Refrigerant R410A INVERTER

WATERSTAGE™

OPTIONAL PARTS

DTW_OPT001E_12
2015.10.05

CONTENTS

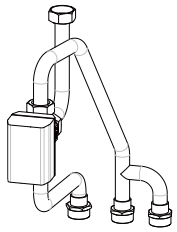
OPTIONAL PARTS

OPTIONAL PARTS

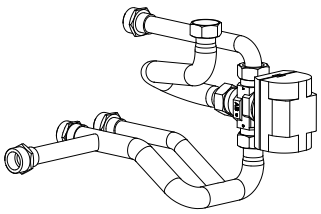
1. OPTIONAL PARTS LIST

1-1. LIST

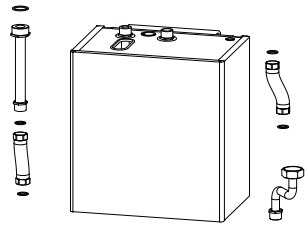
Boiler connection kit
Model: UTW-KBSXD



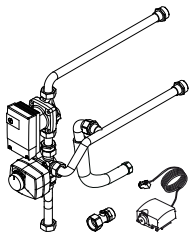
Boiler connection kit
Model: UTW-KBDXD



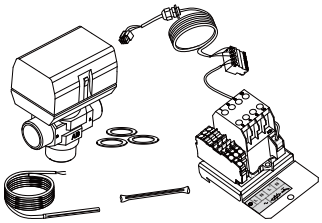
2nd circuit kit
Model: UTW-KZSXD
UTW-KZSXE



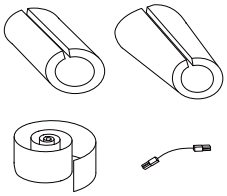
2nd circuit kit
Model: UTW-KZDXD
UTW-KZDXE



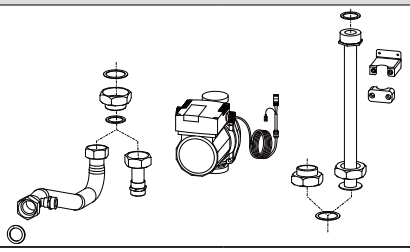
DHW kit
Model: UTW-KDWXD



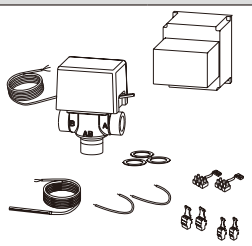
Cooling kit
Model: UTW-KCLXD



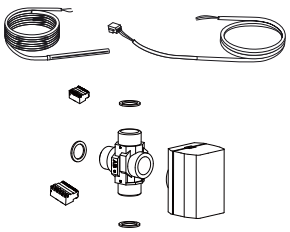
Circulating pump
Model: UTW-PHFXD



Swimming pool kit
Model: UTW-KSPXA



Swimming pool kit
Model: UTW-KSPXD



Heat exchanger for Swimming pool
Model: UTW-ESPXA

OPTIONAL PARTS

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Room thermostat
Model: UTW-C55XA

Room thermostat (Wireless)
Model: UTW-C58XD

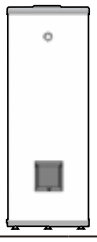
Remote control
Model: UTW-C75XA, UTW-C75XA-E

Remote control (Wireless)
Model: UTW-C78XD, UTW-C78XD-E

Graphical remote control
Model: UTW-C74TXF, UTW-C74HXF

DHW Tank
Model: UTW-T20XA, UTW-T30XA

DHW Tank
Model: UTW-T30XD

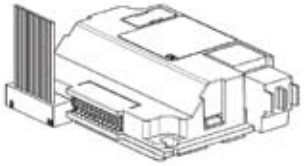


Outdoor sensor transmitter
Model: UTW-MOSXD

RF module
Model: UTW-M60XD, UTW-MRCXD

Balancing vessel
Model: UTW-TEVXA

LPB clip
Model: UTW-KL1XD



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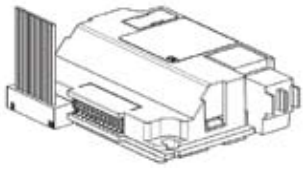
Modbus clip
Model: UTW-KMBXE

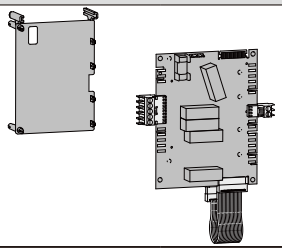


Web server
Model: UTW-KWSXD, UTW-KW1XD, UTW-KW4XD

UTW-KWSXD

UTW-KW1XD
UTW-KW4XD

Regulation extension kit
Model: UTW-KREXD



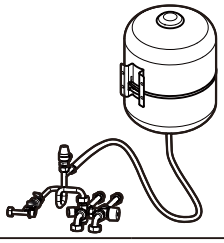
Mode exchange kit
Model: UTW-KMEXE

Service tool (incl. OCI700 adaptor)
Model: UTW-KSTXD

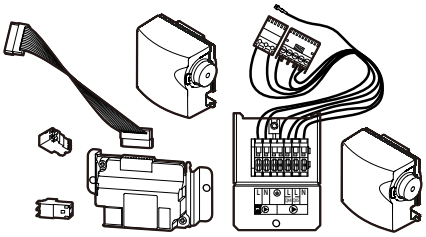
Service tool software
Model: UTW-KPSXD

CD-ROM
(Software)

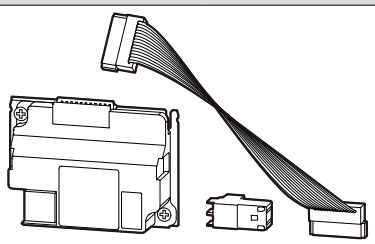
DHW expansion vessel kit
Model: UTW-KDEXE



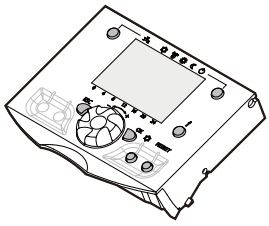
Cascade master kit (incl. LPB clip)
Model: UTW-KCMXE



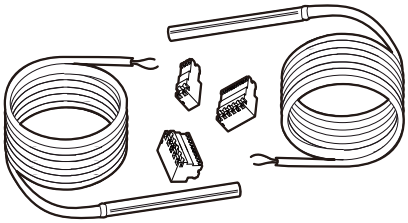
Cascade slave kit (incl. LPB clip)
Model: UTW-KCSXE



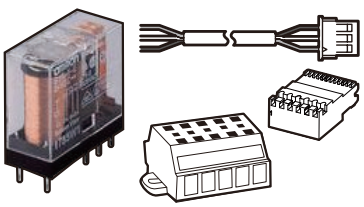
HMI kit
Model: UTW-KHMXE



Solar regulation kit
Model: UTW-KSRXE



Low noise kit
Model: UTW-KLNXE



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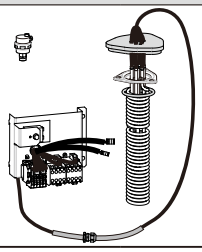
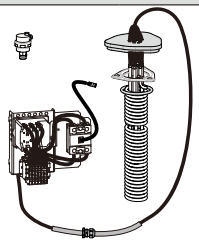
Back-up heater

Model: UTW-HS6XG



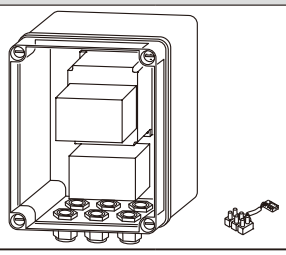
Back-up heater

Model: UTW-HT9XG



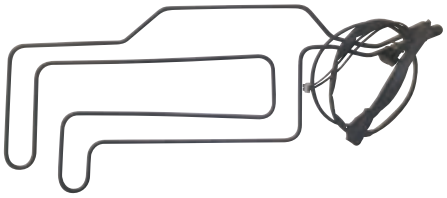
Zone control kit

Model: UTW-KZMXG



Base heater

Model: UTW-HAMXE



Base heater

Model: UTW-HAMXF

External connect kit

Model: UTY-XWZXZ2

INPUT
OUTPUT

Drain pan

Model: UTW-KDPXA

OPTIONAL PARTS

1-2. CONNECTION LIST

●: Available, —: Not available

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	
			050DG 050DG6 050DD6	140DG 140DG6 140DC6	140DG 160DG 160DG9 160DC9	080LA	050LG 050LE	080LG 080LF 080LE	050DG 050DG6 050DD6	140DG 140DG6 140DC6	160DG 160DG9 160DC9
			100DG 100DG6 100DD6			100LA		100LG 100LF 100LE	100DG 100DG6 100DD6		
HYDRAULIC UNIT	Boiler connection kit	UTW-KBSXD	●	●	●	—	—	—	—	—	—
		UTW-KBDXD	—	—	—	—	—	—	●	●	●
	2nd circuit kit	UTW-KZSXD UTW-KZSXE	●	●	●	—	—	—	—	—	—
		UTW-KZDXD UTW-KZDXE	—	—	—	—	—	—	●	●	●
	DHW kit	UTW-KDWXF	—	—	—	● *1	● *1	● *1	—	—	—
		UTW-KDWXA	—	—	—	● *2	● *2	● *2	—	—	—
		UTW-KDWXD	●	●	●	—	—	—	—	—	—
	Cooling kit	UTW-KCLXD	●	●	●	—	—	—	●	●	●
	Circulating pump	UTW-PHFXD	—	●	●	—	—	—	—	●	●
	Swimming pool kit	UTW-KSPXA	—	—	—	● *2	● *2	● *2	—	—	—
		UTW-KSPXD	●	●	●	● *1	● *1	● *1	●	●	●
	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	●	●	●	●	●	●	●	●	●
	Graphical remote control	UTW-C74TXF UTW-C74HXF	●	●	●	● *1	● *1	● *1	●	●	●
	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	●	●	●	● *1	● *1	● *1	●	●	●
	Modbus clip	UTW-KMBXE	●	●	●	● *1	● *1	● *1	●	●	●

*1 : Only connectable to Hydraulic Unit WSYP100DF6.
*2 : Only connectable to Control Box UTW-SCBYA

OPTIONAL PARTS

●: Available, —: Not available

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	
			050DG 050DG6 050DD6	140DG 140DG6 140DC6	140DG 160DG 160DG9 160DC9	080LA	050LE	080LE 080LF	050DG 050DG6 050DD6	140DG 140DG6 140DC6	160DG 160DG9 160DC9
			100DG 100DG6 100DD6			100LA		100LE 100LF	100DG 100DG6 100DD6		
HYDRAULIC UNIT	Web server	UTW-KWSXD	●	●	●	●	●	●	●	●	●
		UTW-KW1XD	●	●	●	●	●	●	●	●	●
		UTW-KW4XD	●	●	●	●	●	●	●	●	●
	Regulation extension kit	UTW-KREXD	●	●	●	● *1	● *1	● *1	●	●	●
	Mode exchange kit	UTW-KMEXE	●	●	●	●	●	●	●	●	●
	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	●	●	●	● *1	● *1	● *1	●	●	●
	Solar regulation kit	UTW-KSRXE	●	●	●	● *1	● *1	● *1	—	—	—
	Back-up heater	UTW-HS6XG	● *3	● *3	—	—	—	—	● *3	● *3	—
		UTW-HT9XG	—	—	● *4	—	—	—	—	—	● *4
	Zone control kit	UTW-KZMXG	—	—	—	● *2	● *2	● *2	—	—	—

*1 : Only connectable to Hydraulic Unit WS✱P100DF6.
*2 : Only connectable to Control Box UTW-SCBYA
*3 : Only connectable to Hydraulic Unit 050DG, 100DG, 140DG.
*4 : Only connectable to Hydraulic Unit 140DG, 160DG.

OPTIONAL PARTS

●: Available, —: Not available

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	
			060LFCA 060LDC	112LCTA 112LCT	112LCTA 112LCT	080LA	050LE	080LE 080LF	060LFCA 060LDC	112LCTA 112LCT	112LCTA 112LCT
			080LFCA 080LDC	140LCTA 140LCT	140LCTA 140LCT	100LA		100LE 100LF	080LFCA 080LDC	140LCTA 140LCT	140LCTA 140LCT
			100LFTA 100LDT		160LCTA 160LCT				100LFTA 100LDT		160LCTA 160LCT
OUTDOOR UNIT	Base heater	UTW-HAMXE	—	—	—	●	—	●	—	—	—
		UTW-HAMXF	—	—	—	—	●	—	—	—	—
	External connect kit	UTY-XWZXZ2	—	●	●	—	—	—	—	●	●
	Low noise kit	UTW-KLNXE	—	●	●	—	—	—	—	●	●
	Drain pan	UTW-KDPXA	● *	—	—	—	—	—	—	—	—

* : For 060LFCA, 060LDC, 080LFCA, 080LDC.

