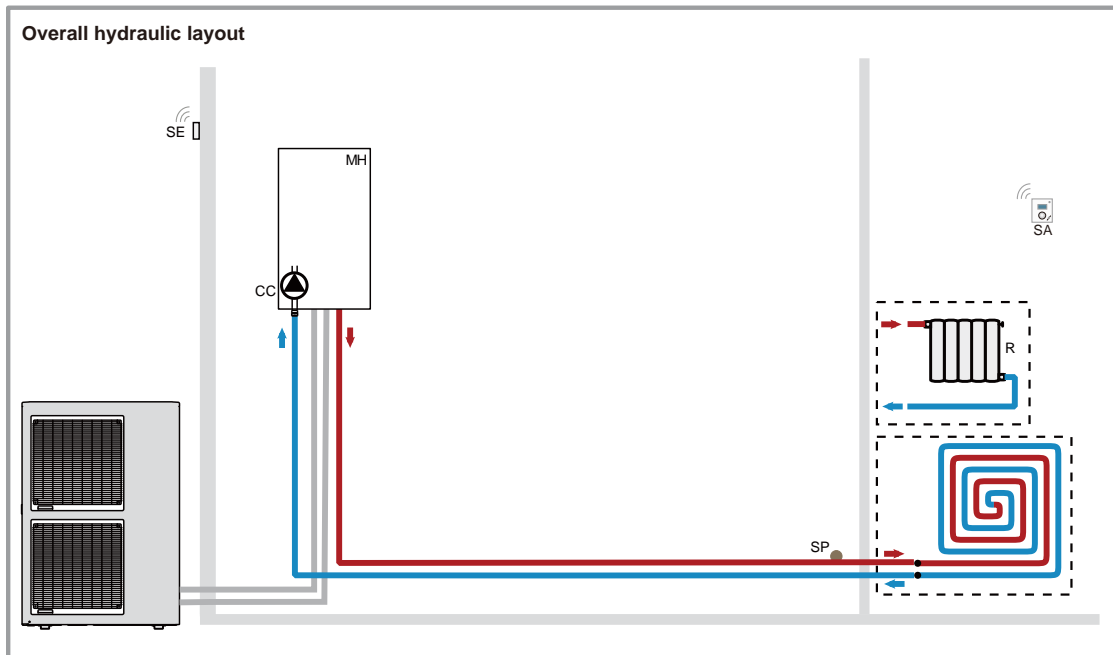
Unit category	Optional parts		Split type			Monobloc type			Split integrated DHW type		
	Names	Model	Single phase type		3 phase type	Single phase			Single phase type		3 phase type
			Comfort series	High power series		Compact series			Comfort series	High power series	
			060LDC	112LCT	112LCT	080LA	050LE	080LE	060LDC	112LCT	112LCT
			080LDC	140LCT	140LCT	100LA		100LE	080LDC	140LCT	140LCT
100LDT		160LCT				100LDT		160LCT			
OUTDOOR UNIT	External connect kit	UTY-XWZXZ2	—	●	●	—	—	—	—	●	●
	Drain pan	UTW-KDPXA	● *	—	—	—	—	—	—	—	—

* : For 060LDC, 080LDC.

2. CONNECTION CONFIGURATION EXAMPLE

2-1. 1-HEATING CIRCUIT

■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)



Legend

CC - Heating circulation pump

R - Radiators

SE - Outdoor sensor

MH - Indoor unit

SA - Room thermostat or Room control unit (option)

SP - Heated floor thermal safety fuse

1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)

2- Inter-connection between the outdoor unit and the indoor unit.

3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.

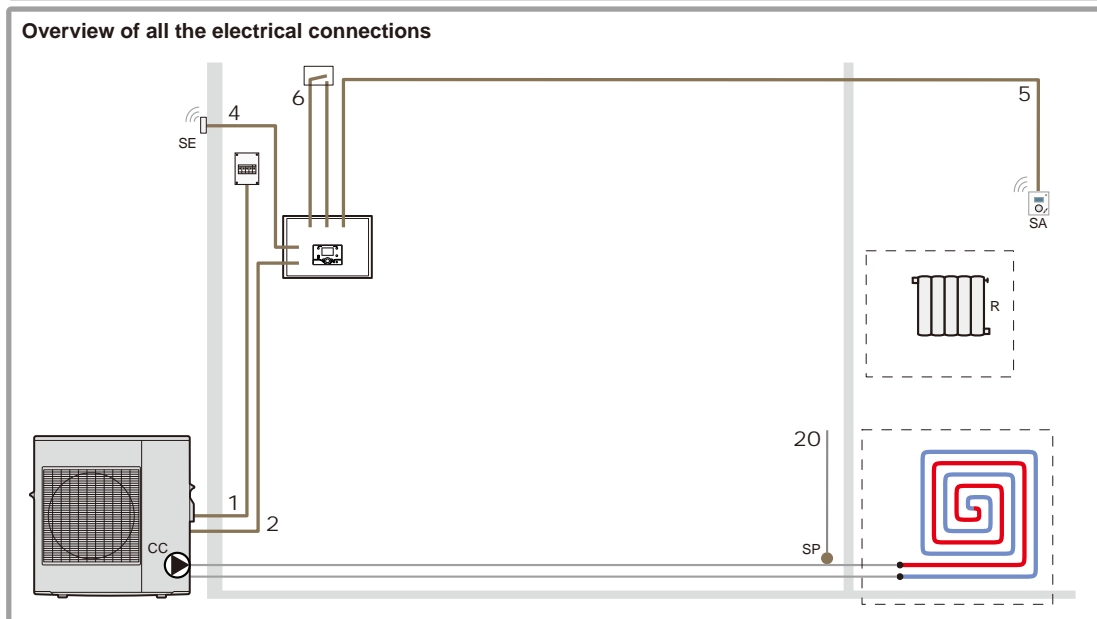
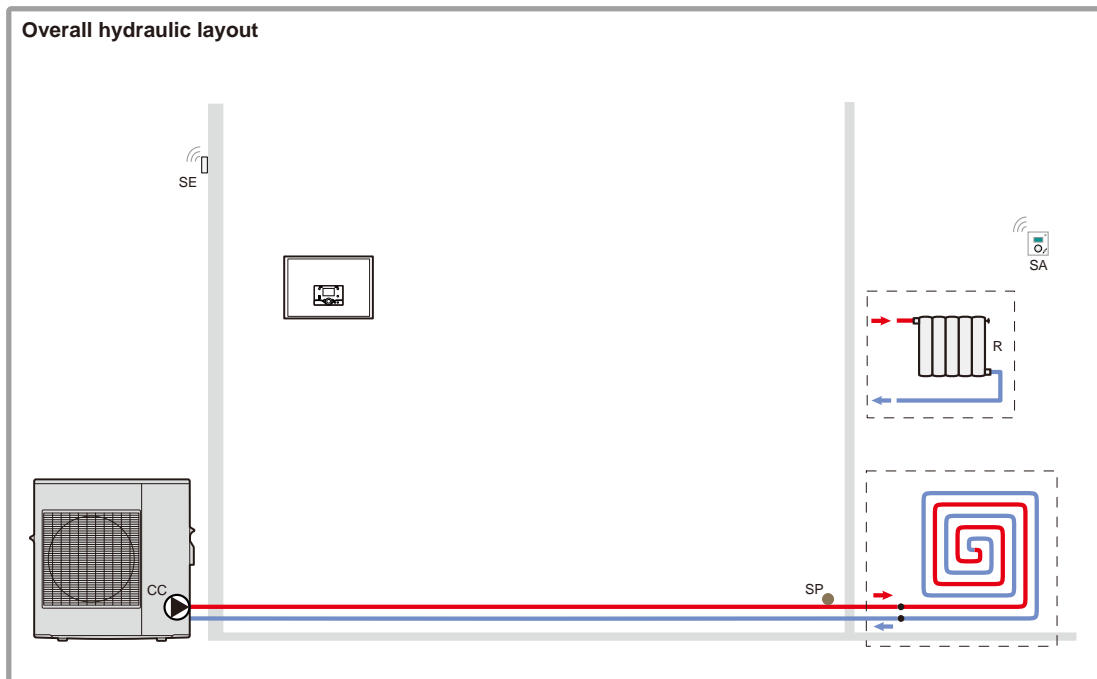
4- Outdoor sensor.

5- Room thermostat and/or remote controller.

6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.

20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

■ MONOBLOC TYPE (WP*A***L*)



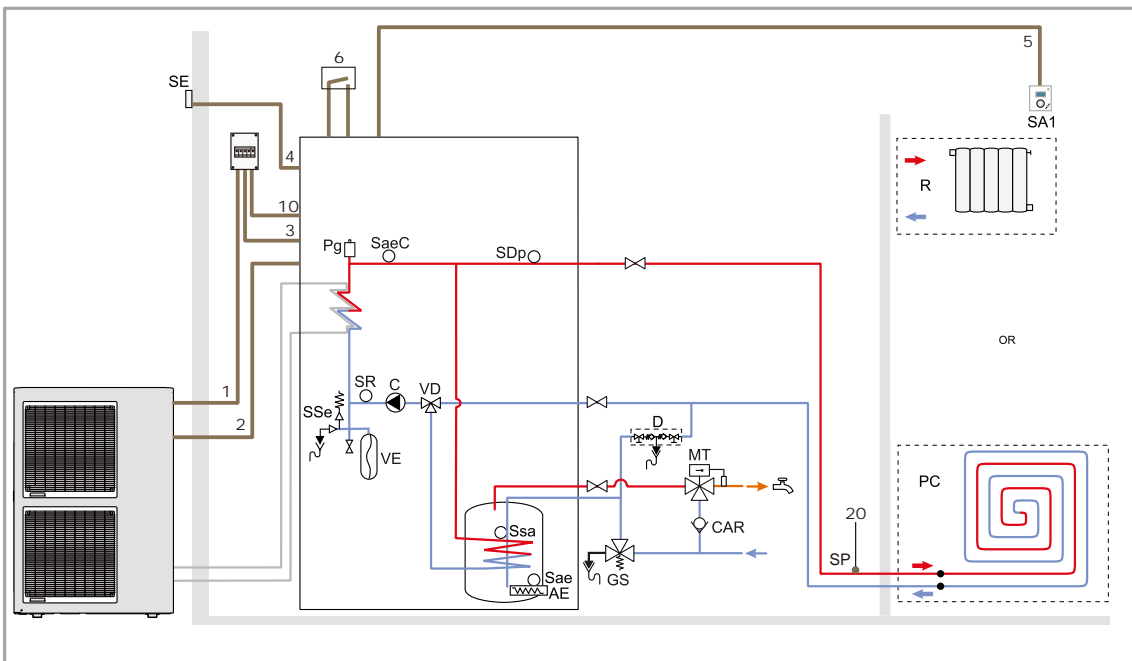
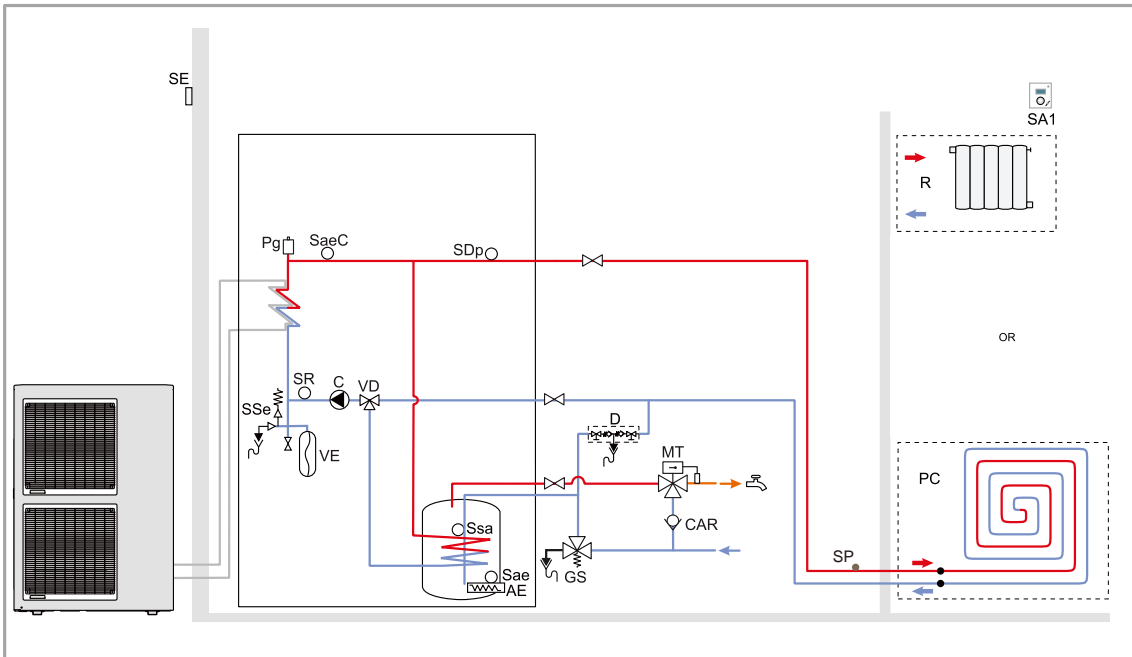
Legend

