

Optiheat Inverta Economy

OHI 9e – OHI 17e
Brine/water



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Technical data

Optiheat Inverta Economy

OHI 9e to OHI 17e, brine/water with controller Optiplus 3

Heat pump type		OHI 9e	OHI 17e
Model		Economy	Economy
Controller		Optiplus 3	Optiplus 3
WPZ test number		CH-HP-00638	

Standard performance data (as per EN 14511:2013, part load operation 50 Hz)			W35	W45	W55	W35	W45	W55
Heat output	at B0	kW	8.8	8.4	7.9	16.7	15.8	14.9
COP	at B0	(-)	4.9	3.7	2.8	4.9	3.7	2.8
El. power consumption	at B0	kW	1.8	2.3	2.8	3.4	4.3	5.3
Cooling output	at B0	kW	7.0	6.2	5.1	13.2	11.5	9.7

Power range			W35	W45	W55	W35	W45	W55
Minimum heat output	at B0	kW	5.0	5.0	4.5	9.5	9.0	8.5
Maximum heat output	at B0	kW	18.5	17.5	16.5	35	33	32

Energy class performance data ¹⁾							
Energy efficiency class 35 °C 55 °C			A+++ A+++		A+++ A+++		
Rated thermal output P _{rated} 35 °C 55 °C		kW	15.2 14.1		30.4 28.2		
Energy efficiency η _s 35 °C 55 °C		%	205 150		207 151		
SCOP (according to EN 14825) 35 °C 55 °C			5.3 3.9		5.4 4.0		

Sound							
Sound power level ²⁾	L _{wa}	dB(A)	48		54		
Sound pressure level in 1 m ³⁾	L _{pa}	dB(A)	33		39		

Field of application, application limits							
Heat source temperature	min. max.	°C	-6 +20		-6 +20		
Heat flow temperature ^{4) 5)}	min. max.	°C	+25 +65		+25 +65		

Vaporiser, brine side (at B0/W35)							
Volume flow minimum nominal standard	m³/h	1.6 1.8 2.1			3.0 3.4 4.0		
Pressure drop via heat pump	kPa	4	5	7	4	5	7
Medium water / ethylene glycol	%	75 / 25			75 / 25		

Condenser, heater side (at B0/W35)							
Volume flow minimum nominal standard	m³/h	0.8 1.1 1.5			1.4 2.0 2.9		
Pressure drop via heat pump	kPa	1	3	6	1	3	6
Medium water	%	100			100		

Dimensions, connections, miscellaneous							
Dimensions	D × W × H	mm	700 × 530 × 1260				
Total weight		kg	165		195		
Heating circuit connection	AG	inch	1 1/2"		1 1/2"		
Heat source connection	AG	inch	1 1/2"		1 1/2"		
Cooling agent filling quantity		- kg	R-410A 2.7		R-410A 3.5		
Refrigeration oil filling quantity		l	0.9		0.9		
GWP CO ₂ -e		- t	2088 5.6		2088 7.3		

Technical data

Optiheat Inverta Economy

OHI 9e to OHI 17e, brine/water with controller Optiplus 3

Heat pump type	OHI 9e	OHI 17e
Model	Economy	Economy
Controller	Optiplus 3	Optiplus 3
WPZ test number	CH-HP-00638	

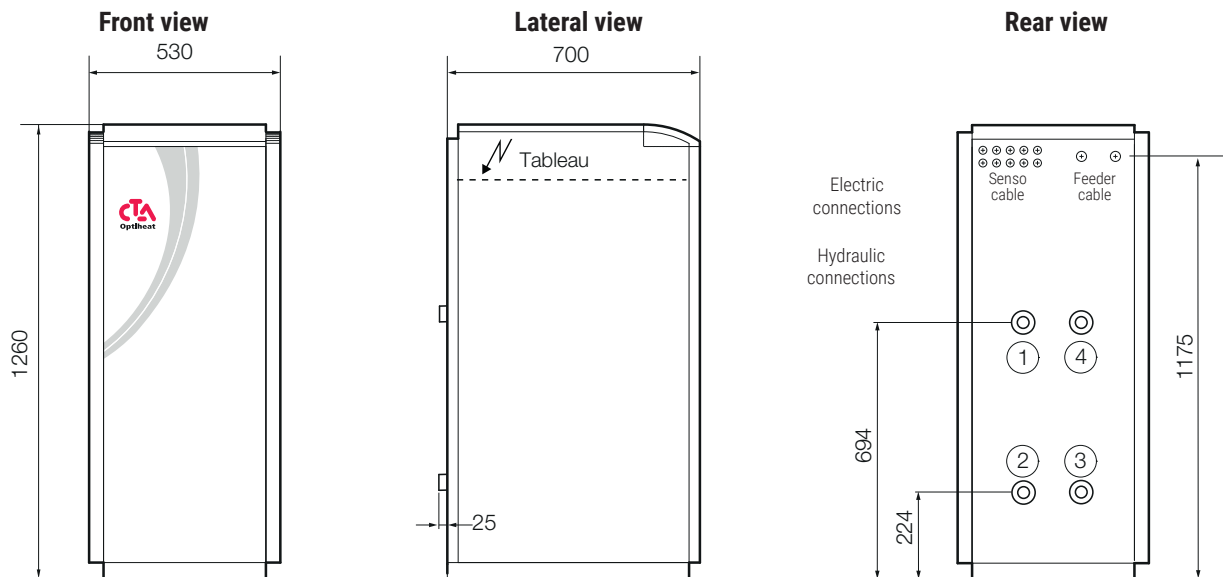
Electrical data			
Operating voltage		3L / N / PE / 400 V / 50 Hz	
External fuse protection unit	AT	25 «C»	32 «C»
External fuse protection without circulation pumps	AT	20 «C»	25 «C»
Max. machine current	A	21	32
Starting current (soft start speed control)	A	12	22
Protection class	IP	20	20
Max. power consumption compressor	kW	9.4	15.4
Max. power consumption circulation pumps	kW	0.5	0.5
Max. power consumption total	kW	9.9	15.9
Heating pump outputs ⁵⁾	L / N / PE, 0-10VDC		L / N / PE, 0-10VDC
Source pump output ⁶⁾	L / N / PE, 0-10VDC		L / N / PE, 0-10VDC

- 1) energy class for climate range medium / space heating
- 2) as per EN 9614-2 and EN 12102
- 3) sound pressure = free field value
- 4) Continuous heating operation and design range max. +55 °C; +60 °C with source temperature between -3 °C and +15 °C and reduced power range
- 5) 65 °C at max. return temperature 50 °C and reduced power range
- 6) max. current consumption per pump 2 A

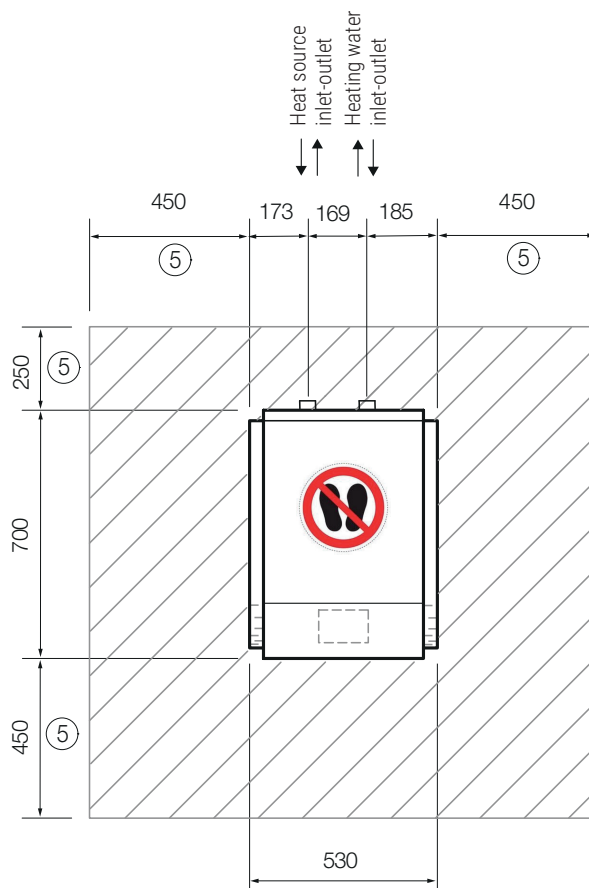
Observe local conditions and regulations.

Dimension drawings Optiheat Inverta Economy

OHI 9e to OHI 17e with controller Optiplus 3



Layout

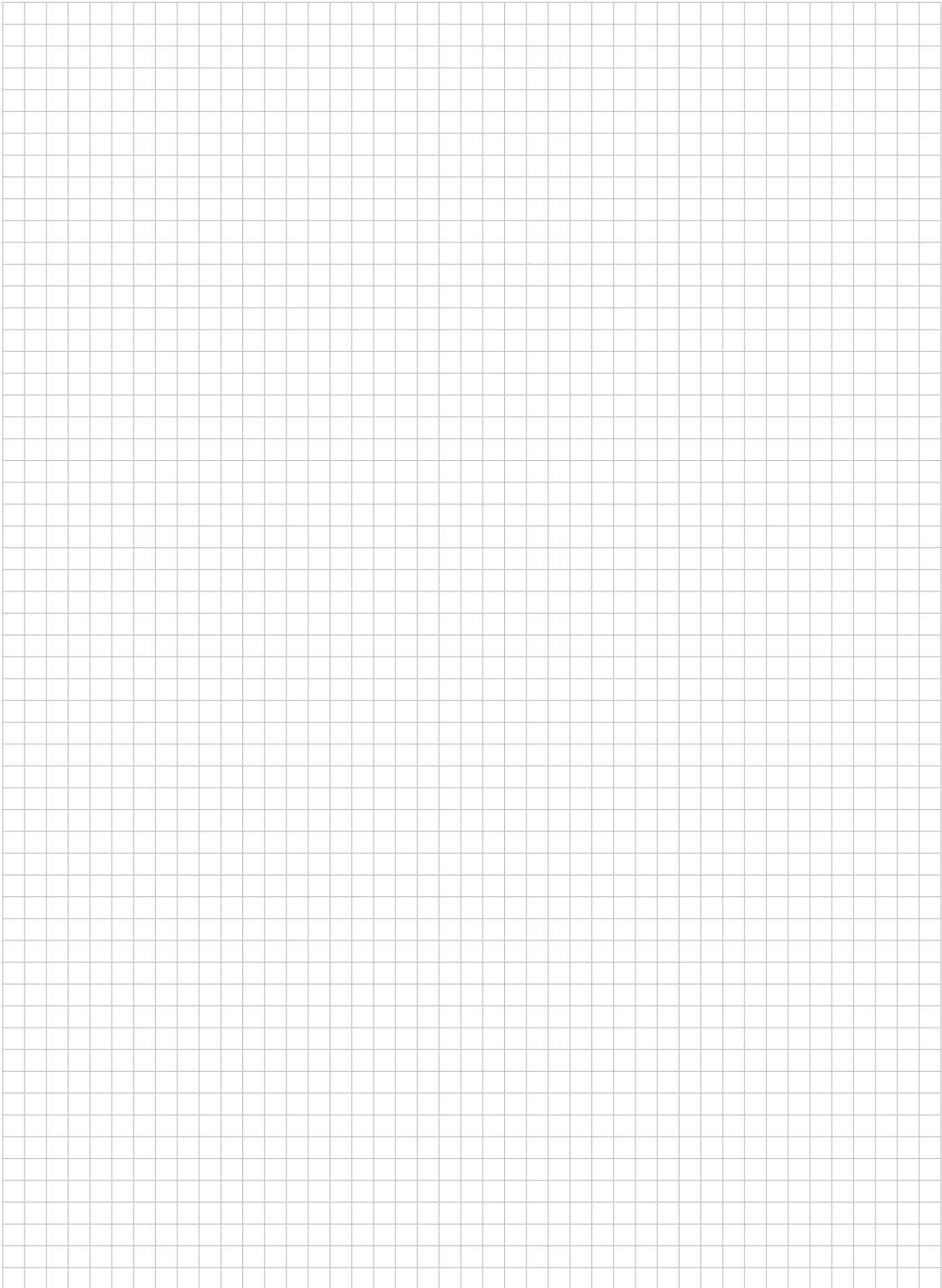


Legend

- 1 Heating water outlet
- 2 Heating water inlet
- 3 Heat source outlet
- 4 Heat source inlet
- 5 Minimum distances

All dimensions are in mm

The external sensor (QAC 34/101) and the documents are enclosed in the electric panel.



Power curves

Optiheat Inverta Economy

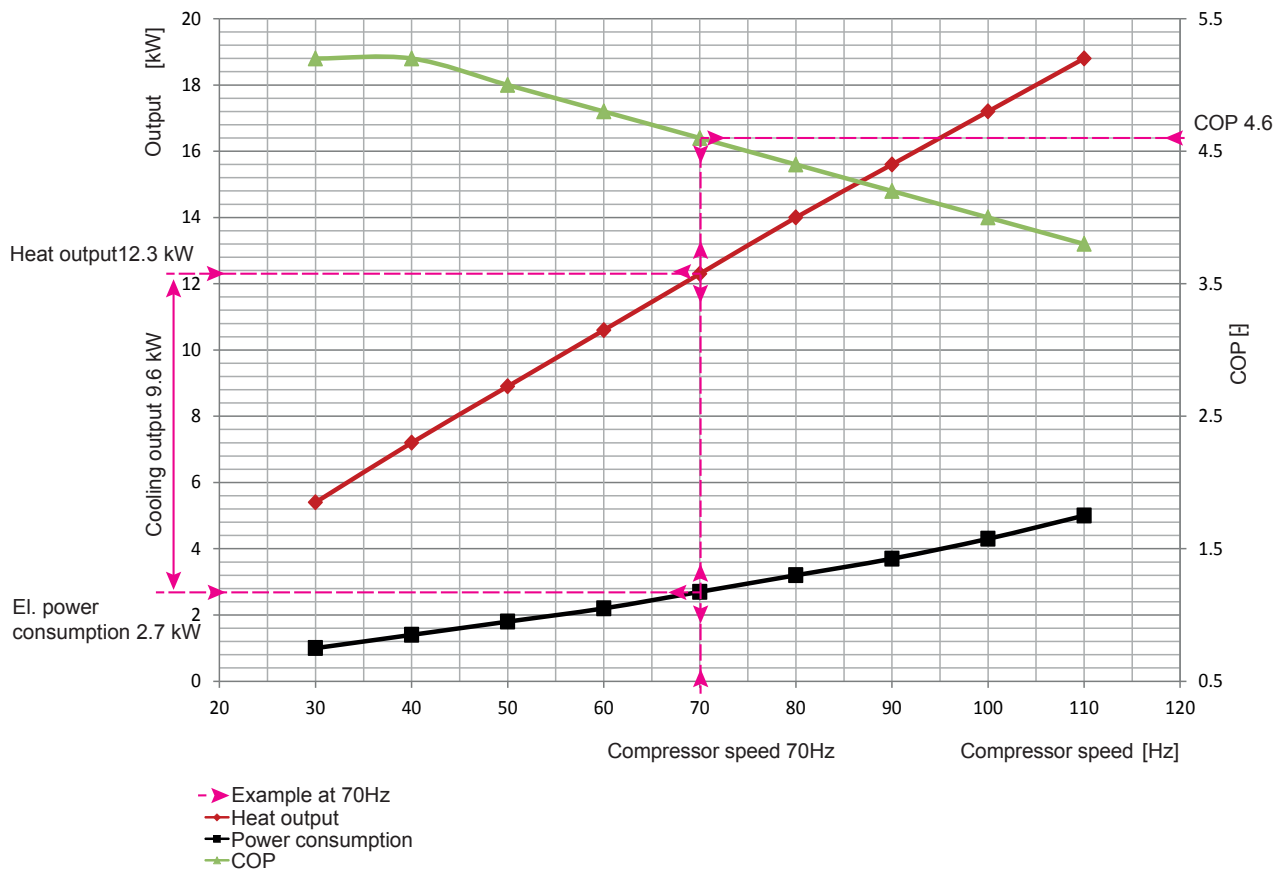
OHI 9e brine/water with controller Optiplus 3

Volume flow source minimum / nominal (ΔT 3K EN 14511) / maximum 1.0 / 2.2 / 4.2 m³/h

Volume flow heater minimum / nominal (ΔT 5K EN 14511) / maximum 0.4 / 1.5 / 3.0 m³/h

Performance specifications as per EN 14511

Heat output in kW at B0/W35

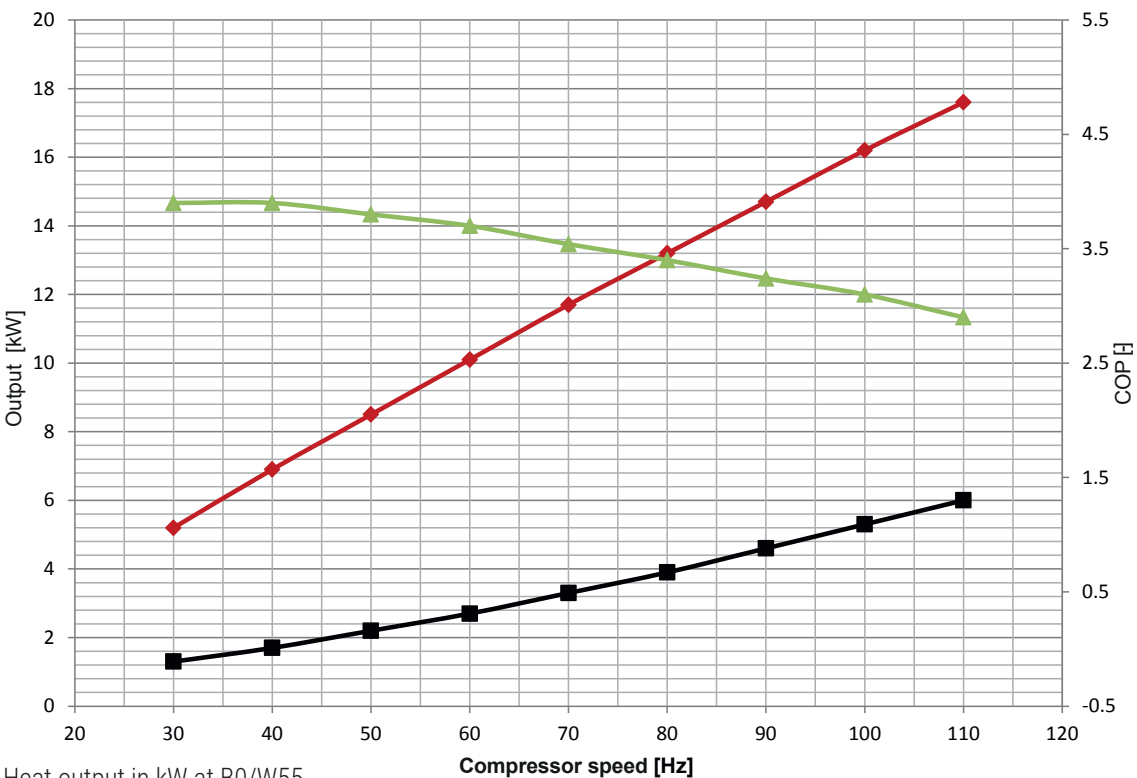


Power curves

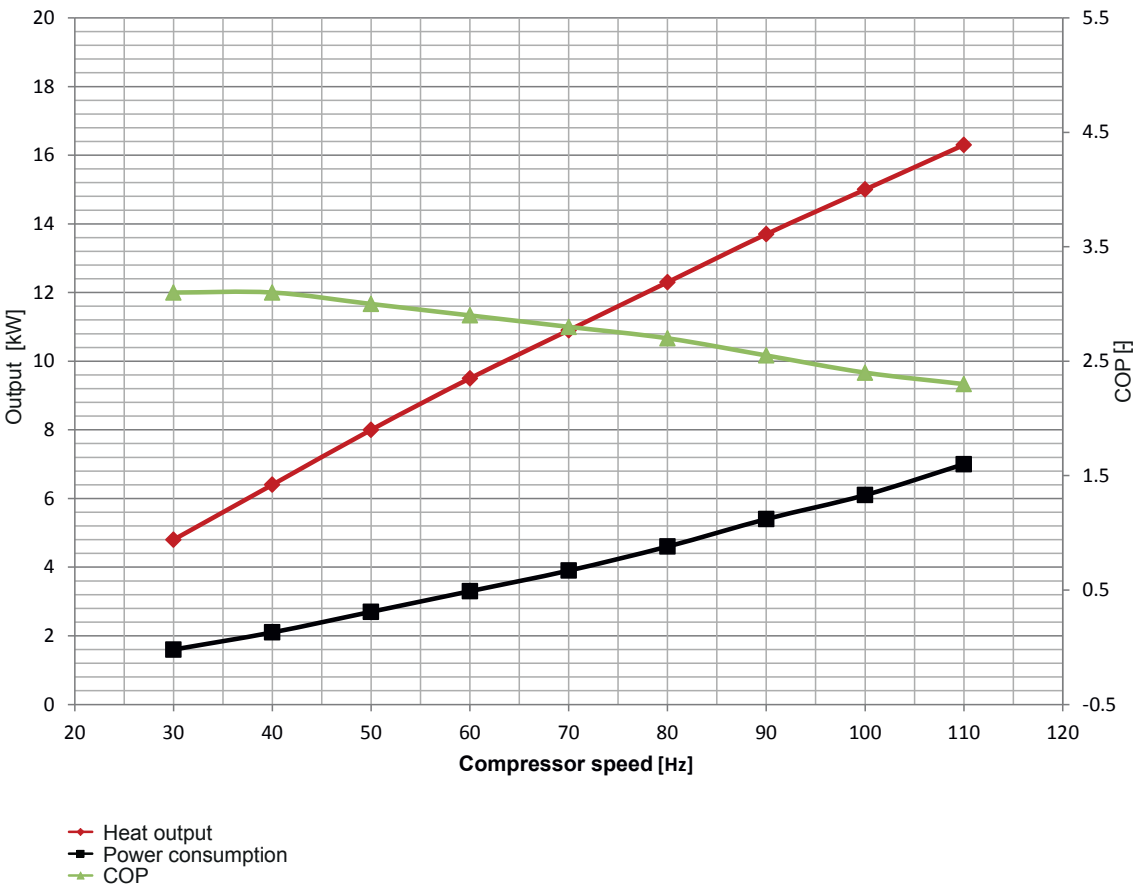
Optiheat Inverta Economy

OHI 9e brine/water with controller Optiplus 3

Heat output in kW at B0/W45



Heat output in kW at B0/W55



Power curves

Optiheat Inverta Economy

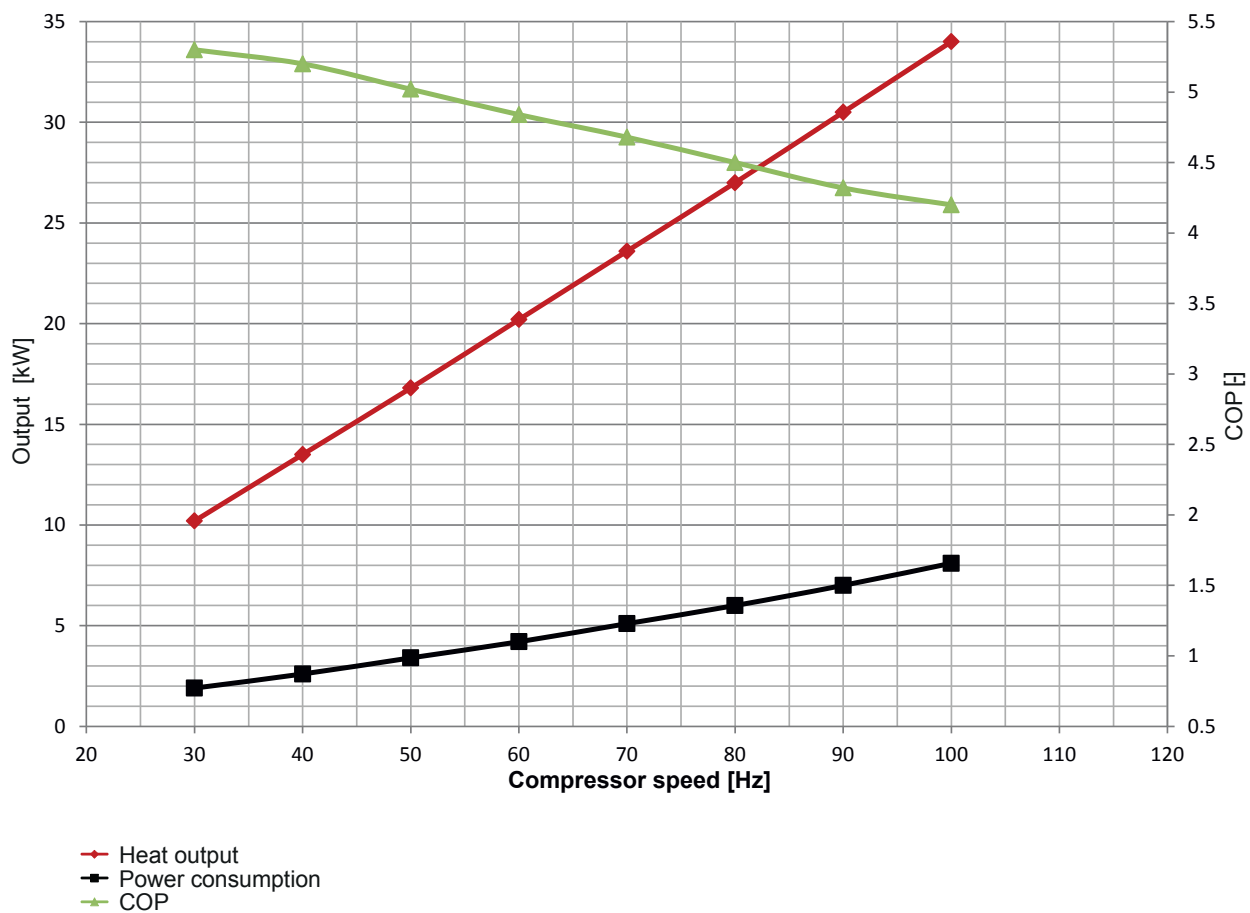
OHI 17e brine/water with controller Optiplus 3