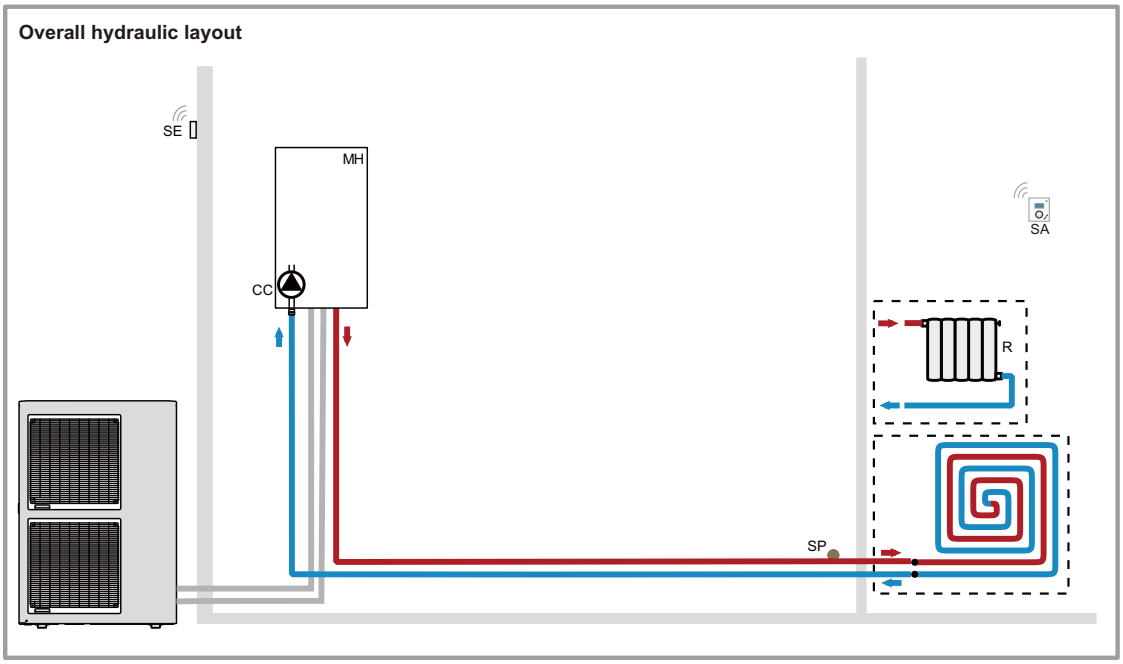
OPTIONAL PARTS

2. CONNECTION CONFIGURATION EXAMPLE

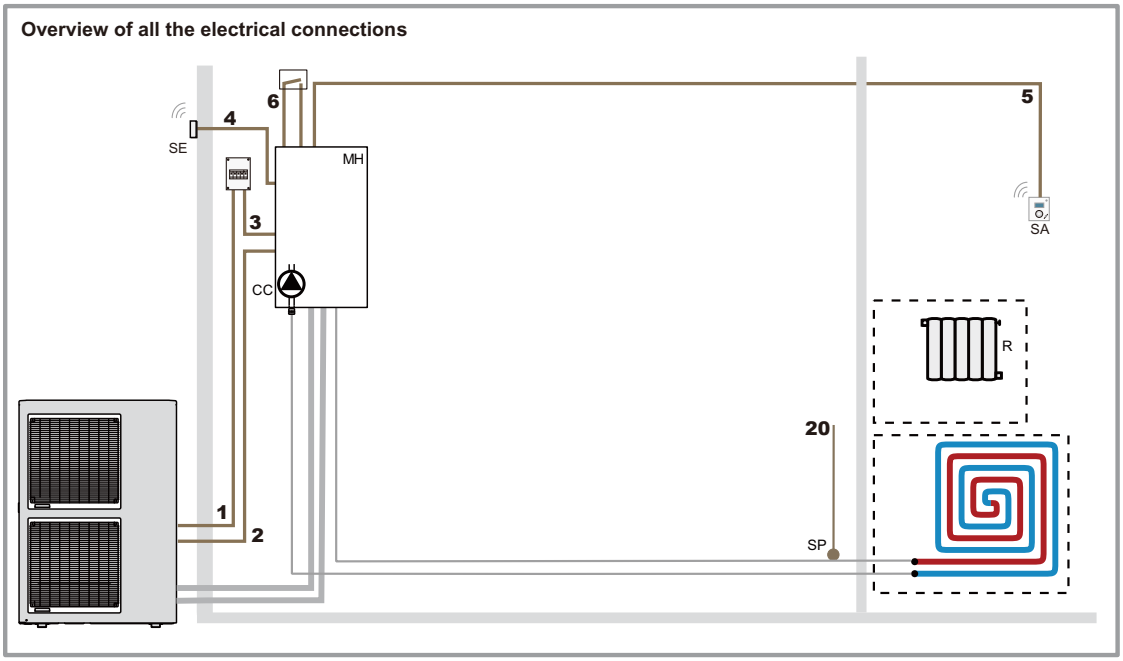
2-1. 1-HEATING CIRCUIT

■ SPLIT TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

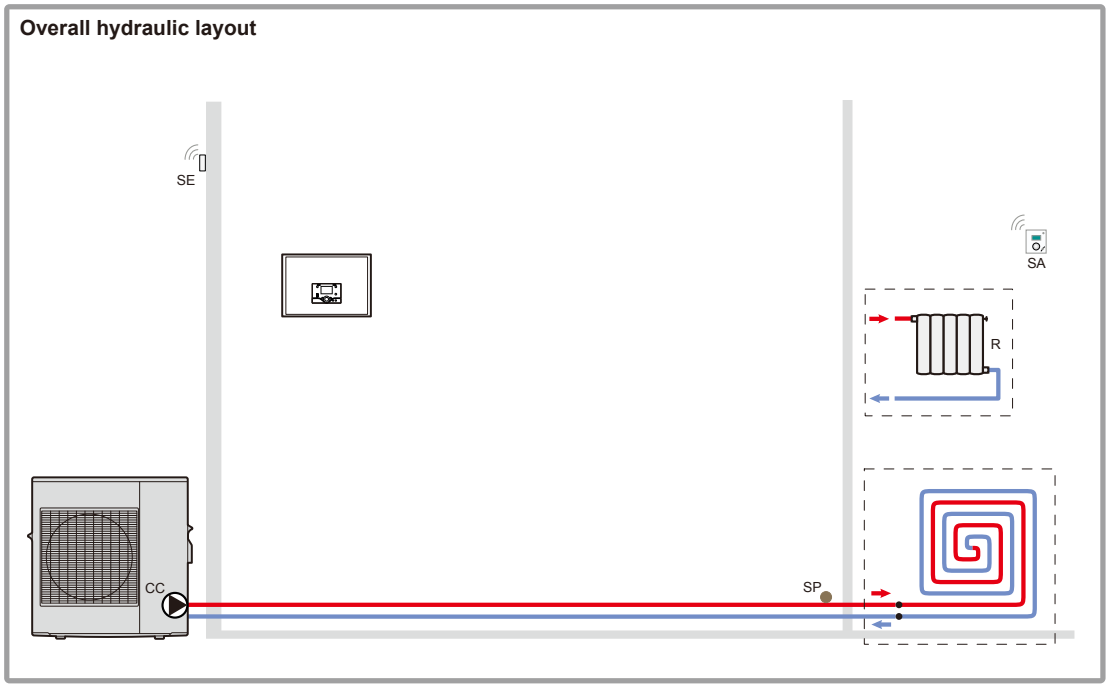
CC - Heating circulation pump
MH - Indoor unit
R - Radiators
SA - Room thermostat or Room control unit (option)
SE - Outdoor sensor
SP - Heated floor thermal safety fuse

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.

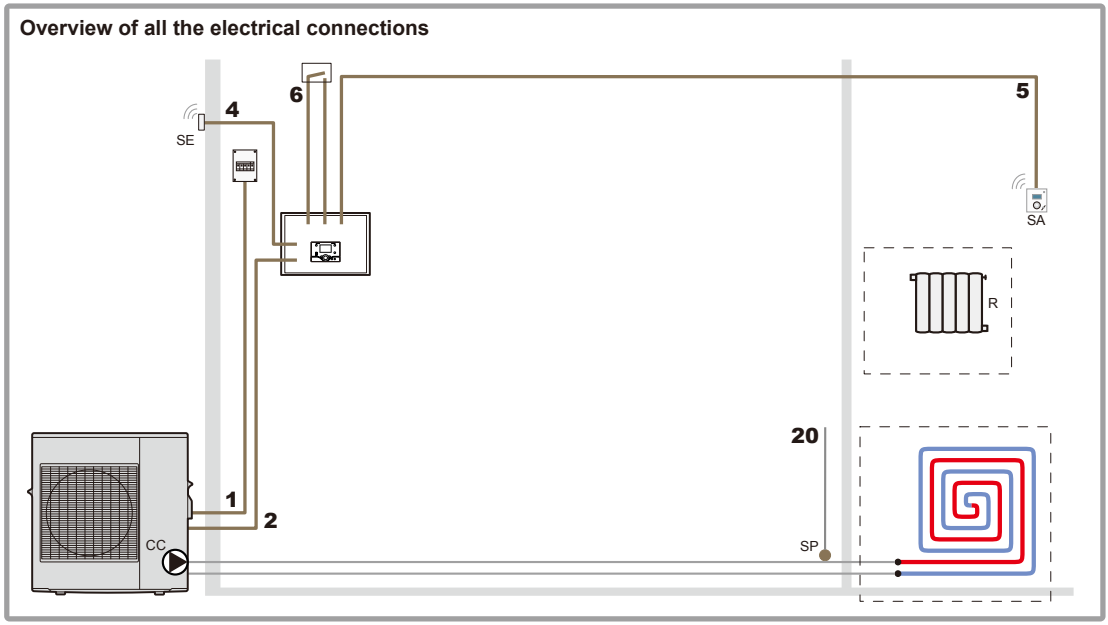
OPTIONAL PARTS

■ MONOBLOC TYPE

Overall hydraulic layout



Overview of all the electrical connections

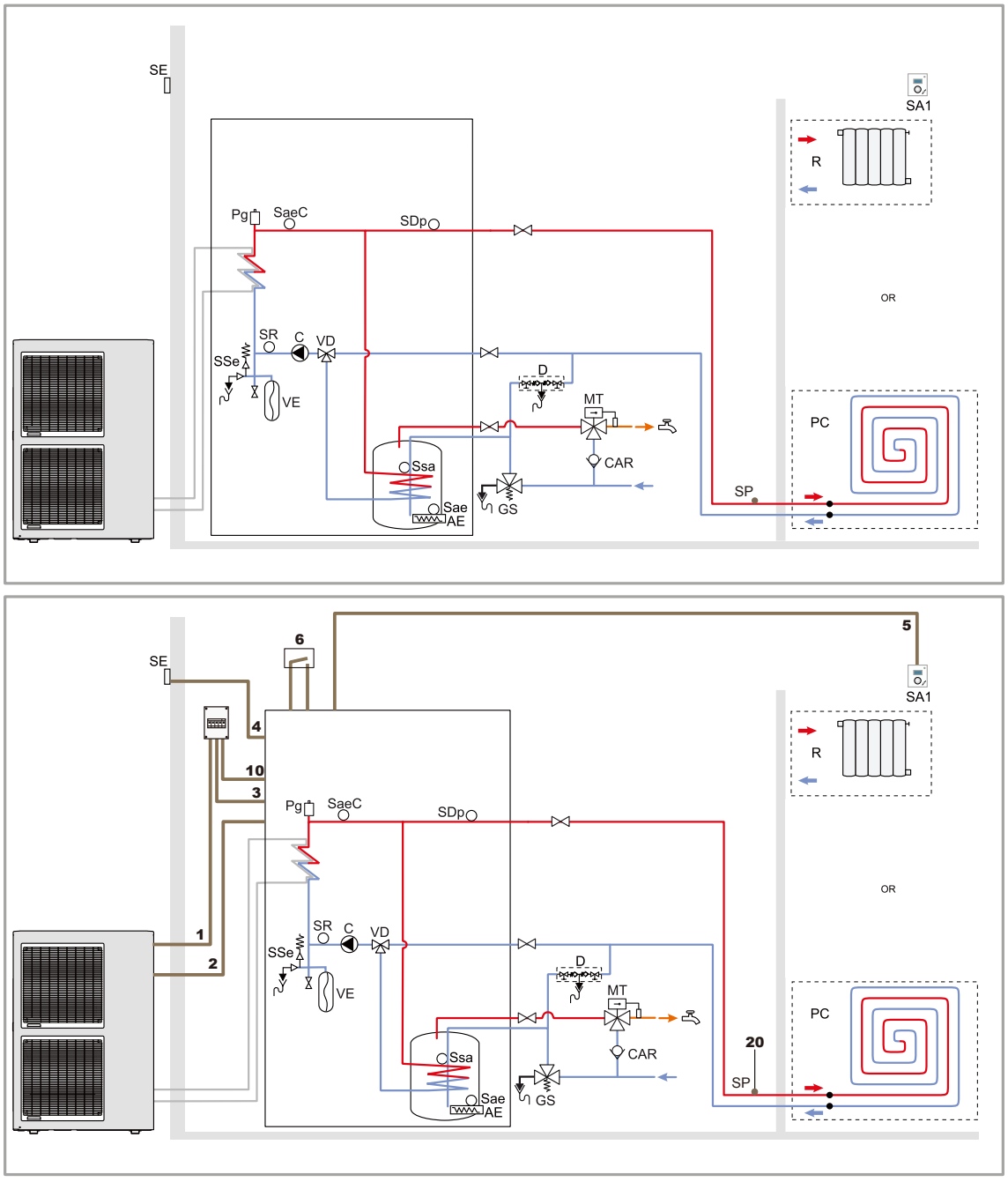


Legend

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

■ SPLIT INTEGRATED DHW TYPE



Legend

AE - Back-up DHW
CAR - Non-return valve
C - Heating circulation pump
D - Shut-off
GS - Safety unit
MT - Thermostatic mixer valve
PC - Floor heating system
PG - Bleeder valve
R - Radiators
SA1 - Room thermostat circuit 1 (Option)
Sae - Temperature safety of domestic electrical back-up
SaeC - Temperature safety (option heating back-up option)
SDp - Flow sensor
SP - Heated floor thermal safety fuse
SR - Return sensor
Ssa - DHW sensor
SSe - Safety valve
VD - Distribution valve
VE - Expansion vessel