- | | | |
|---|--------------------------------------|--|
| CC - Heating circulation pump | SA - Room thermostat (option) | SP - Heated floor thermal safety fuse |
| R - Radiators (or fan convectors) | SE - Outdoor sensor | |
| 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side) | | |
| 2- Inter-connection between the outdoor unit and the indoor unit. | | |
| 4- Outdoor sensor. | | |
| 5- Room thermostat and/or remote controller. | | |
| 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator. | | |
| 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high. | | |

OPTIONAL PARTS

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■ SPLIT INTEGRATED DHW TYPE (WG*A***DD6, WG*G***DD6, WG*K***DD9)



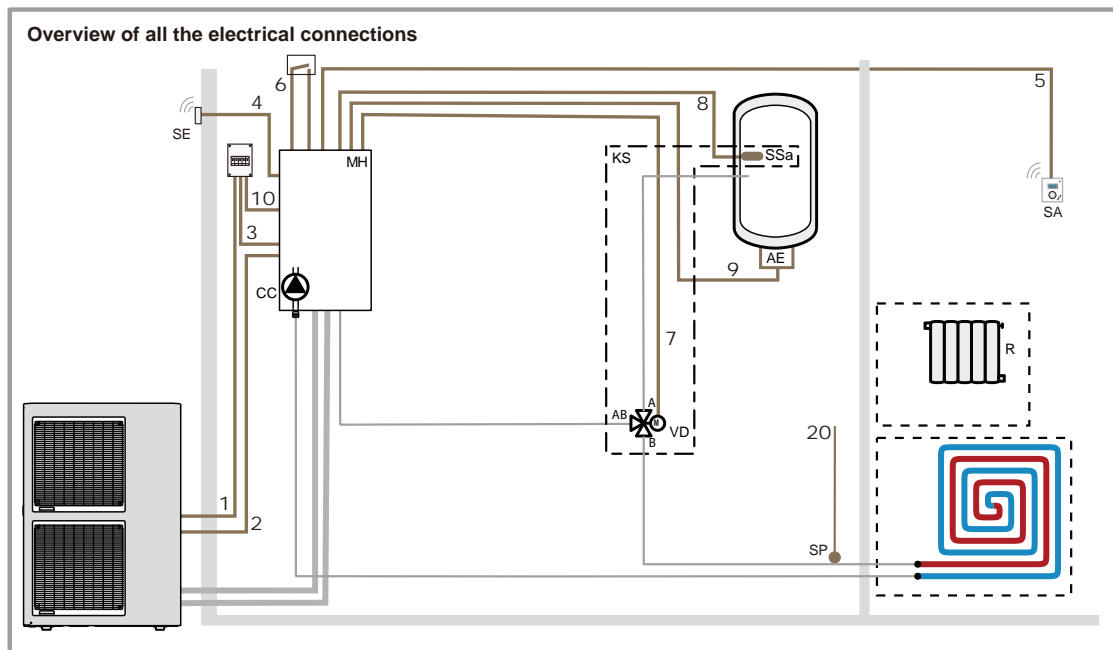
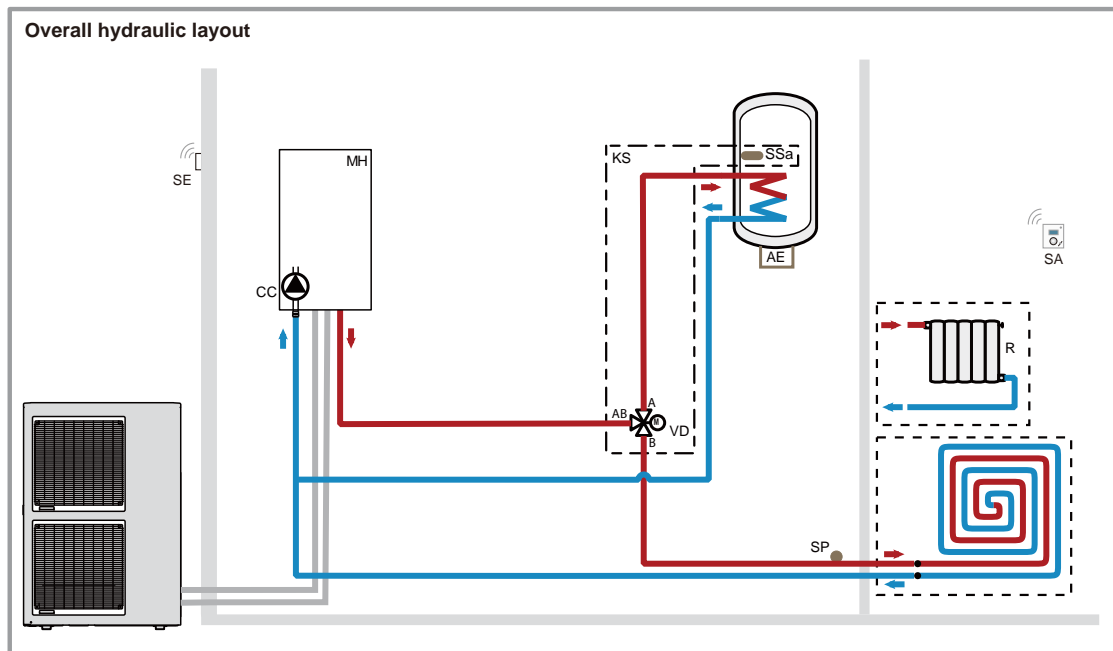
- Legend**
- | | | | |
|--------------------------------------|--|--|--------------------------------|
| AE - Back-up DHW | PC - Floor heating system | SaeC - Temperature safety (option heating back-up option) | Sse - Safety valve |
| CAR - Non-return valve | PG - Bleeder valve | SDp - Flow sensor | VD - Distribution valve |
| C - Heating circulation pump | R - Radiators | SR - Return sensor | VE - Expansion vessel |
| D - Shut-off | SA1 - Room thermostat circuit 1 (Option) | SP - Heated floor thermal safety fuse | |
| GS - Safety unit | Sae - Temperature safety of domestic electrical back-up | Ssa - DHW sensor | |
| MT - Thermostatic mixer valve | | | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 - 2- Inter connection between the outdoor unit and the indoor unit.
 - 3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
 - 4- Outdoor sensor.
 - 5- Room thermostat and/or remote controller.
 - 6- Contract with power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 - 10- Connect the electrical power supply for the domestic water back-up to the electric panel.
 - 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

OPTIONAL PARTS

OPTIONAL PARTS

2-2. 1-HEATING CIRCUIT AND DHW TANK

■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)



Legend

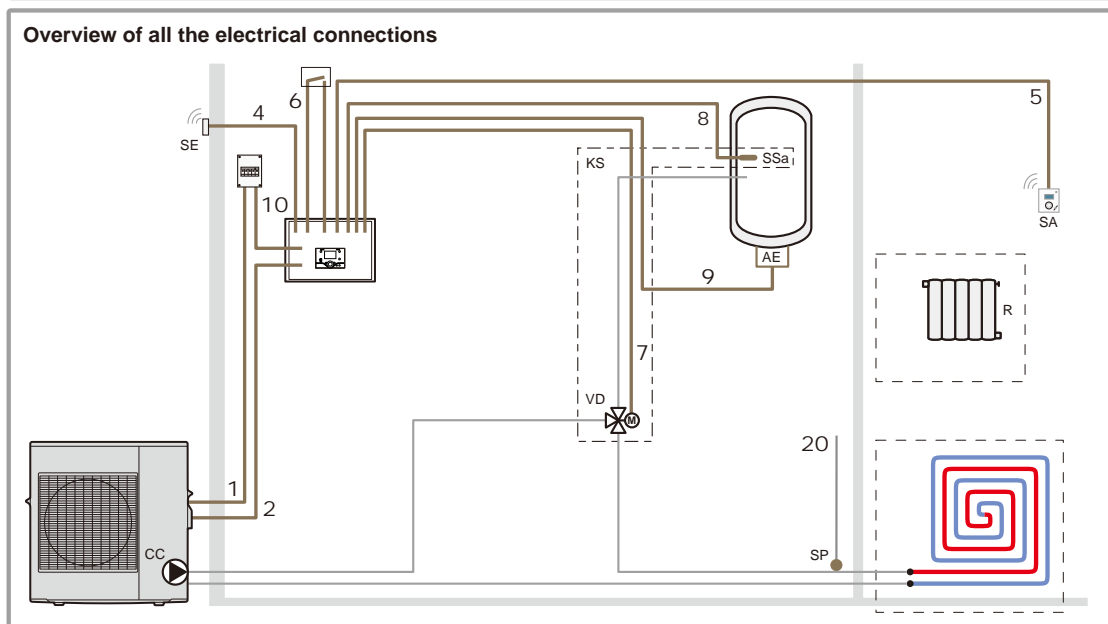
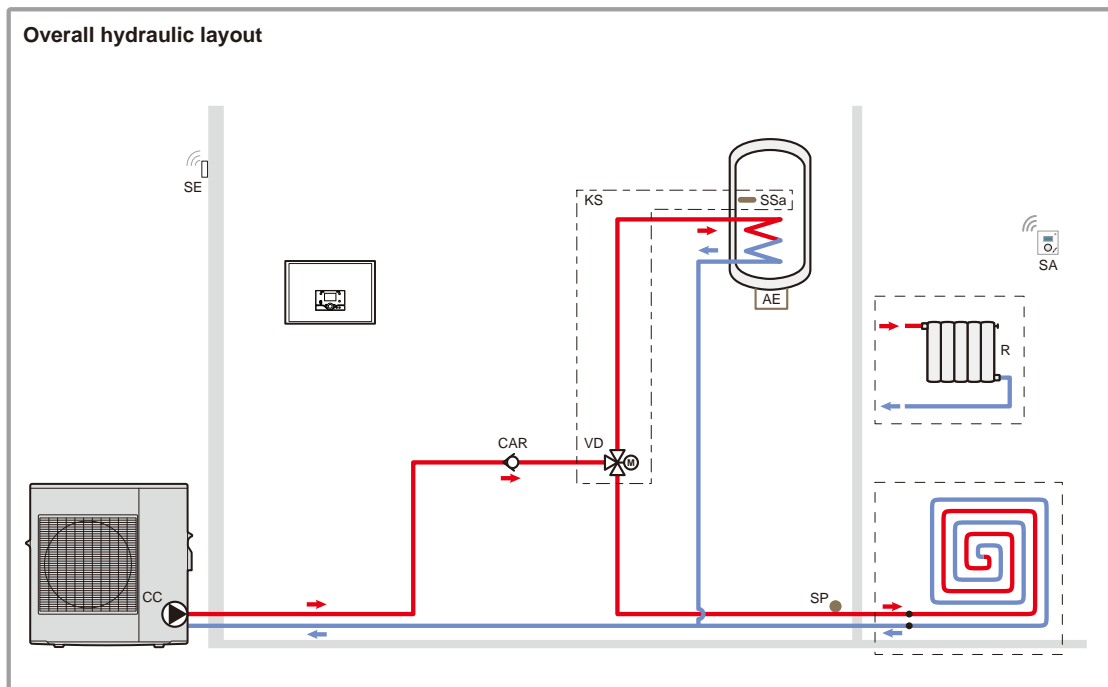
AE - Electric back-up
CC - Heating circulation pump
KS - DHW kit
MH - Indoor unit