Volume flow source minimum / nominal (ΔT 3K EN 14511) / maximum 2.0 / 4.4 / 8.4 m³/h

Volume flow heater minimum / nominal (ΔT 5K EN 14511) / maximum 0.9 / 2.9 / 5.9 m³/h

Performance specifications as per EN 14511

Heat output in kW at B0/W35

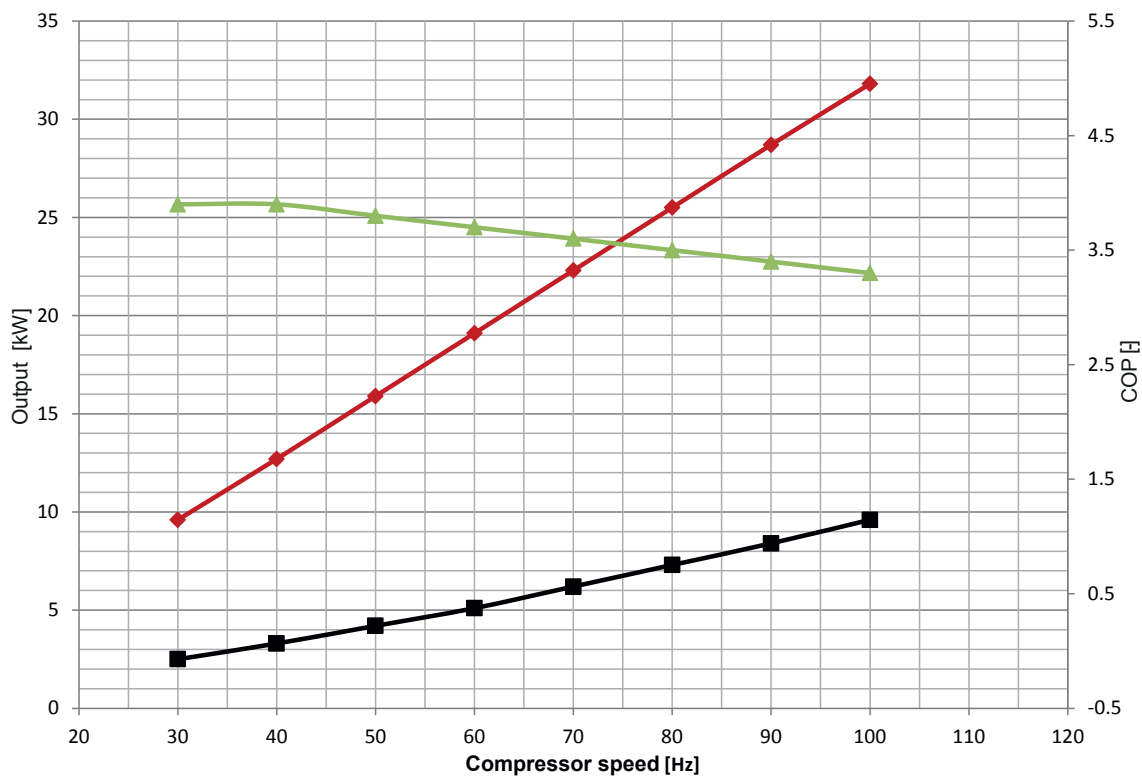


Power curves

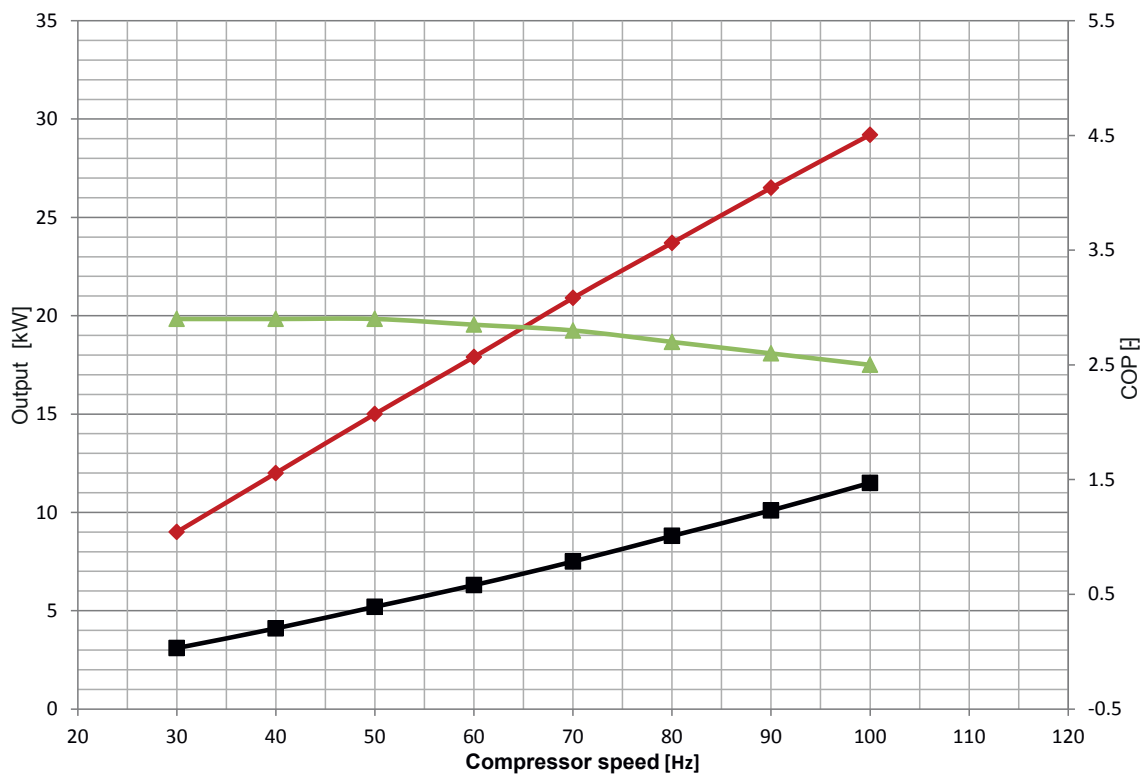
Optiheat Inverta Economy

OHI 17e brine/water with controller Optiplus 3

Heat output in kW at B0/W45



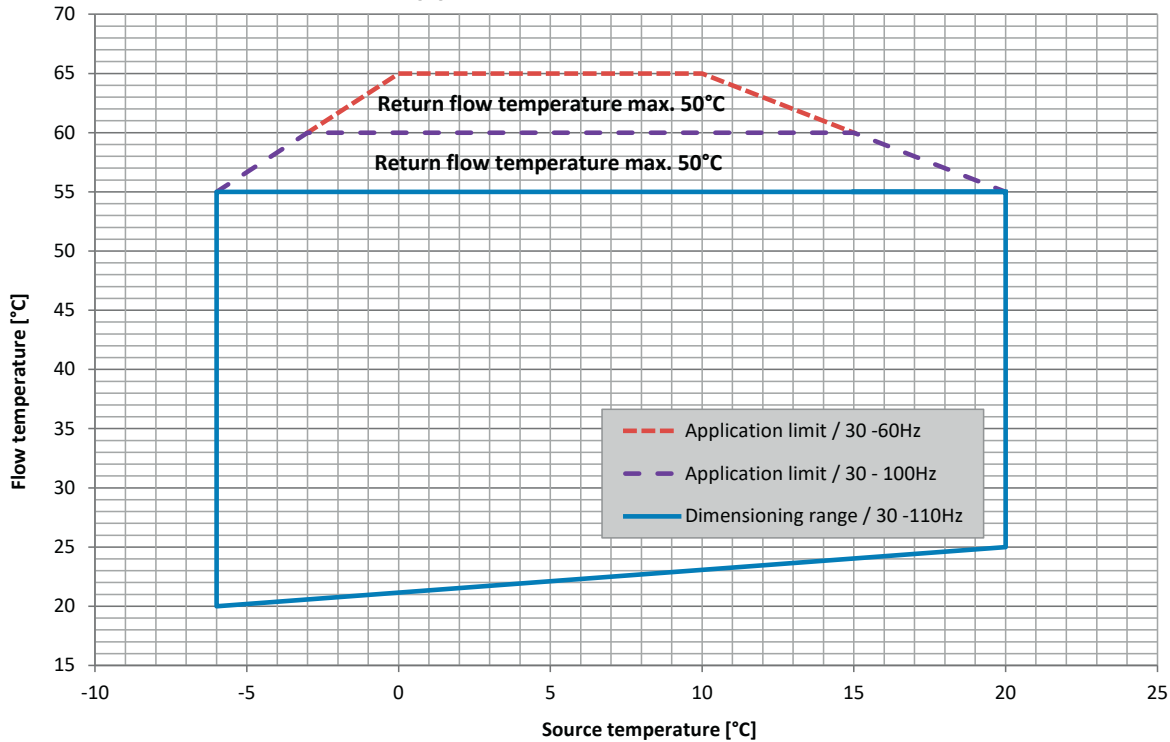
Heat output in kW at B0/W55



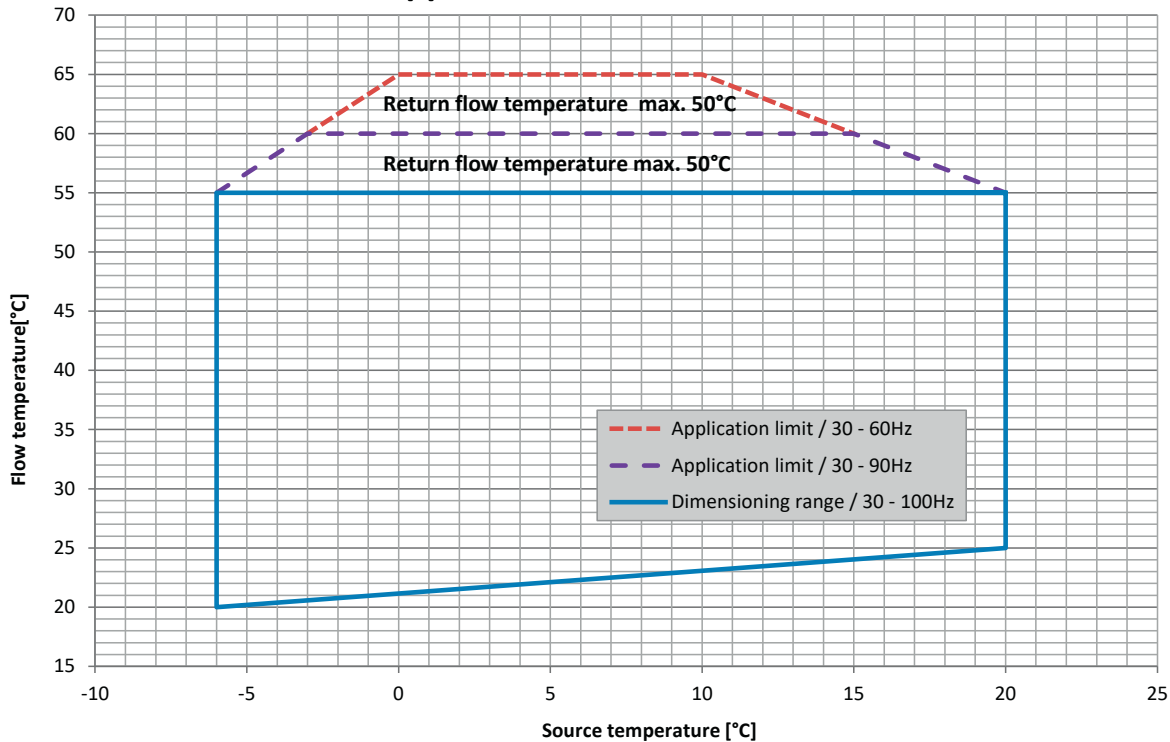
◆ Heat output
 ■ Power consumption
 ▲ COP

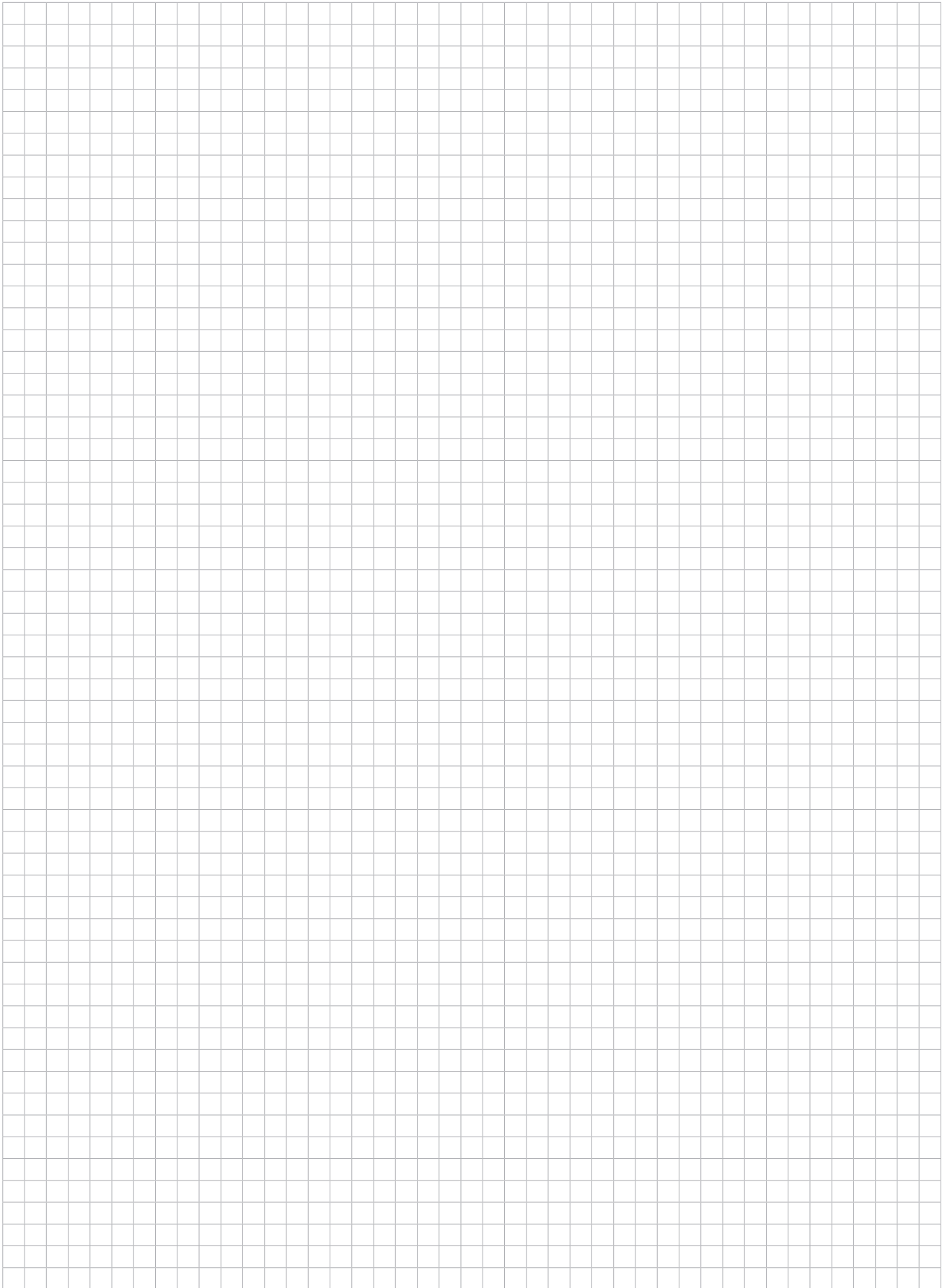
Application limits
Optiheat Inverta Economy

Application limits OHI 9e



Application limits OHI 17e



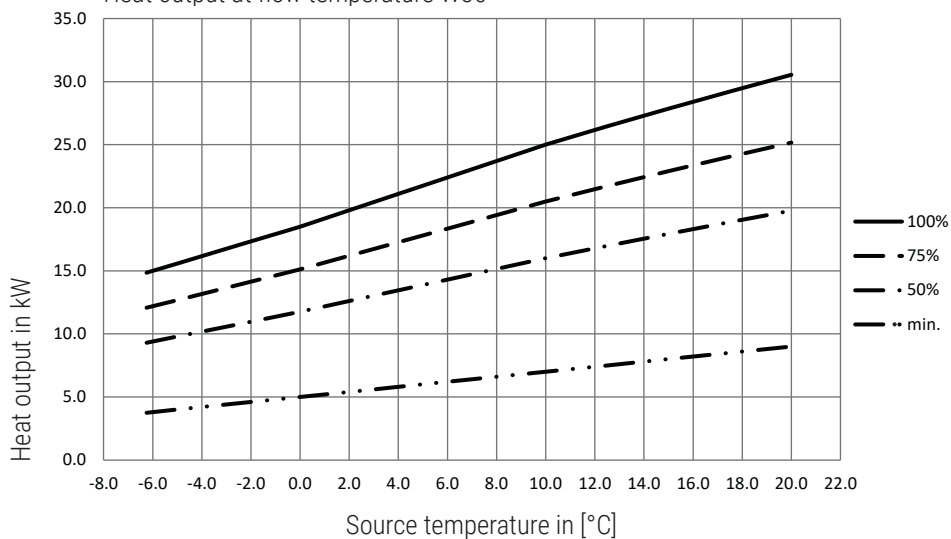


Heat output

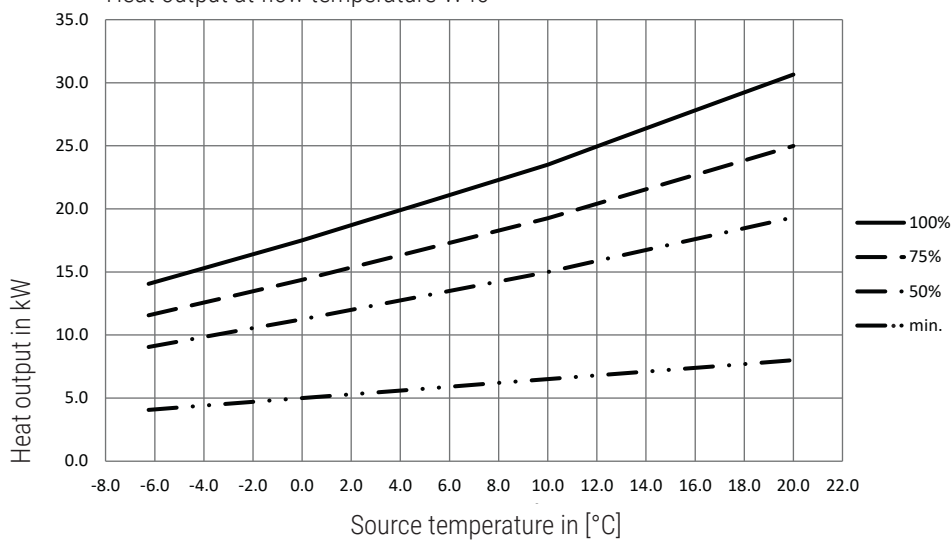
Optiheat Inverta Economy

OHI 9e brine/water with controller Optiplus 3

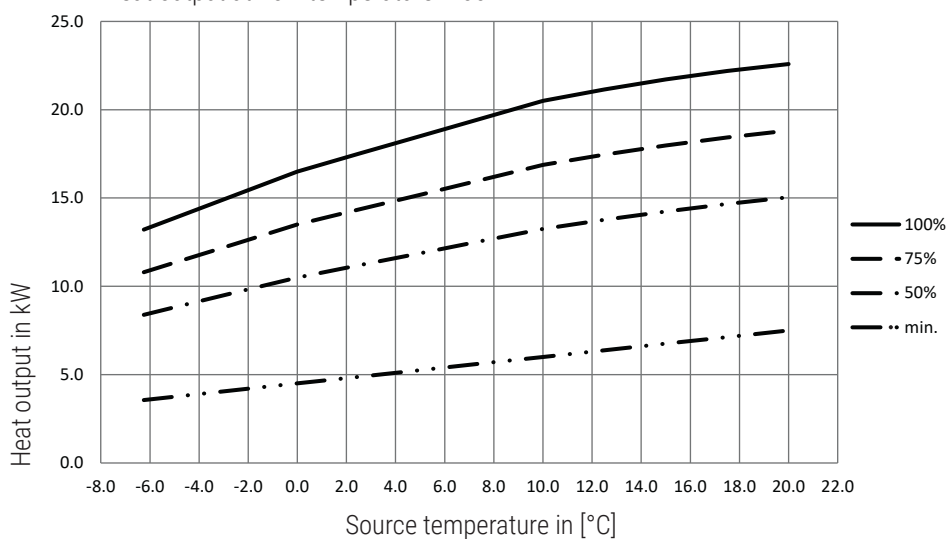
Heat output at flow temperature W35



Heat output at flow temperature W45



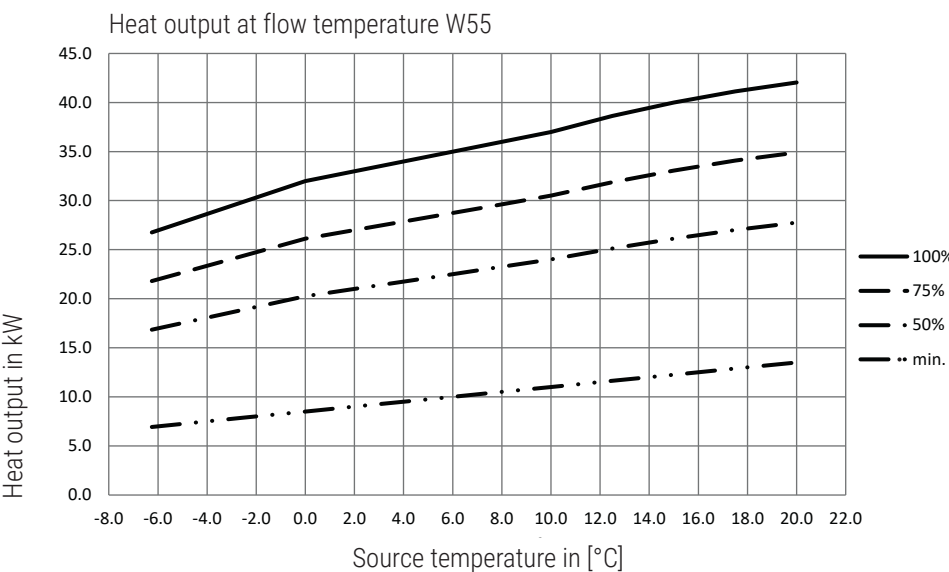
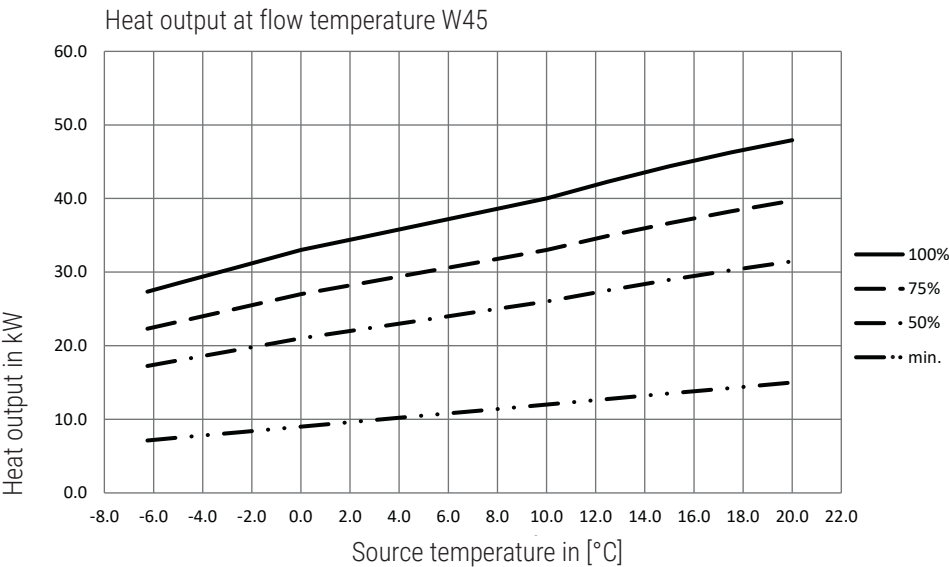
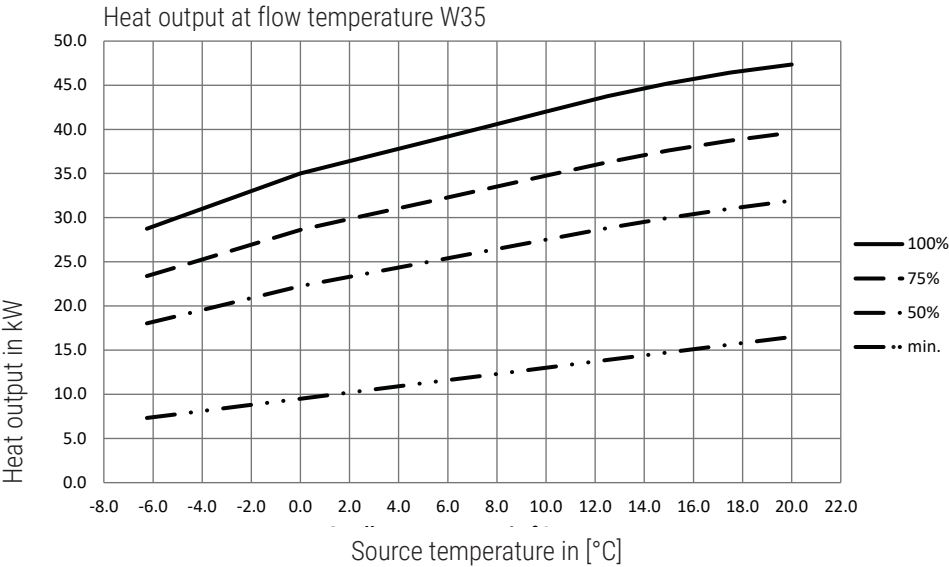
Heat output at flow temperature W55