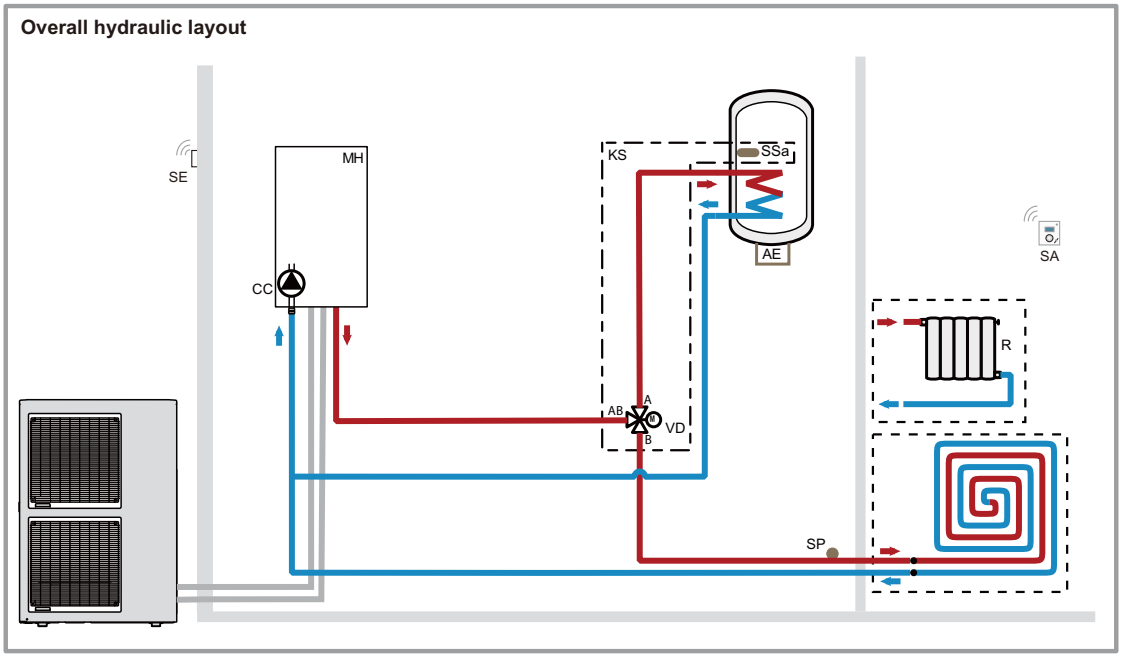
1- Power supply to the outdoor unit.(Electrical connections on the outdoor unit side)
2- Inter connection between the outdoor unit and the indoor unit.
3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
4- Outdoor sensor.
5- Room thermostat 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

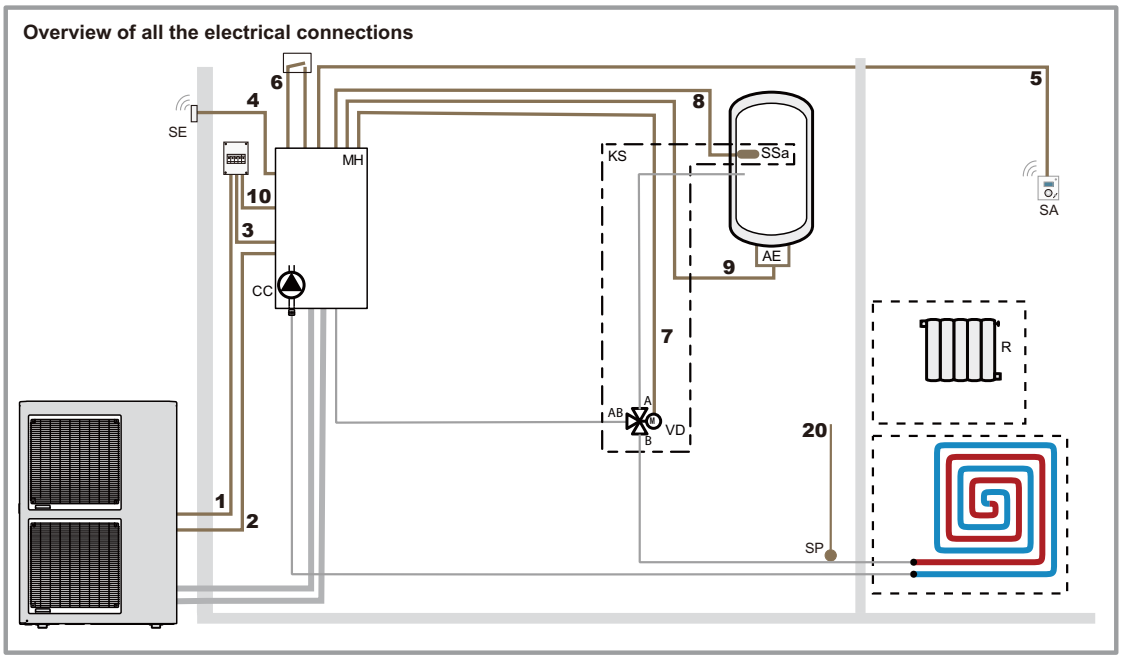
2-2. 1-HEATING CIRCUIT AND DHW TANK

■ SPLIT TYPE

Overall hydraulic layout



Overview of all the electrical connections



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

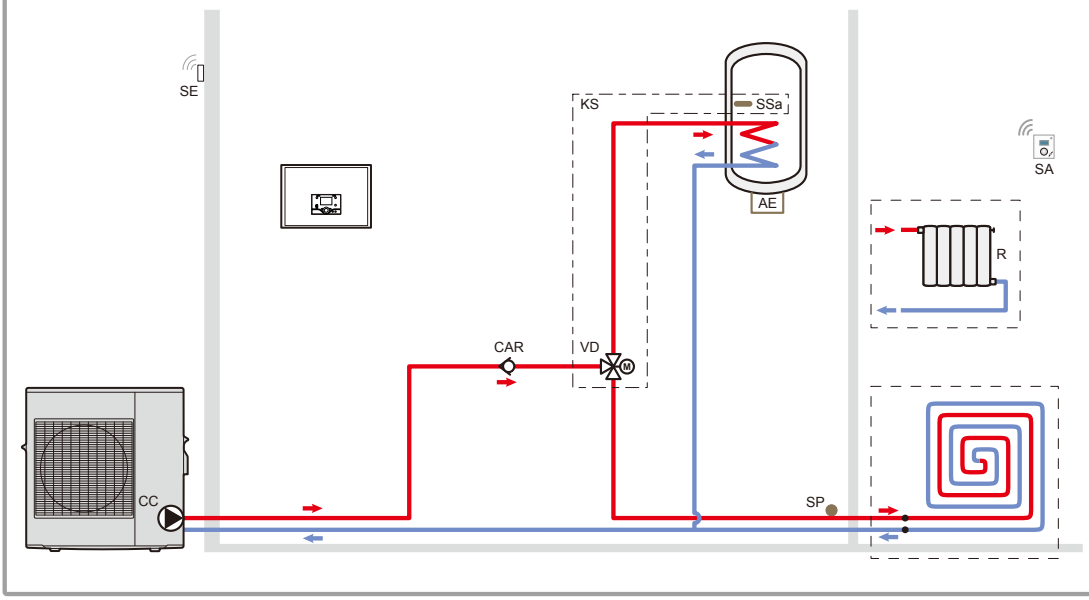
1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
2- Inter-connection between the outdoor unit and the indoor unit.
3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
4- Outdoor sensor.
5- Room thermostat 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.

OPTIONAL PARTS

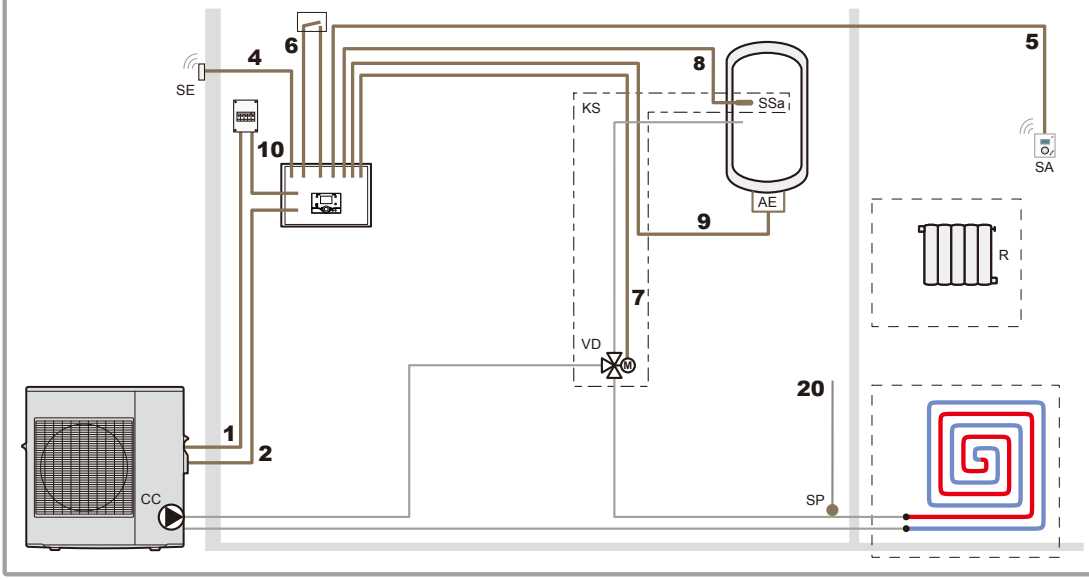
OPTIONAL PARTS

■ MONOBLOC TYPE

Overall hydraulic layout



Overview of all the electrical connections



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

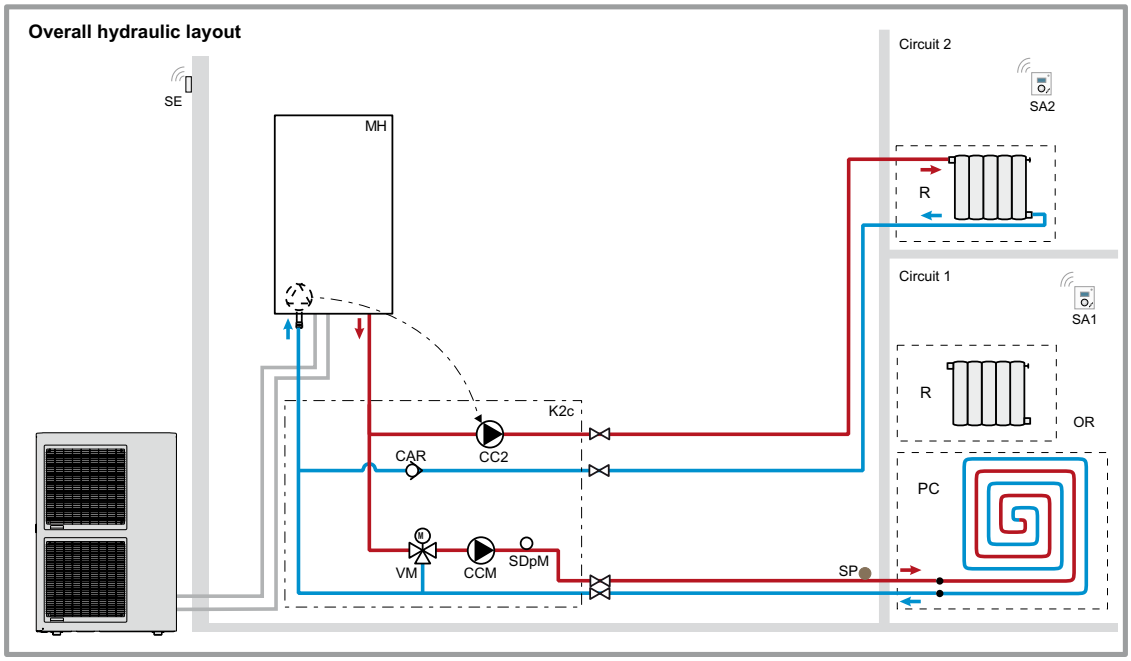
1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
2- Inter-connection between the outdoor unit and the indoor unit.
4- Outdoor sensor.
5- Room thermostat and/or remote controller.
6- Contract with the power provider: Connect the "Power Provider" contact to the heat 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.