R - Radiators
SA - Room thermostat or Room control unit (option)
SE - Outdoor sensor
SP - Heated floor thermal safety fuse

SSa - DHW sensor
VD - Distribution valve

- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
- 2- Inter-connection between the outdoor unit and the indoor unit.
- 3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
- 4- Outdoor sensor.
- 5- Room thermostat and/or remote controller.
- 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
- 7- Connect the directional valve to the heat pump's regulator.
- 8- Connect the domestic water sensor to the heat pump's regulator.
- 9- Connect the back-up resistance to the electric panel.
- 10- Connect the electrical power supply for the domestic water back-up to the electrical panel.
- 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

■ MONOBLOC TYPE (WP*A***L*)



Legend

CAR - Non-return valve
AE - Electric back-up
CC - Heating circulation pump
KS - DHW kit

R - Radiators (or fan convectors)
SA - Room thermostat (option)
SE - Outdoor sensor
SP - Heated floor thermal safety fuse

SSa - DHW sensor
VD - Distribution valve

1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)

2- Inter-connection between the outdoor unit and the indoor unit.

4- Outdoor sensor.

5- Room thermostat and/or remote controller.

6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.

7- Connect the directional valve to the heat pump's regulator.

8- Connect the domestic water sensor to the heat pump's regulator.

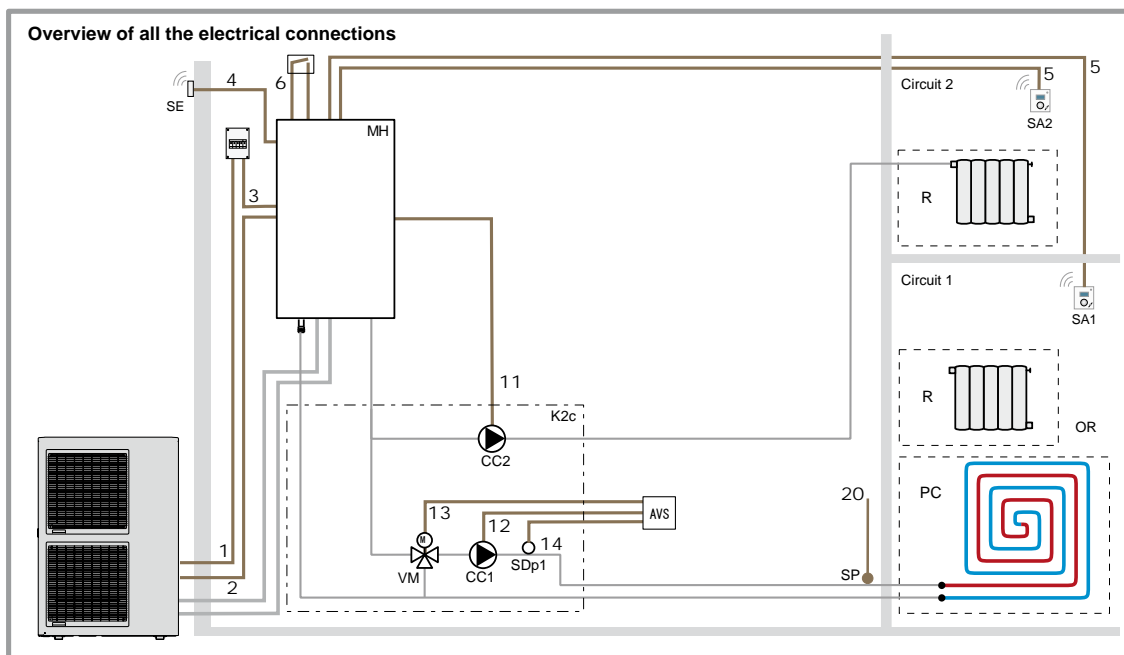
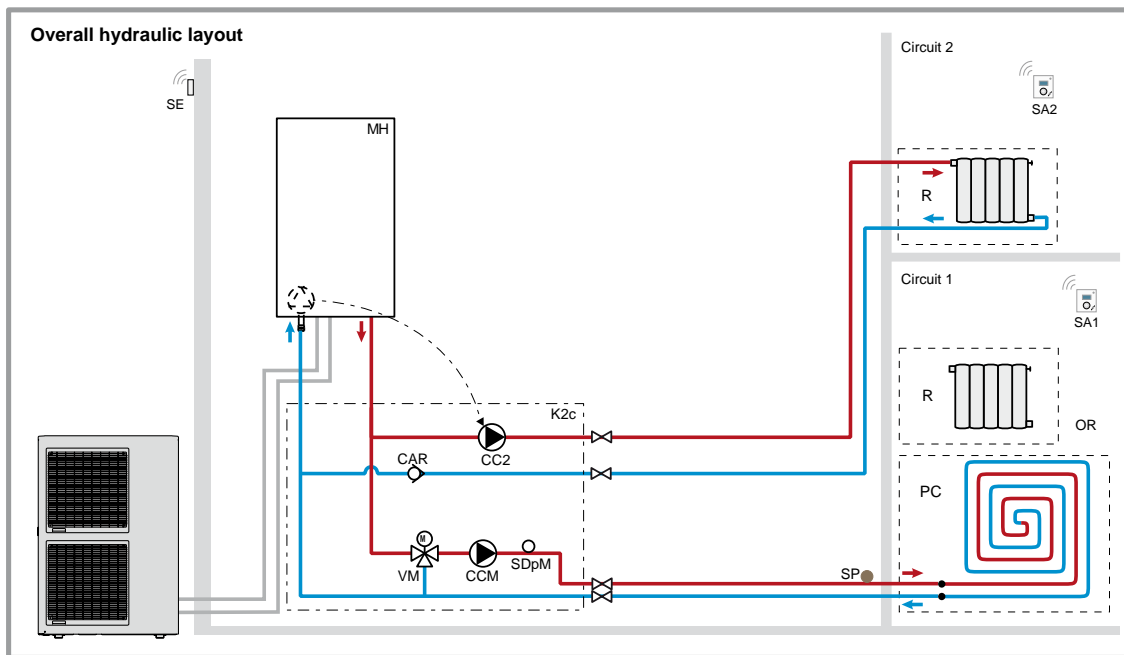
9- Connect the back-up resistance to the electric panel.

10- Connect the electrical power supply for the domestic water back-up to the electrical panel.

20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

2-3. 2-HEATING CIRCUITS

■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)



Legend

AVS - Regulation extension kit

CAR - Non-return valve

CC1 - Heating circulation pump, Circuit 1

CC2 - Heating circulation pump, Circuit 2

K2c - 2nd circuit kit

1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)

2- Inter-connection between the outdoor unit and the indoor unit.

3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.

4- Outdoor sensor.

5- Room thermostat and/or remote controller.

6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.

11- Circulation pump HC2

12- Connect the circulation pump HC1 to the regulation extension kit.

13- Connect the mixer valve to the regulation extension kit.

14- Connect the flow sensor circuit1 to the regulation extension kit.

20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

PC - Floor heating system

R - Radiators

SA1 - Room thermostat, Circuit CC1 (option)

SA2 - Room thermostat, Circuit CC2 (option)

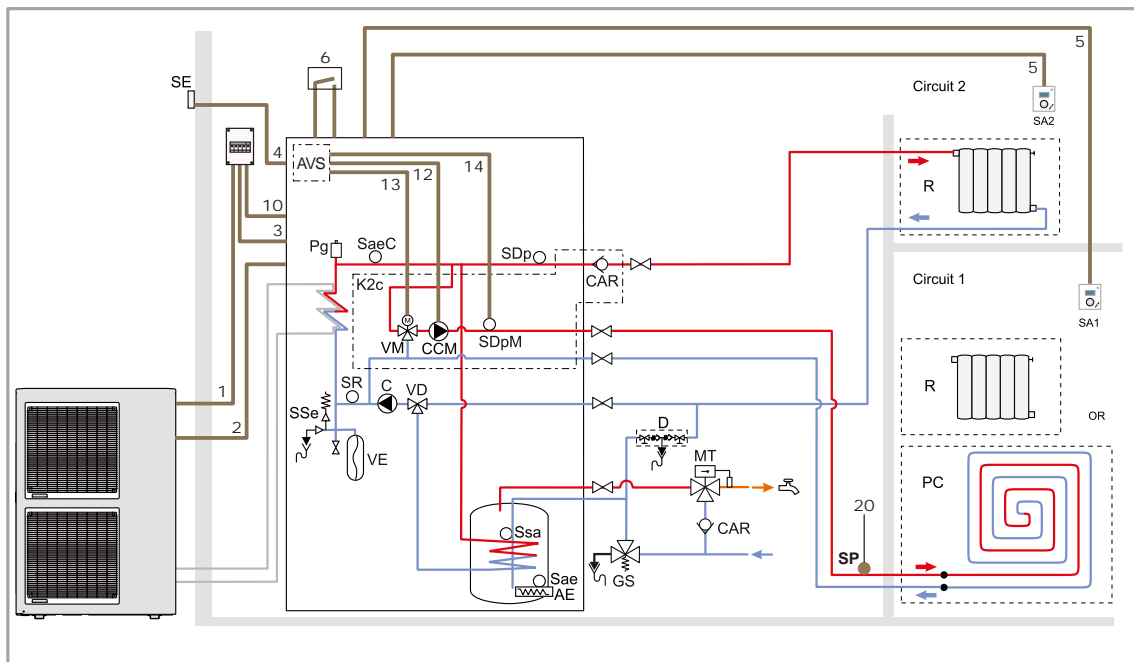
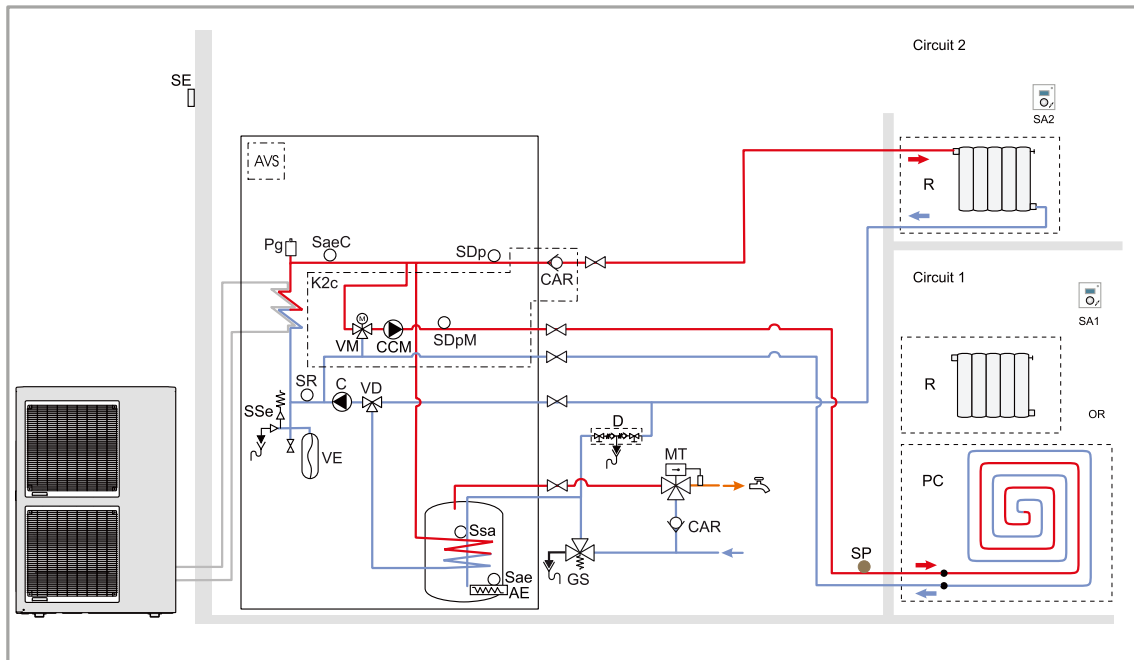
SDp1 - Flow sensor, Circuit 1