Heat output

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OHI 17e brine/water with controller Optiplus 3

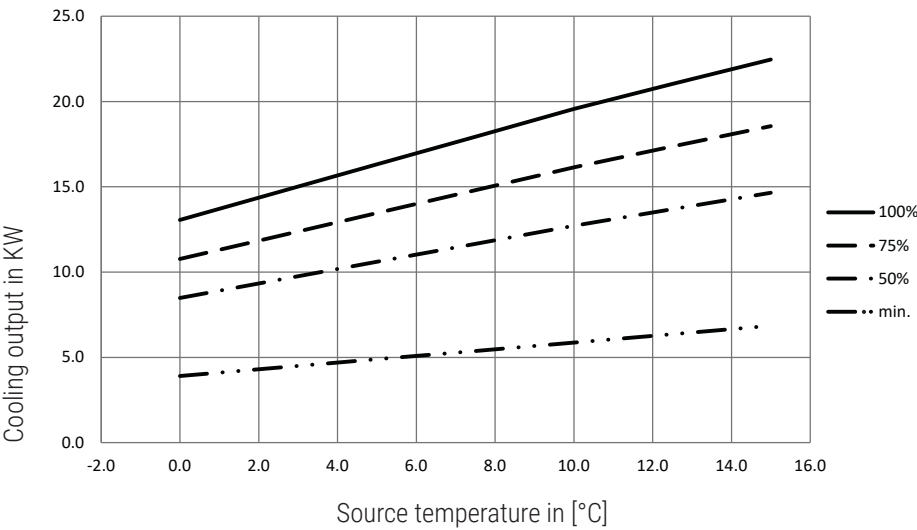


Cooling output

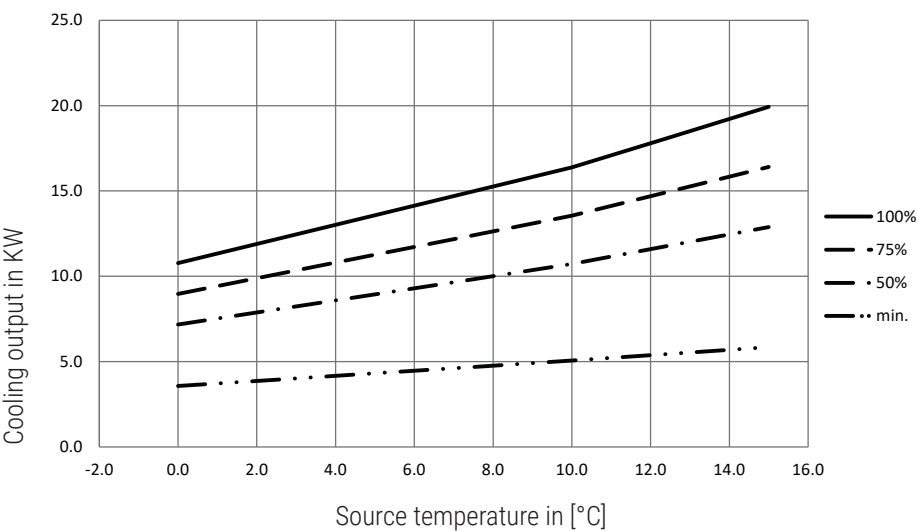
Optiheat Inverta Economy

OHI 9e brine/water with controller Optiplus 3

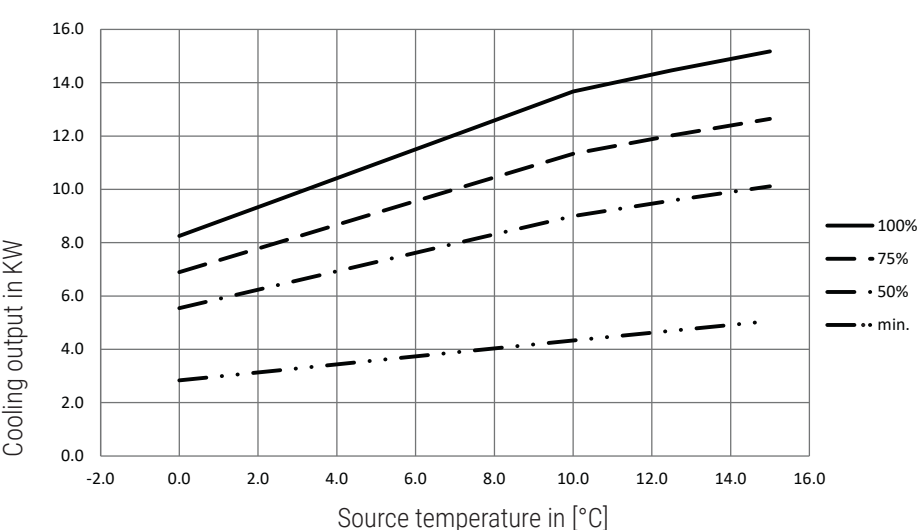
Cooling output at flow temperature W35



Cooling output at flow temperature W45



Cooling output at flow temperature W55

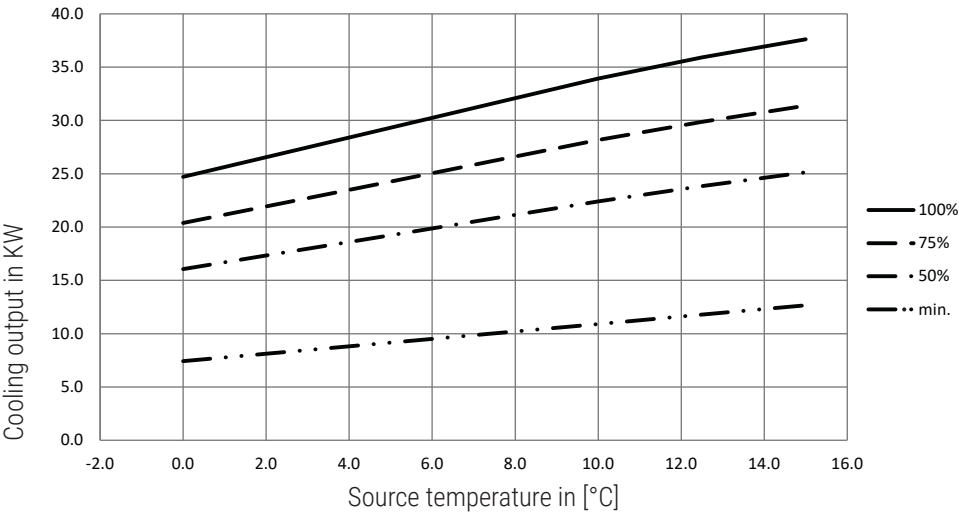


Cooling output

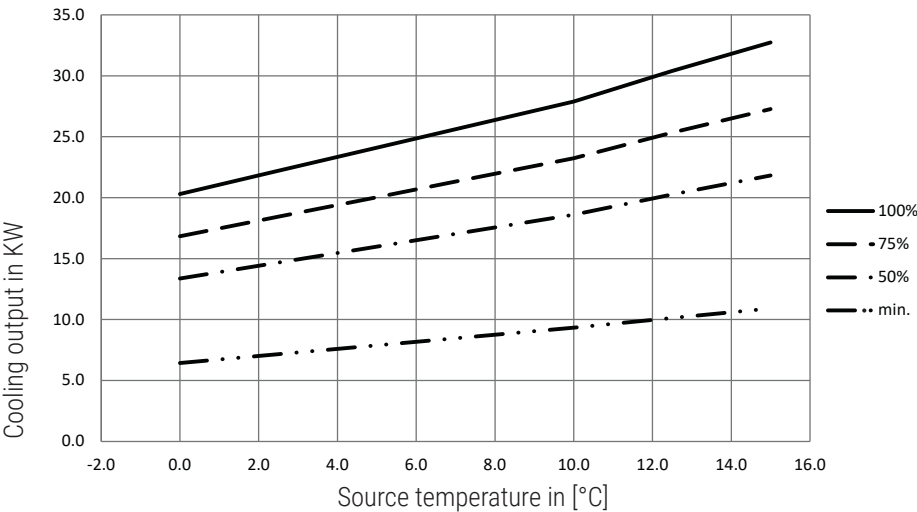
Optiheat Inverta Economy

OHI 17e brine/water with controller Optiplus 3

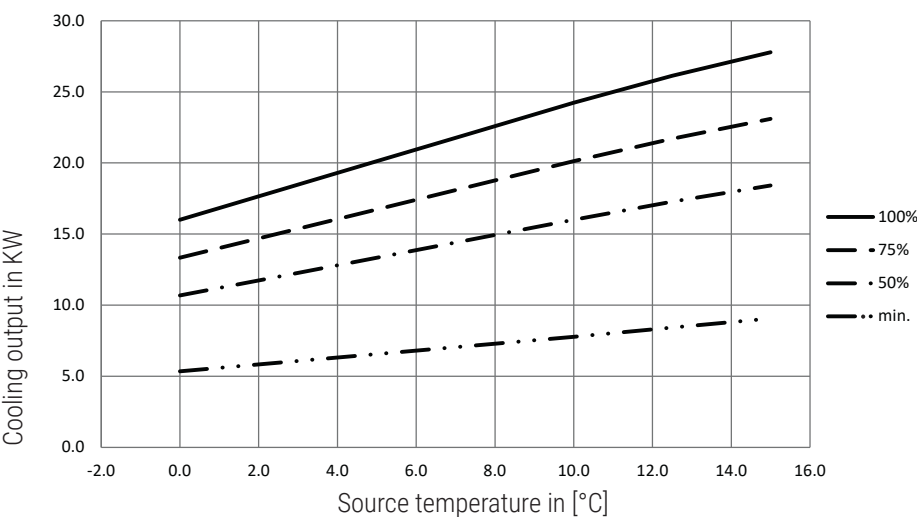
Cooling output at flow temperature W35



Cooling output at flow temperature W45

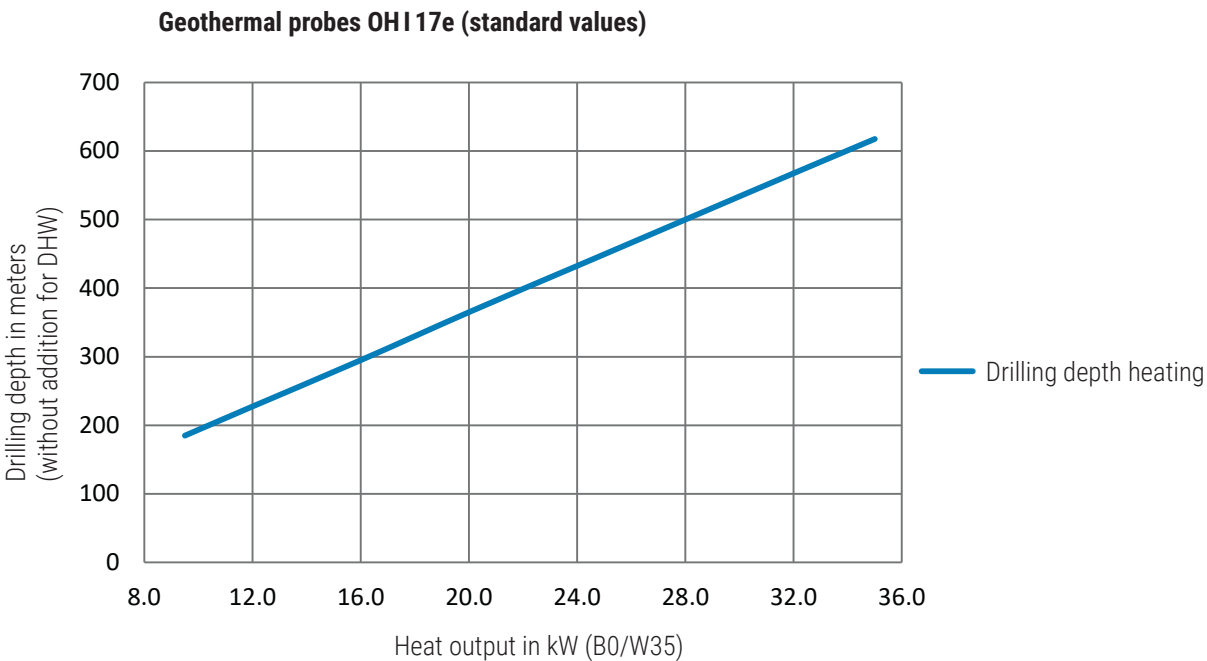
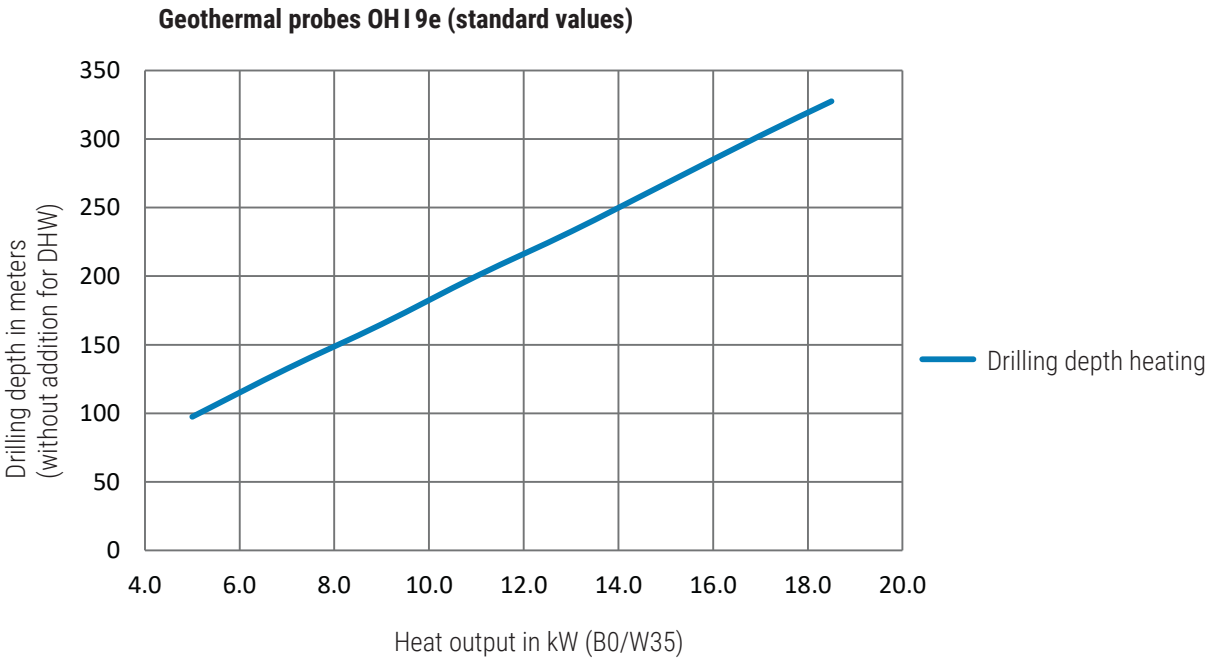


Cooling output at flow temperature W55



Standard values geothermal probes

Optiheat Inverta Economy



ADVICE Note on drilling depth: The geothermal probe surcharge for the hot water requirement per day is **not** included.
 Surcharge per 100 litres approx. 15 metres

Function description

Heat pump

Start the heat pump via the external temperature sensor B9. Depending on the hydraulic integration, this works directly on the buffer storage or directly in the heating circulation. Depending on the heat demand, the heat pump is switched on and off via the temperature sensors B4/B41 or B71.

The heat pump has a restart delay in order to prevent wobbling. In case of direct heat operation (e. g. underfloor heating), the condenser pump Q9 is in operation during the entire heating period.

DHW charging

DHW is charged according to the time program to the respective setpoint value. Charge is released via the temperature sensor B3, and the deflector valve Q3 is switched. The electrical heating element K6 in the DHW storage is released by the heat pump controller (further release necessary).

An external heat exchanger is used for DHW storage without internal register. Two additional temperature sensors B31 and B36 must be installed for controlling the intermediate circuit pump Q33.

Buffer storage

If a buffer storage is used in the hydraulic system, the heat generator side and consumer side are decoupled. The storage is used to bridge heat generator locks. The setpoint value of the storage is calculated by the maximum demand of the consumer groups.

Discharge control

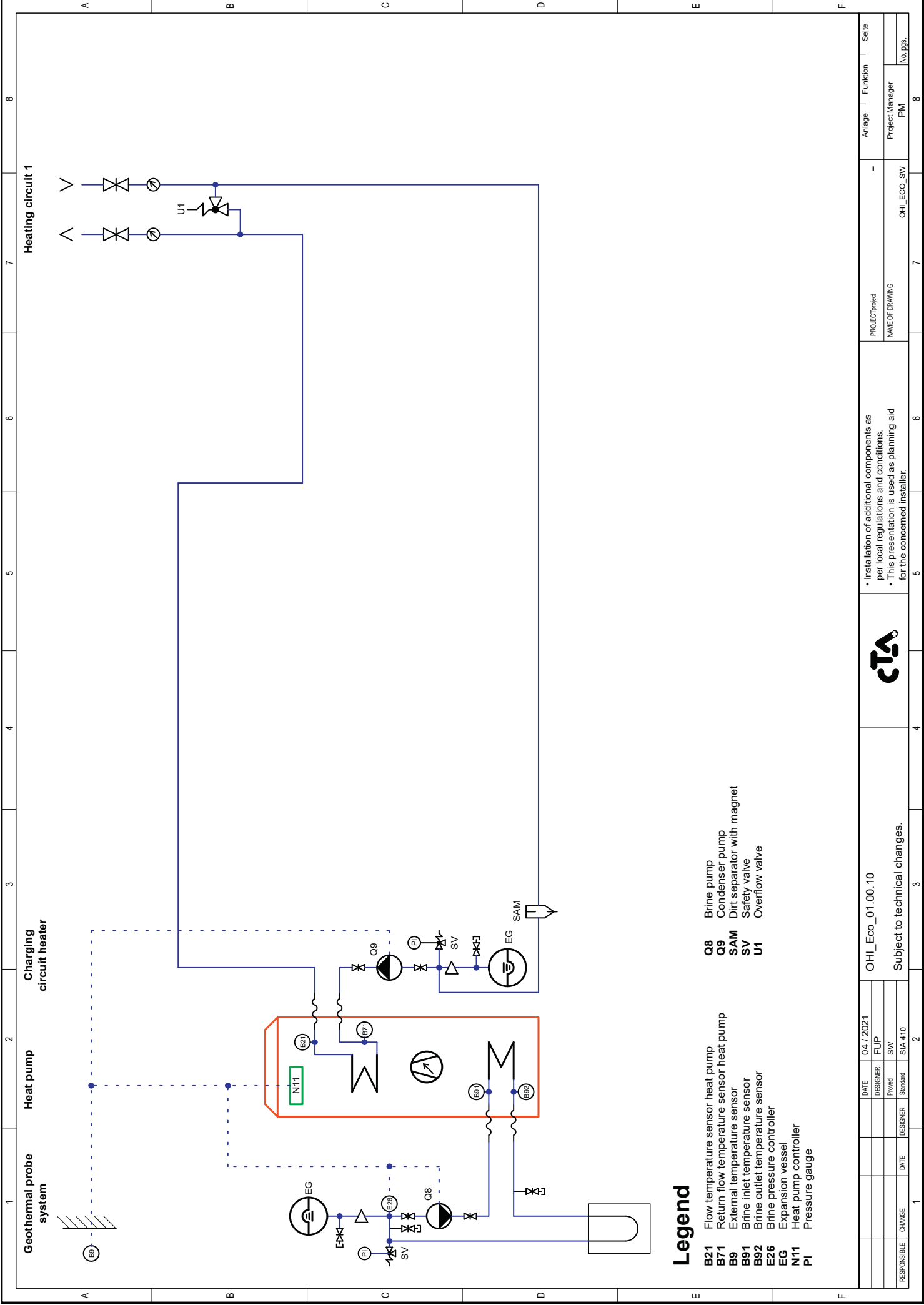
The setpoint value for the heating flow is calculated with the current outside temperature and the set heating curve. The discharge control adjusts the flow temperature B1 with the mixing valve Y1 to this setpoint value. The discharge pump Q2 is in operation during the entire heating period.

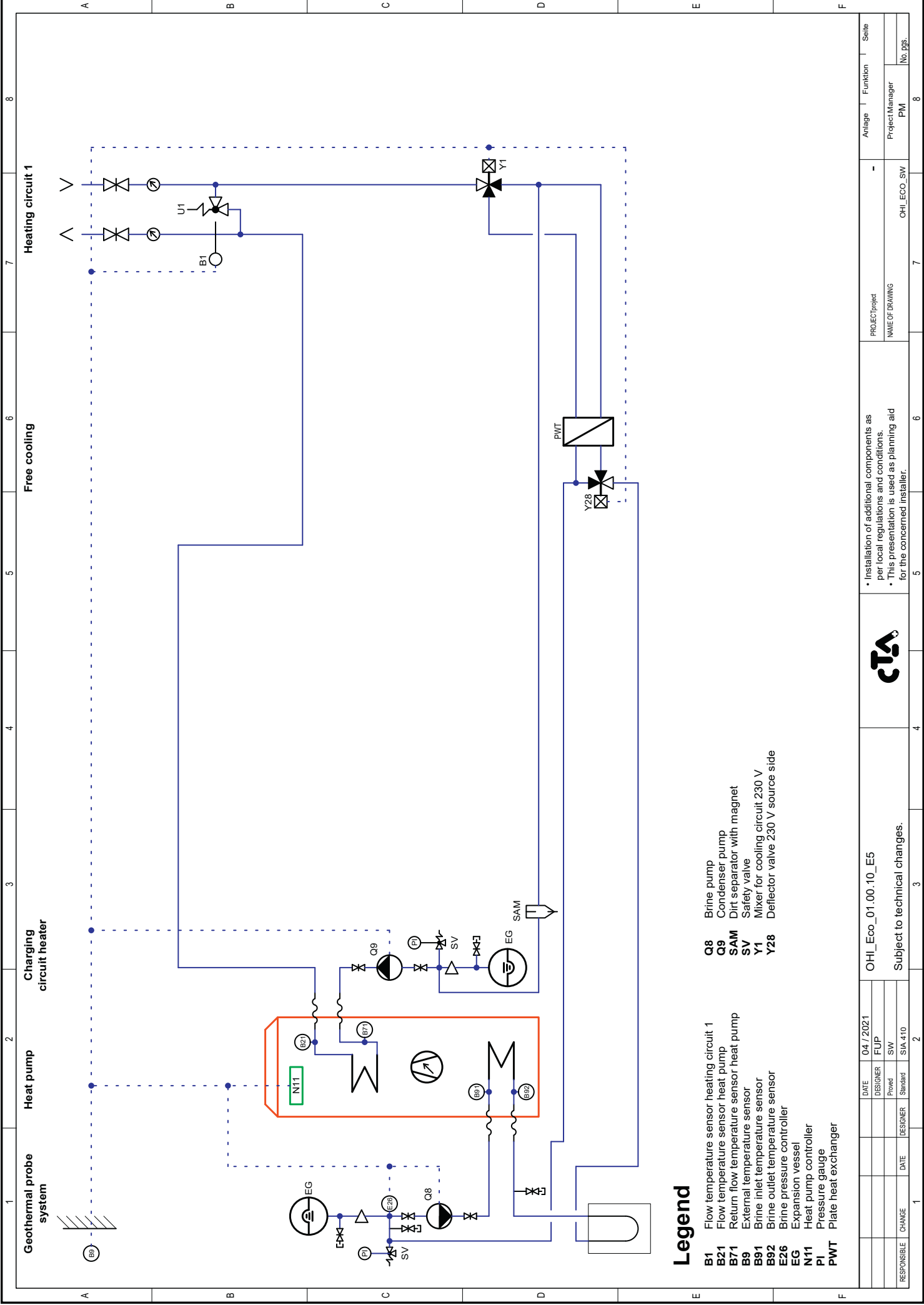
Free cooling

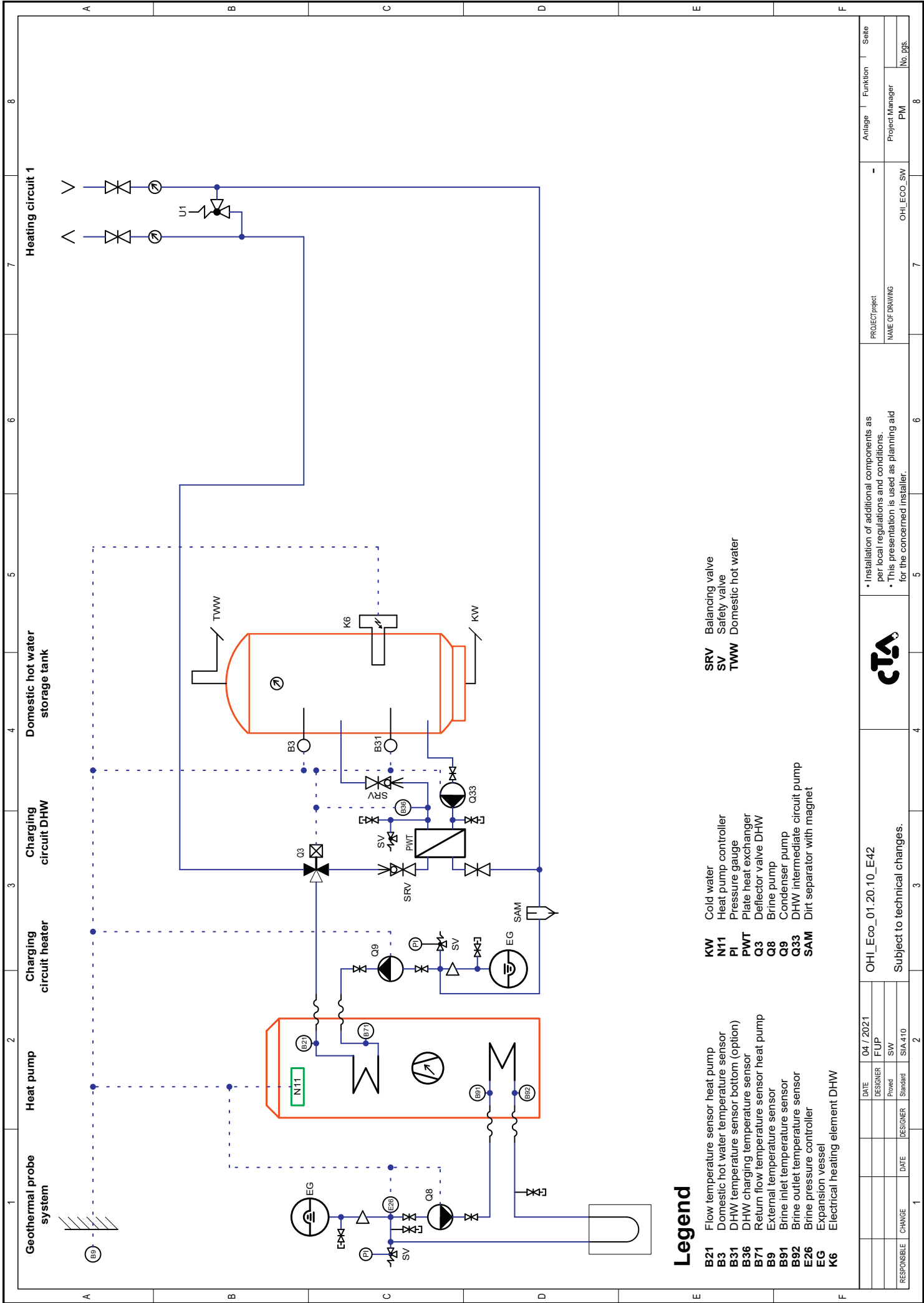
For passive cooling, cooling is done without operating a cooling generator. Heat is returned to the connected source (soil sensor or ground water).