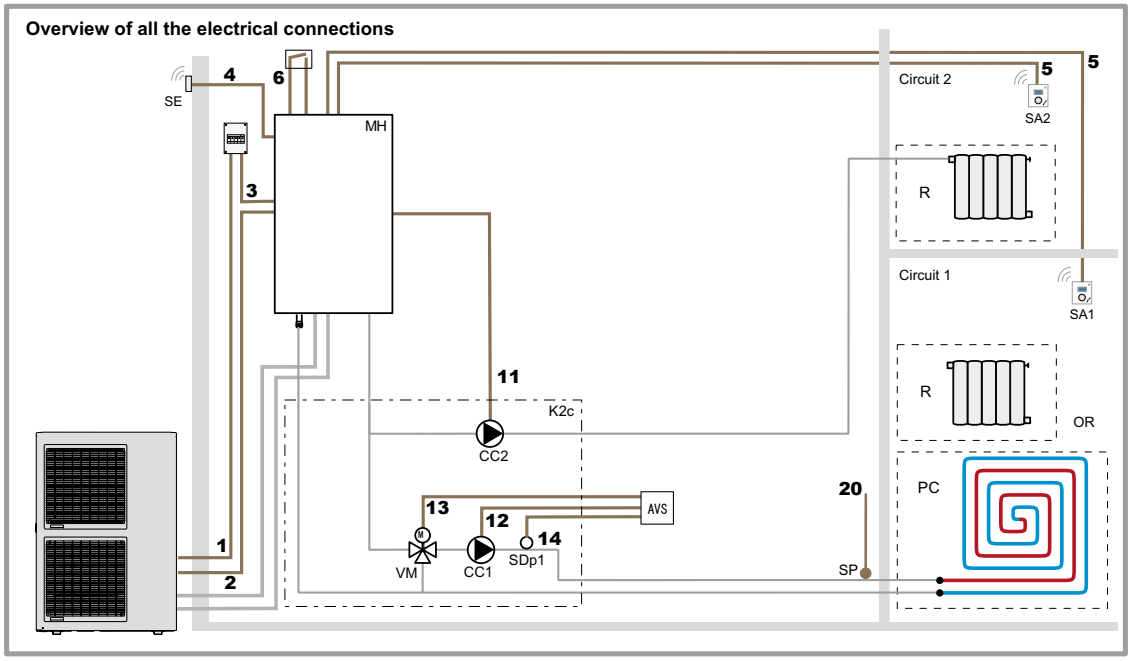
OPTIONAL PARTS

OPTIONAL PARTS

2-3. 2-HEATING CIRCUITS

■ SPLIT TYPE





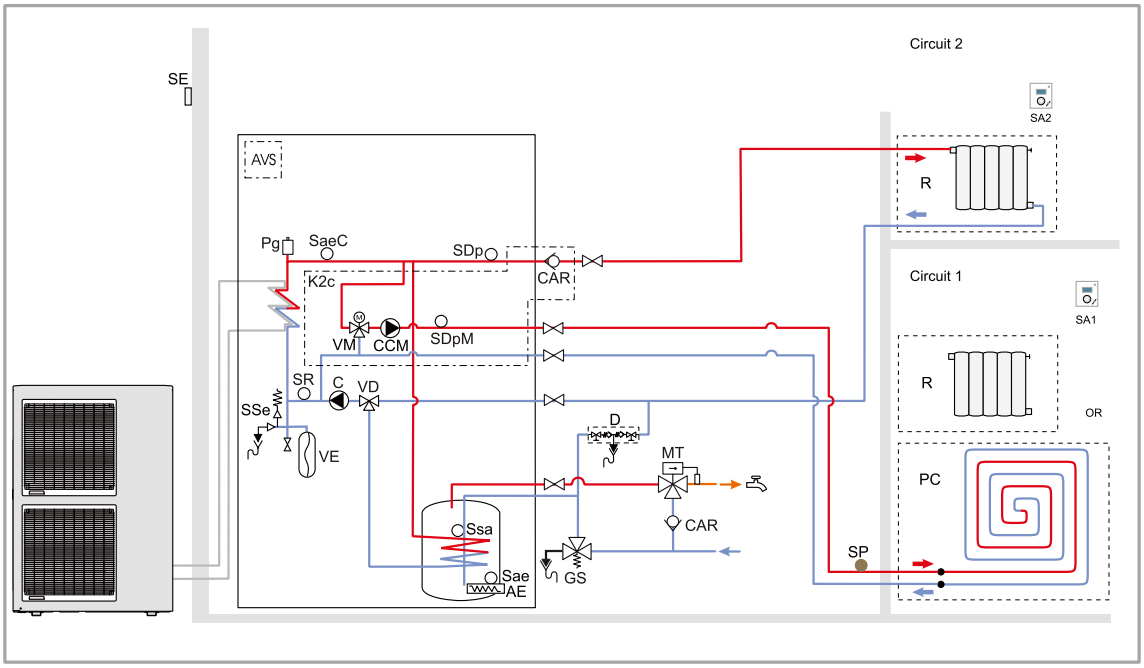
Legend

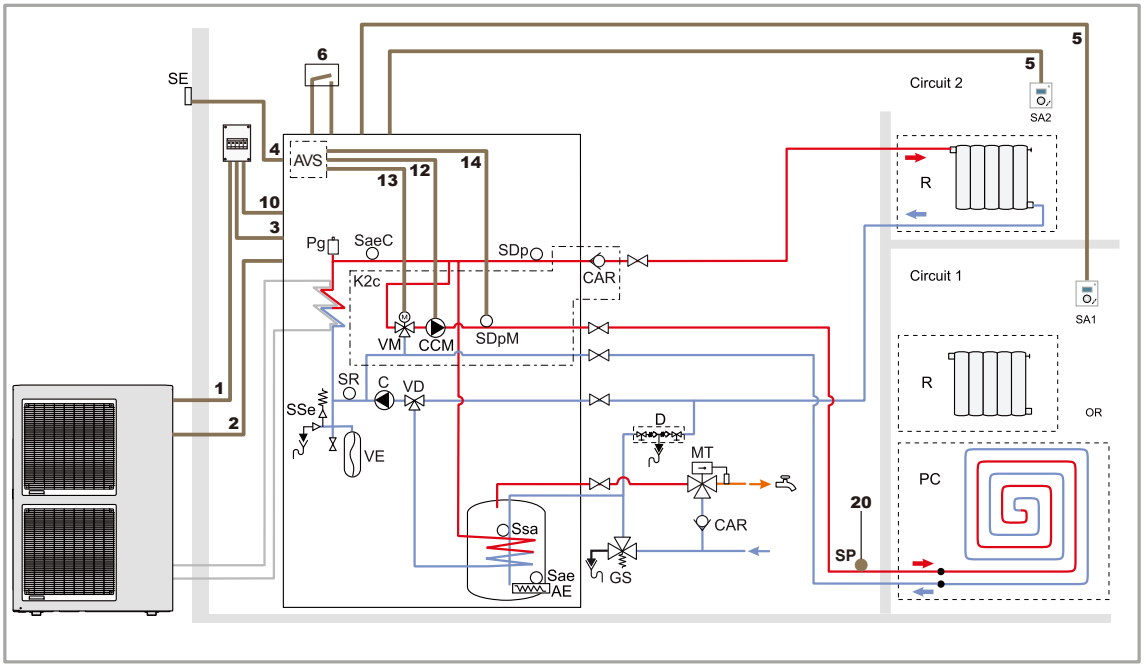
AVS - Regulation extension kit
CAR - Non-return valve
CC1 - Heating circulation pump, Circuit 1
CC2 - Heating circulation pump, Circuit 2
K2c - 2nd circuit kit
PC - Floor heating system
R - Radiators
SA1 - Room thermostat, Circuit CC1 (option)
SA2 - Room thermostat, Circuit CC2 (option)
SDp1 - Flow sensor, Circuit 1
SE - Outdoor sensor
SP - Heated floor thermal safety fuse
VM - Mixer valve

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.

OPTIONAL PARTS

■ SPLIT INTEGRATED DHW TYPE





Legend

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

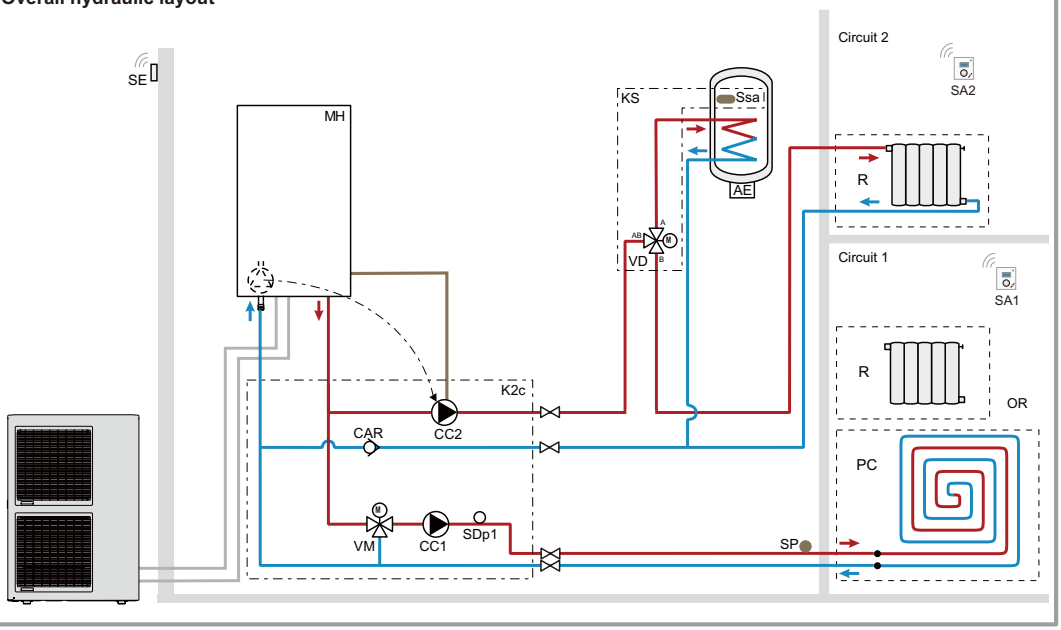
1- Power supply to the outdoor unit.(Electrical connections on the outdoor unit side)
2- Inter connection between the outdoor unit and the indoor unit.
3- Power supply to the electrical back-ups: Connect the electrical supply for the back-ups to the electrical panel.
4- Outdoor sensor.
5- Room thermostat 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.

OPTIONAL PARTS

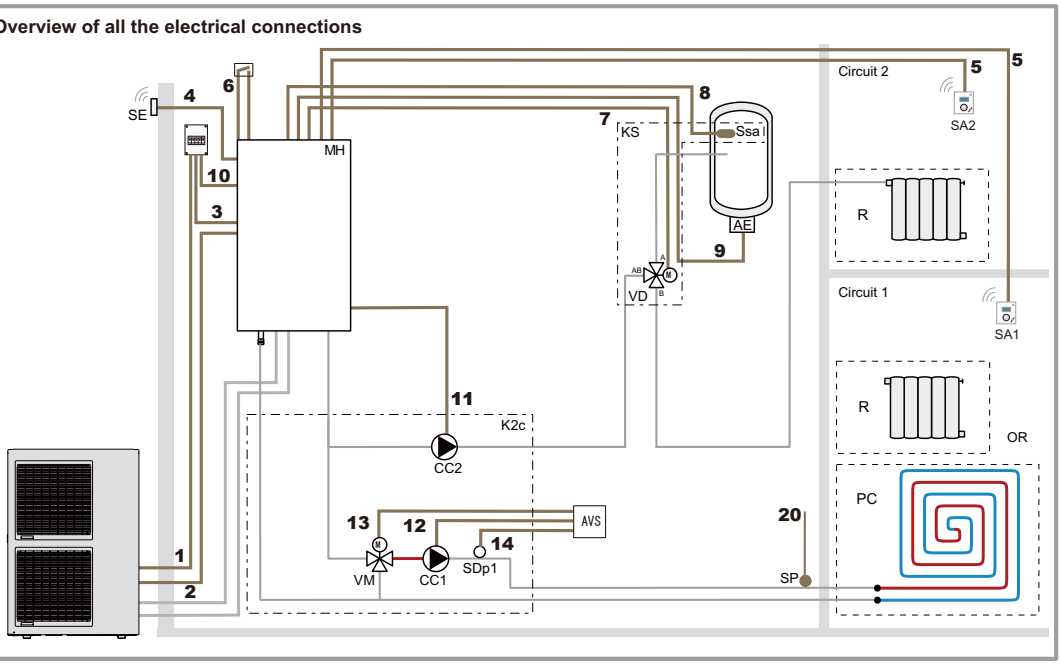
2-4. 2-HEATING CIRCUITS AND DHW TANK

■ SPLIT TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

AE - Electric back-up
AVS - Regulation extension kit
CAR - Non-return valve
CC1 - Heating circulation pump, Circuit 1
CC2 - Heating circulation pump, Circuit 2
K2c - 2nd circuit kit
KR - Boiler connection kit
KS - DHW kit
MH - Indoor unit
PC - Floor heating system
R - Radiators
SA1 - Room thermostat, Circuit 1 (option)
SA2 - Room thermostat, Circuit 2 (option)
SDp1 - Flow sensor, Circuit 1
SSa - DHW sensor
SE - Outdoor sensor
TA - Boiler thermostat
SP - Heated floor thermal safety fuse
VD - Distribution valve
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.
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.