SE - Outdoor sensor

SP - Heated floor thermal safety fuse

VM - Mixer valve

■ SPLIT INTEGRATED DHW TYPE (WG*A***DD6, WG*G***DD6, WG*K***DD9)



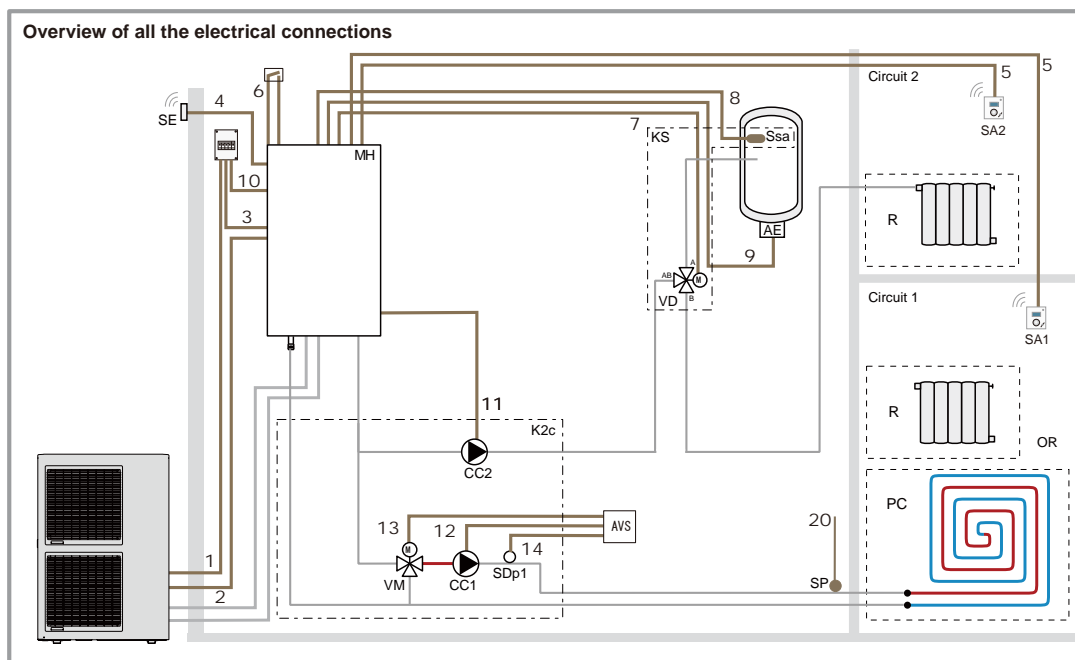
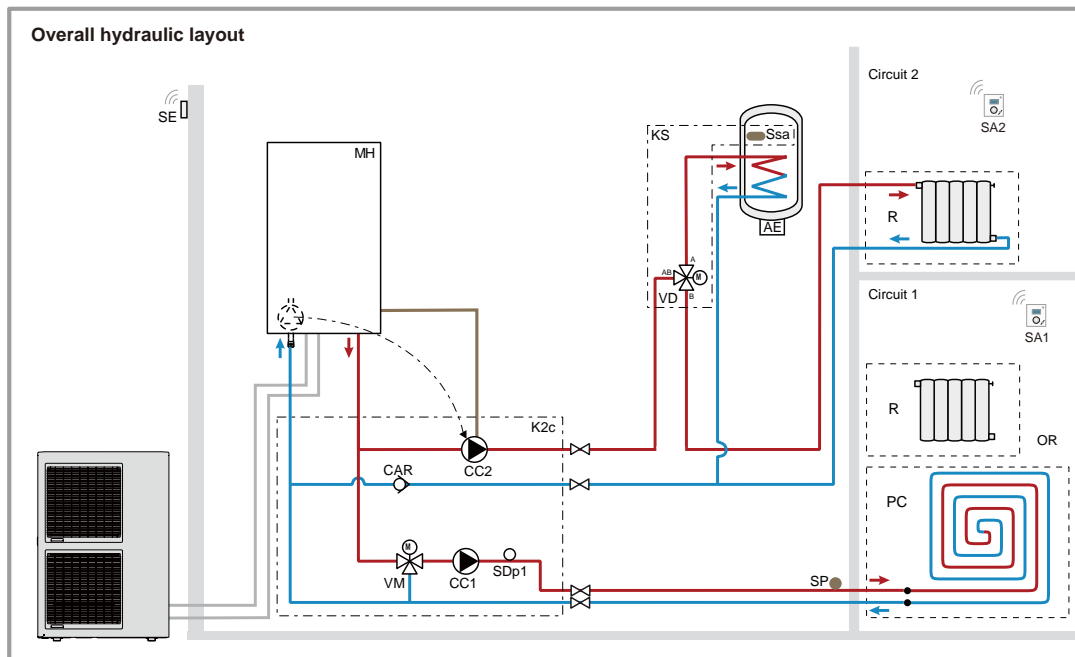
Legend

AE - Back-up DHW	K2c - 2nd circuit kit	Sae - Temperature safety of domestic electrical back-up	SR - Return sensor
AVS - Extension card, 2 circuits	MT - Thermostatic mixer valve	SaeC - Temperature safety (option heating back-up option)	Ssa - DHW sensor
CAR - Non-return valve	PC - Floor heating system	SDp - Flow sensor	Sse - Safety valve
C - Heating circulation pump	PG - Bleeder valve	SDpM - Mixed circuit output sensor	VD - Distribution valve
D - Shut-off	R - Radiators	SE - Outdoor sensor	VE - Expansion vessel
CCM - Mixed-circuit heat pump	SA1 - Room thermostat circuit 1 (Option)	SP - Heated floor thermal safety fuse	VM - Mixer valve
GS - Safety unit	SA2 - Room thermostat circuit 2 (Option)		

1- Power supply to the outdoor unit.(Electrical connections on the outdoor unit side)
 2- Inter connection between the outdoor unit and the indoor unit.
 3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
 4- Outdoor sensor.
 5- Room thermostat and/or remote controller.
 6- Contract with power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 10-Connect the electrical power supply for the domestic water back-up to the electric panel.
 12-Connect the circulation pump CCM to the regulation extension kit.
 13-Connect the mixer valve to the regulation extension kit.
 14-Connect the flow sensor circuit1 to the regulation extension kit.
 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

2-4. 2-HEATING CIRCUITS AND DHW TANK

■ SPLIT TYPE (WS*A**DD6, WS*G***DC6, WS*K***DC9)

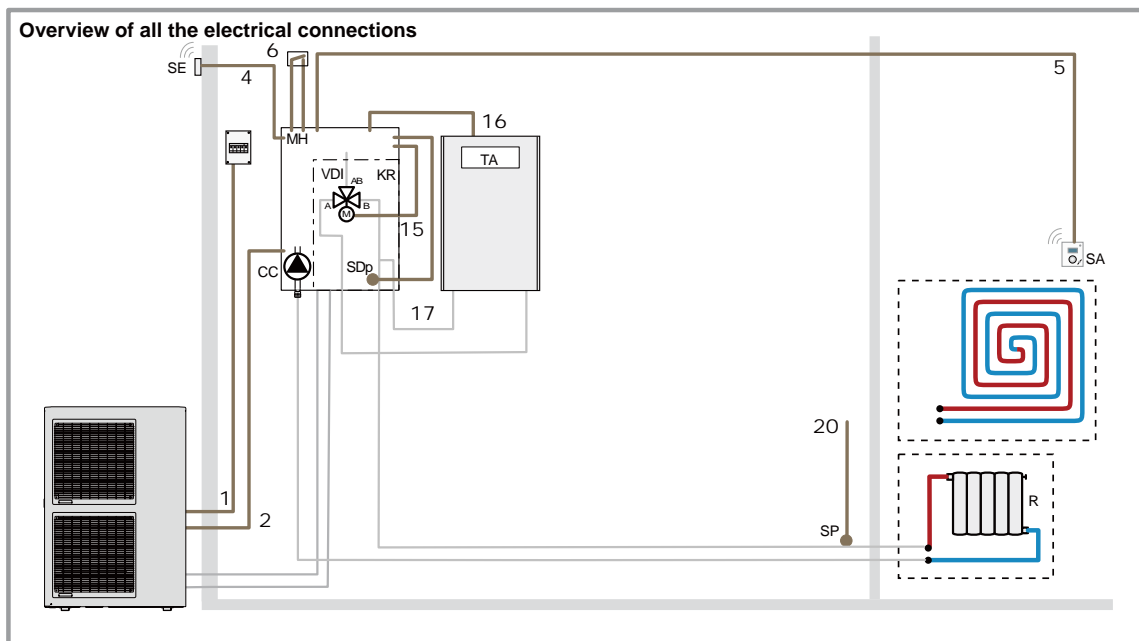
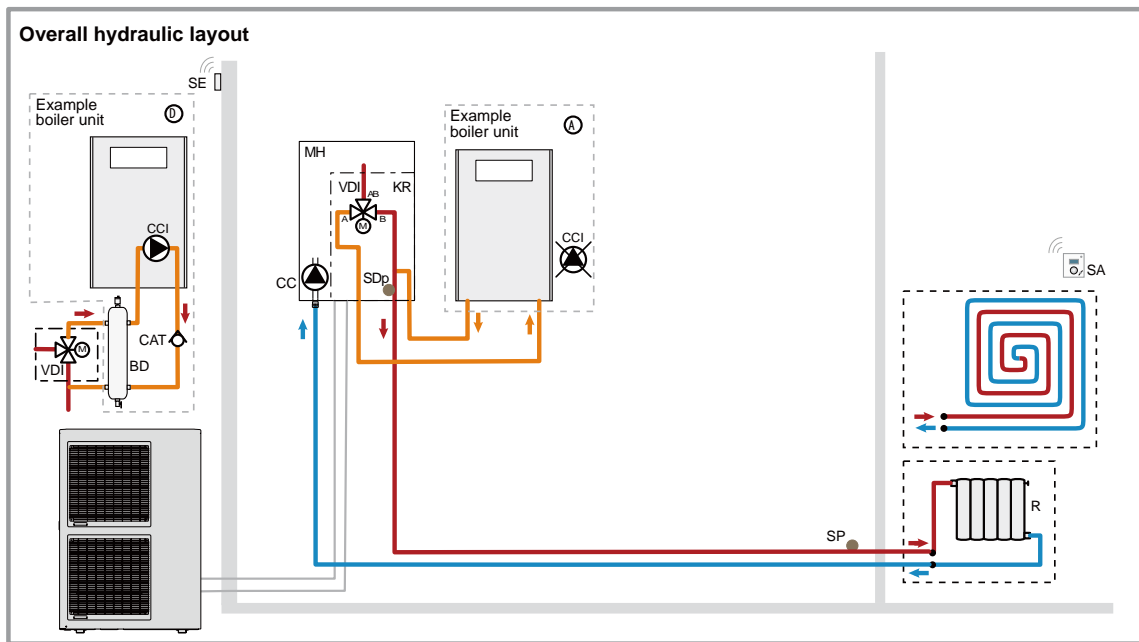