For cooling requirement, the source circuit is controlled by means of the deflector valves Y28 and Y21 (in case of mixed discharge group) via the plate heat exchanger (PWT).

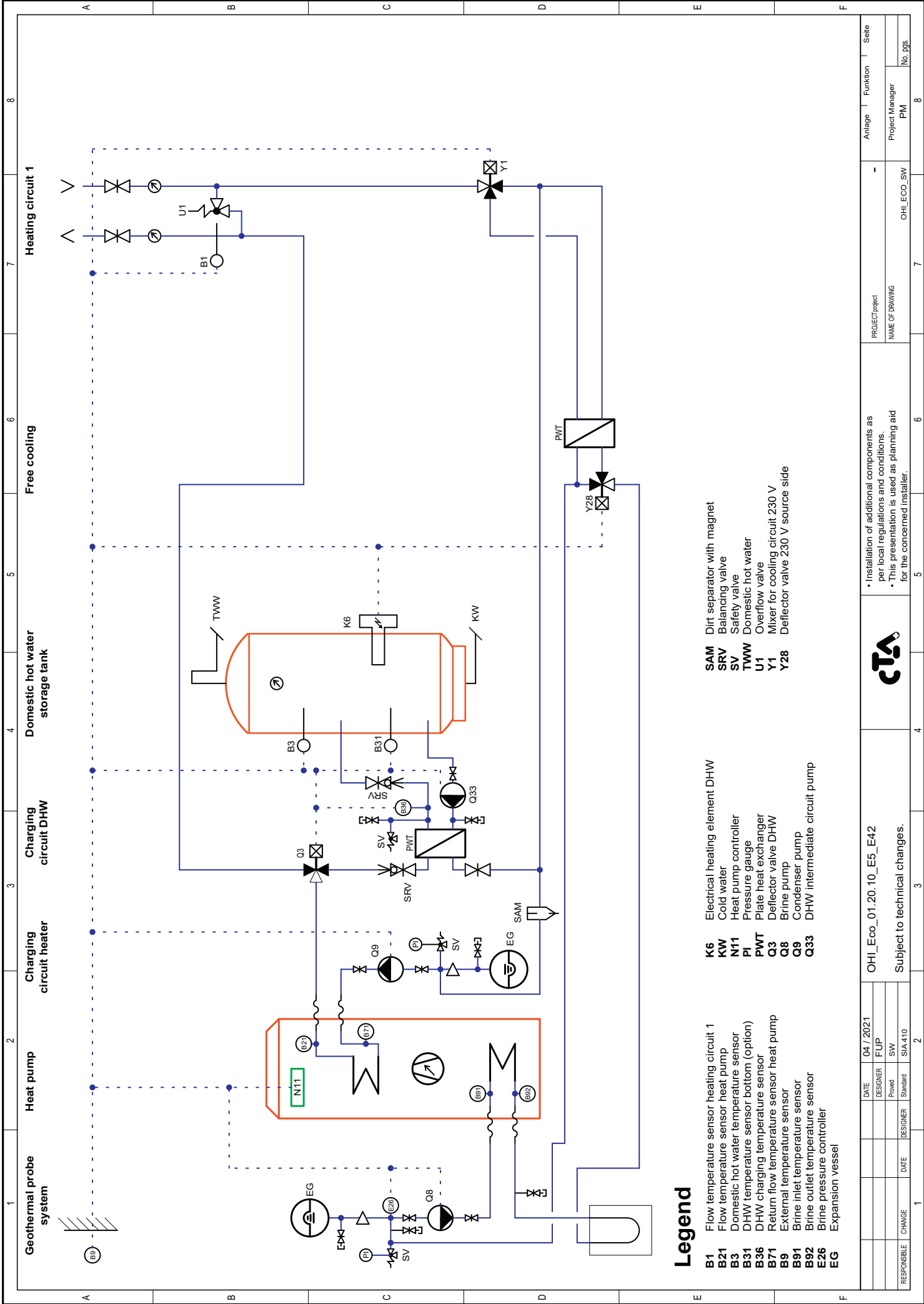
The heat pump controller runs a cooling curve via the external temperature B9, this is controlled with the mixer Y1 and the flow temperature B1. For available room thermostat valves, these must be adaptable for the cooling as well as the heating operation.

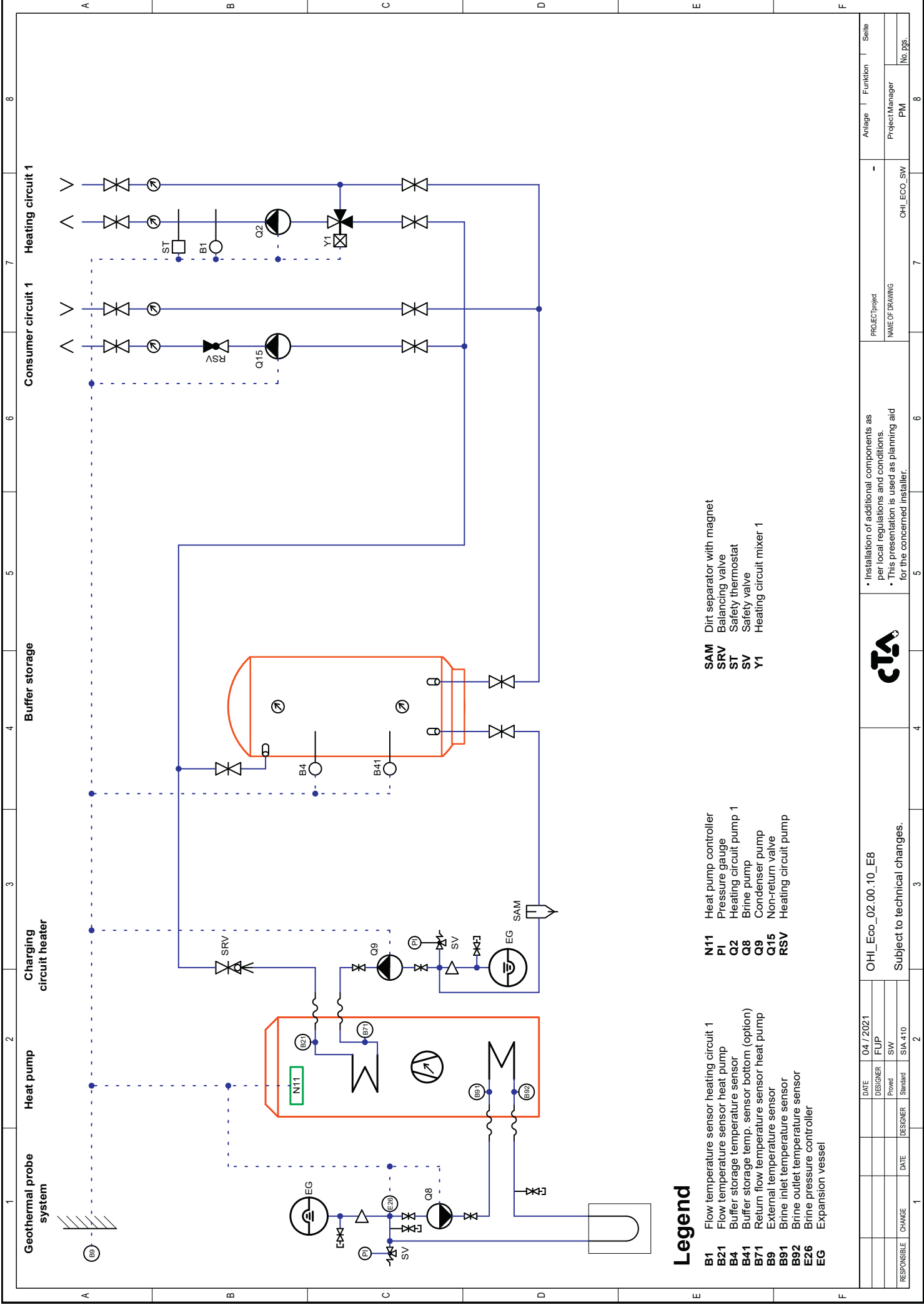






		DATE	04 / 2021	OHI_Eco_01.20.10_E42		CTA		Installation of additional components as per local regulations and conditions. • This presentation is used as planning aid for the concerned installer.		PROJECT project	ANLAGE	FUNKTION	Seite
		DESIGNER	FUP							NAME OF DRAWING	Project Manager		
		PROVED	SW							OHI_ECO_SW	PM		
		DATE	DESIGNER	Standard	SIA 410								No. pgs.
		CHANGE											8

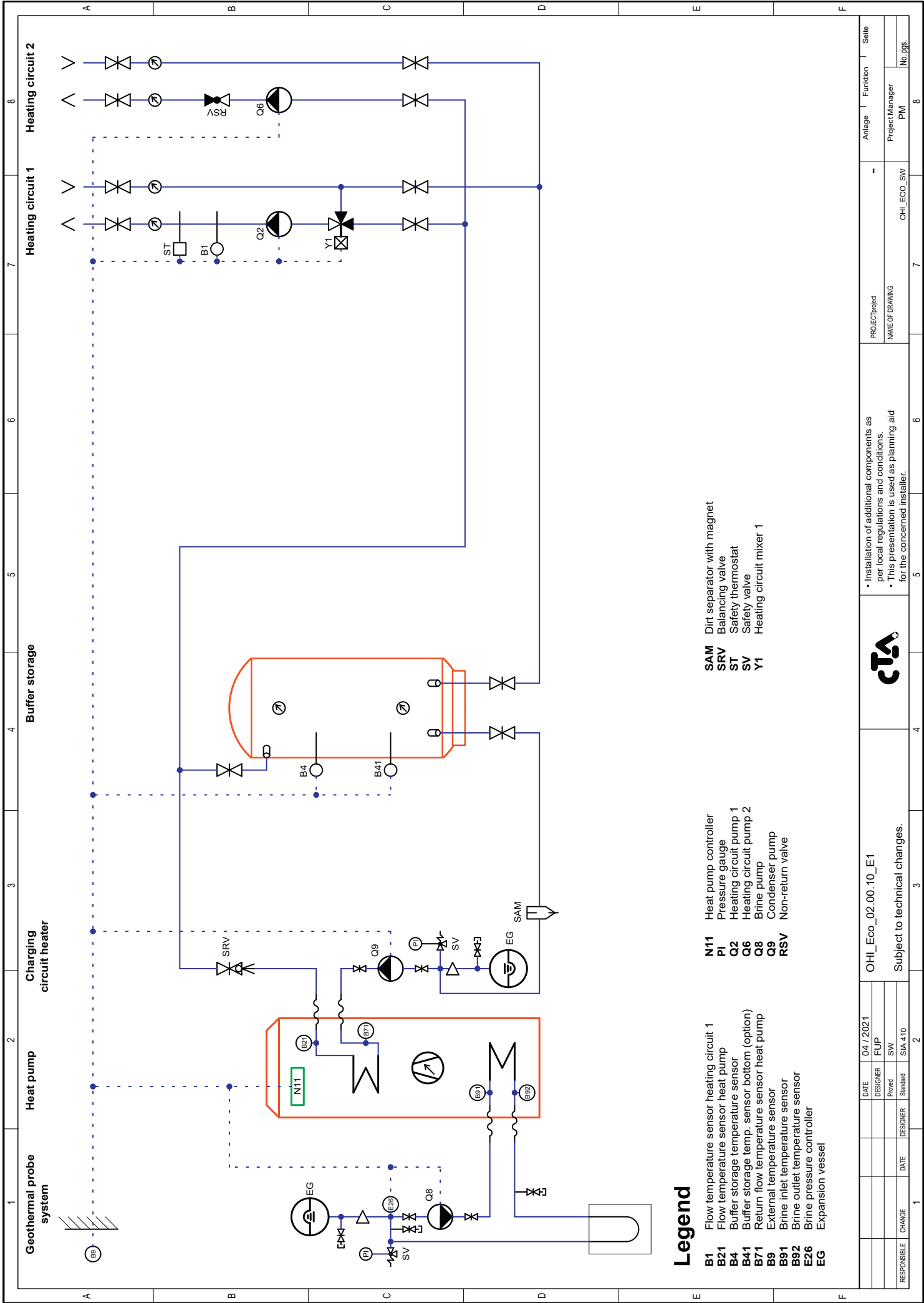


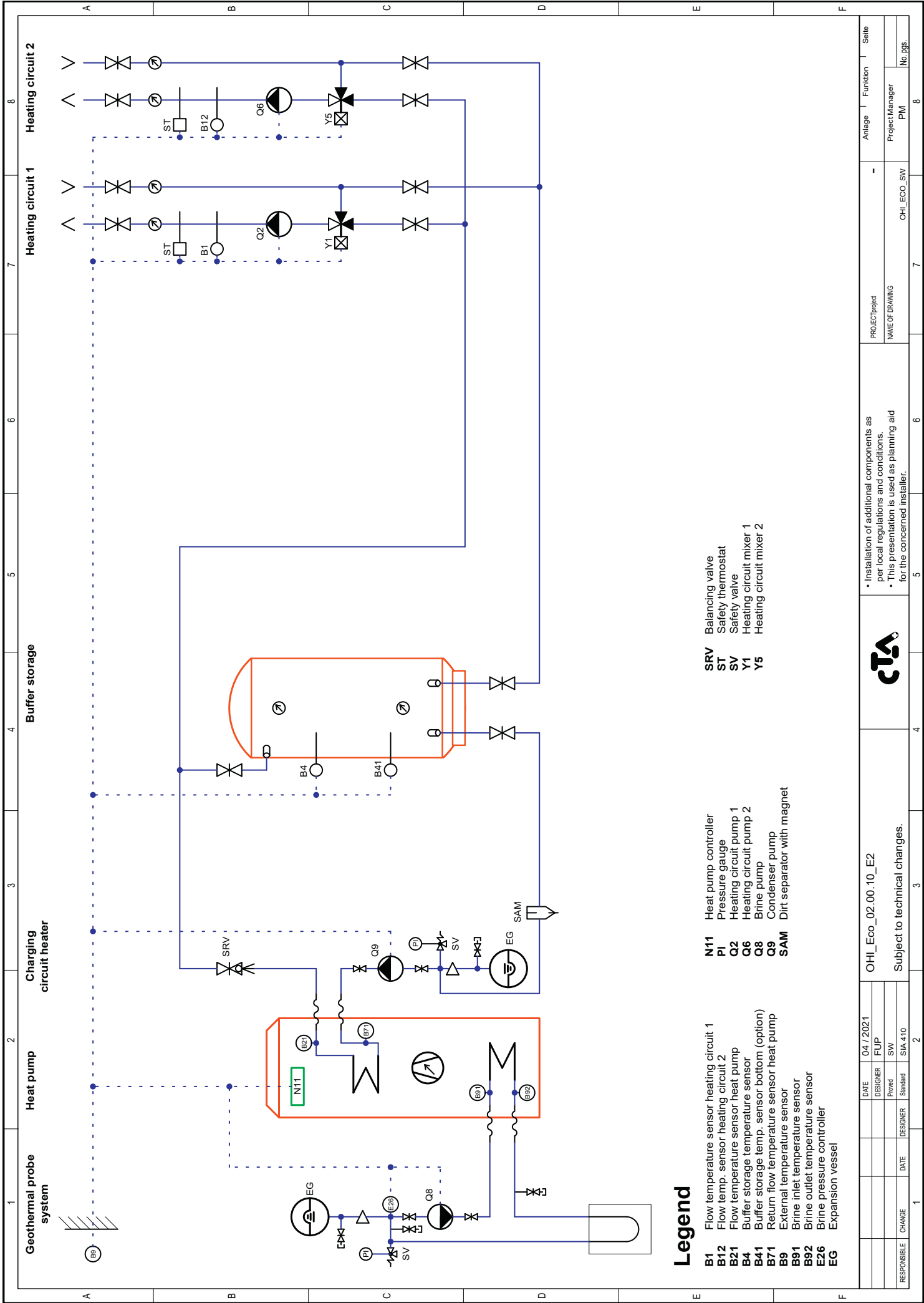


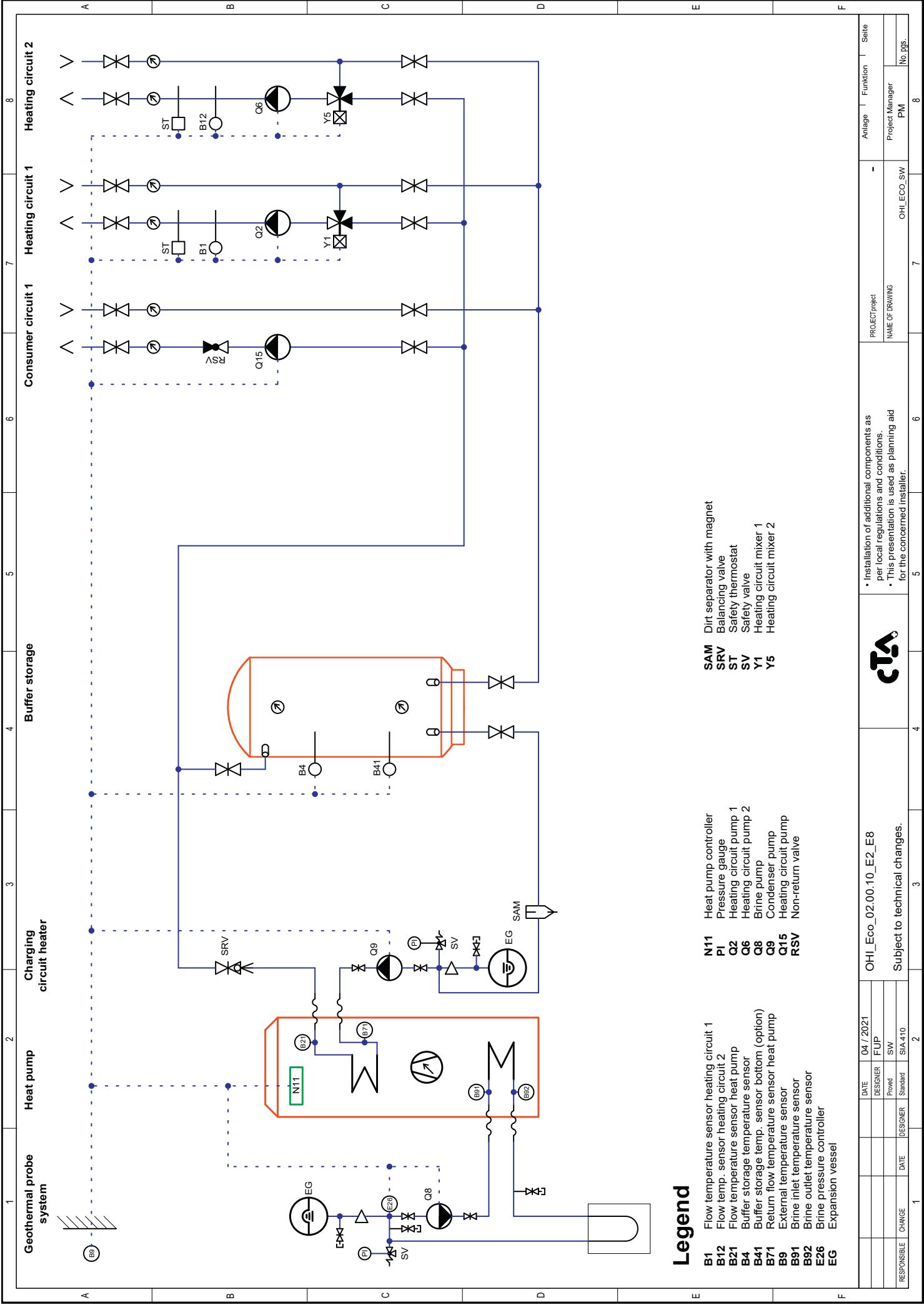
Legend

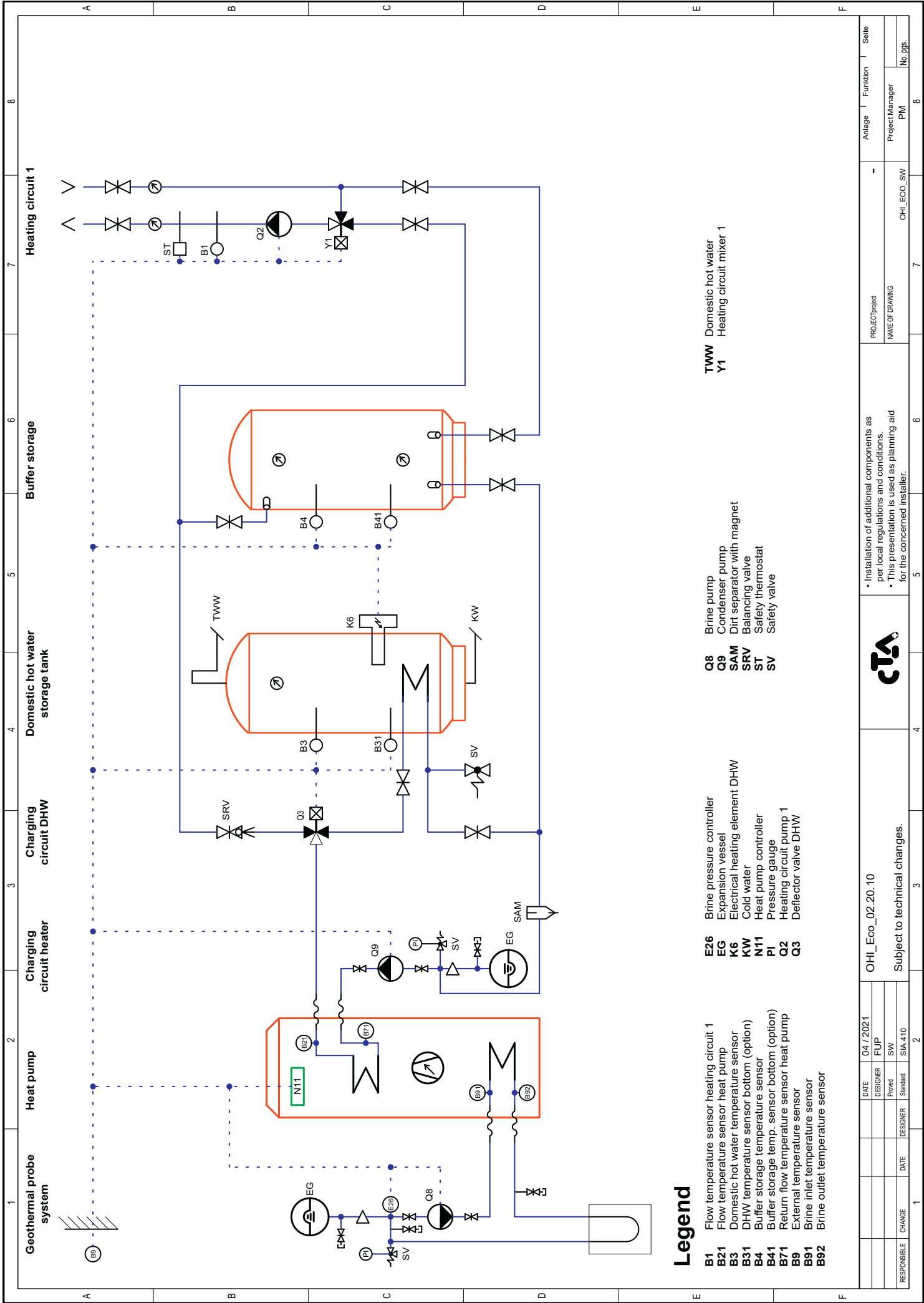
- B1** Flow temperature sensor heating circuit 1
- B21** Flow temperature sensor heat pump
- B4** Buffer storage temperature sensor
- B41** Buffer storage temp. sensor bottom (option)
- B71** Return flow temperature sensor heat pump
- B9** External temperature sensor
- B91** Brine inlet temperature sensor
- B92** Brine outlet temperature sensor
- E26** Brine pressure controller
- EG** Expansion vessel
- N11** Heat pump controller
- PI** Pressure gauge
- Q2** Heating circuit pump 1
- Q8** Brine pump
- Q9** Condenser pump
- Q15** Non-return valve
- RSV** Heating circuit pump
- SAM** Dirt separator with magnet
- SRV** Balancing valve
- ST** Safety thermostat
- SV** Safety valve
- Y1** Heating circuit mixer 1