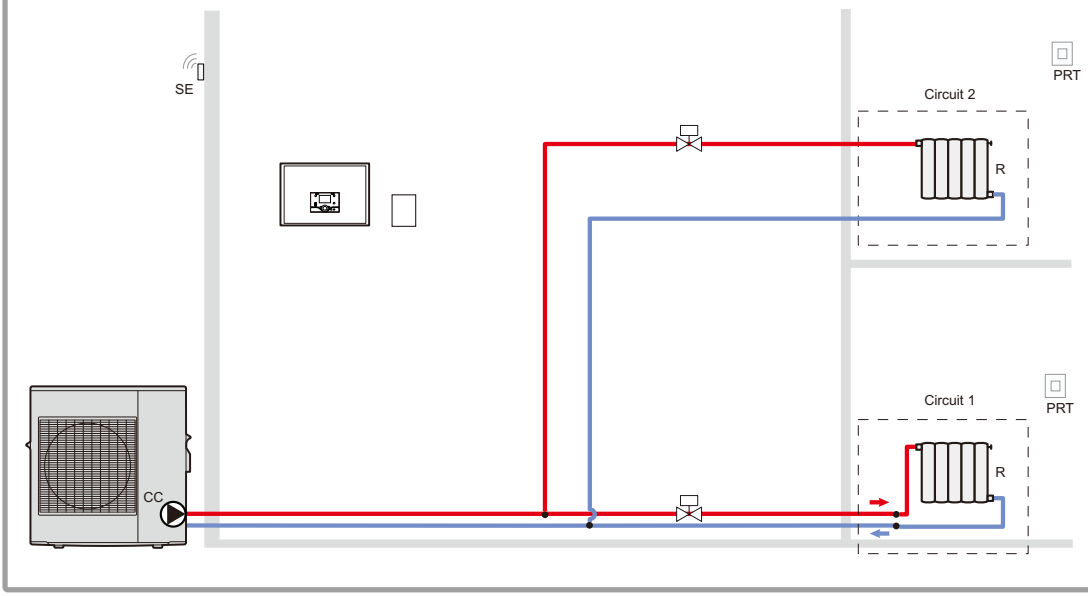
OPTIONAL PARTS

OPTIONAL PARTS

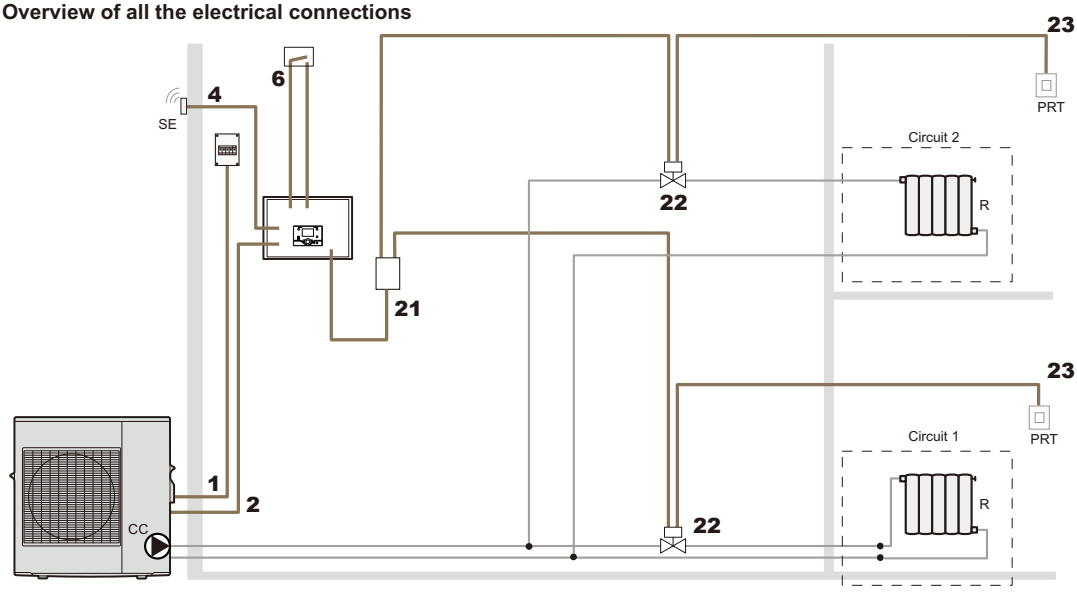
2-5. 2-HEATING CIRCUITS WITH ZONE VALVE

■ MONOBLOC TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

CC - Heating circulation pump **PRT -** Programable room thermostat **R -** Radiators

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.

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

21- Zone control kit

22- Zone valve with auxiliary switch

23- Programable room thermostat

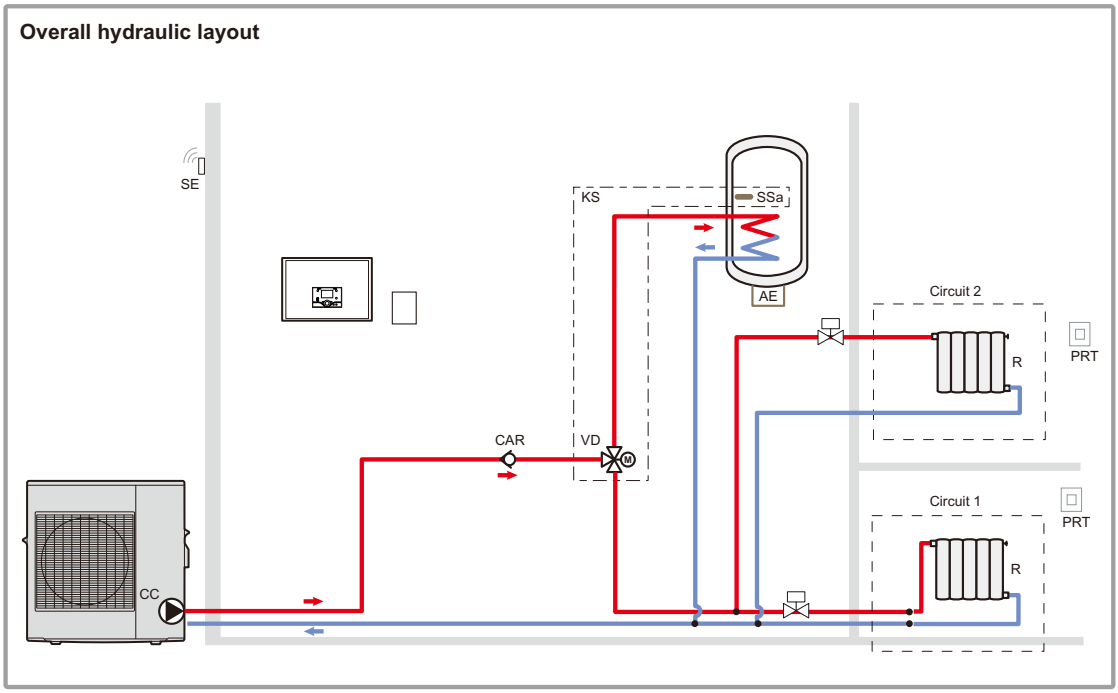
OPTIONAL PARTS

OPTIONAL PARTS

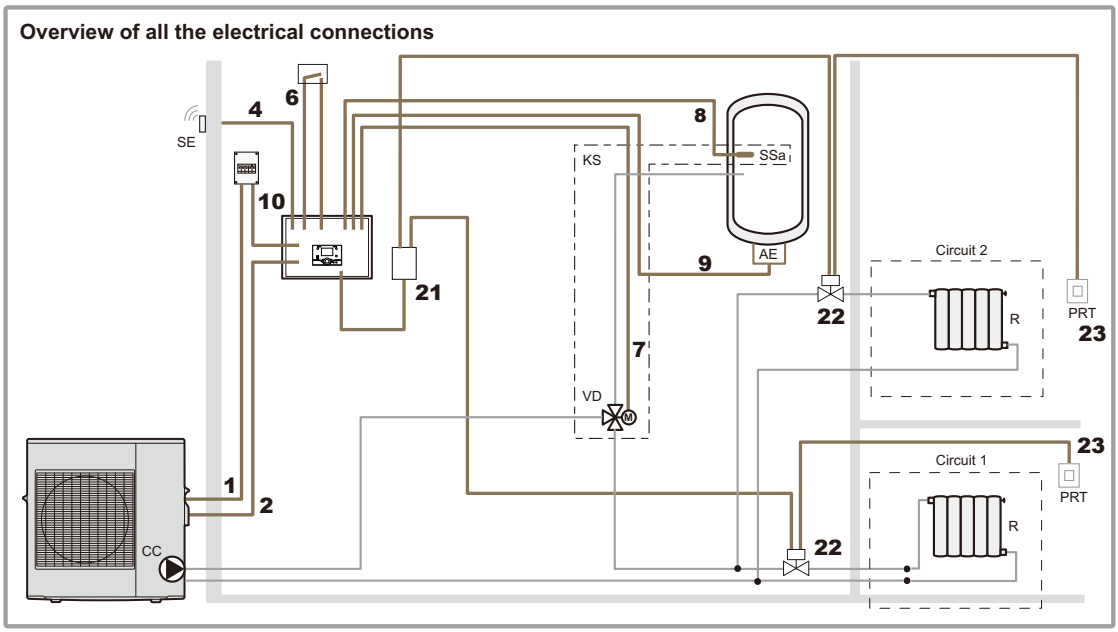
2-6. 2-HEATING CIRCUITS WITH ZONE VALVE AND DHW TANK

■ MONOBLOC TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

CAR - Non-return valve
AE - Electric back-up
CC - Heating circulation pump
KS - DHW kit
R - Radiators
PRT - Programable room thermostat
SE - Outdoor sensor
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.
21- Zone control kit
22- Zone valve with auxiliary switch
23- Programable room thermostat

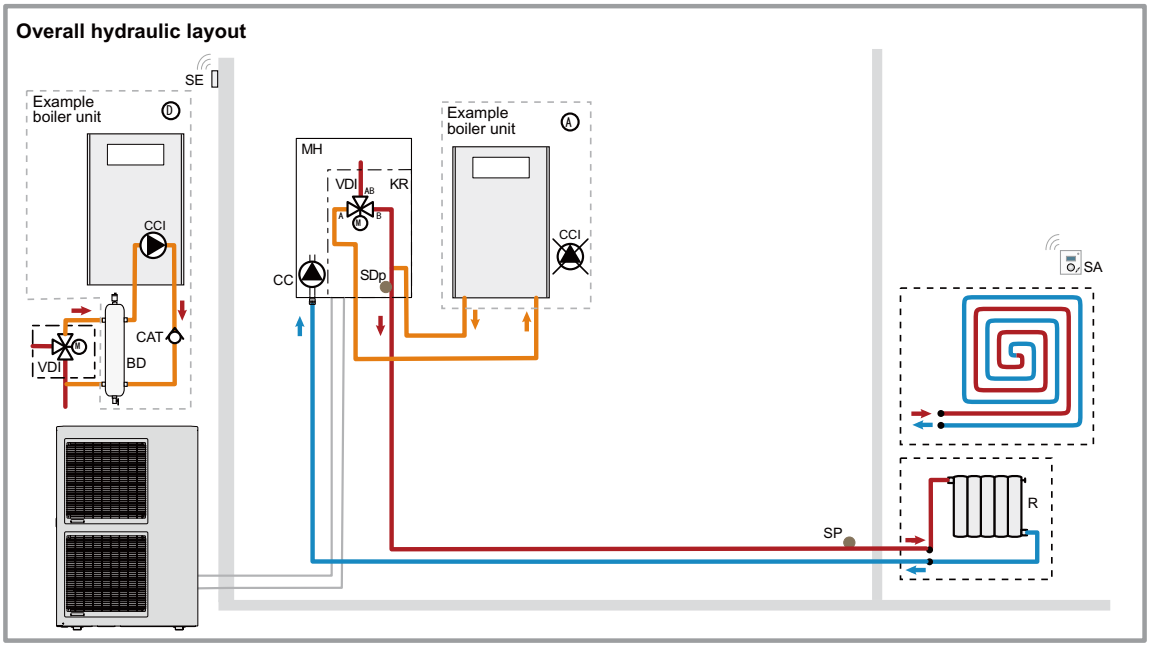
OPTIONAL PARTS

OPTIONAL PARTS

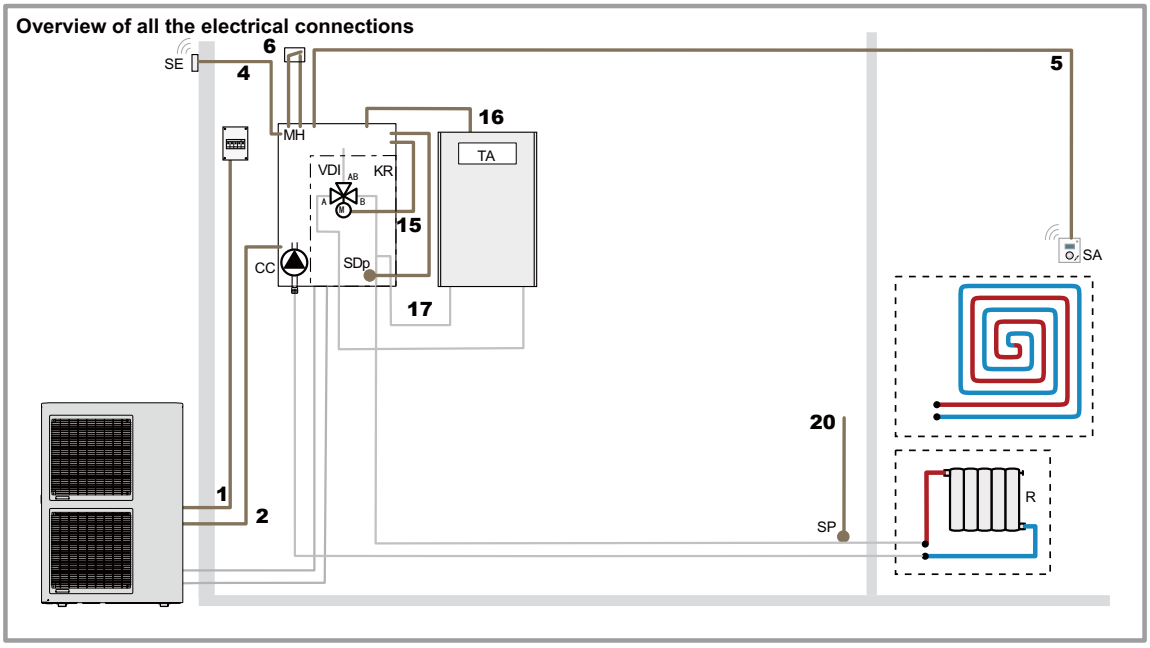
2-7. BOILER CONNECTION AND 1-HEATING CIRCUIT