Legend

- | | | |
|--|--|--|
| AE - Electric back-up | KS - DHW kit | SSa - DHW sensor |
| AVS - Regulation extension kit | MH - Indoor unit | SE - Outdoor sensor |
| CAR - Non-return valve | PC - Floor heating system | TA - Boiler thermostat |
| CC1 - Heating circulation pump, Circuit 1 | R - Radiators | SP - Heated floor thermal safety fuse |
| CC2 - Heating circulation pump, Circuit 2 | SA1 - Room thermostat, Circuit 1 (option) | VD - Distribution valve |
| K2c - 2nd circuit kit | SA2 - Room thermostat, Circuit 2 (option) | VM - Mixer valve |
| KR - Boiler connection kit | SDp1 - Flow sensor, Circuit 1 | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 - 2- Inter-connection between the outdoor unit and the indoor unit.
 - 3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
 - 4- Outdoor sensor.
 - 5- Room thermostat and/or remote controller.
 - 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 - 7- Connect the directional valve to the heat pump's regulator.
 - 8- Connect the domestic water sensor to the heat pump's regulator.
 - 9- Connect the back-up resistance to the electric panel.
 - 10- Connect the electrical power supply for the domestic water back-up to the electrical panel.
 - 11- Circulation pump HC2
 - 12- Connect the circulation pump HC1 to the regulation extension kit.
 - 13- Connect the mixer valve to the regulation extension kit.
 - 14- Connect the flow sensor circuit1 to the regulation extension kit.
 - 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

2-5. BOILER CONNECTION AND 1-HEATING CIRCUIT

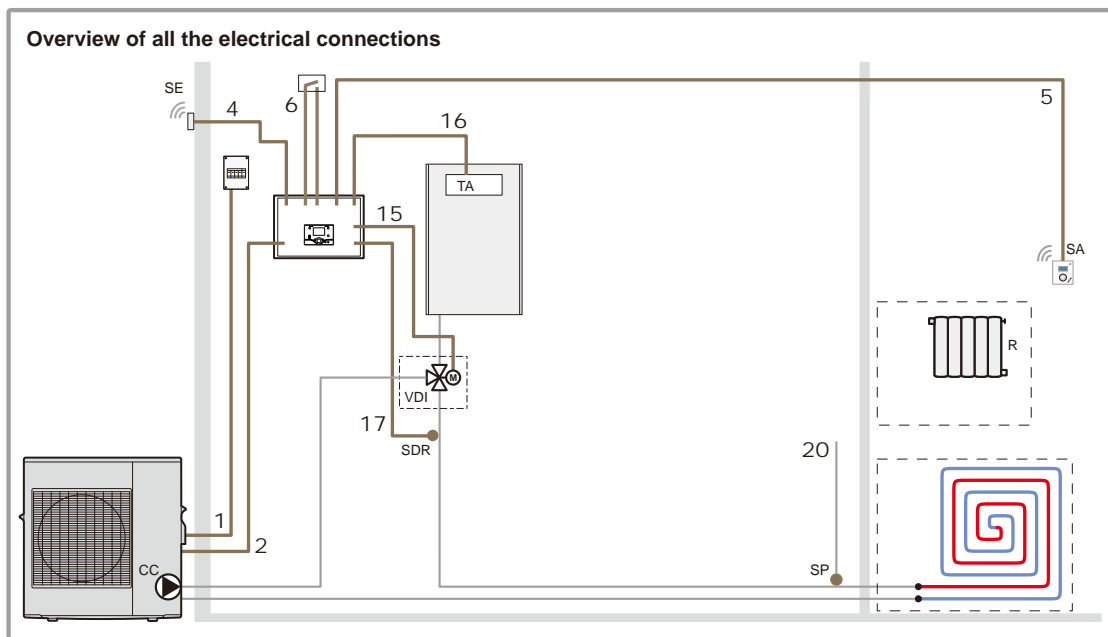
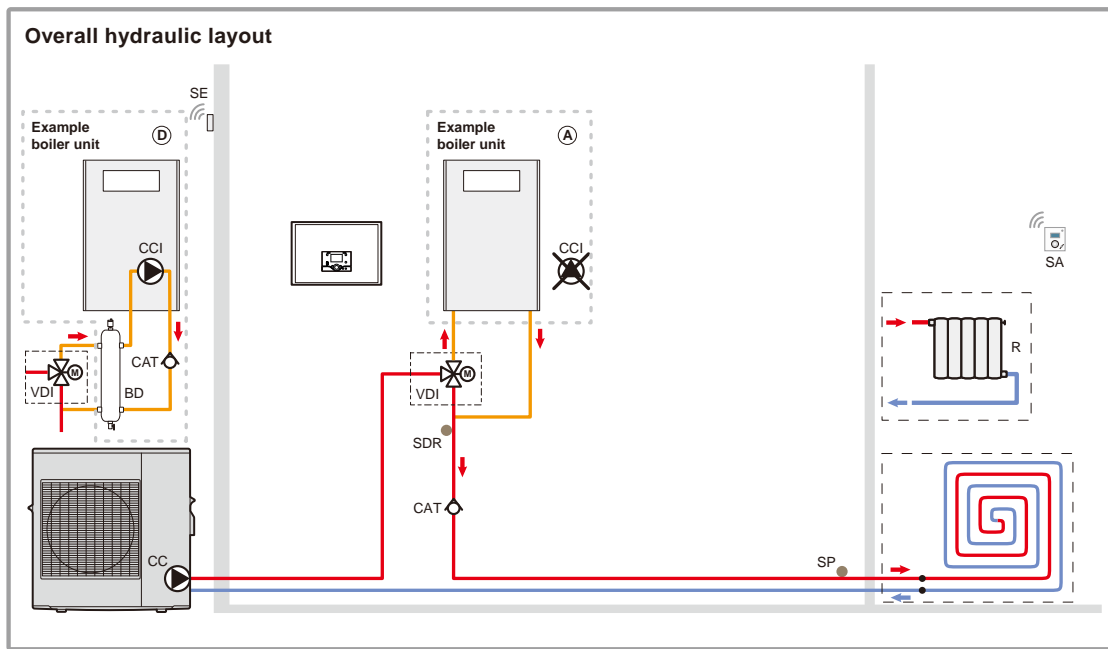
■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)



Legend

- | | | |
|--|--|--|
| BD - Disconnection bottle | MH - Indoor unit | SP - Heated floor thermal safety fuse |
| CAT - Anti-gravity feed valve | R - Radiators (or fan convectors) | TA - Boiler room thermostat terminals |
| CCI - Heating system circulation pump built into the boiler | SA - Room thermostat or Roomcontrol unit (option) | VDI - Distribution valve (deviation boiler) |
| CC - Heating circulation pump | SE - Outdoor sensor | |
| KR - Boiler connection kit | SDp - Flow sensor | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 2- Inter-connection between the outdoor unit and the indoor unit.
 4- Outdoor sensor.
 5- Room thermostat and/or remote controller.
 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 15- Connect the distribution valve to the heat pump's regulator.
 16- Connect the boiler control to the heat pump's regulator.
 17- Flow sensor ("connection" position).
 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

■ MONOBLOC TYPE (WP*A***L*)



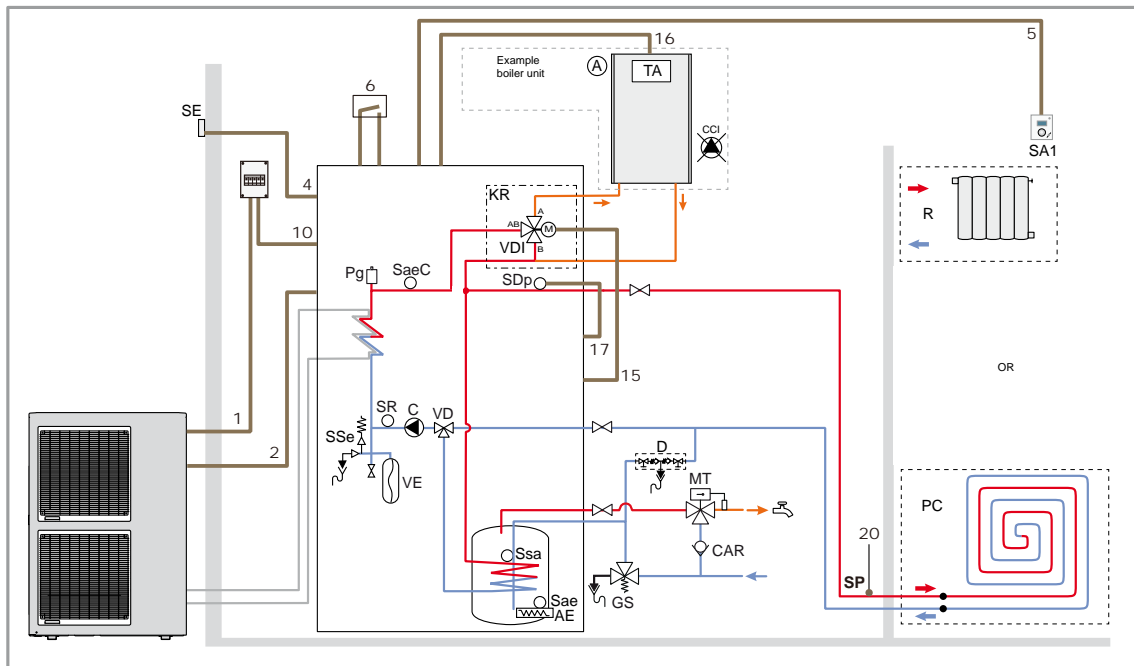
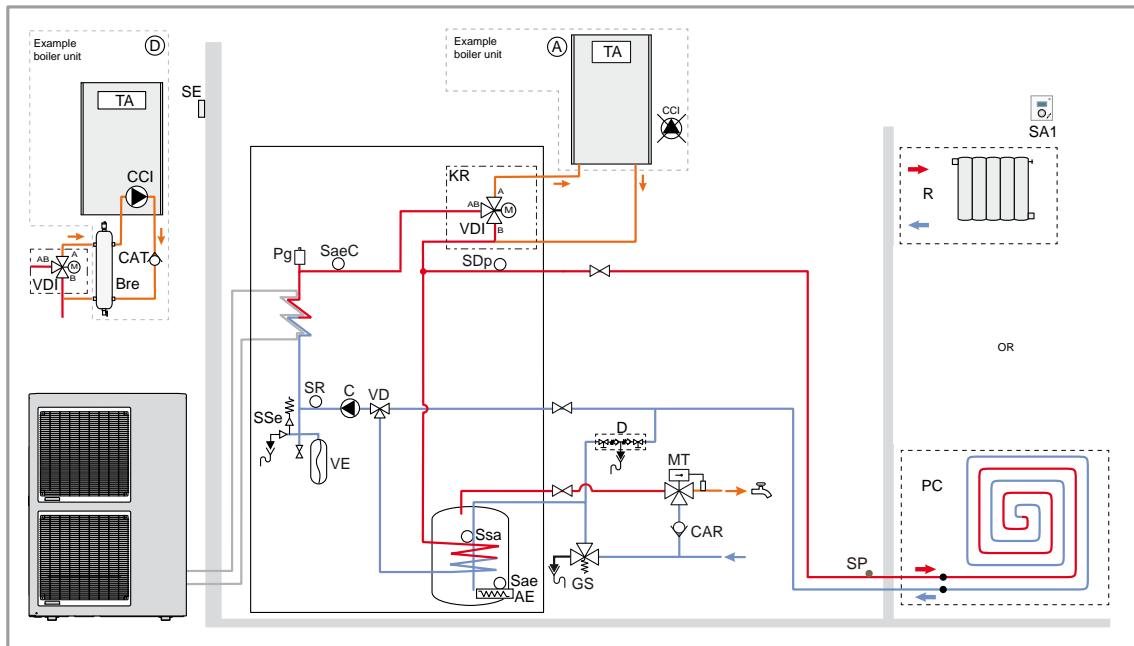
Legend