RESPONSIBLE		CHANGE	DATE	DESIGNER	Standard	SIA 410	OHI_Eco_02.00.10_E8		Subject to technical changes.		CTA		• Installation of additional components as per local regulations and conditions. • This presentation is used as planning aid for the concerned installer.		PROJECT/project	NAME OF DRAWING	Project Manager	PM	Seite
																			8

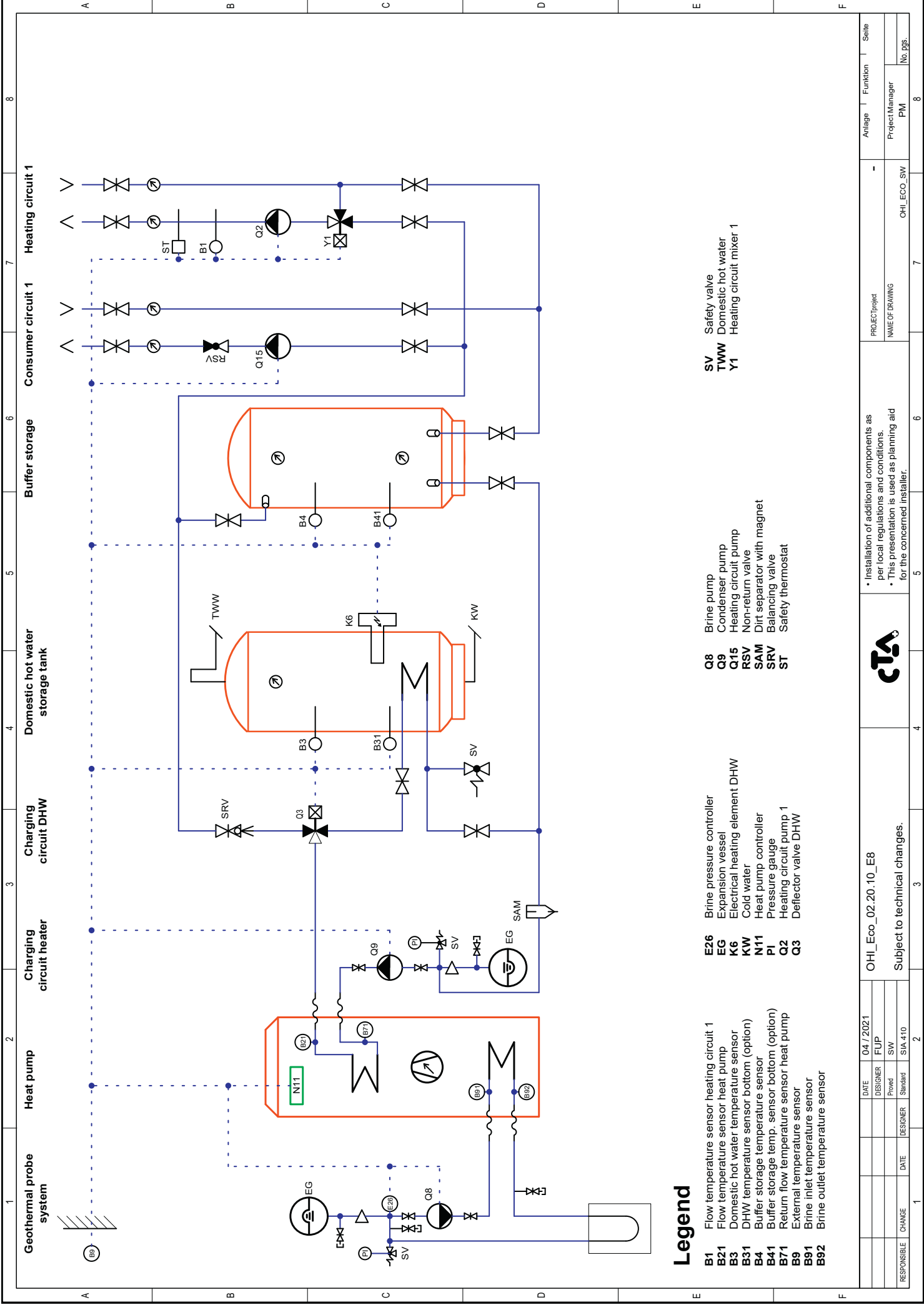








				DATE		O4 / 2021		OHl_Eco_02.20.10				• Installation of additional components as per local regulations and conditions. • This presentation is used as planning aid for the concerned installer.		PROJECT		Anlage		Funktion		Seite	
				DESIGNER		FUP								NAME OF DRAWING		Project Manager					
						SW										OHL_ECO_SW					
RESPONSIBLE		CHANGE		DATE		DESIGNER		SIA 410		Standard		Subject to technical changes.								No. pgs.	
1						2		3		4		5		6		7				8	



Legend

- B1

Flow temperature sensor heating circuit 1
- B21

Flow temperature sensor heat pump
- B3

Domestic hot water temperature sensor
- B31

DHW temperature sensor bottom (option)
- B4

Buffer storage temperature sensor
- B41

Buffer storage temp. sensor bottom (option)
- B71

Return flow temperature sensor heat pump
- B9

External temperature sensor
- B91

Brine inlet temperature sensor
- B92

Brine outlet temperature sensor
- E26

Brine pressure controller
- EG

Expansion vessel
- K6

Electrical heating element DHW
- KW

Cold water
- N11

Heat pump controller
- PI

Pressure gauge
- Q2

Heating circuit pump 1
- Q3

Deflector valve DHW
- Q8

Brine pump
- Q9

Condenser pump
- Q15

Heating circuit pump
- RSV

Non-return valve
- SAM

Dirt separator with magnet
- SRV

Balancing valve
- ST

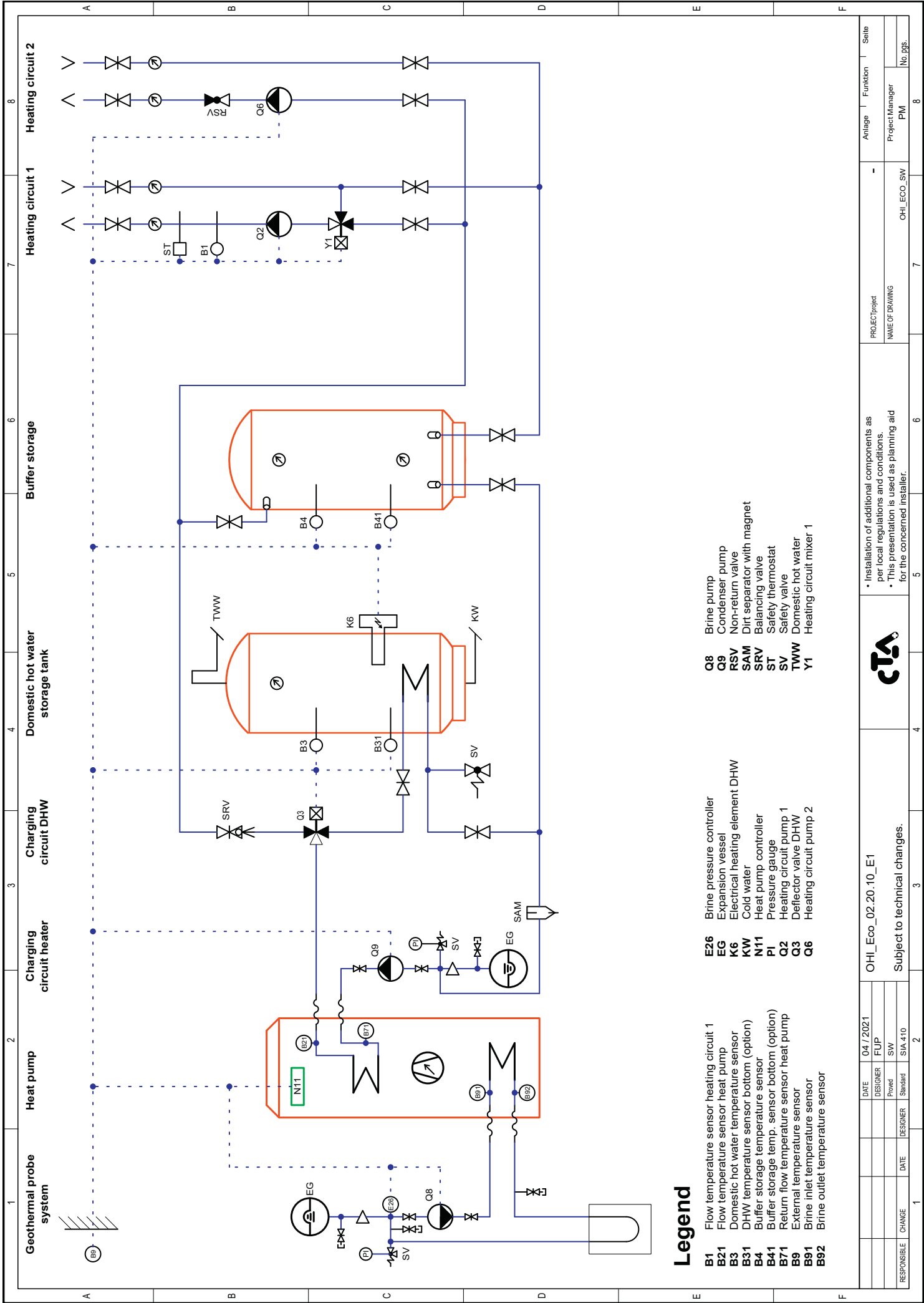
Safety thermostat
- SV

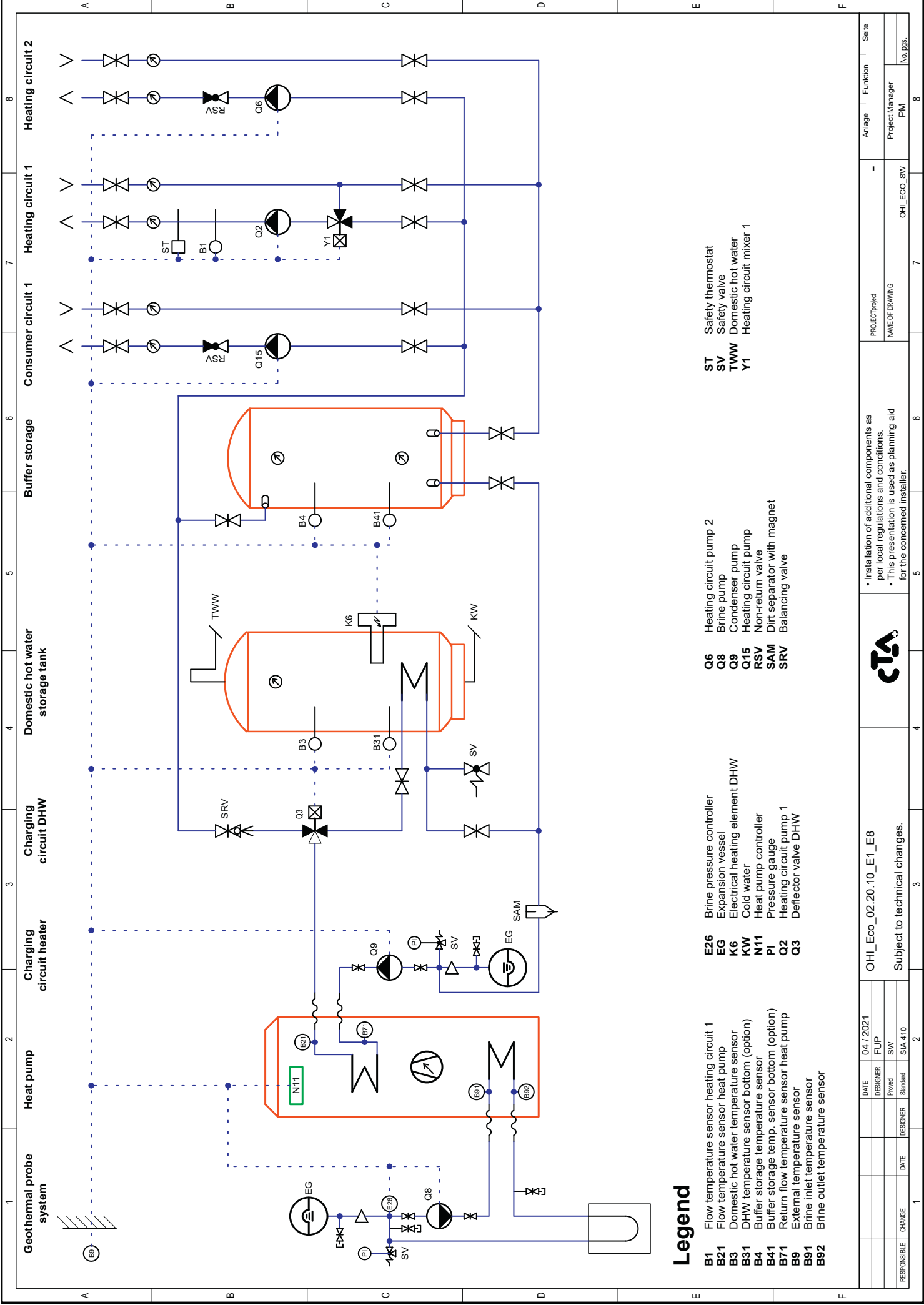
Safety valve
- TWW

Domestic hot water
- Y1

Heating circuit mixer 1

		OHI_Eco_02.20.10_E8		PROJECT/project		Anlage		Funktion		Seite	
		Subject to technical changes.						Project Manager		PM	
								OHI_ECO_SW			
										No. pgs.	
										8	





Legend

- B1

Flow temperature sensor heating circuit 1
- B21

Flow temperature sensor heat pump
- B3

Domestic hot water temperature sensor
- B31

DHW temperature sensor bottom (option)
- B4

Buffer storage temperature sensor
- B41

Buffer storage temp. sensor bottom (option)
- B71

Return flow temperature sensor heat pump
- B9

External temperature sensor
- B91

Brine inlet temperature sensor
- B92

Brine outlet temperature sensor
- E26

Brine pressure controller
- EG

Expansion vessel
- K6

Electrical heating element DHW
- KW

Cold water
- N11

Heat pump controller
- PI

Pressure gauge
- Q2

Heating circuit pump 1
- Q3

Deflector valve DHW
- Q6

Heating circuit pump 2
- Q8

Brine pump
- Q9

Condenser pump
- Q15

Heating circuit pump
- RSV

Non-return valve
- SAM

Dirt separator with magnet
- SRV

Balancing valve
- ST

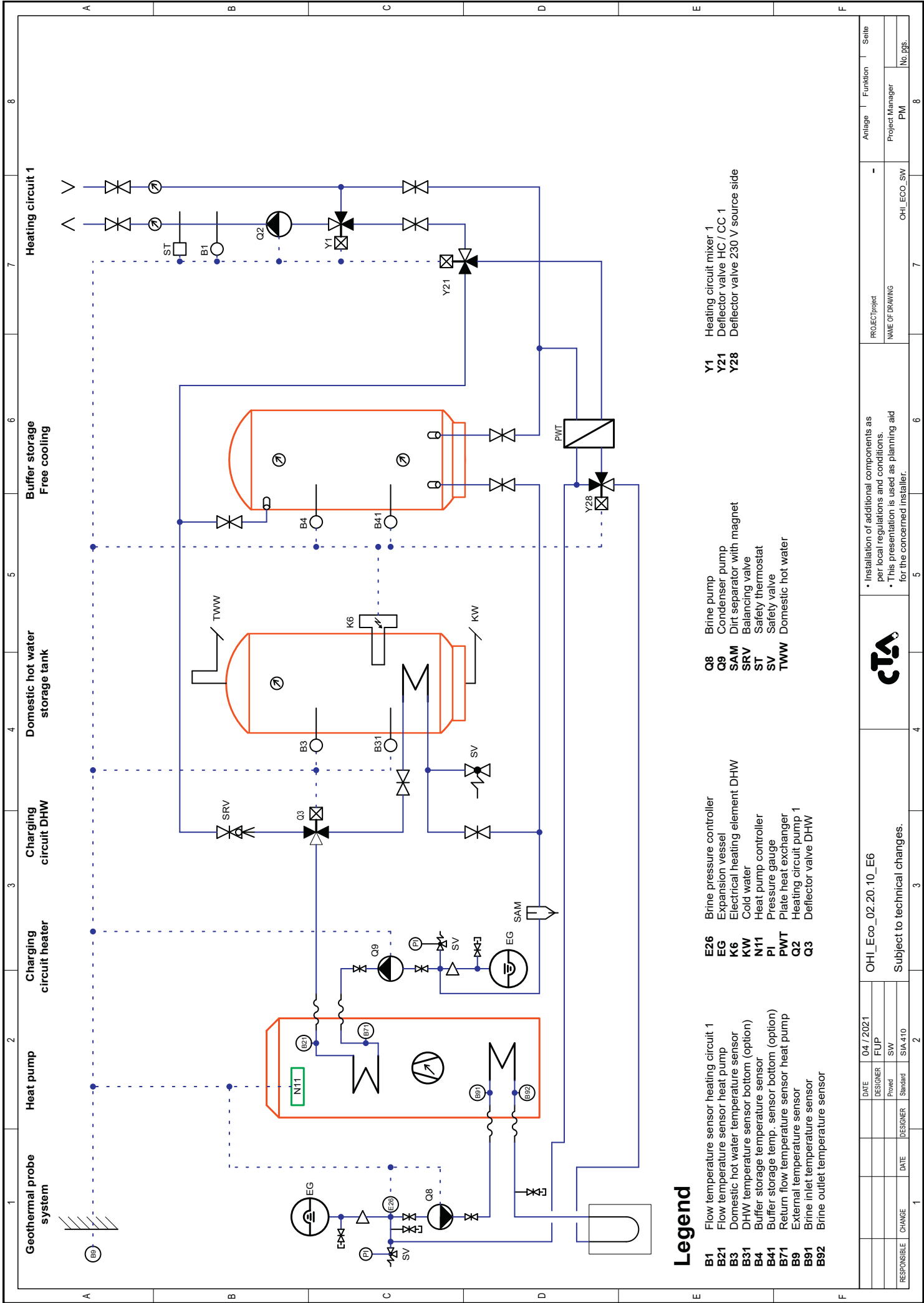
Safety thermostat
- SV

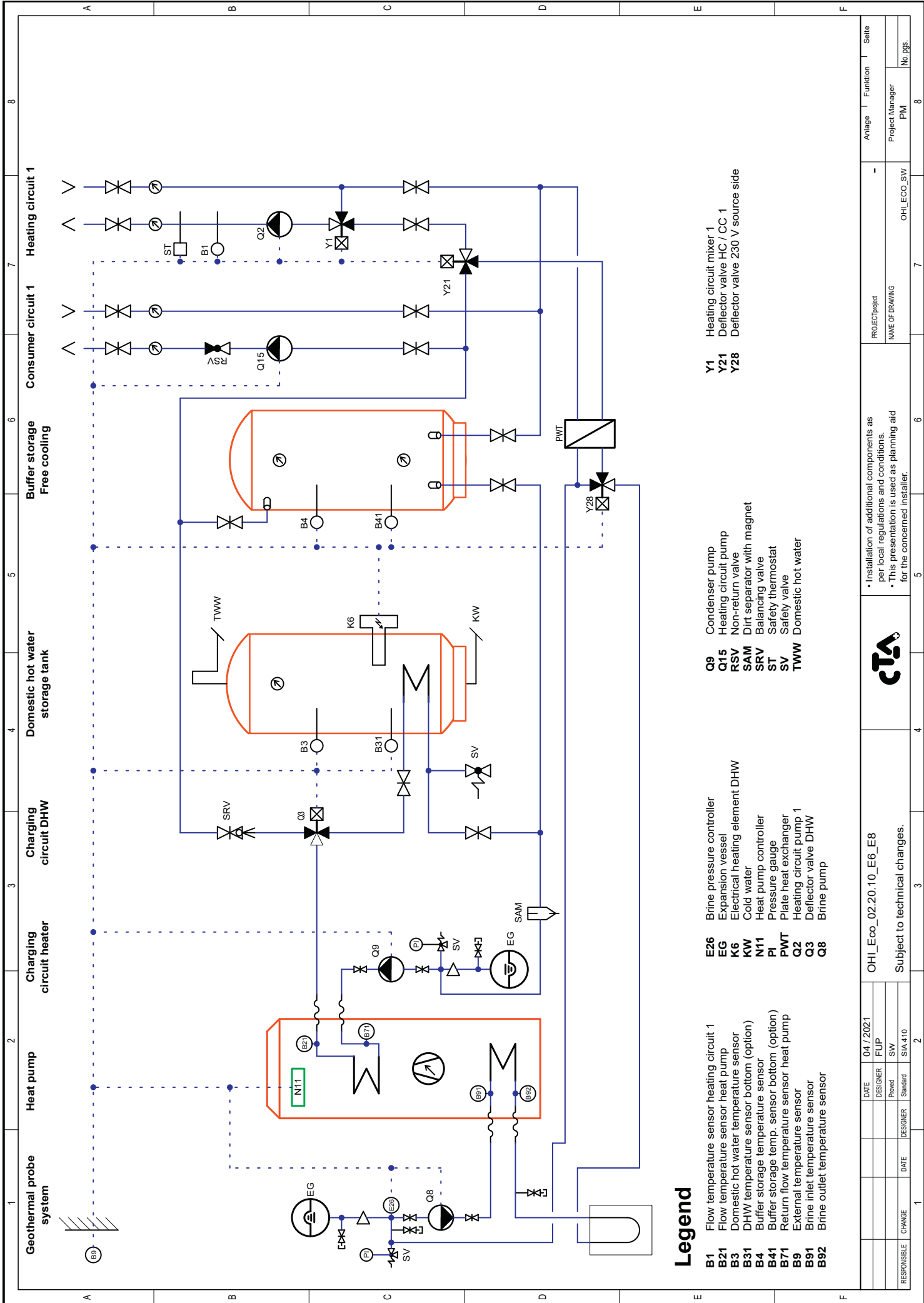
Safety valve
- TWW

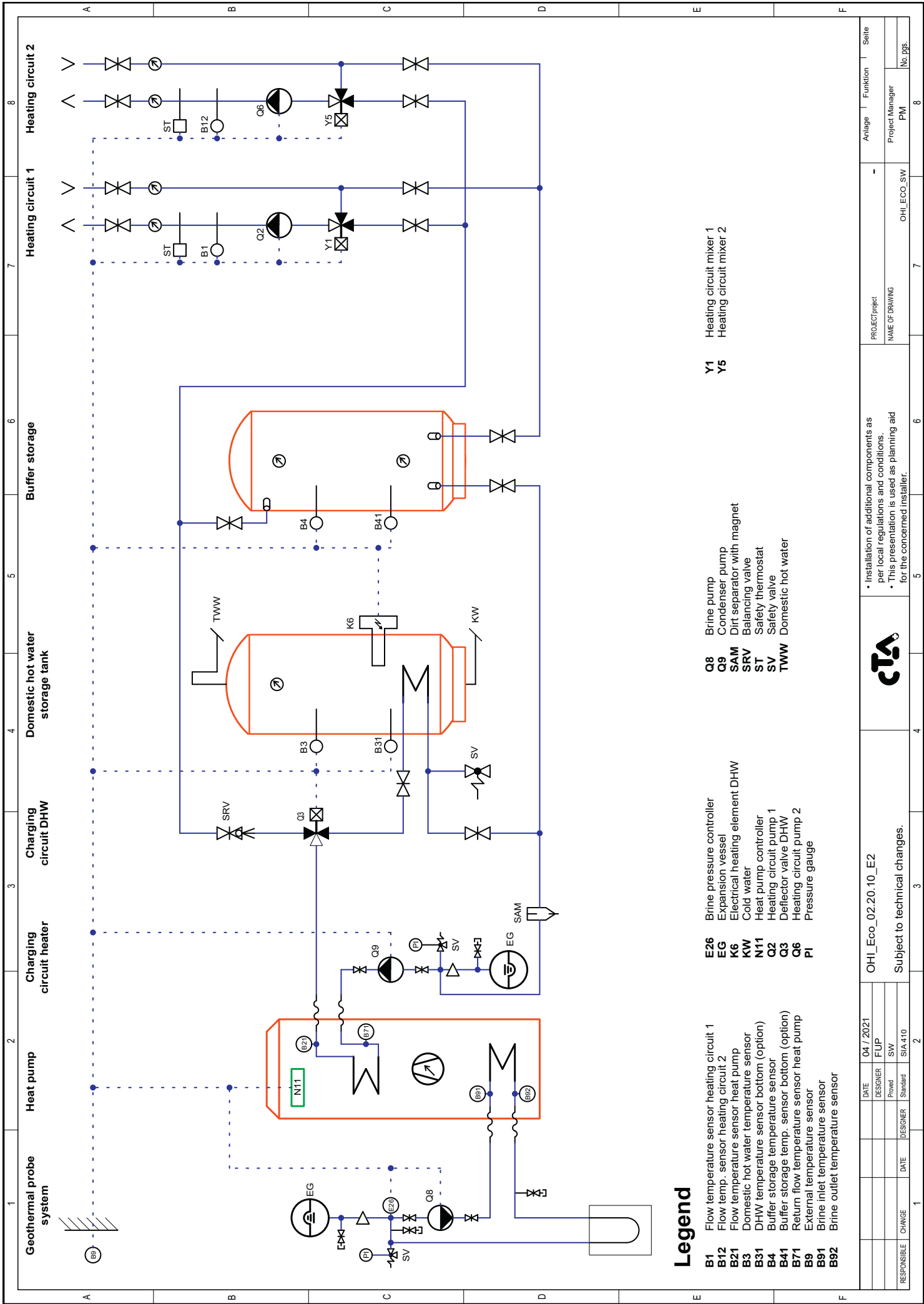
Domestic hot water
- Y1

Heating circuit mixer 1

RESPONSIBLE		CHANGE	DATE	DESIGNER	PROW	SW	DATE		Q4 / 2021	FUP	OHI_Eco_02.20.10_E1_E8		Subject to technical changes.		CTA		• Installation of additional components as per local regulations and conditions. • This presentation is used as planning aid for the concerned installer.		PROJECT/project		Anlage	Funktion	Seite			
																				NAME OF DRAWING		Project Manager		No. pgs.		
																				OH1_ECO_SW		PM				
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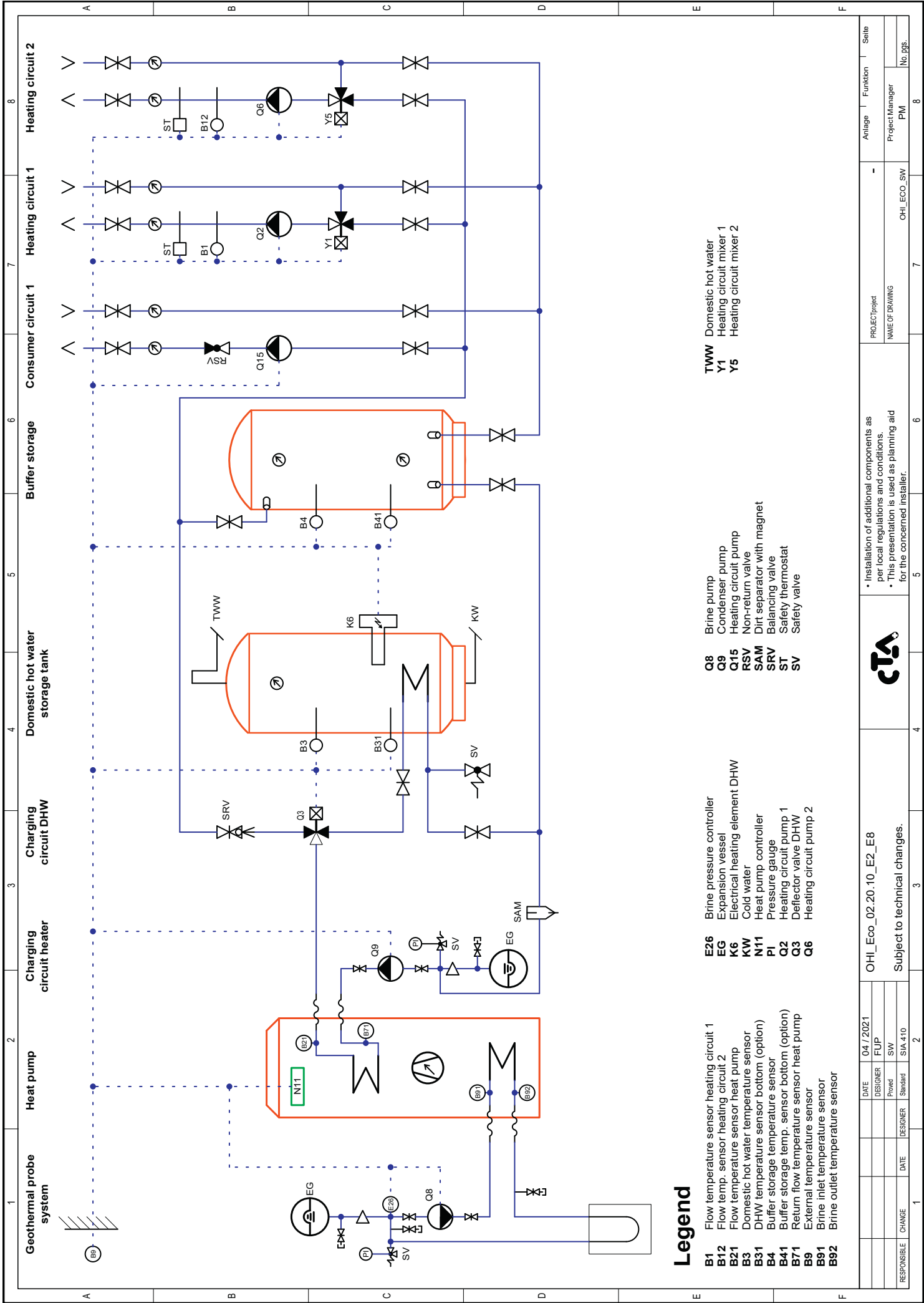