■ SPLIT TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

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

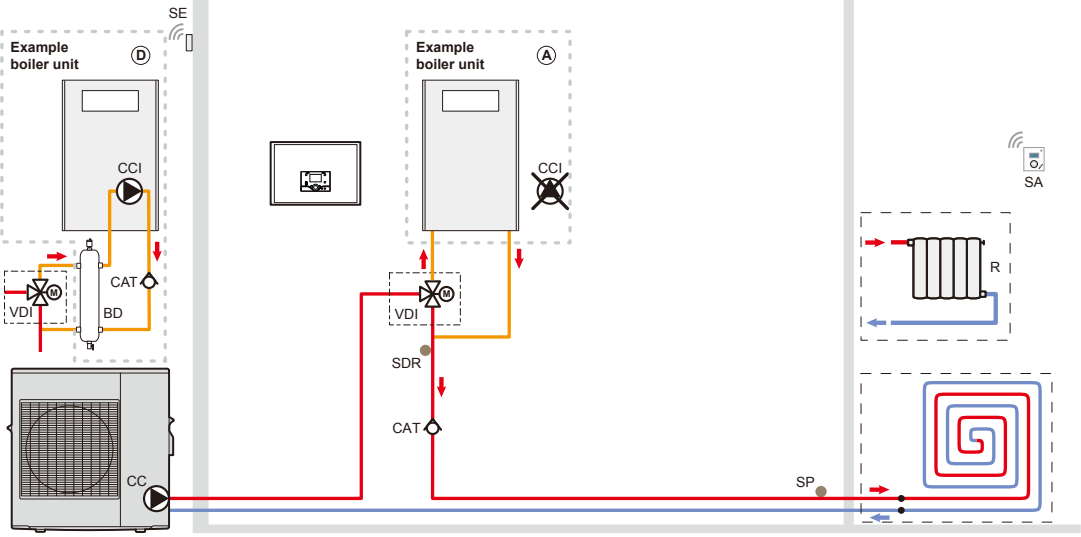
1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
2- Inter-connection between the outdoor unit and the indoor unit.
4- Outdoor sensor.
5- Room thermostat and/or remote controller.
6- Contract with the power provider: Connect the "Power Provider" contact to the heat 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.

OPTIONAL PARTS

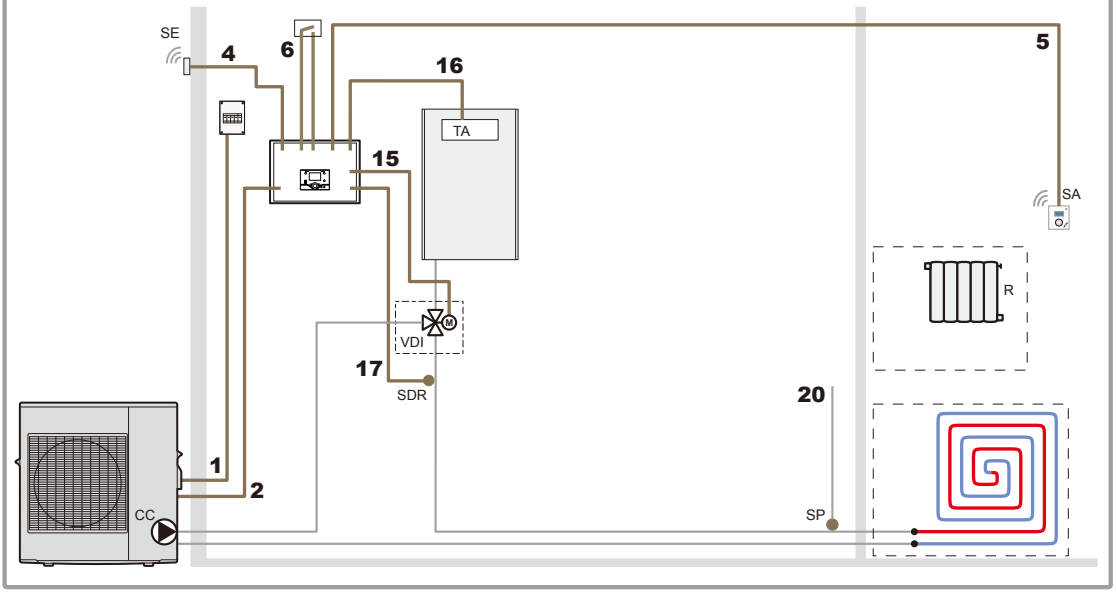
OPTIONAL PARTS

■ MONOBLOC TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

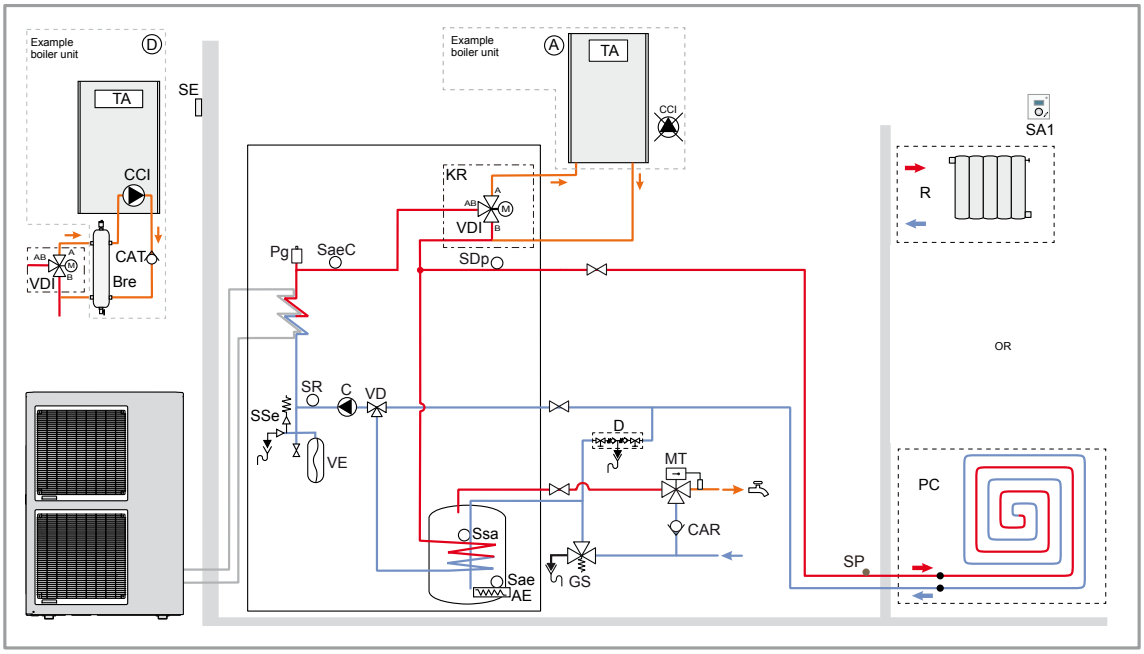
BD - Disconnection bottle
CAT - Anti-gravity feed valve
CCI - Heating system circulation pump built into the boiler
CC - Heating circulation pump
SA - Room thermostat (option)
SE - Outdoor sensor
SDR - Boiler connection valve flow sensor
SP - Heated floor thermal safety fuse
TA - Boiler room thermostat terminals
VDI - Distribution valve (deviation boiler)

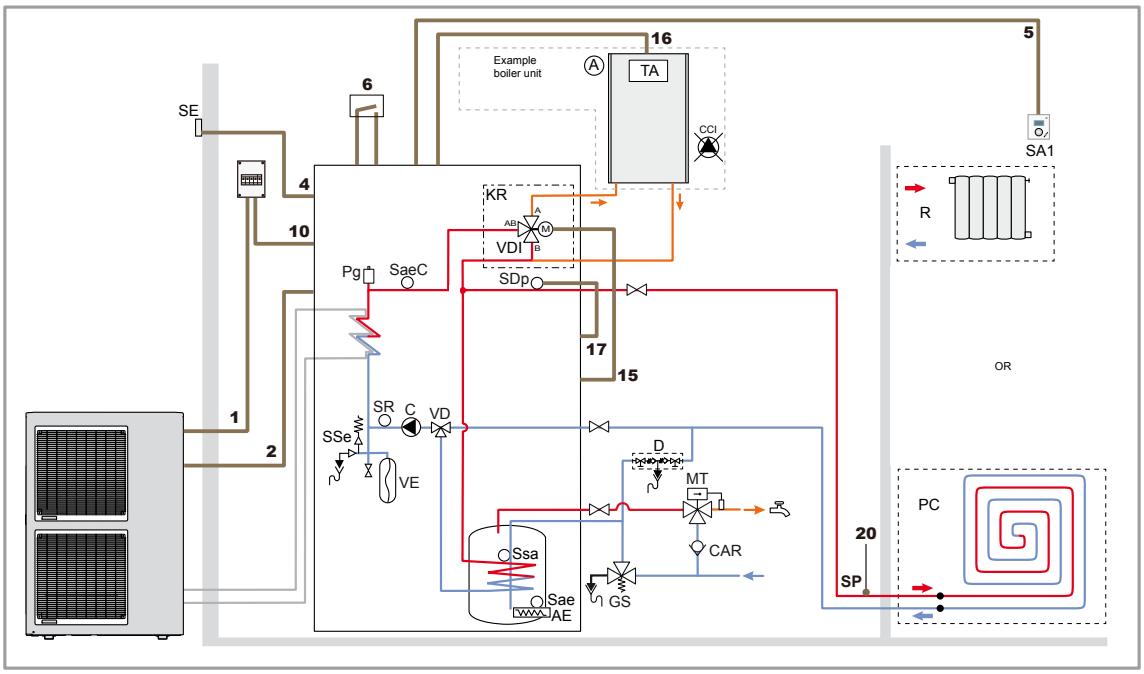
1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
2- Inter-connection between the outdoor unit and the indoor unit.
4- Outdoor sensor.
5- Room thermostat and/or remote controller.
6- Contract with the power provider: Connect the "Power Provider" contact to the heat 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





OPTIONAL PARTS

OPTIONAL PARTS

Legend

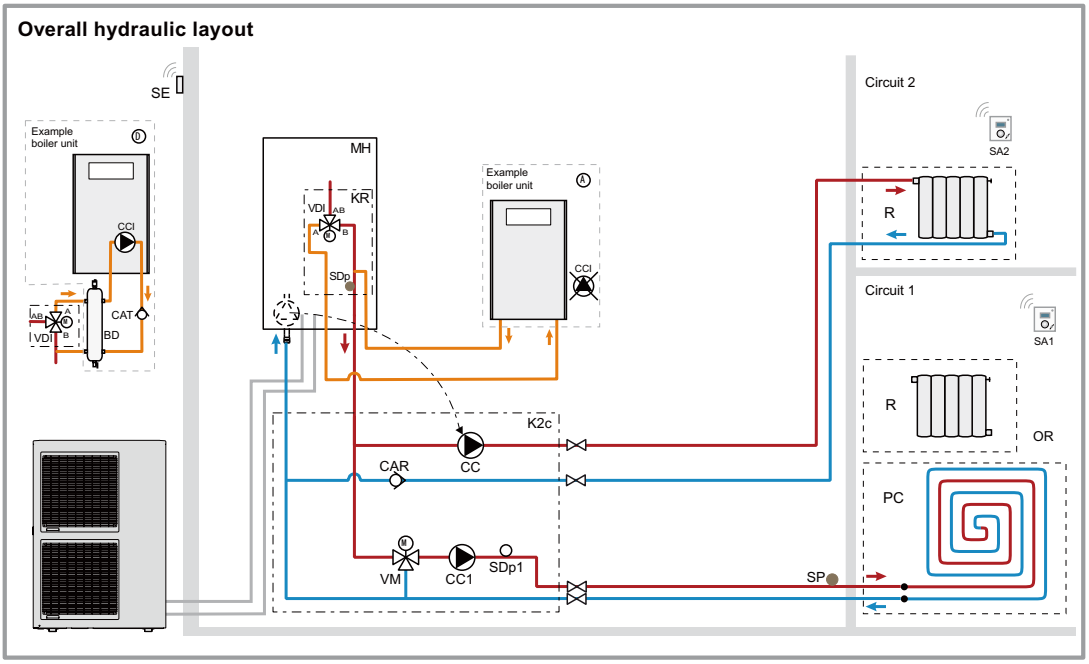
AE - Hot water electrical back-up
BD - Disconnection bottle
C - Heating circulation pump
CAR - Non-return valve
CAT - Anti-gravity feed valve
CCI - Heating system circulation pump built into the boiler
CCM - Mixed-circuit heat pump
D - Shut-off
GS - Safety unit
KR - Boiler connection kit
MT - Thermostatic mixer valve
PC - Floor heating system
PG - Bleeder valve
R - Radiators
SA1 - Room thermostat circuit 1 (Option)
Sae - Temperature safety of domestic electrical back-up
SaeC - Temperature safety (option heating back-up option)
SDp - Flow sensor
SE - Outdoor sensor
SP - Heated floor thermal safety fuse
SR - Return sensor
Ssa - DHW sensor
TA - Boiler room thermostat terminals
VD - Distribution valve
VDI - Distribution valve (deviation boiler)
VE - Expansion vessel

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.