- | | | |
|--|--|--|
| BD - Disconnection bottle | SA - Room thermostat (option) | TA - Boiler room thermostat terminals |
| CAT - Anti-gravity feed valve | SE - Outdoor sensor | VDI - Distribution valve (deviation boiler) |
| CCI - Heating system circulation pump built into the boiler | SDR - Boiler connection valve flow sensor | |
| CC - Heating circulation pump | SP - Heated floor thermal safety fuse | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 - 2- Inter-connection between the outdoor unit and the indoor unit.
 - 4- Outdoor sensor.
 - 5- Room thermostat and/or remote controller.
 - 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 - 15- Connect the distribution valve to the electric panel.
 - 16- Connect the boiler control to the electric panel.
 - 17- Connect the boiler connection valve flow sensor to the heat pump's regulator.
 - 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

OPTIONAL PARTS

OPTIONAL PARTS

■ SPLIT INTEGRATED DHW TYPE (WG*A***DD6, WG*G***DD6, WG*K***DD9)



Legend

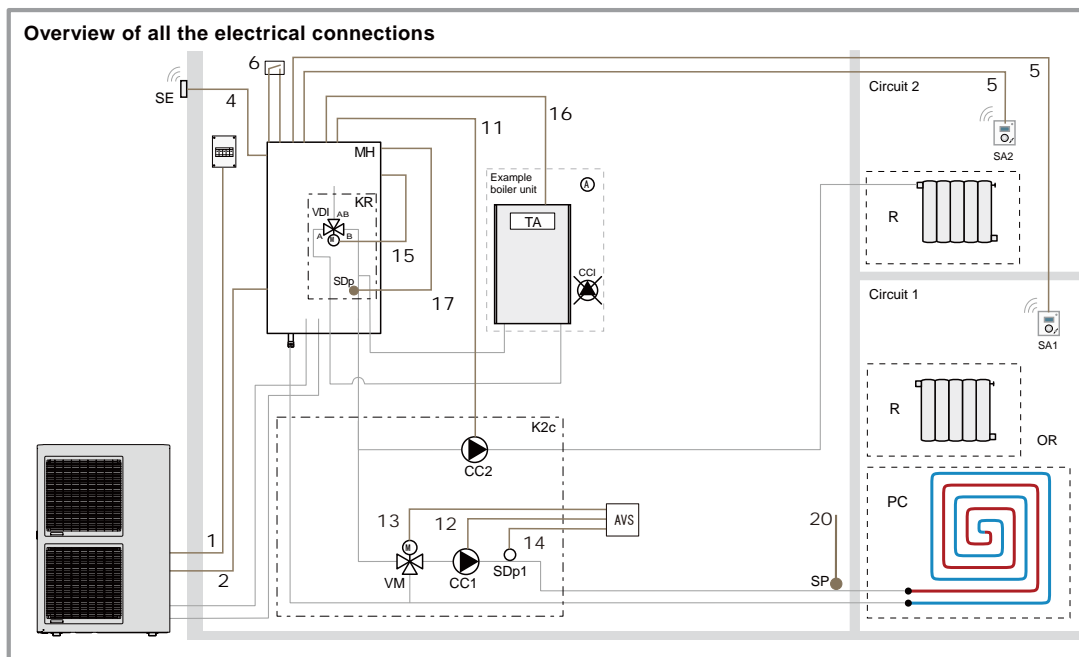
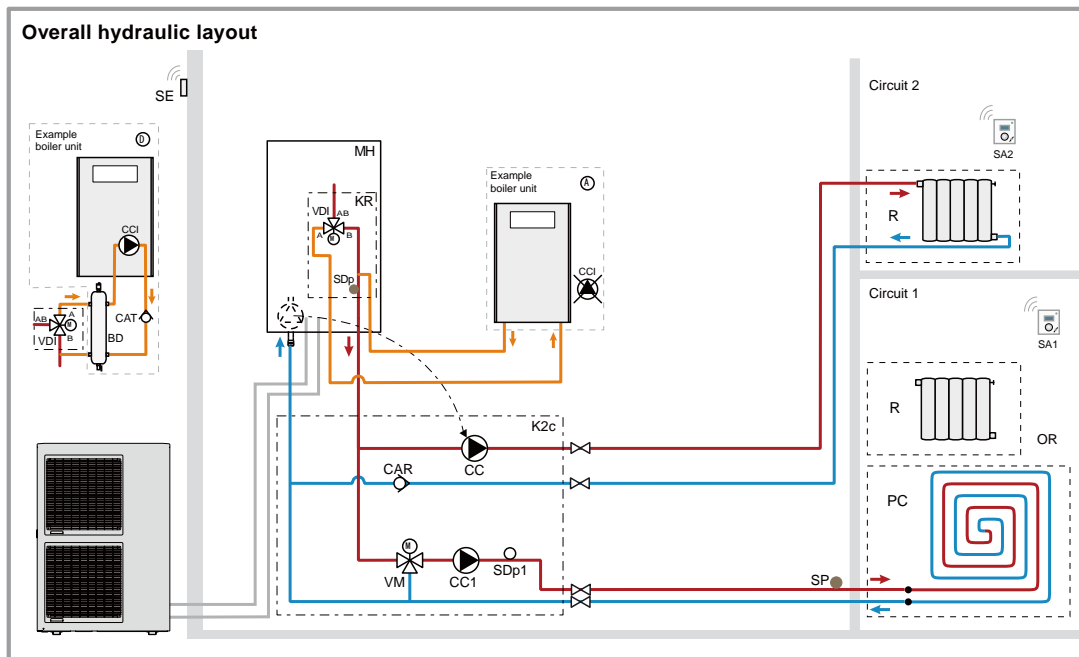
- | | | | |
|--|---|--|--|
| AE - Hot water electrical back-up | D - Shut-off | Sae - Temperature safety of domestic electrical back-up | Ssa - DHW sensor |
| BD - Disconnection bottle | GS - Safety unit | SaeC - Temperature safety (option heating back-up option) | TA - Boiler room thermostat terminals |
| C - Heating circulation pump | KR - Boiler connection kit | SDp - Flow sensor | VD - Distribution valve |
| CAR - Non-return valve | MT - Thermostatic mixer valve | SE - Outdoor sensor | VDI - Distribution valve (deviation boiler) |
| CAT - Anti-gravity feed valve | PC - Floor heating system | SP - Heated floor thermal safety fuse | VE - Expansion vessel |
| CCI - Heating system circulation pump built into the boiler | PG - Bleeder valve | SR - Return sensor | |
| CCM - Mixed-circuit heat pump | SA1 - Room thermostat circuit 1 (Option) | | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
- 2- Inter connection between the outdoor unit and the indoor unit.
- 4- Outdoor sensor.
- 5- Room thermostat and/or remote controller.
- 6- Contract with power provider: Connect the "Power Provider" contact to the heat pump's regulator.
- 10- Connect the electrical power supply for the domestic water back-up to the electric panel.
- 15- Connect the distribution valve to the heat pump's regulator.
- 16- Connect the boiler control to the heat pump's regulator.
- 17- Flow sensor ("connection" position).
- 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

OPTIONAL PARTS

OPTIONAL PARTS

2-6. BOILER CONNECTION AND 2-HEATING CIRCUITS

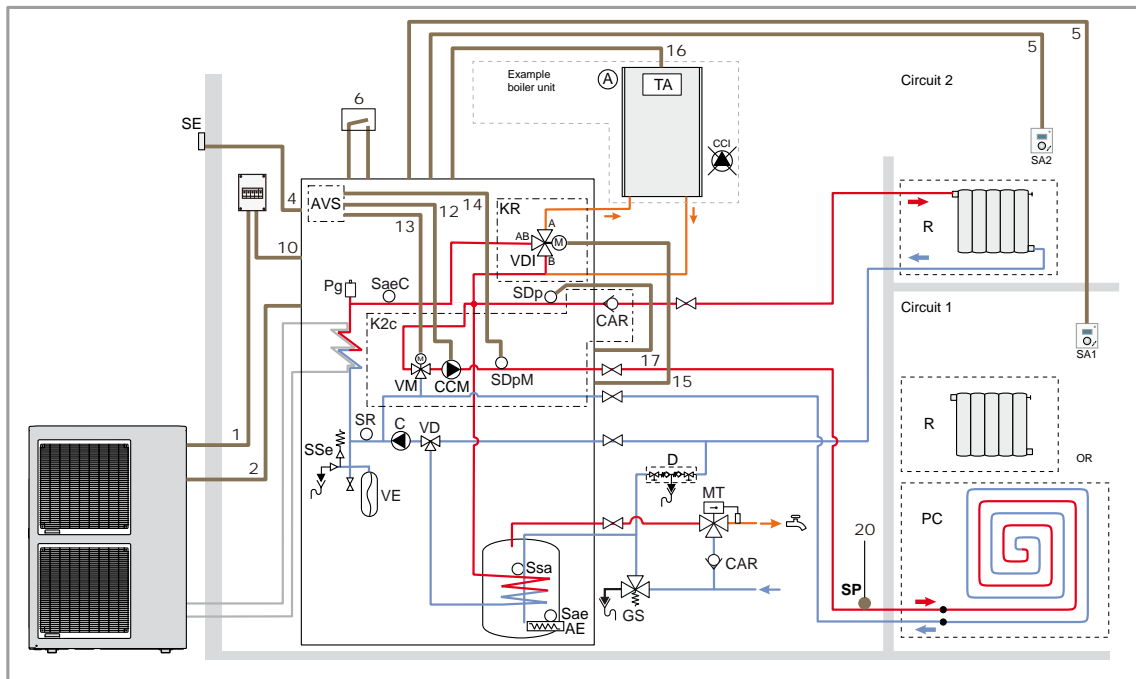
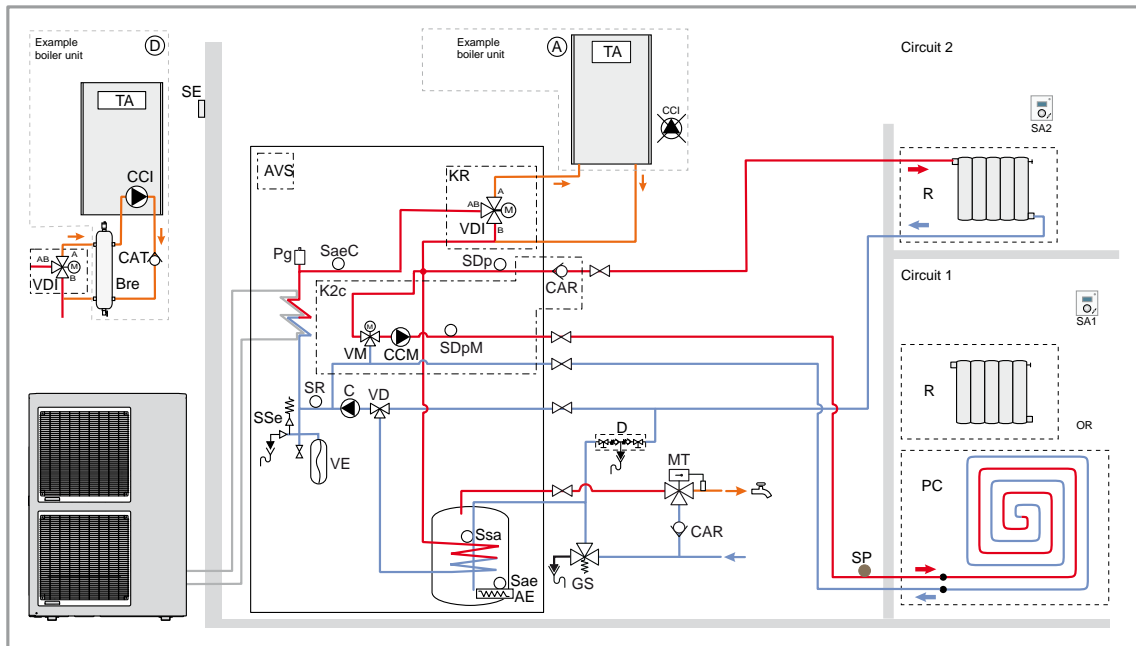
■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)