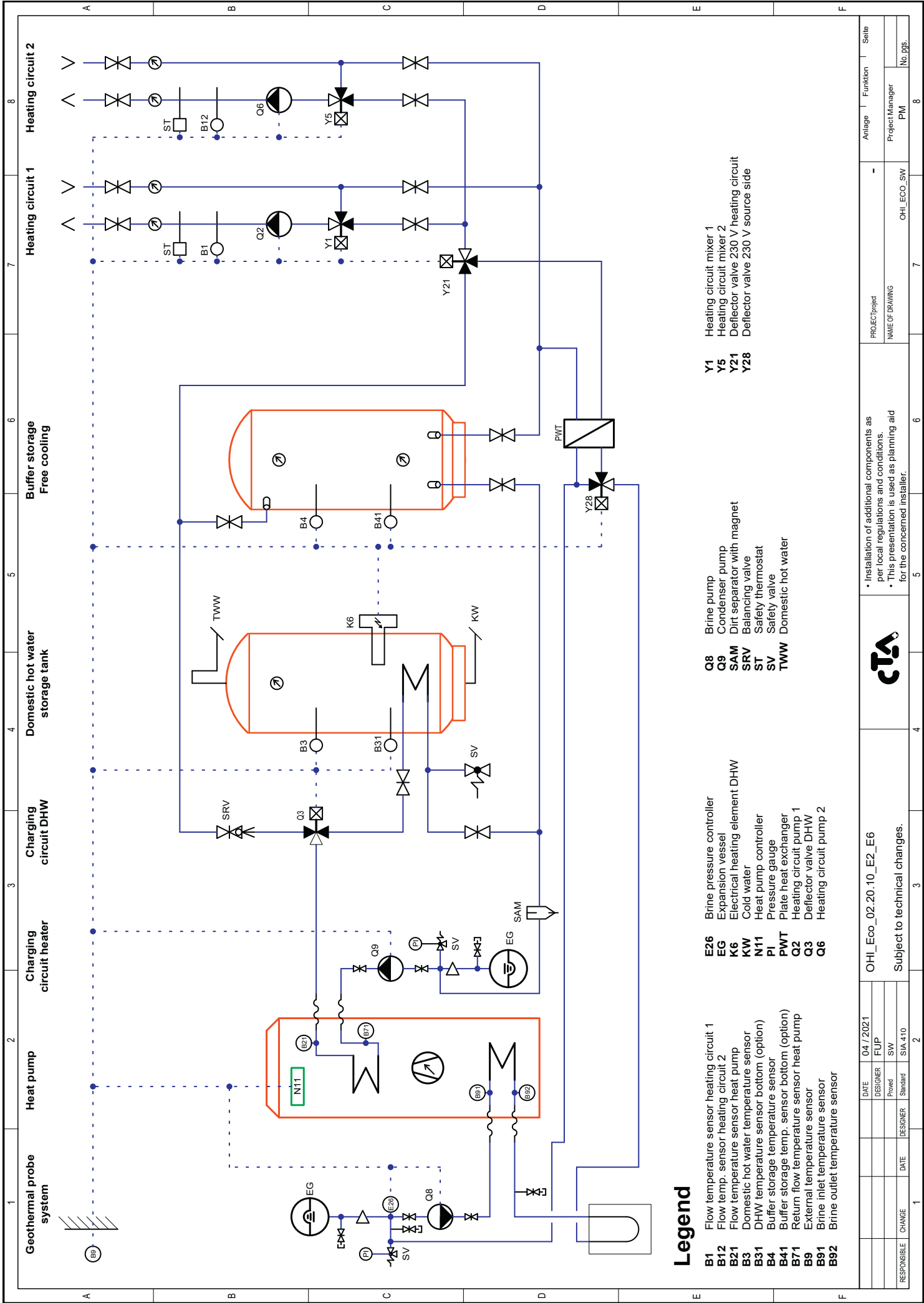


Legend

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|------------|---|------------|--------------------------------|------------|----------------------------|-----------|-------------------------|
| B1 | Flow temperature sensor heating circuit 1 | E26 | Brine pressure controller | Q8 | Brine pump | Y1 | Heating circuit mixer 1 |
| B12 | Flow temp. sensor heating circuit 2 | EG | Expansion vessel | Q9 | Condenser pump | Y5 | Heating circuit mixer 2 |
| B21 | Flow temperature sensor heat pump | K6 | Electrical heating element DHW | SAM | Dirt separator with magnet | | |
| B3 | Domestic hot water temperature sensor | KW | Cold water | SRV | Balancing valve | | |
| B31 | DHW temperature sensor bottom (option) | N11 | Heat pump controller | ST | Safety thermostat | | |
| B4 | Buffer storage temperature sensor | Q2 | Heating circuit pump 1 | SV | Safety valve | | |
| B41 | Buffer storage temp. sensor bottom (option) | Q3 | Deflector valve DHW | TWW | Domestic hot water | | |
| B71 | Return flow temperature sensor heat pump | Q6 | Heating circuit pump 2 | | | | |
| B9 | External temperature sensor | PI | Pressure gauge | | | | |
| B91 | Brine inlet temperature sensor | | | | | | |
| B92 | Brine outlet temperature sensor | | | | | | |

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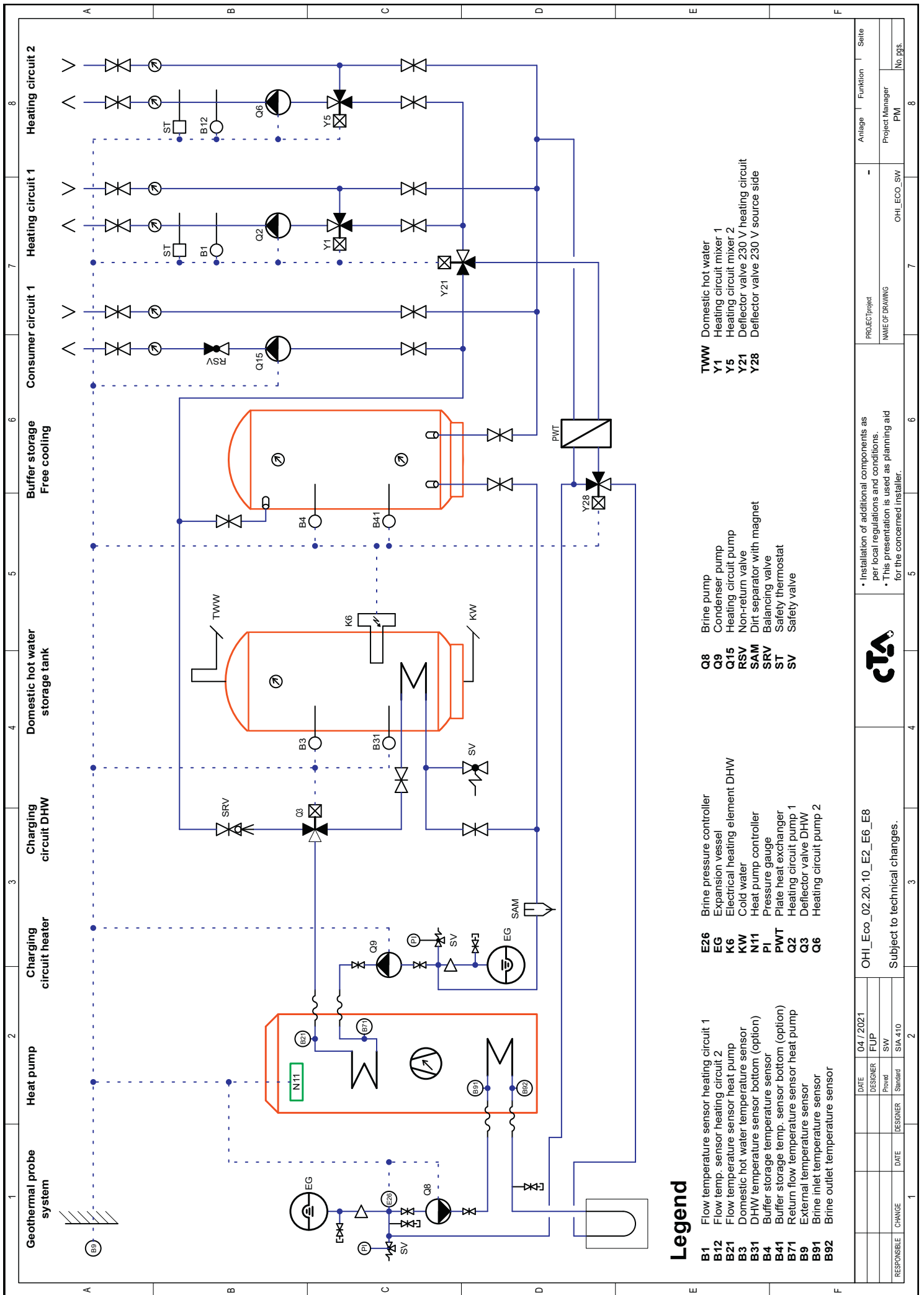


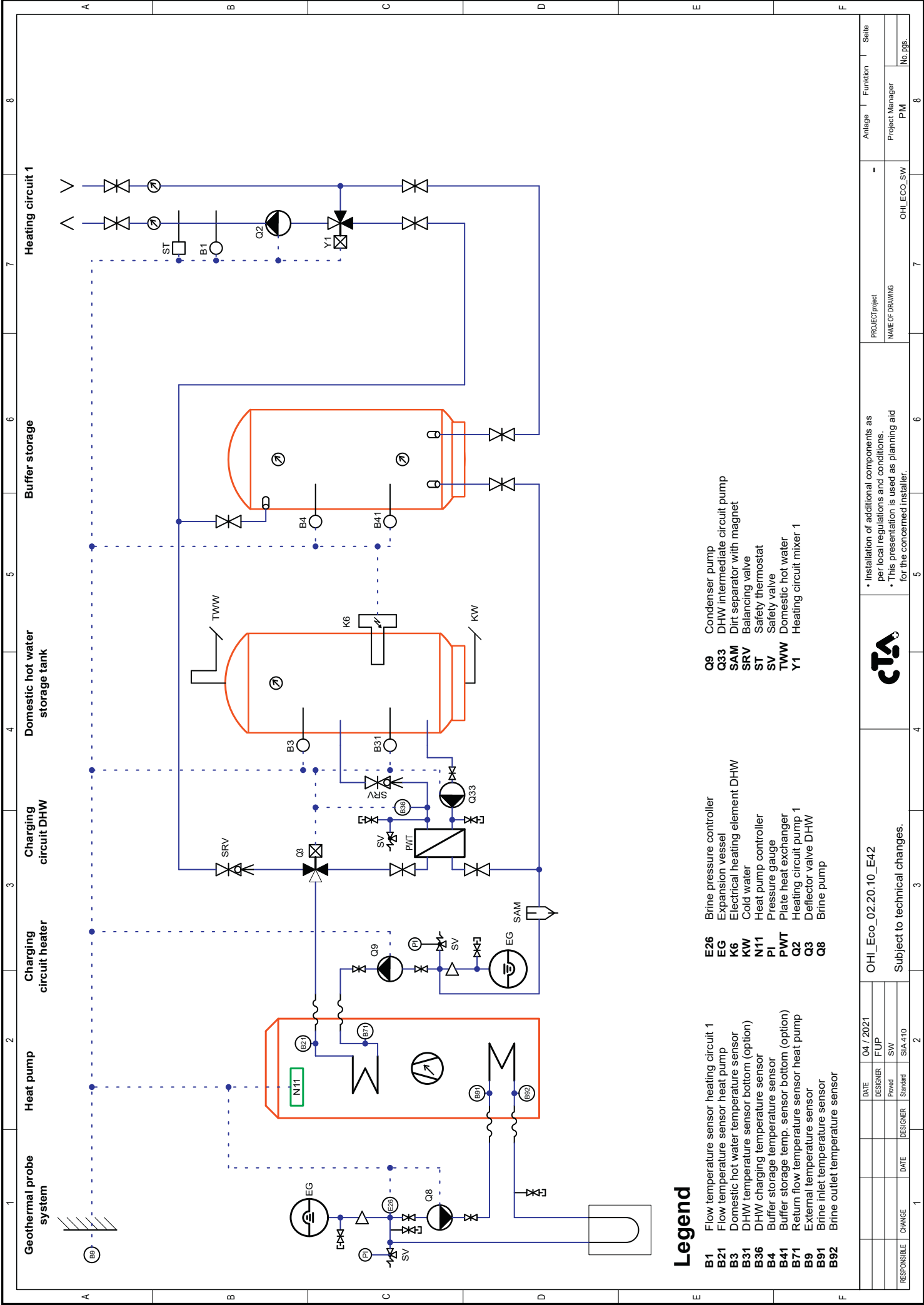


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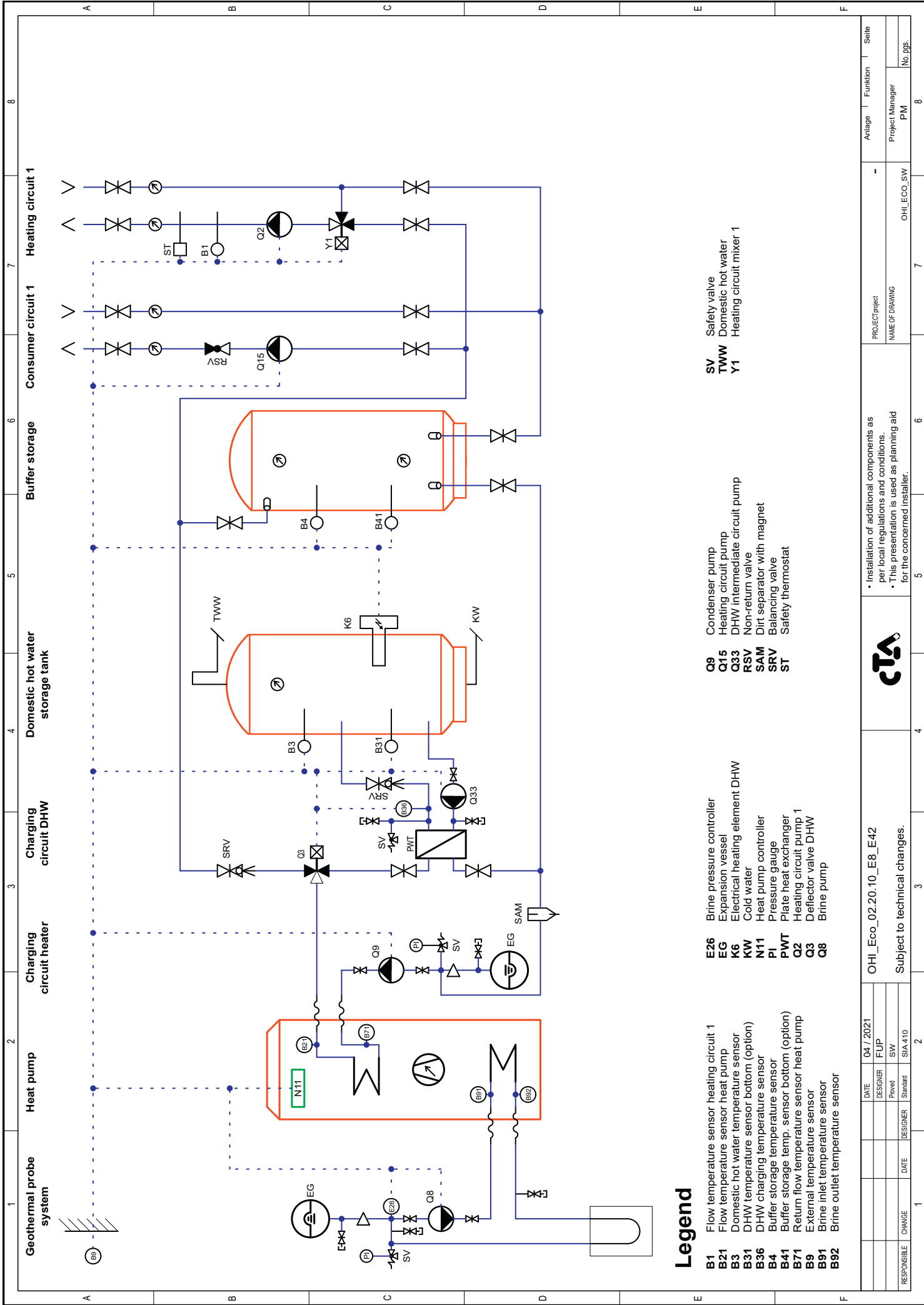
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|------------|---|------------|--------------------------------|------------|----------------------------|------------|---------------------------------------|
| B1 | Flow temperature sensor heating circuit 1 | E26 | Brine pressure controller | Q8 | Brine pump | Y1 | Heating circuit mixer 1 |
| B12 | Flow temp. sensor heating circuit 2 | EG | Expansion vessel | Q9 | Condenser pump | Y5 | Heating circuit mixer 2 |
| B21 | Flow temperature sensor heat pump | K6 | Electrical heating element DHW | SAM | Dirt separator with magnet | Y21 | Deflector valve 230 V heating circuit |
| B3 | Domestic hot water temperature sensor | KW | Cold water | SRV | Balancing valve | Y28 | Deflector valve 230 V source side |
| B31 | DHW temperature sensor bottom (option) | N11 | Heat pump controller | ST | Safety thermostat | | |
| B4 | Buffer storage temperature sensor | PI | Pressure gauge | SV | Safety valve | | |
| B41 | Buffer storage temp. sensor bottom (option) | PWT | Plate heat exchanger | TWW | Domestic hot water | | |
| B71 | Return flow temperature sensor heat pump | Q2 | Heating circuit pump 1 | | | | |
| B9 | External temperature sensor | Q3 | Deflector valve DHW | | | | |
| B91 | Brine inlet temperature sensor | Q6 | Heating circuit pump 2 | | | | |
| B92 | Brine outlet temperature sensor | | | | | | |

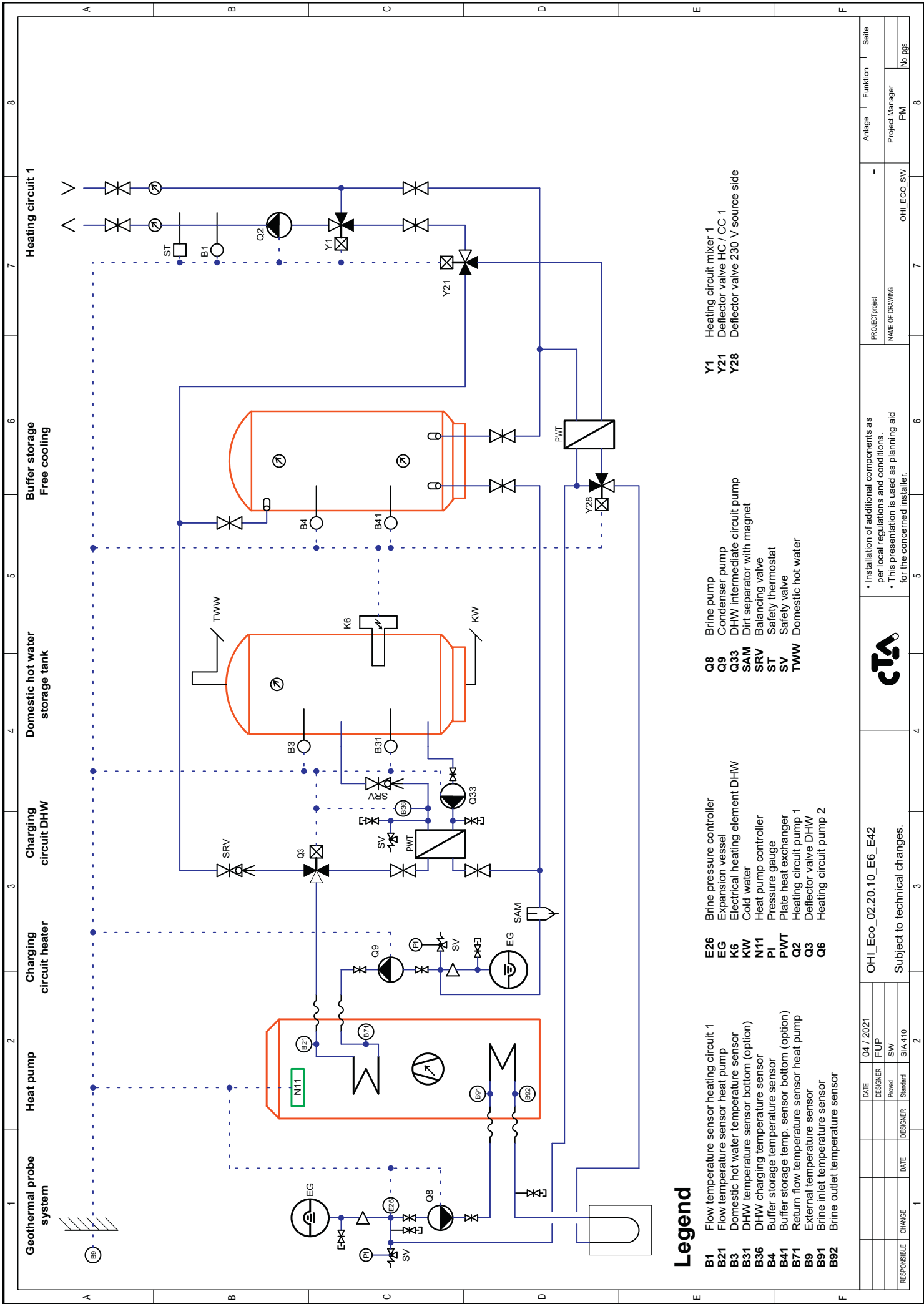
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CHANGE		Proved			OHI_ECO_SW			
DATE		DESIGNER			No. pgs.			
		Standard						
		SIA 410						