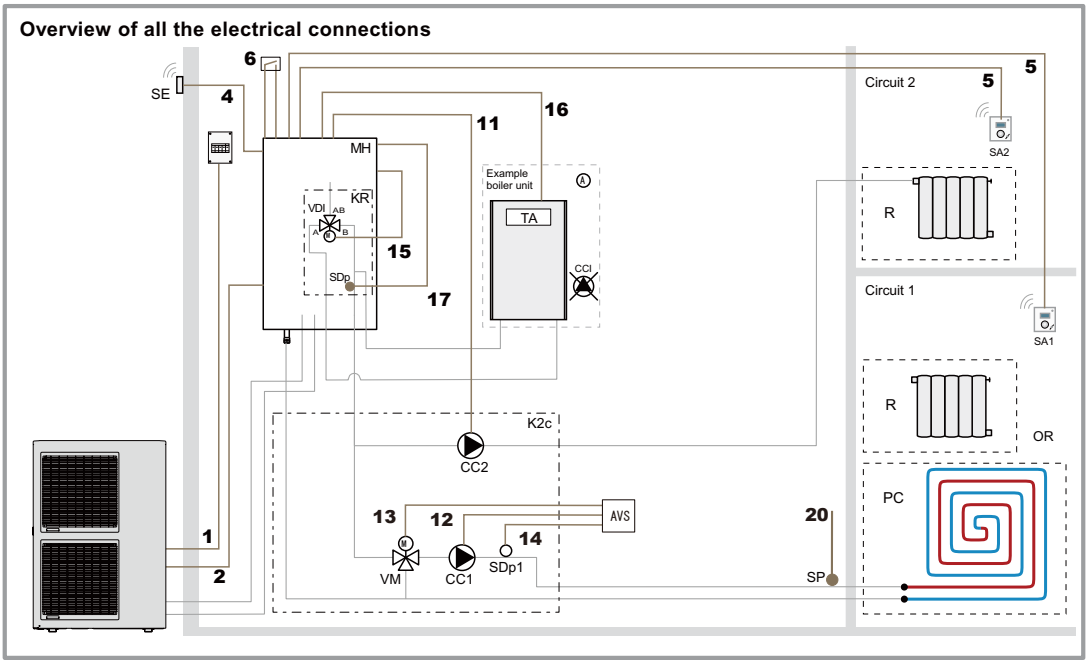
2-8. BOILER CONNECTION AND 2-HEATING CIRCUITS

■ SPLIT TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

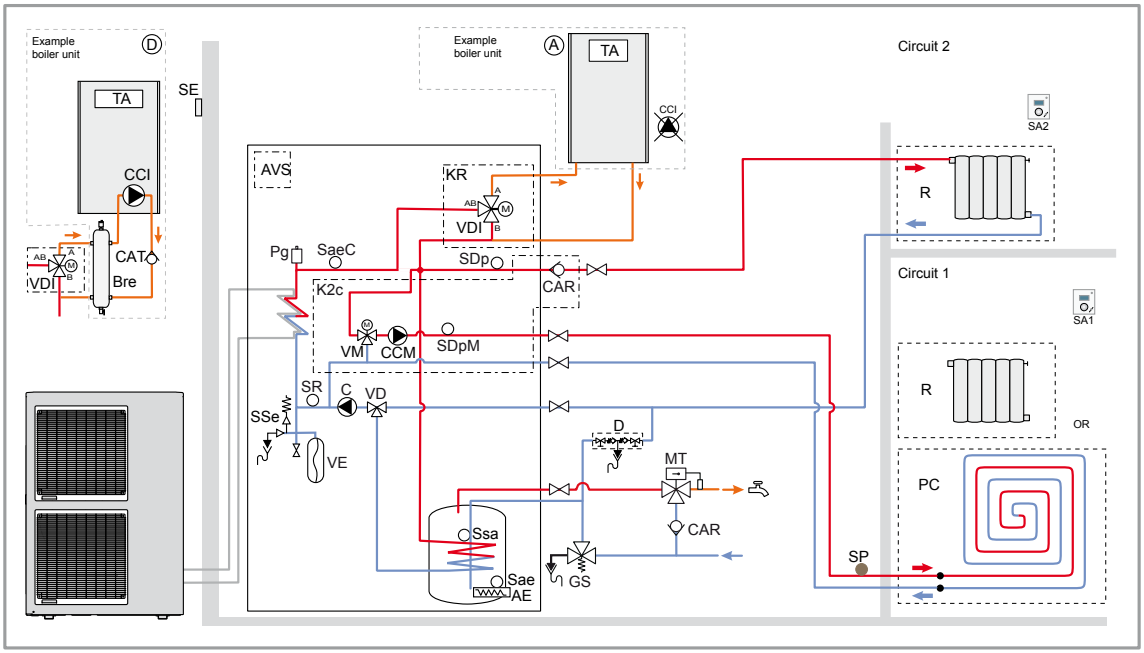
AVS - Regulation extension kit
BD - Disconnection bottle
CAR - Non-return valve
CAT - Anti-gravity feed valve
CCI - Heating system circulation pump built into the boiler
CC1 - Heating circulation pump circuit 1
CC2 - Heating circulation pump circuit 2
K2c - 2nd circuit kit
KR - Boiler connection kit
MH - Indoor unit
PC - Floor heating system
R - Radiators
SA1 - Room thermostat circuit 1 (option)
SA2 - Room thermostat circuit 2 (option)
SDp1 - Flow sensor circuit 1
SDp - Flow sensor
SE - Outdoor sensor
TA - Boiler thermostat
SP - Heated floor thermal safety fuse
VDI - Distribution valve (deviation boiler)
VM - Mixer valve

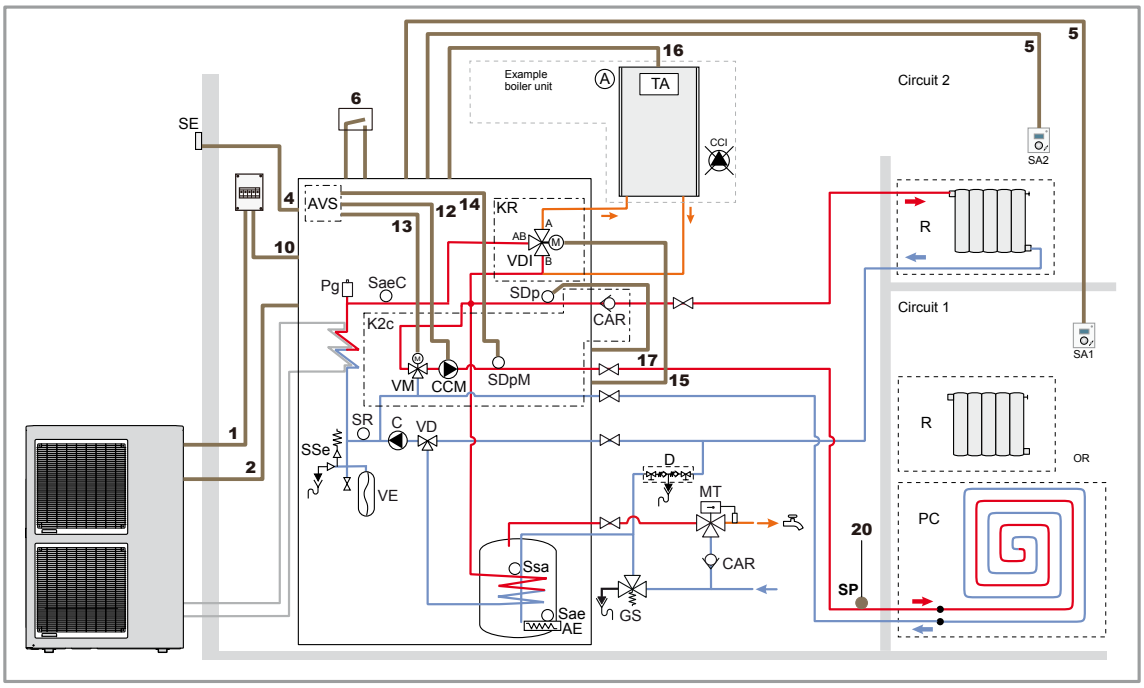
1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
2- Inter-connection between the outdoor unit and the indoor unit.
4- Outdoor sensor.
5- Room thermostat and/or remote controller.
6- Contract with the power provider: Connect the "Power Provider" contact to the heat 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.

OPTIONAL PARTS

OPTIONAL PARTS

■ SPLIT INTEGRATED DHW TYPE





OPTIONAL PARTS

Legend

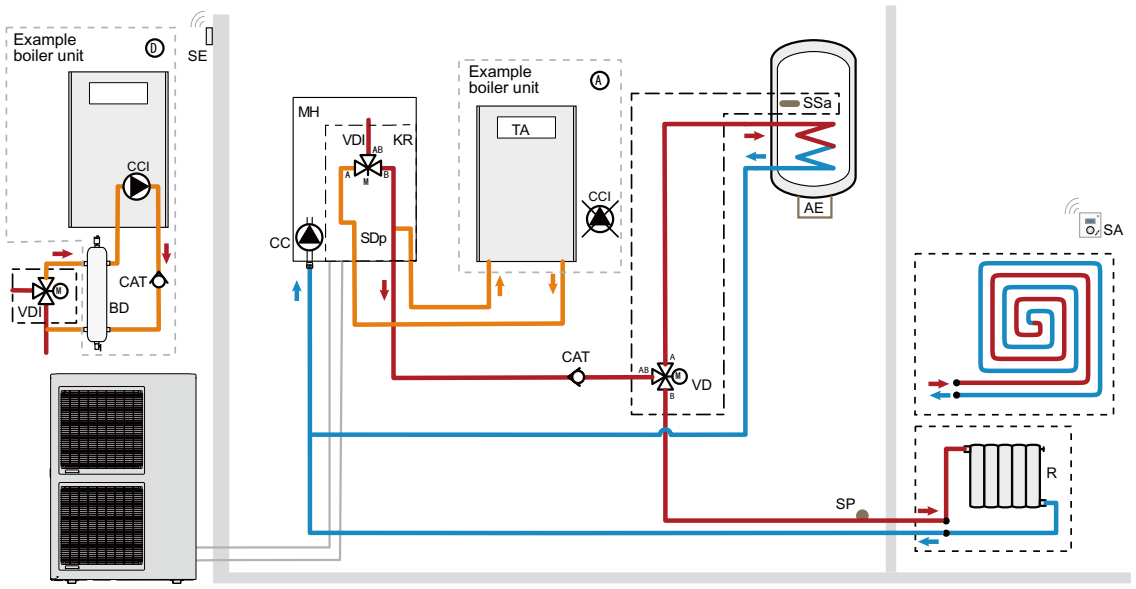
AE - Hot water electrical back-up
AVS - Extension board, 2 circuits
BD - Disconnection bottle
C - Heating circulation pump
CAR - Non-return valve
CAT - Anti-gravity feed valve
CCI - Heating system circulation pump built into the boiler
CCM - Mixed-circuit heat pump
D - Shut-off
GS - Safety unit
K2c - 2nd circuit kit
KR - Boiler connection kit
MT - Thermostatic mixer valve
PC - Floor heating system
PG - Bleeder valve
R - Radiators
SA1 - Room thermostat circuit 1 (Option)
SA2 - Room thermostat circuit 2 (Option)
Sae - Temperature safety of domestic electrical back-up
SaeC - Temperature safety (option heating back-up option)
SDp - Flow sensor
SDpM - Mixed-circuit initial sensor
SE - Outdoor sensor
SP - Heated floor thermal safety fuse
SR - Return sensor
Ssa - DHW sensor
TA - Boiler room thermostat terminals
VD - Distribution valve
VDI - Distribution valve (deviation boiler)
VE - Expansion vesse
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 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.