Legend

- | | | |
|--|---|--|
| AVS - Regulation extension kit | K2c - 2nd circuit kit | SDp1 - Flow sensor circuit 1 |
| BD - Disconnection bottle | KR - Boiler connection kit | SDp - Flow sensor |
| CAR - Non-return valve | MH - Indoor unit | SE - Outdoor sensor |
| CAT - Anti-gravity feed valve | PC - Floor heating system | TA - Boiler thermostat |
| CCI - Heating system circulation pump built into the boiler | R - Radiators | SP - Heated floor thermal safety fuse |
| CC1 - Heating circulation pump circuit 1 | SA1 - Room thermostat circuit 1 (option) | VDI - Distribution valve (deviation boiler) |
| CC2 - Heating circulation pump circuit 2 | SA2 - Room thermostat circuit 2 (option) | VM - Mixer valve |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 2- Inter-connection between the outdoor unit and the indoor unit.
 4- Outdoor sensor.
 5- Room thermostat and/or remote controller.
 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 11- Circulation pump HC2
 12- Connect the circulation pump HC1 to the regulation extension kit.
 13- Connect the mixer valve to the regulation extension kit.
 14- Connect the flow sensor circuit1 to the regulation extension kit.
 15- Connect the distribution valve to the heat pump's regulator.
 16- Connect the boiler control to the heat pump's regulator.
 17- Flow sensor("connection"position).
 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

■ SPLIT INTEGRATED DHW TYPE (WG*A***DD6, WG*G***DD6, WG*K***DD9)



OPTIONAL PARTS

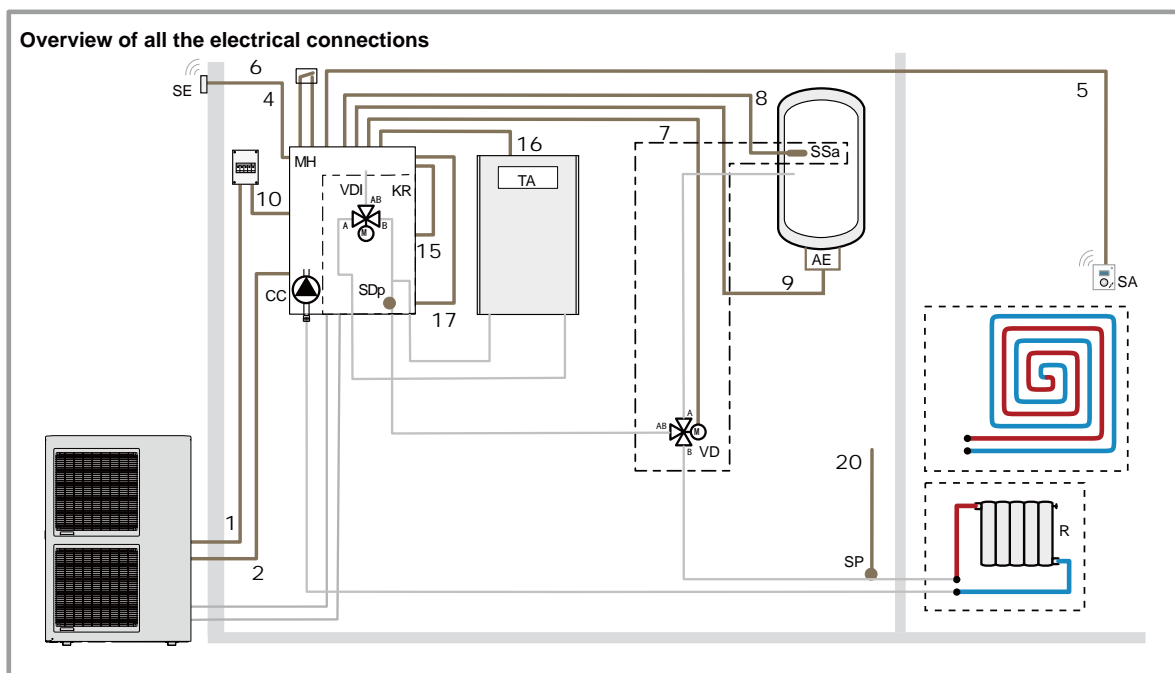
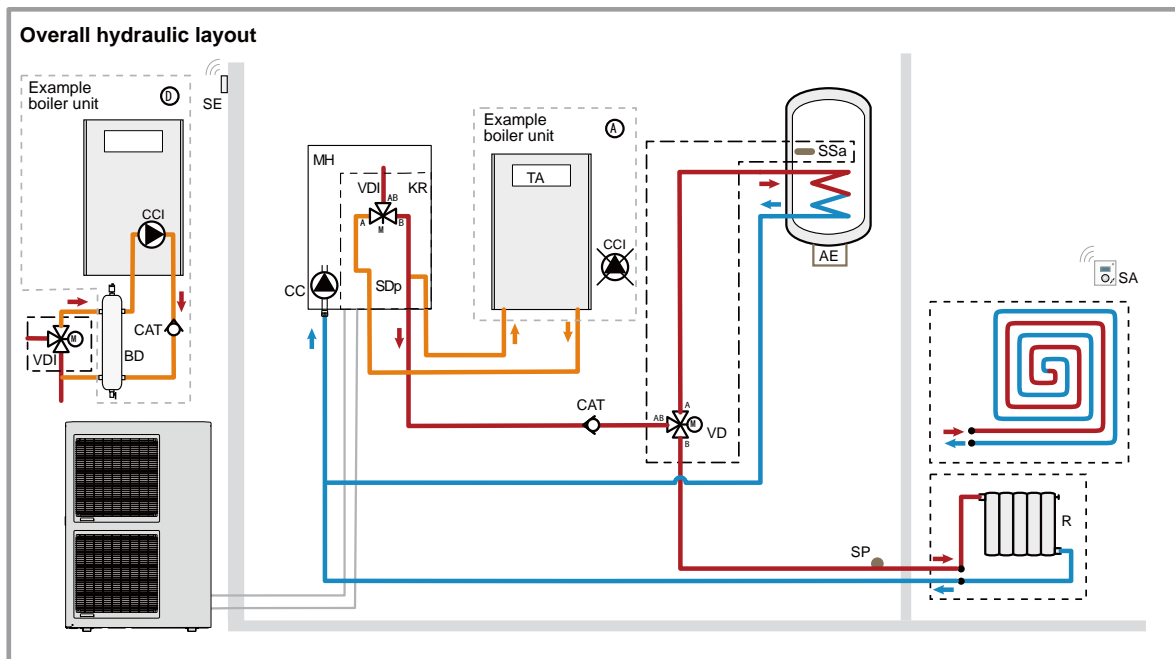
OPTIONAL PARTS

Legend

- | | | | |
|--|---|--|--|
| AE - Hot water electrical back-up | D - Shut-off | SA2 - Room thermostat circuit 2 (Option) | SR - Return sensor |
| AVS - Extension board, 2 circuits | GS - Safety unit | Sae - Temperature safety of domestic electrical back-up | Ssa - DHW sensor |
| BD - Disconnection bottle | K2c - 2nd circuit kit | SaeC - Temperature safety (option heating back-up option) | TA - Boiler room thermostat terminals |
| C - Heating circulation pump | KR - Boiler connection kit | SDp - Flow sensor | VD - Distribution valve |
| CAR - Non-return valve | MT - Thermostatic mixer valve | SDpM - Mixed-circuit initial sensor | VDI - Distribution valve (deviation boiler) |
| CAT - Anti-gravity feed valve | PC - Floor heating system | SE - Outdoor sensor | VE - Expansion vesse |
| CCI - Heating system circulation pump built into the boiler | R - Radiators | SP - Heated floor thermal safety fuse | VM - Mixer valve |
| CCM - Mixed-circuit heat pump | SA1 - Room thermostat circuit 1 (Option) | | |
- 1- Power supply to the outdoor unit.(Electrical connections on the outdoor unit side)
- 2- Inter connection between the outdoor unit and the indoor unit.
- 4- Outdoor sensor.
- 5- Room thermostat and/or remote controller.
- 6- Contract with power provider: Connect the "Power Provider" contact to the heat pump's regulator.
- 10-Connect the electrical power supply for the domestic water back-up to the electric panel.
- 12-Connect the circulation pump CCM to the regulation extension kit.
- 13-Connect the mixer valve to the regulation extension kit.
- 14-Connect the flow sensor circuit1 to the regulation extension kit.
- 15-Connect the distribution valve to the heat pump's regulator.
- 16-Connect the boiler control to the heat pump's regulator.
- 17-Flow sensor ("connection" position).
- 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

2-7. BOILER CONNECTION, 1-HEATING CIRCUIT AND DHW TANK

■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)