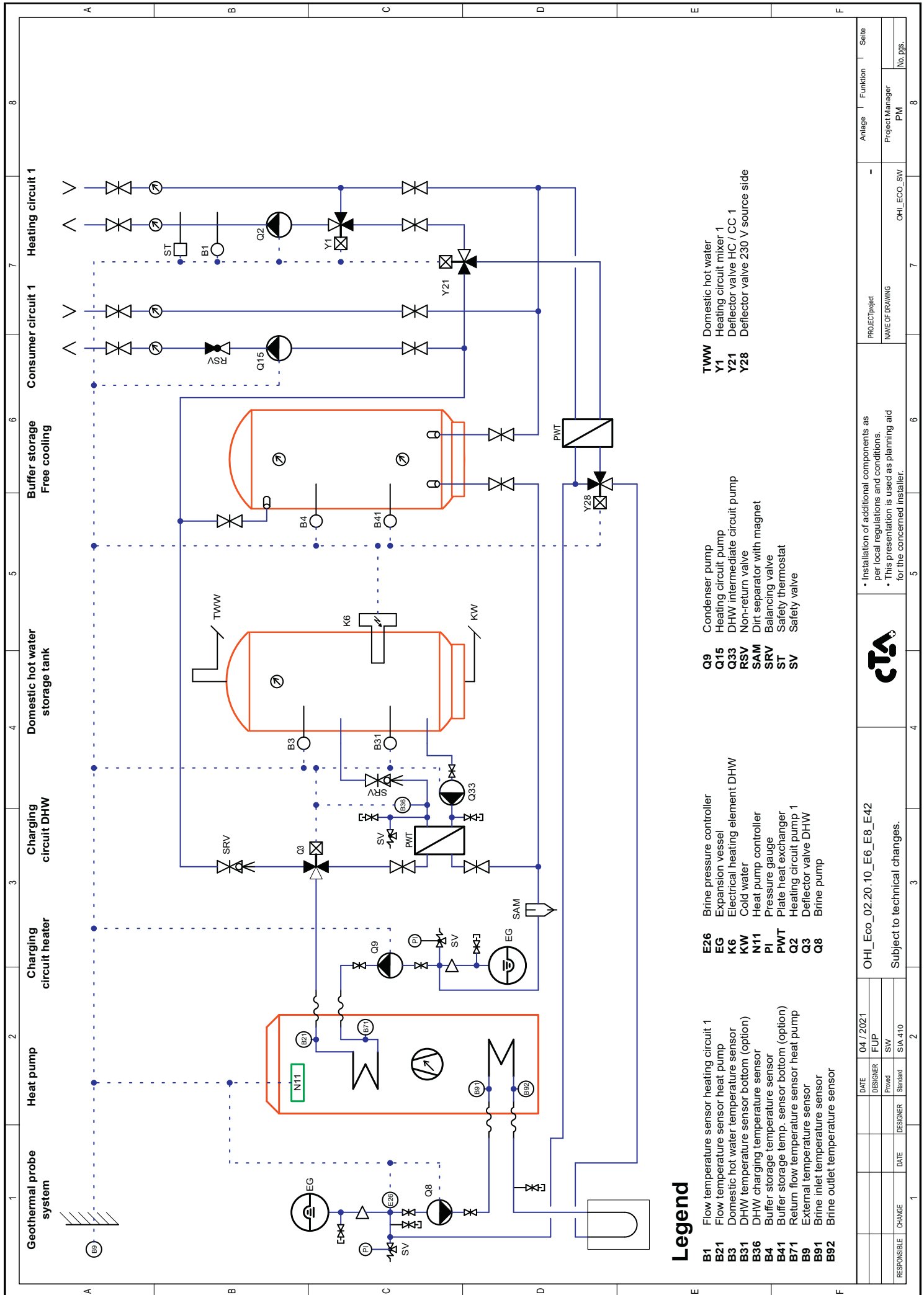


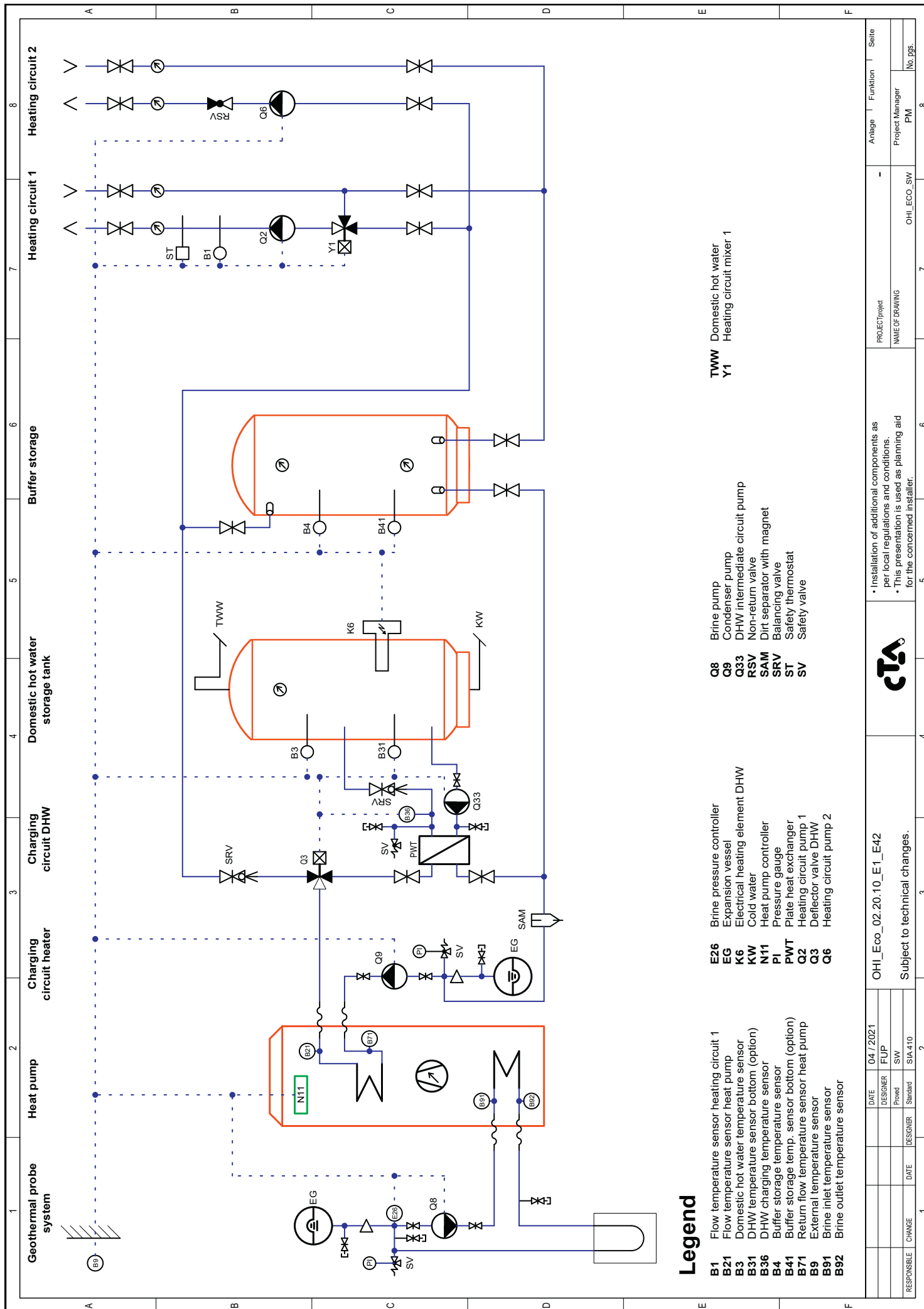


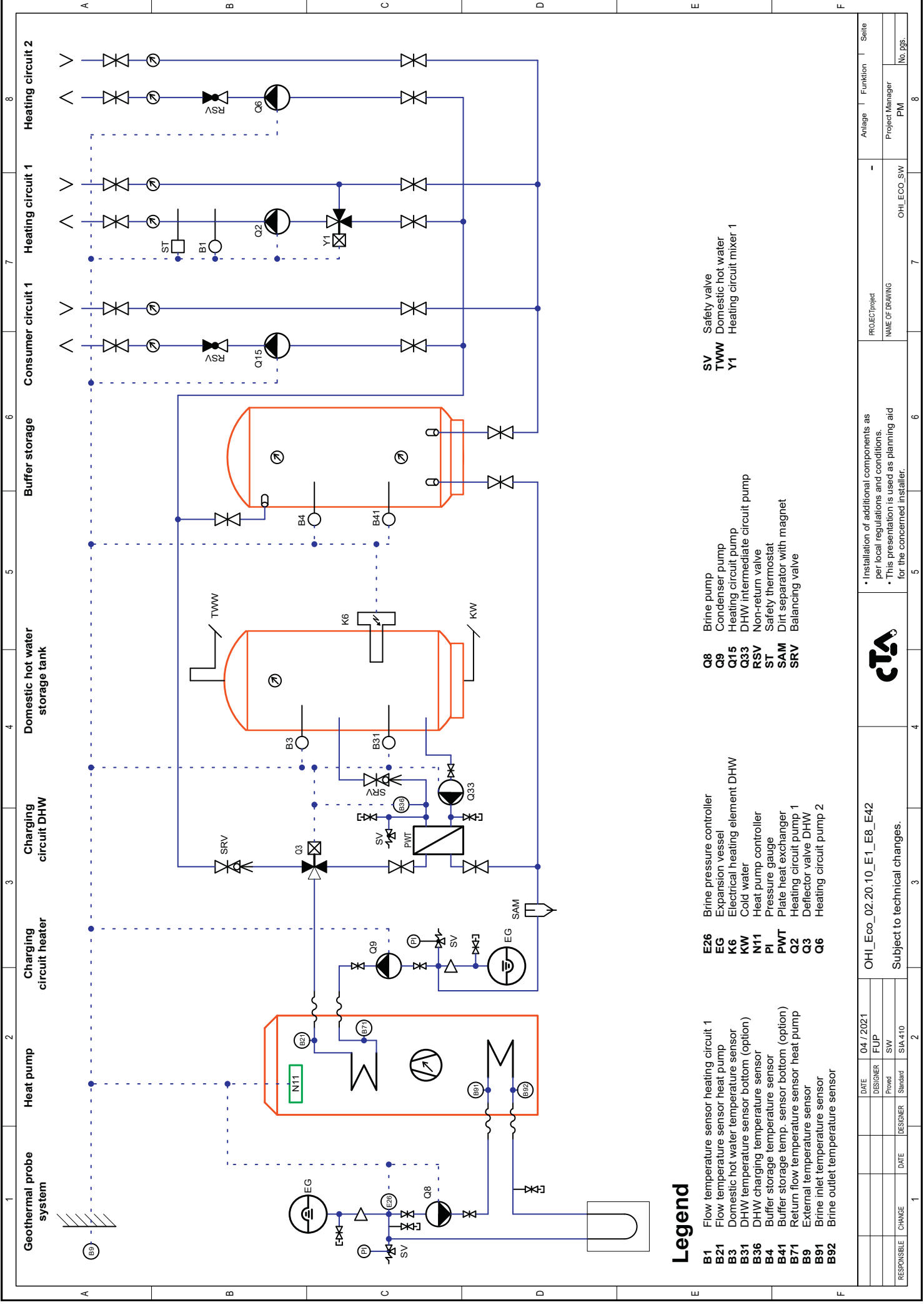
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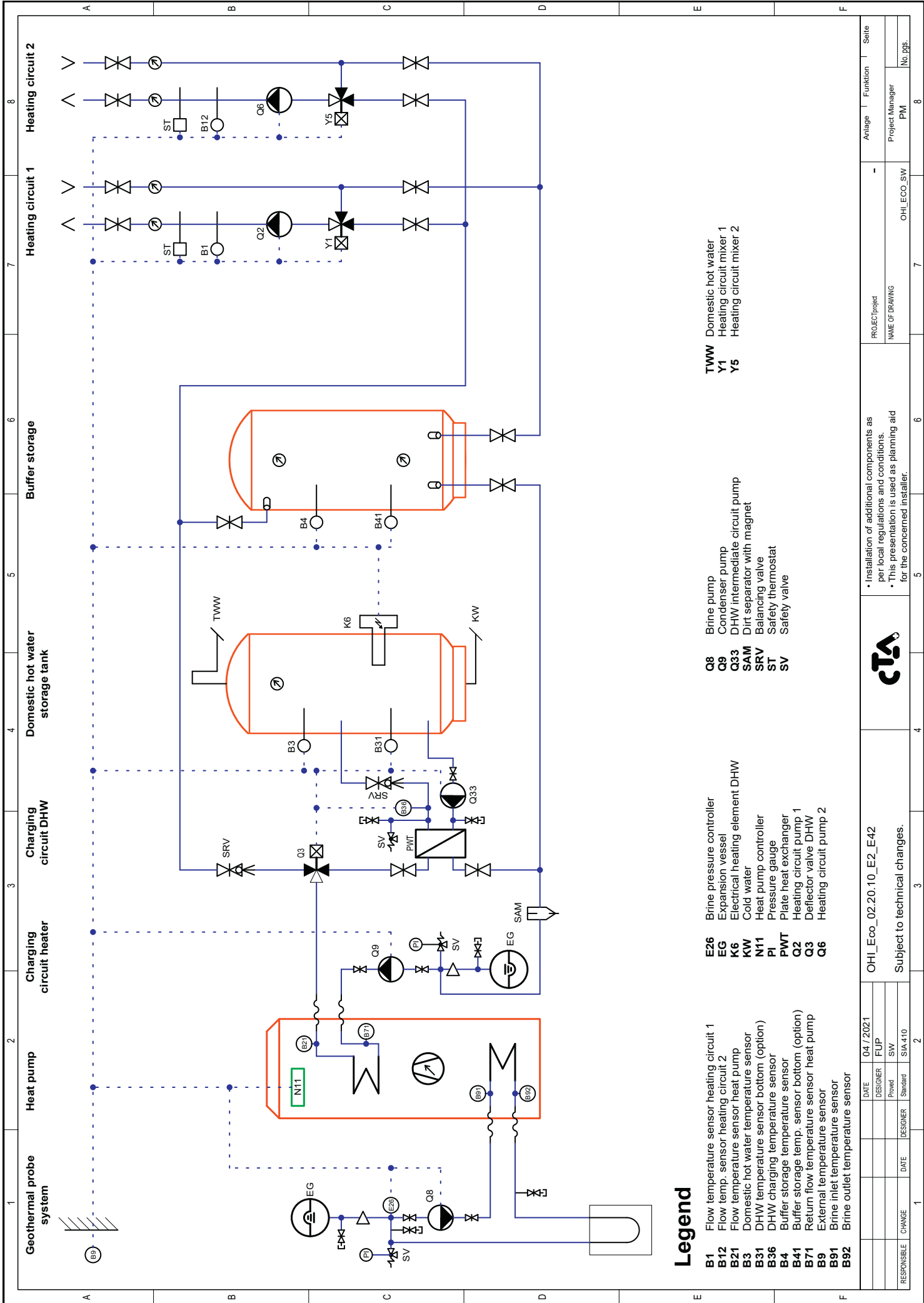




Legend

- B1 Flow temperature sensor heating circuit 1
- B21 Flow temperature sensor heat pump
- B3 Domestic hot water temperature sensor
- B31 DHW temperature sensor bottom (option)
- B36 DHW charging temperature sensor
- B4 Buffer storage temperature sensor
- B41 Buffer storage temp. sensor bottom (option)
- B71 Return flow temperature sensor heat pump
- B9 External temperature sensor
- B91 Brine inlet temperature sensor
- B92 Brine outlet temperature sensor
- E26 Brine pressure controller
- EG Expansion vessel
- K6 Electrical heating element DHW
- KW Cold water
- N11 Heat pump controller
- PI Pressure gauge
- PWT Plate heat exchanger
- Q2 Heating circuit pump 1
- Q3 Deflector valve DHW
- Q6 Heating circuit pump 2
- Q8 Brine pump
- Q9 Condenser pump
- Q15 Heating circuit pump
- Q33 DHW intermediate circuit pump
- RSV Non-return valve
- ST Safety thermostat
- SAM Dirt separator with magnet
- SRV Balancing valve
- SV Safety valve
- TWW Domestic hot water
- Y1 Heating circuit mixer 1

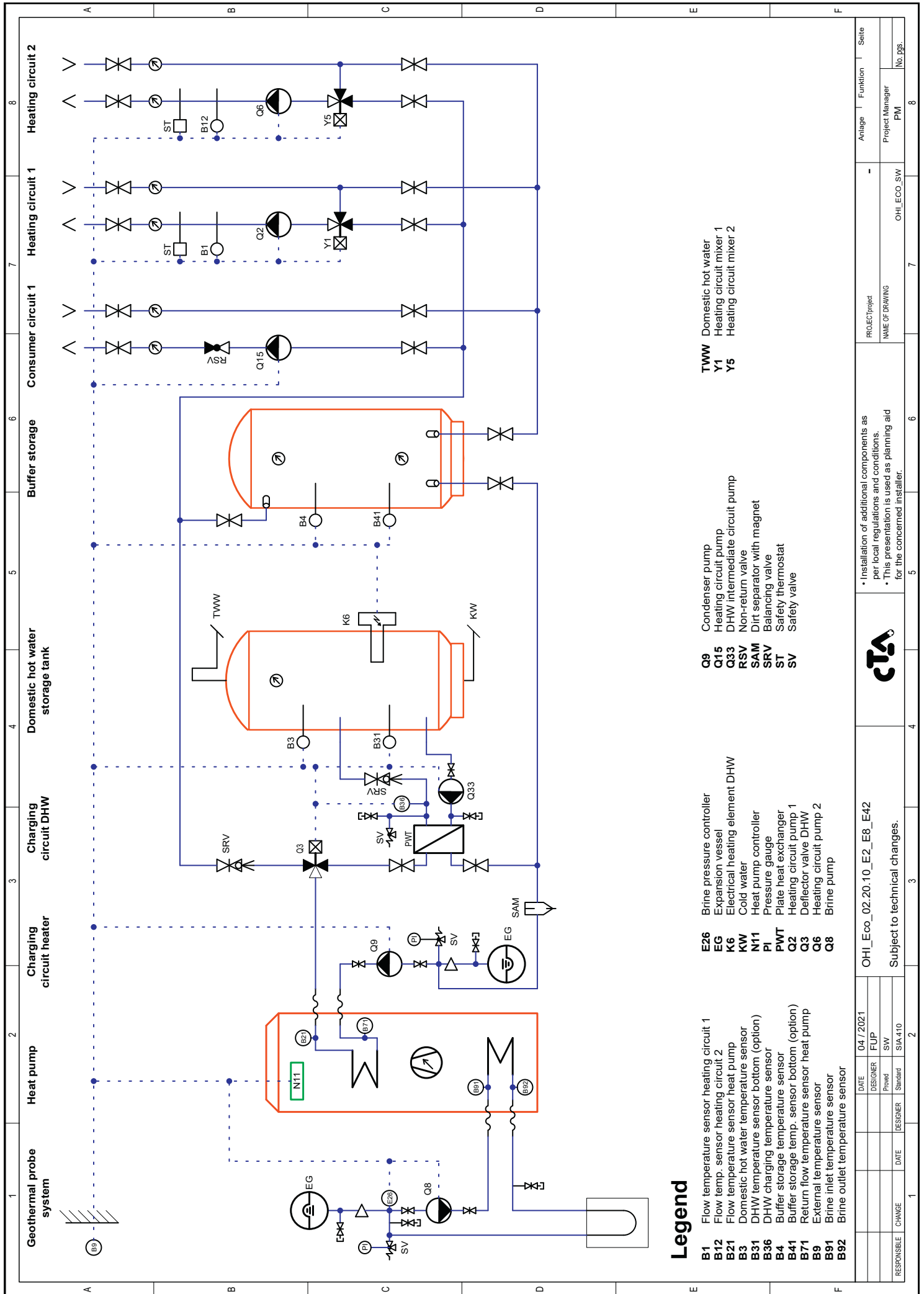
RESPONSIBLE		CHANGE	DATE	DESIGNER	Standard	SW	FUP	DATE	04 / 2021	OHI_Eco_02.20.10_E1_E8_E42		Subject to technical changes.		CTA		• Installation of additional components as per local regulations and conditions. • This presentation is used as planning aid for the concerned installer.		PROJECT	Project	-	ANLAGE	Funktion	Seite
																		NAME OF DRAWING	Project Manager	PM			8
																							No. pgs.