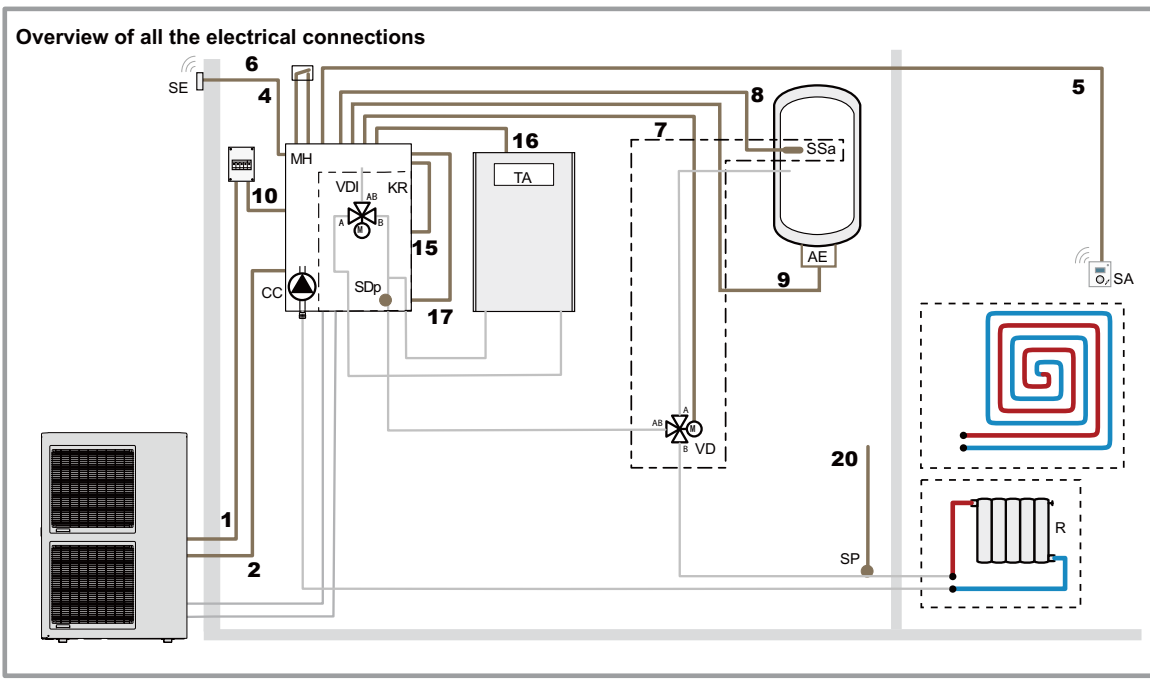
2-9. BOILER CONNECTION, 1-HEATING CIRCUIT AND DHW TANK

■ SPLIT TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

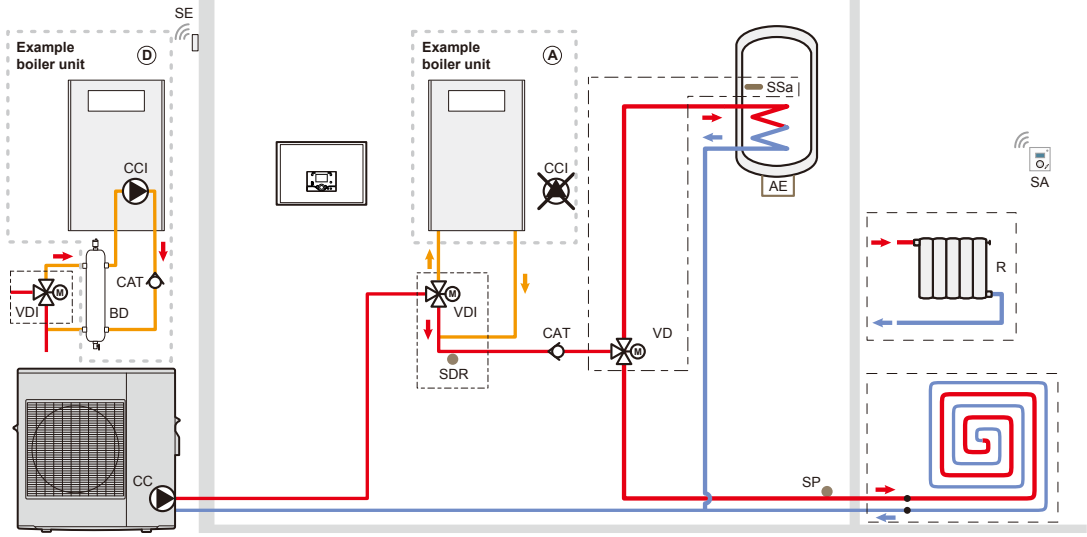
AE - Electric back-up
BD - Disconnection bottle
CAT - Anti-gravity feed valve
CCI - Heating system circulation pump built into the boiler
CC - Heating circulation pump
KR - Boiler connection kit
MH - Indoor unit
R - Radiators (or fan convectors)
SA - Room thermostat or Room control unit (option)
SE -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

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.

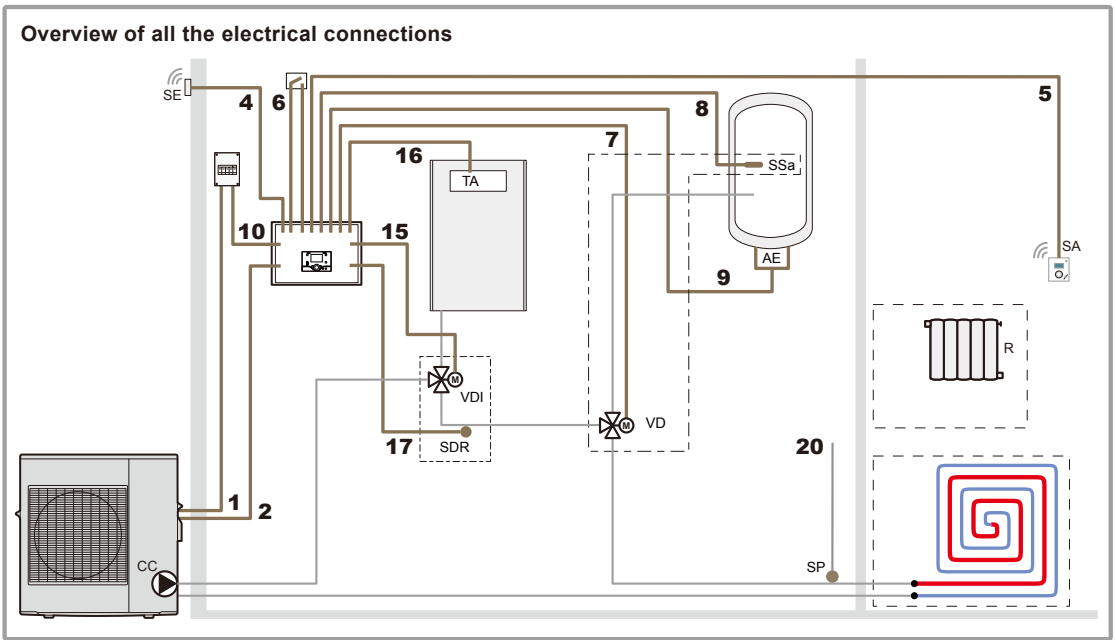
OPTIONAL PARTS

■ MONOBLOC TYPE

Overall hydraulic layout



Overview of all the electrical connections



Legend

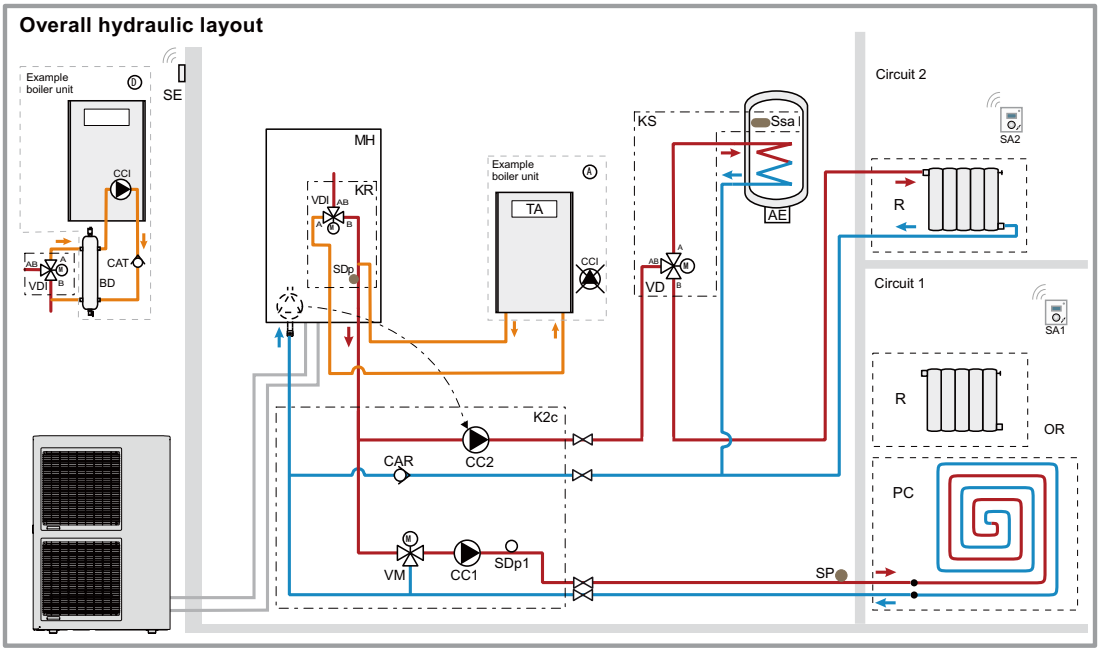
AE - Electric back-up
BD - Disconnection bottle
CAT - Anti-gravity feed valve
CCI - Heating system circulation pump built into the boiler
CC - Heating circulation pump
SA - Room thermostat (option)
SE - Outdoor sensor
SDR - Boiler connection valve flow sensor
SSa - DHW sensor
SP - Heated floor thermal safety fuse
TA - Boiler room thermostat terminals
VD - Distribution valve
VDI - Distribution valve (deviation boiler)

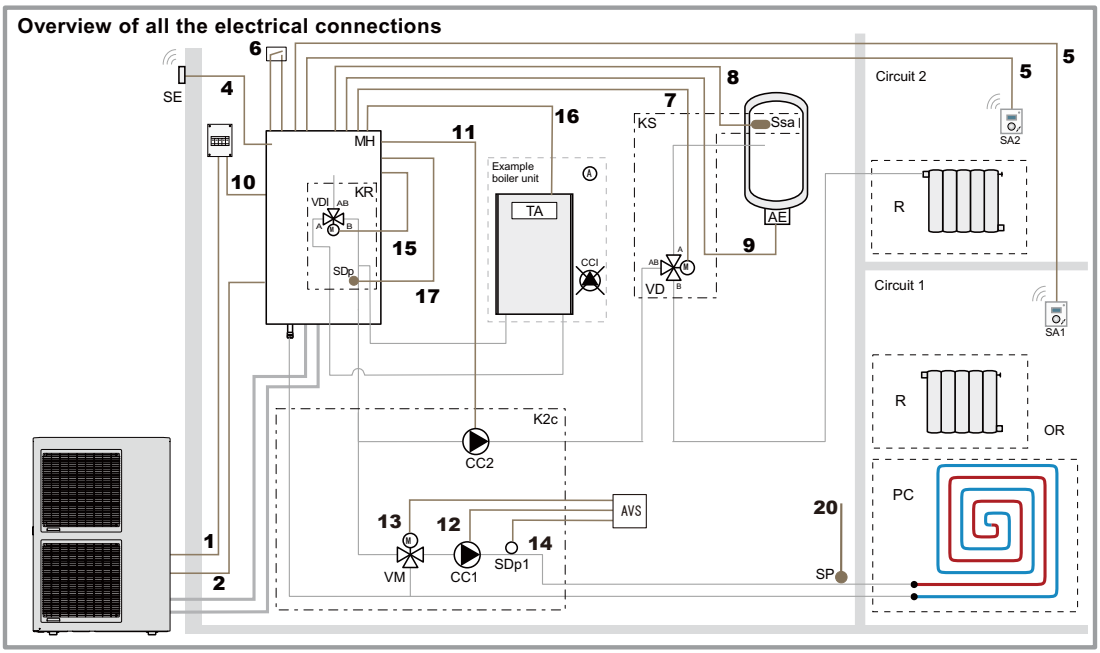
1- Power supply to the outdoor unit. (Electrical connections on the outdoor unit side)
2- Inter-connection between the outdoor unit and the indoor unit.
4- Outdoor sensor.
5- Room thermostat and/or remote controller.
6- Contract with the power provider: Connect the "Power Provider" contact to the heat 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.

OPTIONAL PARTS

2-10. BOILER CONNECTION, 2-HEATING CIRCUITS AND DHW TANK

■ SPLIT TYPE





Legend

AE - Electric back-up
AVS - Regulation extesion kit
CAR - Non-return valve
CC1 - Heating circulation pump circuit 1
CC2 - Heating circulation pump circuit 2
K2c - 2nd circuit kit
KR - Boiler connection kit
KS - DHW kit
MH - Indoor unit
PC - Floor heating system
R - Radiators
SA1 - Room thermostat circuit 1 (option)
SA2 - Room thermostat circuit 2 (option)
SDp1 - Flow circuit1
SDp - Flow sensor
SSa - DHW sensor
SE - Outdoor sensor
SP - Heated floor thermal safety fuse
TA - Boiler thermostat
VD - Distribution valve
VDI - Distribution valve (deviation boiler)
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.
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.

OPTIONAL PARTS