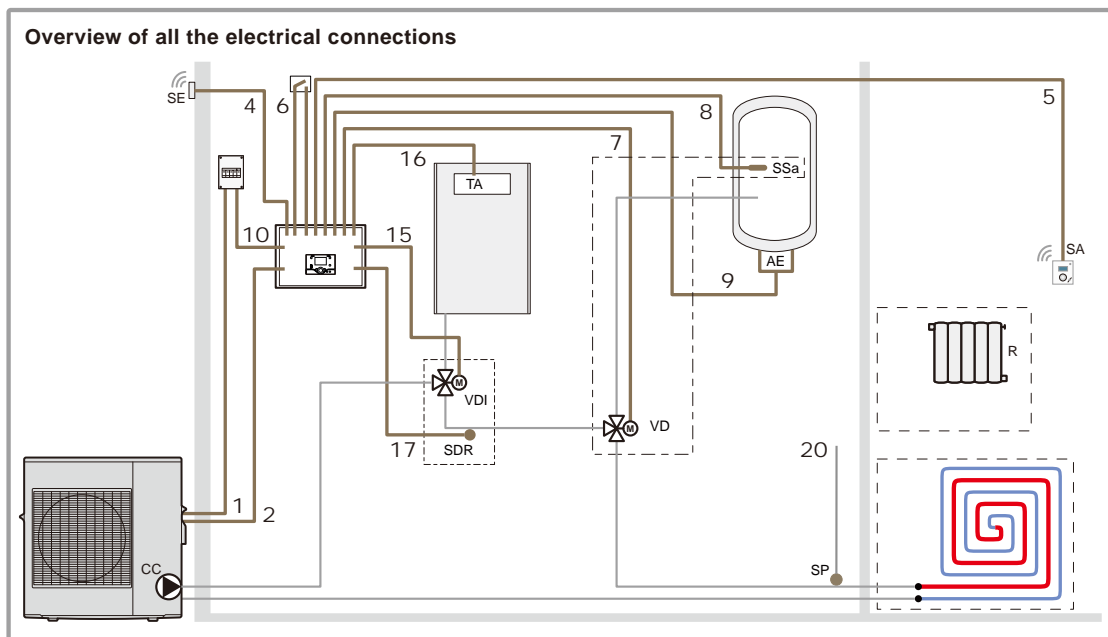
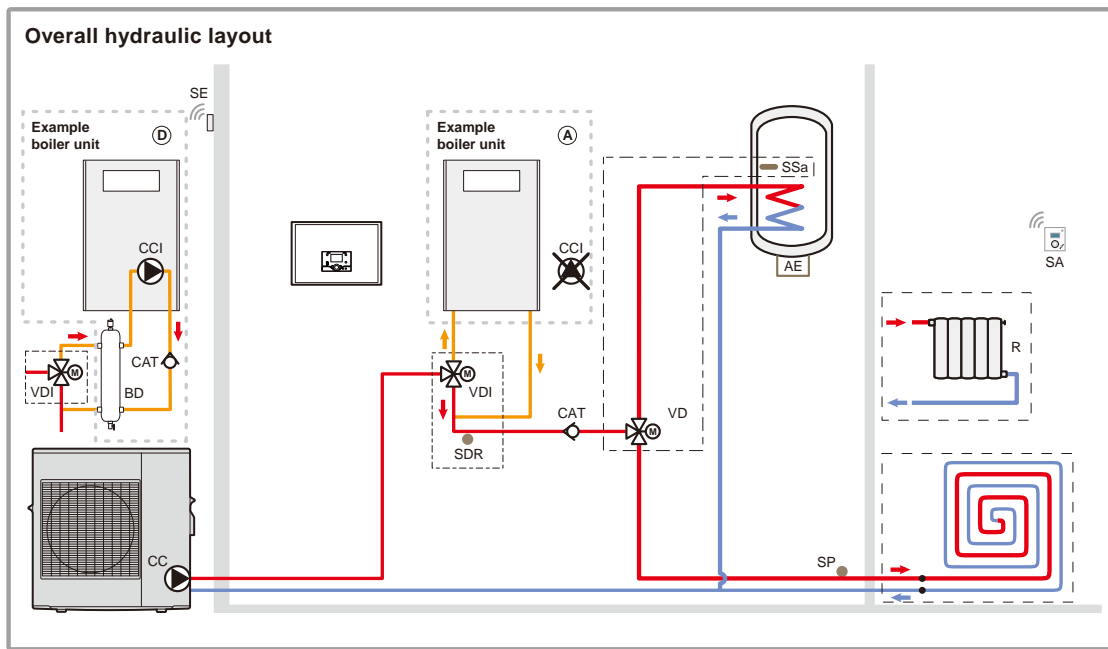


Legend

AE - Electric back-up	MH - Indoor unit	SSa - DHW sensor
BD - Disconnection bottle	R - Radiators (or fan convectors)	SP - Heated floor thermal safety fuse
CAT - Anti-gravity feed valve	SA - Room thermostat or Room control unit (option)	TA - Boiler room thermostat terminals
CCI - Heating system circulation pump built into the boiler	SE - Outdoor sensor	VD - Distribution valve
CC - Heating circulation pump	SDp - Flow sensor	VDI - Distribution valve (deviation boiler)
KR - Boiler connection kit		

- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
- 2- Inter-connection between the outdoor unit and the indoor unit.
- 4- Outdoor sensor.
- 5- Room thermostat and/or remote controller.
- 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
- 7- Connect the directional valve to the heat pump's regulator.
- 8- Connect the domestic water sensor to the heat pump's regulator.
- 9- Connect the back-up resistance to the electric panel.
- 10- Connect the electrical power supply for the domestic water back-up to the electrical panel.
- 15- Connect the distribution valve to the heat pump's regulator.
- 16- Connect the boiler control to the heat pump's regulator.
- 17- Flow sensor ("connection" position).
- 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

■ MONOBLOC TYPE (WP*A***L*)

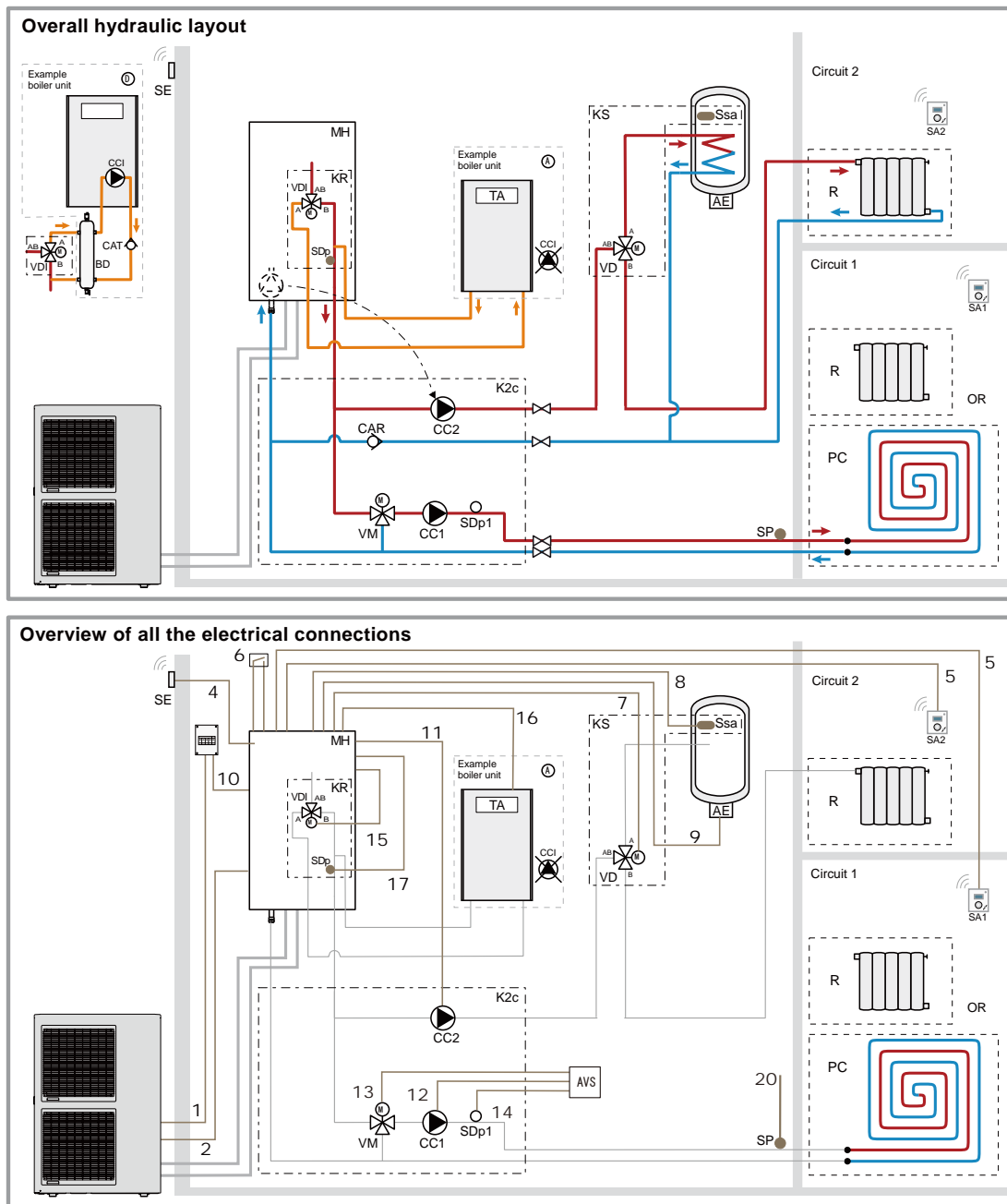


Legend

- | | | |
|--|--|--|
| AE - Electric back-up | SA - Room thermostat (option) | TA - Boiler room thermostat terminals |
| BD - Disconnection bottle | SE - Outdoor sensor | VD - Distribution valve |
| CAT - Anti-gravity feed valve | SDR - Boiler connection valve flow sensor | VDI - Distribution valve (deviation boiler) |
| CCI - Heating system circulation pump built into the boiler | SSa - DHW sensor | |
| CC - Heating circulation pump | SP - Heated floor thermal safety fuse | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 - 2- Inter-connection between the outdoor unit and the indoor unit.
 - 4- Outdoor sensor.
 - 5- Room thermostat and/or remote controller.
 - 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 - 7- Connect the directional valve to the heat pump's regulator.
 - 8- Connect the domestic water sensor to the heat pump's regulator.
 - 9- Connect the back-up resistance to the electric panel.
 - 10- Connect the electrical power supply for the domestic water back-up to the electrical panel.
 - 15- Connect the distribution valve to the electric panel.
 - 16- Connect the boiler control to the electric panel.
 - 17- Connect the boiler connection valve flow sensor to the heat pump's regulator.
 - 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.

2-8. BOILER CONNECTION, 2-HEATING CIRCUITS AND DHW TANK

■ SPLIT TYPE (WS*A***DD6, WS*G***DC6, WS*K***DC9)



Legend

- | | | |
|---|---|--|
| AE - Electric back-up | MH - Indoor unit | SE - Outdoor sensor |
| AVS - Regulation extension kit | PC - Floor heating system | SP - Heated floor thermal safety fuse |
| CAR - Non-return valve | R - Radiators | TA - Boiler thermostat |
| CC1 - Heating circulation pump circuit 1 | SA1 - Room thermostat circuit 1 (option) | VD - Distribution valve |
| CC2 - Heating circulation pump circuit 2 | SA2 - Room thermostat circuit 2 (option) | VDI - Distribution valve (deviation boiler) |
| K2c - 2nd circuit kit | SDp1 - Flow circuit1 | VM - Mixer valve |
| KR - Boiler connection kit | SDp - Flow sensor | |
| KS - DHW kit | SSa - DHW sensor | |
- 1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
 2- Inter-connection between the outdoor unit and the indoor unit.
 4- Outdoor sensor.
 5- Room thermostat and/or remote controller.
 6- Contract with the power provider: Connect the "Power Provider" contact to the heat pump's regulator.
 7- Connect the directional valve to the heat pump's regulator.
 8- Connect the domestic water sensor to the heat pump's regulator.
 9- Connect the back-up resistance to the electric panel.
 10- Connect the electrical power supply for the domestic water back-up to the electrical panel.
 11- Circulation pump HC2
 12- Connect the circulation pump HC1 to the regulation extension kit.
 13- Connect the mixer valve to the regulation extension kit.
 14- Connect the flow sensor circuit1 to the regulation extension kit.
 15- Connect the distribution valve to the heat pump's regulator.
 16- Connect the boiler control to the heat pump's regulator.
 17- Flow sensor("connection" position).
 20- The installer is responsible for connecting the heated floor's safety system. Thermal safety will stop the heat pump if the temperature in the floor is too high.