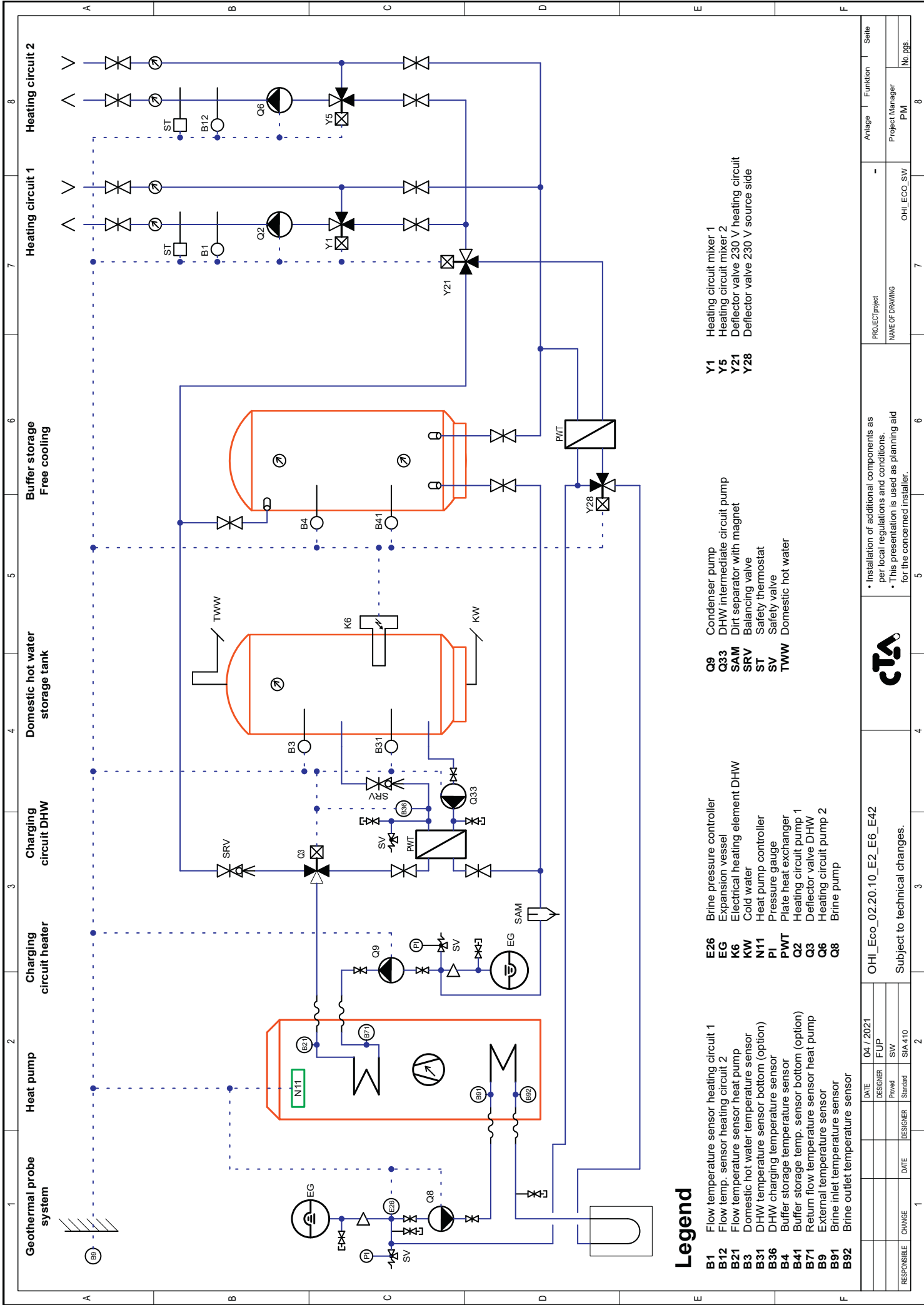


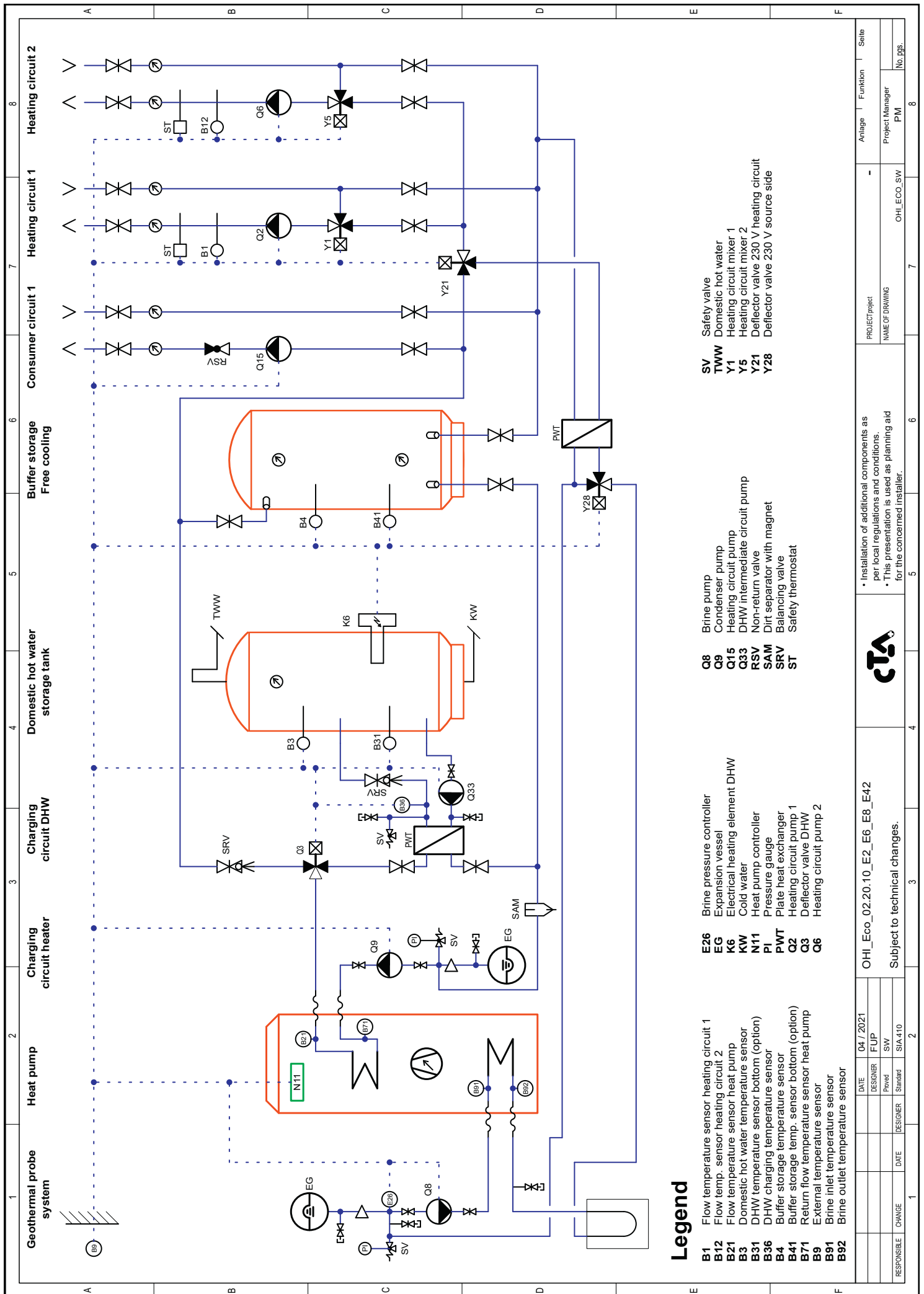
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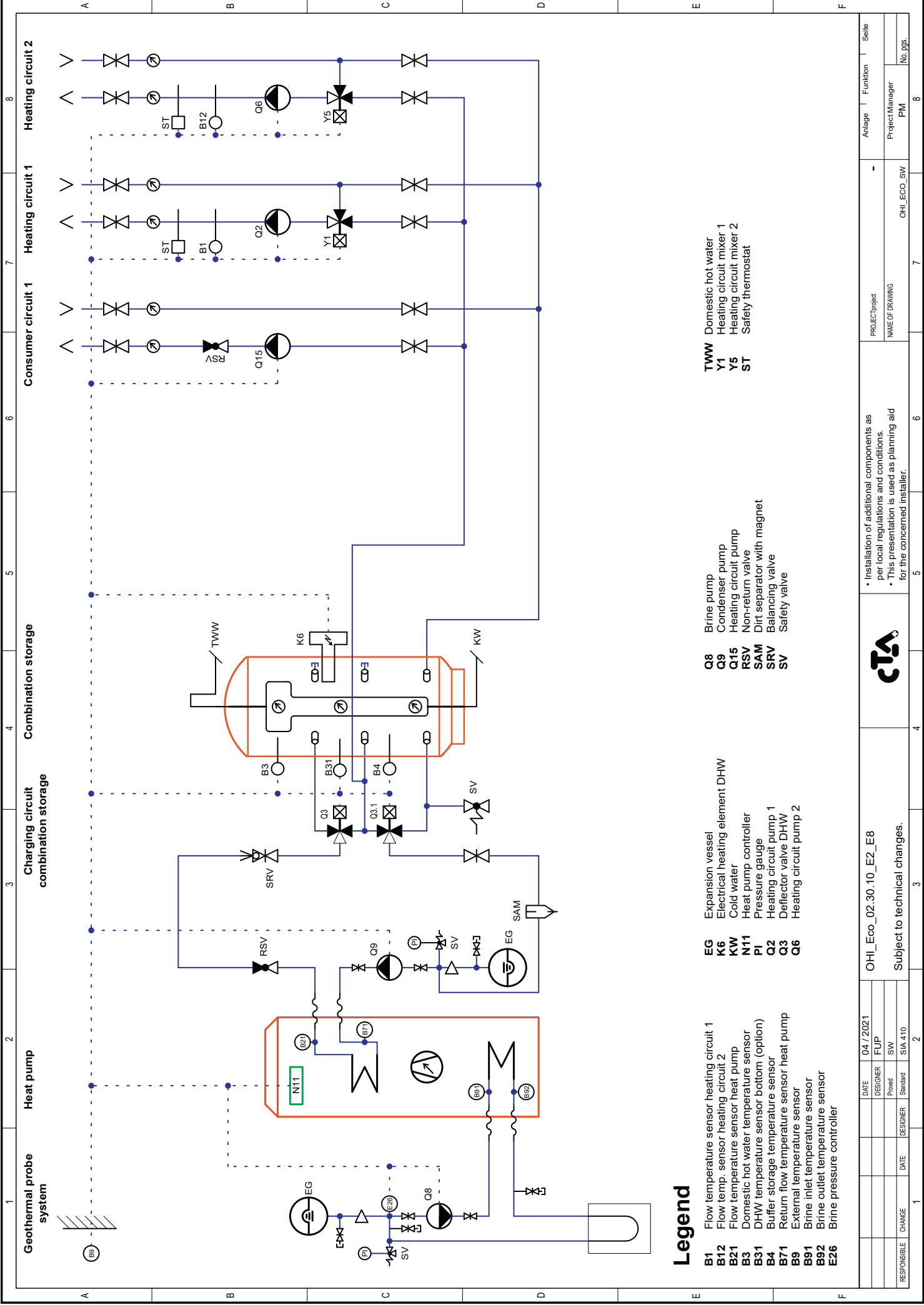
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|------------|---|------------|--------------------------------|------------|-------------------------------|------------|-------------------------|
| B1 | Flow temperature sensor heating circuit 1 | E26 | Brine pressure controller | Q8 | Brine pump | TWW | Domestic hot water |
| B12 | Flow temp. sensor heating circuit 2 | EG | Expansion vessel | Q9 | Condenser pump | Y1 | Heating circuit mixer 1 |
| B21 | Flow temperature sensor heat pump | K6 | Electrical heating element DHW | Q33 | DHW intermediate circuit pump | Y5 | Heating circuit mixer 2 |
| B3 | Domestic hot water temperature sensor | KW | Cold water | SAM | Dirt separator with magnet | | |
| B31 | DHW temperature sensor bottom (option) | N11 | Heat pump controller | SRV | Balancing valve | | |
| B36 | DHW charging temperature sensor | PI | Pressure gauge | ST | Safety thermostat | | |
| B4 | Buffer storage temperature sensor | PWT | Plate heat exchanger | SV | Safety valve | | |
| B41 | Buffer storage temp. sensor bottom (option) | Q2 | Heating circuit pump 1 | | | | |
| B71 | Return flow temperature sensor heat pump | Q3 | Deflector valve DHW | | | | |
| B9 | External temperature sensor | Q6 | Heating circuit pump 2 | | | | |
| B91 | Brine inlet temperature sensor | | | | | | |
| B92 | Brine outlet temperature sensor | | | | | | |

RESPONSIBLE		CHANGE	DATE	DESIGNER	Standard	SW	SIA 410	OHI_Eco_02.20.10_E2_E42		Subject to technical changes.		CTA		Installation of additional components as per local regulations and conditions. This presentation is used as planning aid for the concerned installer.		PROJECT/Project	NAME OF DRAWING	OHI_ECO_SW	Project Manager	PM	8	Seite









Legend

- | | |
|---|-----------------------------------|
| B1 Flow temperature sensor heating circuit 1 | TWW Domestic hot water |
| B12 Flow temp. sensor heating circuit 2 | Y1 Heating circuit mixer 1 |
| B21 Flow temperature sensor heat pump | Y5 Heating circuit mixer 2 |
| B3 Domestic hot water temperature sensor | ST Safety thermostat |
| B31 DHW temperature sensor bottom (option) | |
| B4 Buffer storage temperature sensor | |
| B71 Return flow temperature sensor heat pump | |
| B9 External temperature sensor | |
| B91 Brine inlet temperature sensor | |
| B92 Brine outlet temperature sensor | |
| B26 Brine pressure controller | |
| EG Expansion vessel | |
| K6 Electrical heating element DHW | |
| KW Cold water | |
| N11 Heat pump controller | |
| PI Pressure gauge | |
| Q2 Heating circuit pump 1 | |
| Q3 Deflector valve DHW | |
| Q6 Heating circuit pump 2 | |
| Q8 Brine pump | |
| Q9 Condenser pump | |
| Q15 Heating circuit pump | |
| RSV Non-return valve | |
| SAM Dirt separator with magnet | |
| SRV Balancing valve | |
| SV Safety valve | |

• Installation of additional components as per local regulations and conditions.
• This presentation is used as planning aid for the concerned installer.



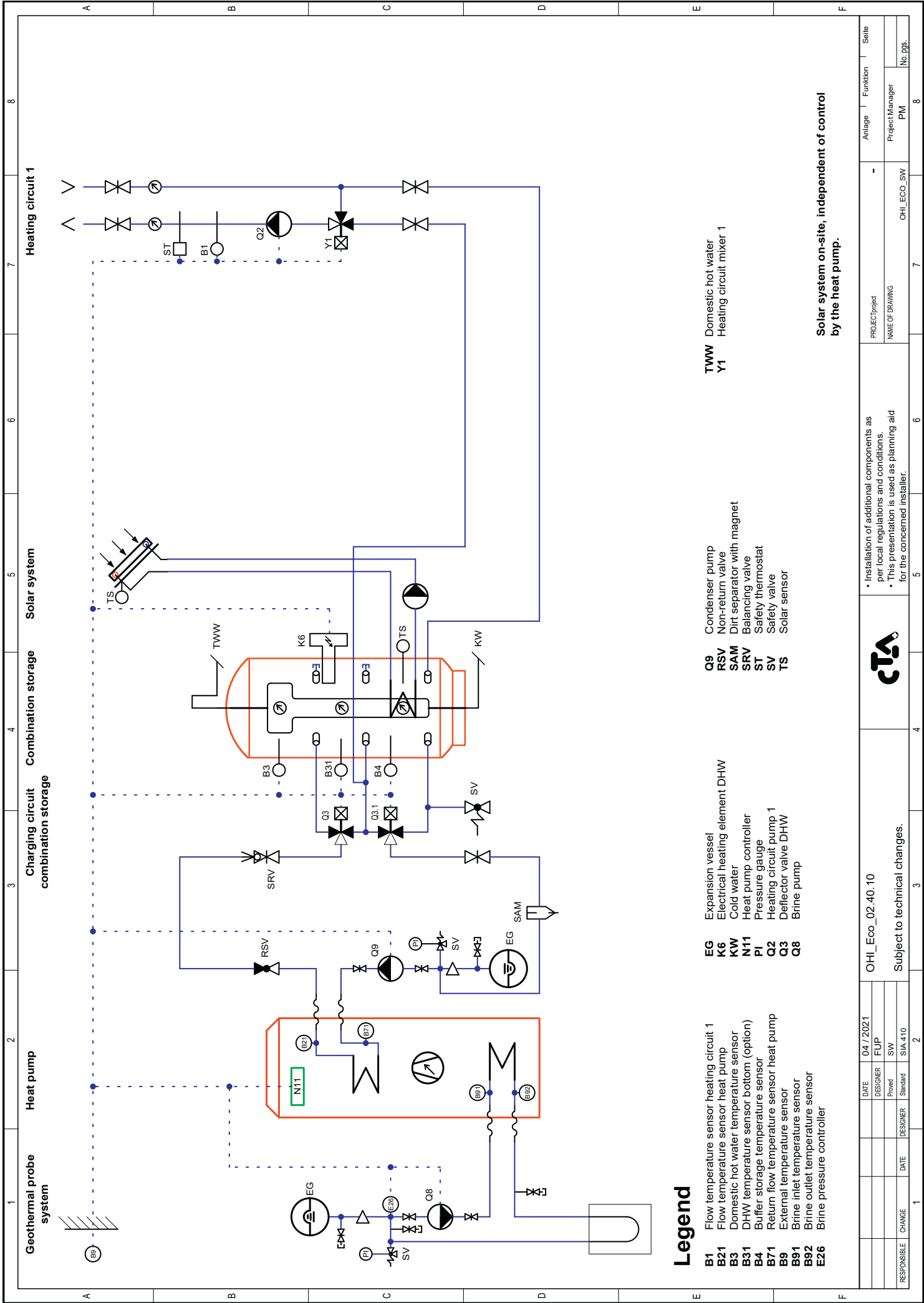
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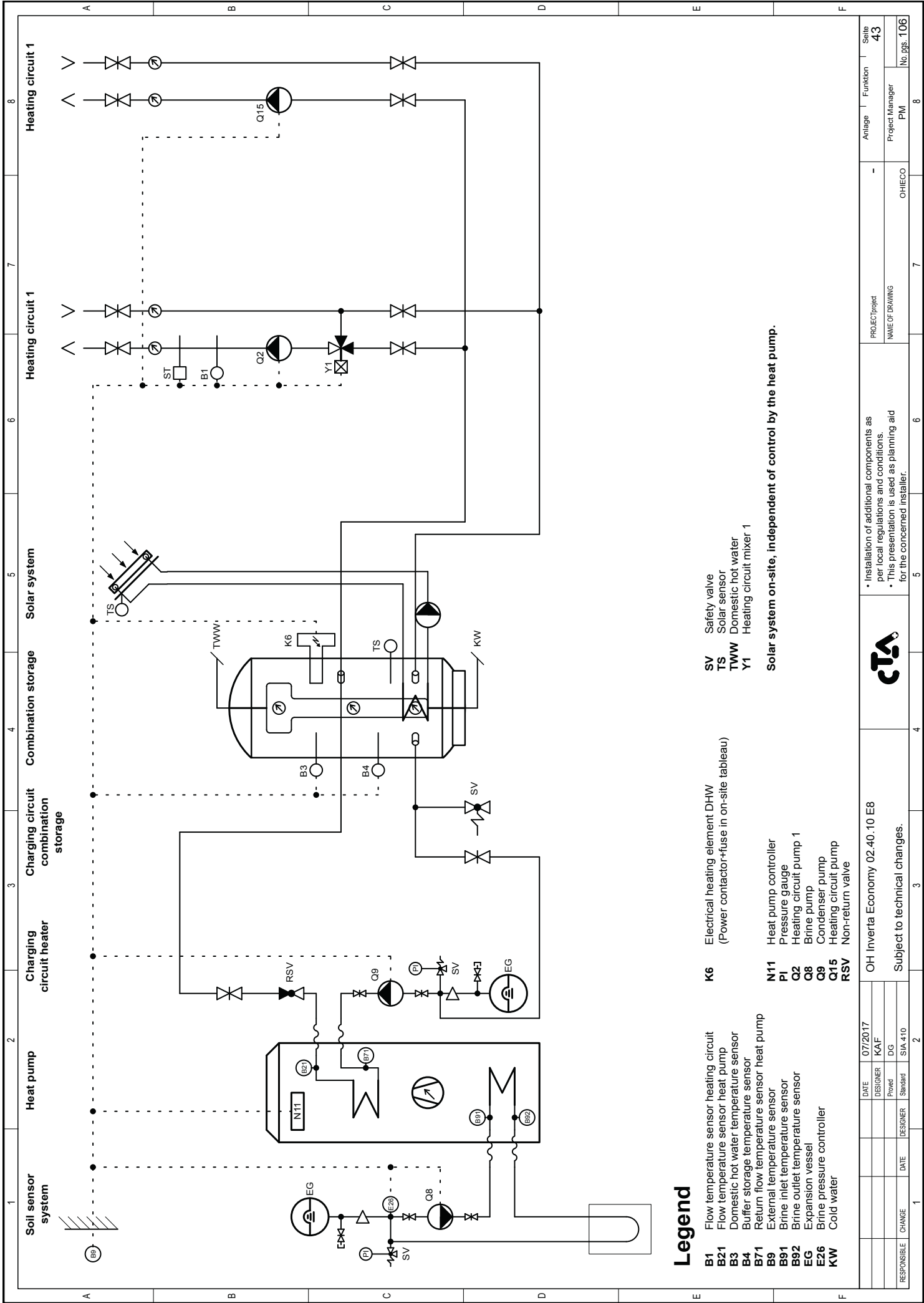
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PROJECT/project
NAME OF DRAWING

OH1_ECO_SW
PM

Anlage | Funktion | Seite
Project Manager
No. pgs.

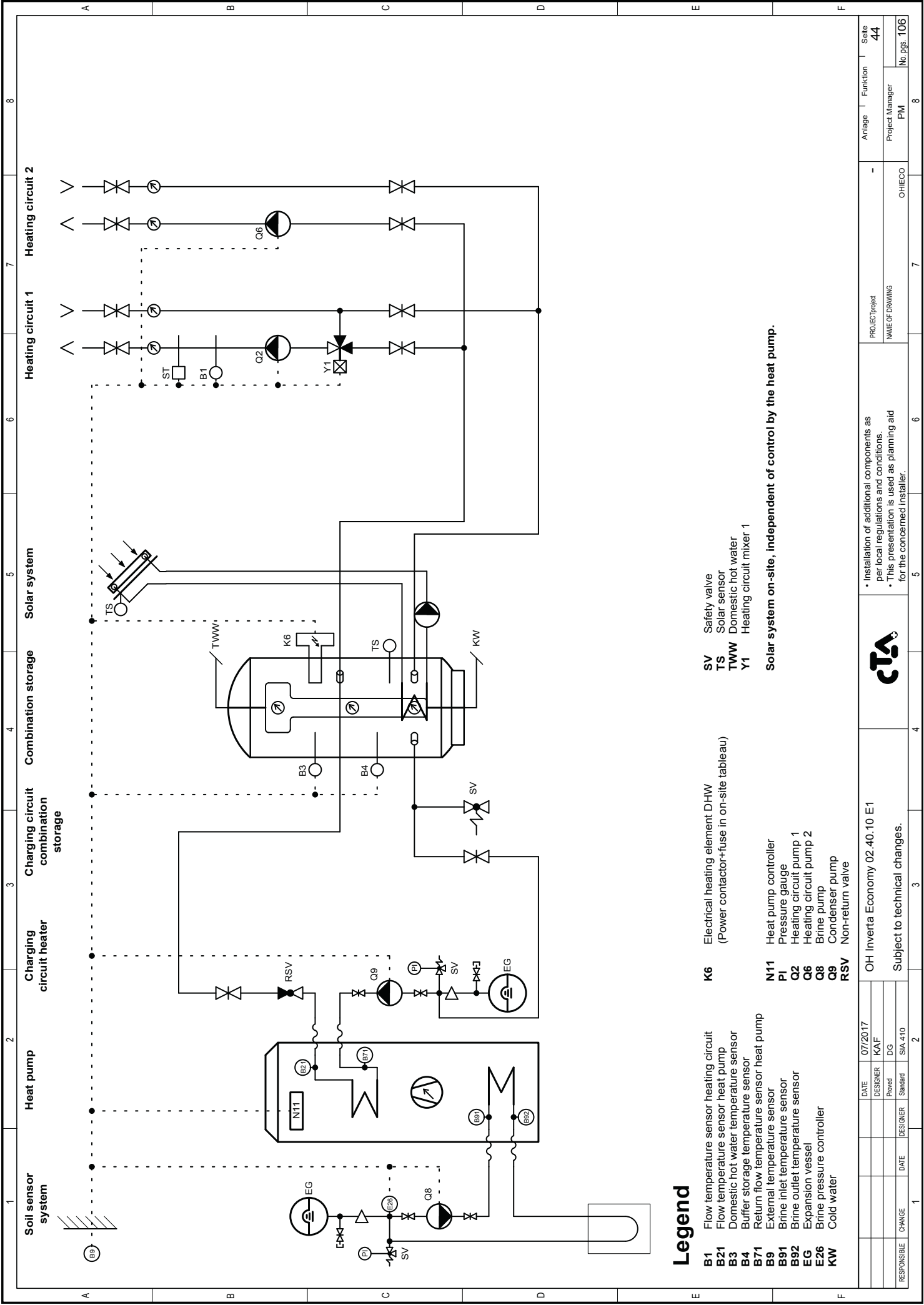




Legend

- B1 Flow temperature sensor heating circuit
 - B21 Flow temperature sensor heat pump
 - B3 Domestic hot water temperature sensor
 - B4 Buffer storage temperature sensor
 - B71 Return flow temperature sensor heat pump
 - B9 External temperature sensor
 - B91 Brine inlet temperature sensor
 - B92 Brine outlet temperature sensor
 - E26 Expansion vessel
 - E29 Brine pressure controller
 - KW Cold water
 - K6 Electrical heating element DHW (Power contactor+fuse in on-site tableau)
 - N11 Heat pump controller
 - PI Pressure gauge
 - Q2 Heating circuit pump 1
 - Q8 Brine pump
 - Q9 Condenser pump
 - Q15 Heating circuit pump
 - RSV Non-return valve
 - SV Safety valve
 - TS Solar sensor
 - TW Domestic hot water
 - Y1 Heating circuit mixer 1
- Solar system on-site, independent of control by the heat pump.**

										
			OH Inverta Economy 02.40.10 E8							
					DATE		07/2017			
					DESIGNER		KAF			
					PROVED		DG			
					DESIGNER		SIA 410			
					DATE					
					CHANGE					



Legend

- B1 Flow temperature sensor heating circuit
- B21 Flow temperature sensor heat pump
- B3 Domestic hot water temperature sensor
- B4 Buffer storage temperature sensor
- B71 Return flow temperature sensor heat pump
- B9 External temperature sensor
- B91 Brine inlet temperature sensor
- B92 Brine outlet temperature sensor
- EG Expansion vessel
- E26 Brine pressure controller
- KW Cold water

- K6 Electrical heating element DHW (Power contactor+fuse in on-site tableau)
- N11 Heat pump controller
- PI Pressure gauge
- Q2 Heating circuit pump 1
- Q6 Heating circuit pump 2
- Q8 Brine pump
- Q9 Condenser pump
- RSV Non-return valve

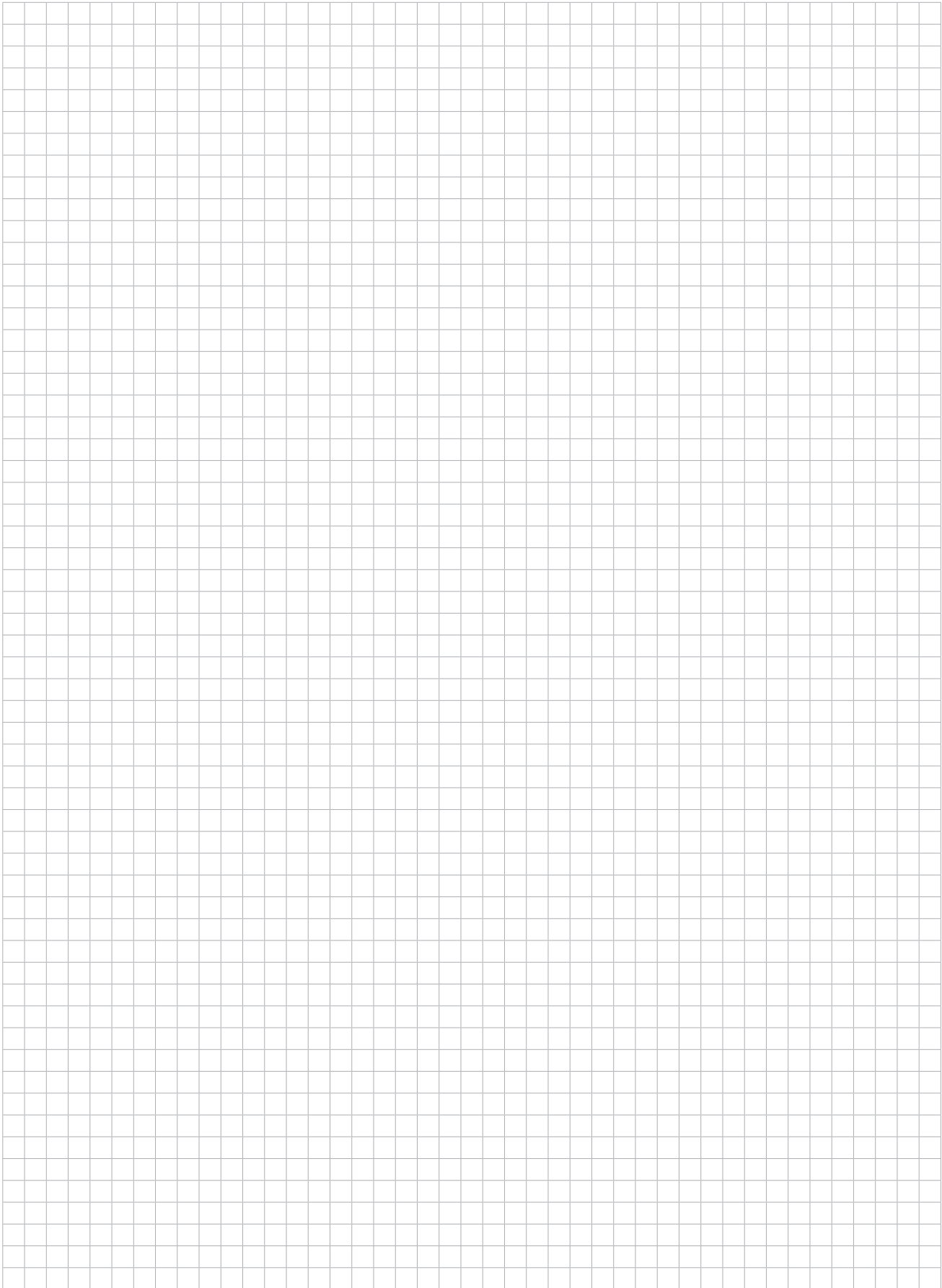
- SV Safety valve
- TS Solar sensor
- TWW Domestic hot water
- Y1 Heating circuit mixer 1

Solar system on-site, independent of control by the heat pump.

		DATE	07/2017	OH Inverta Economy 02.40.10 E1	CTA		Installation of additional components as per local regulations and conditions. This presentation is used as planning aid for the concerned installer.		PROJECT/project	-	Anlage	Funktion	Seite
		DESIGNER	KAF						NAME OF DRAWING	OHIECO	Project Manager	PM	44
		Provid	DG										No. pgs. 106
		DATE											8
		DESIGNER	Standard										7
		CHANGE											8







CTA Ltd.

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CH-3110 Münsingen, Switzerland

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